EPSON

Epson RC+ 8.0
Status Code / Error Code List
(RC800 series)

Original instructions

Rev.4
ENM256S7345F

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1. FOREWORD

1.1 FOREWORD

Thank you for purchasing our robot products.
This manual contains the information necessary for the correct use of the EPSON RC+ 7.0 software.
Please carefully read this manual and other related manuals before installing the robot system.
Keep this manual handy for easy access at all times.

The robot system and its optional parts are shipped to our customers only after being subjected to the strictest quality controls, tests, and inspections to certify its compliance with our high performance standards. Please note that the basic performance of the product will not be exhibited if our robot system is used outside of the usage conditions and product specifications described in the manuals.

This manual describes possible dangers and consequences that we can foresee. Be sure to comply with safety precautions on this manual to use our robot system safety and correctly.

1.2 TRADEMARKS

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1.3 TRADEMARK NOTATION IN THIS MANUAL

Microsoft® Windows® 10 operating system
Microsoft® Windows® 11 operating system
Throughout this manual, Windows 10 and Windows 11 refer to above respective operating systems. In some cases, Windows refers generically to Windows 10 and Windows 11.

1.4 NOTICE

No part of this manual may be copied or reproduced without authorization.
The contents of this manual are subject to change without notice.
Please notify us if you should find any errors in this manual or if you have any comments regarding its contents.

1.5 Manufacturer

SEIKO EPSON CORPORATION

1.6 CONTACT INFORMATION

For detailed contact information, see "SUPPLIER" of the manual below.
"Safety Manual"
Before Use
Before using this manual, be sure that you understand the following information.

The Installation Folder for Epson RC+ 8.0

You can change the path for the installation folder for Epson RC+ 8.0 anywhere. This manual assumes that Epson RC+ 8.0 is installed in C:\EpsonRC80.

2. Status Code / Error Code List

The code number classifications are as follows. For details, check the contents of the corresponding number.

1 -	Represents the status. It is not an error.
410 -	Represents a warning. The program can be executed even while a warning is occurring, but check the remedy.
1000 -	Represents an error. Check the remedy.
8000 -	Represents the error which you defined.
9000 -	Represents a serious error. There is a possibility of hardware failure. Check the remedy.
10000 -	Represents an error regarding Epson RC+. Check the remedy.

2.1 Code Number 1 ~

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1	The main system of the controller has started.	-		-	-
2	Shutdown process has started due to a drop in the power supply voltage.	-		-	-
3	The main system of the controller has shut down.	This log is stored when the controller is rebooted from Epson RC+ or TP1.		-	-
4	Preserve variables save area has been cleaned.	-		-	-
5	Function Main started.	-		-	-
6	Function Main started. Logging this event to system history will be skipped because the count limit is over.	-		-	-
7	Serial number conflict has been corrected.	-		-	-
8	System backup has been executed.	-		-	-
9	System restore has been executed.	-		-	-
10	Robot parameters have been initialized.	-		-	-
11	Offset pulse value between the encoder origin and home sensor (HOFS) has been changed.	-	Value after change	Value before change	-
17	Message saving mode has activated.	-		-	-
18	Robot parameter file has been converted.	-		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
20	Enable setting in TEACH mode has been saved.	-		-	-
21	Enable setting in TEACH mode has been changed.	-		-	-
23	EStop has activated.	-	Robot number executing motion command	Controller status	-
24	Safeguard has activated.	-	Robot number executing motion command	Controller status	-
25	Robot setting has been changed.	-	1: Added new 2: Changed 3: Deleted	Robot number	-
26	Alarm setting has been changed.	-	Alarm number	-	-
27	Safety Board has issued a Main stop signal.	If an unintended stop has occurred, check the Notes in the system history.	For details on stop signal types, refer to the following section. **Details of Note Information**	For Safety signal details - Switch - Axis - Location - Safety input channel - Deceleration error details, see the following section. **Details of Note Information**	-
28	Safety Board has issued a Sub stop signal.	If an unintended stop has occurred, check the Notes in the system history.	For details on stop signal types, refer to the following section. **Details of Note Information**	For Safety signal details - Switch - Axis - Location - Safety input channel - Deceleration error details, see the following section. **Details of Note Information**	-
50	The battery alarm for the controller has been reset.	-		-	-
51	The battery alarm for the robot has been reset.	-	Robot number	-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
52	The grease alarm for the robot has been reset.	-	Robot number	-	-
100	Device has connected to Controller.	-		-	-
101	Console device has been changed.	-		-	-
104	Cooperative mode has been changed.	-	0: Independent 1: Cooperative	-	-
110	Controller firmware has been installed.	-	1: Setup 2: Initialization 3: Version upgrade 4: Restore	-	-
111	IP address has been restored.	-		-	-
112	Controller rebooted.	-		-	-
113	Communication recovered from busy status.	-	1: Ethernet 2: USB	-	-
120	Epson RC+ connected to the controller.	-	1: Ethernet 2: USB	-	-
121	TP connected to the controller.	-		-	-
123	Epson RC+ disconnected from the Controller.	-		-	-
124	TP disconnected from the controller.	-		-	-
126	Working mode changed to AUTO.	-		-	-
127	Working mode changed to Program.	-		-	-
128	Working mode changed to TEACH.	-		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
129	Remote Ethernet connected to the controller.	-		-	-
130	Remote Ethernet disconnected to the controller.	-		-	-
133	Working mode changed to TEST.	-		-	-
134	Epson RC+ Express Edition connected to the controller.	-		-	-
135	Epson RC+ Express Edition disconnected from the controller.	-		-	-
411	The battery alarm(L10) for the robot occurred.	Do the following in order. 1. Replace the battery. 2. Reset the alarm in Epson RC+ - [Tools] - [Controller] - [Maintenance].	1000 times of consumption rate	1000 times of boundary value	Reboot
412	The belt alarm(L10) occurred.	Do the following in order. 1. Replace the belt. 2. Reset the alarm in Epson RC+ - [Tools] - [Controller] - [Maintenance].	1000 times of consumption rate	1000 times of boundary value	Reboot
413	The grease alarm(L10) for the ball screw spline occurred.	Do the following in order. 1. Grease the robot. 2. Reset the alarm in Epson RC+ - [Tools] - [Controller] - [Maintenance].	1000 times of consumption rate	1000 times of boundary value	Reboot
414	The motor alarm(L10) occurred.	Do the following in order. 1. Replace the motor. 2. Reset the alarm in Epson RC+ - [Tools] - [Controller] - [Maintenance].	1000 times of consumption rate	1000 times of boundary value	Reboot
415	The gear alarm(L10) occurred. Replace the gear units and reset the alarm.	Do the following in order. 1. Replace the gear units. 2. Reset the alarm in Epson RC+ - [Tools] - [Controller] - [Maintenance].	1000 times of consumption rate	1000 times of boundary value	Reboot
416	The ball screw spline alarm(L10) occurred.	Do the following in order. 1. Replace the ball screw spline. 2. Reset the alarm in Epson RC+ - [Tools] - [Controller] - [Maintenance].	1000 times of consumption rate	1000 times of boundary value	Reboot
421	The battery alarm(L50) for the robot occurred.	Do the following in order. 1. Replace the battery. 2. Reset the alarm in Epson RC+ - [Tools] - [Controller] - [Maintenance].	1000 times of consumption rate	1000 times of boundary value	Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
422	The belt alarm(L50) occurred.	Do the following in order. 1. Replace the belt. 2. Reset the alarm in Epson RC+ - [Tools] - [Controller] - [Maintenance].	1000 times of consumption rate	1000 times of boundary value	Reboot
423	The grease alarm(L50) for the ball screw spline occurred.	Do the following in order. 1. Grease the robot. 2. Reset the alarm in Epson RC+ - [Tools] - [Controller] - [Maintenance].	1000 times of consumption rate	1000 times of boundary value	Reboot
424	The motor alarm(L50) occurred.	Do the following in order. 1. Replace the motor. 2. Reset the alarm in Epson RC+ - [Tools] - [Controller] - [Maintenance].	1000 times of consumption rate	1000 times of boundary value	Reboot
425	The gear alarm(L50) occurred.	Do the following in order. 1. Replace the gear units. 2. Reset the alarm in Epson RC+ - [Tools] - [Controller] - [Maintenance].	1000 times of consumption rate	1000 times of boundary value	Reboot
426	The ball screw spline alarm(L50) occurred.	Do the following in order. 1. Replace the ball screw spline. 2. Reset the alarm in Epson RC+ - [Tools] - [Controller] - [Maintenance].	1000 times of consumption rate	1000 times of boundary value	Reboot
502	Memory has been initialized.	When this error occurs, the value of the Global Preserve variable will be initialized. Do one of the following and reboot the controller: - Replace the MAIN board. - After replacing the MAIN board, if the warning is displayed on the first startup, reboot the controller.	Magic number	Size verification	Reboot
504	An error occurred in a background task.	Make sure there are no problems in the system and continue the operation.	Task number	0	Reboot
505	Controller rebooted by auto recovery.	Settings may have been reset, so check before performing the operation.		-	Reboot
511	Check the backup battery.	Check the backup battery.	100 times of current value	100 times of boundary value	Reboot
512	5V input voltage for the MAIN board is lower than the specified voltage.	Replace the MAIN board.	100 times of current value	100 times of boundary value	Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
513	24V input voltage for the motor brake, encoder, and fan is lower than the specified voltage.	Do one of the following: - Replace the MAIN board. - Replace the PSU.	100 times of current value	100 times of boundary value	Reboot
514	Internal temperature of the controller is higher than the specified temperature.	Stop the controller as soon as possible and check whether the ambient temperature of the controller is not high. Check whether the filter is not clogged up.	100 times of current value	100 times of boundary value	Reboot
515	Rotating speed of the controller fan is below the allowed speed (FAN1).	Check whether the filter is not clogged up. Reboot the Controller. If the warning is not cleared, replace the fan.	Current value	Boundary value	Reboot
516	Rotating speed of the controller fan is below the allowed speed (FAN2).	Check whether the filter is not clogged up. Reboot the Controller. If the warning is not cleared, replace the fan.	Current value	Boundary value	Reboot
517	Internal temperature of the controller is higher than the specified temperature.	Stop the controller as soon as possible and check whether the ambient temperature of the controller is not high. Check whether the filter is not clogged up.	100 times of current value	100 times of boundary value	Reboot
519	3.3V input voltage for the MAIN board is lower than the specified voltage.	Replace the MAIN board.	100 times of current value	100 times of boundary value	Reboot
520	DC input voltage for the MAIN board is outside the specified voltage range.	Replace the MAIN board.	100 times of current value	100 times of boundary value	Reboot
550	Communication with the Compact Vision is disconnected.	Check the connection between the controller and compact vision.	Camera No.	-	Reboot
551	Compact Vision CPU fan RPM has decreased.	Check whether the fan filter of the compact vision is not clogged up. Reboot the controller and compact vision. If the warning is not cleared, replace the CPU fan.	Camera No.	Current value	Reboot
552	Compact Vision CPU fan RPM has decreased.	Replace the CPU fan of the compact vision.	Camera No.	Current value	Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
553	Compact Vision chassis fan RPM has decreased.	Check whether the fan filter of the compact vision is not clogged up. Reboot the controller and compact vision. If the warning is not cleared, replace the system fan.	Camera No.	Current value	Reboot
554	Compact Vision chassis fan RPM has decreased.	Replace the system fan of the compact vision.	Camera No.	Current value	Reboot
555	Compact Vision CPU temperature is higher than the specified temperature.	Check whether the fan filter of the compact vision is not clogged up. Reboot the controller and compact vision. If the warning is not cleared, check the compact vision installation environment (surrounding space, ambient temperature).	Camera No.	100 times of current value	Reboot
556	Compact Vision CPU temperature is higher than the specified temperature.	Check whether the fan filter of the compact vision is not clogged up. Reboot the controller and compact vision. If the warning is not cleared, check the compact vision installation environment (surrounding space, ambient temperature).	Camera No.	100 times of current value	Reboot
557	Compact Vision backup battery voltage is lower than the specified temperature.	Replace the compact vision backup battery.	Camera No.	100 times of current value	Reboot
558	Compact Vision backup battery voltage is lower than the specified temperature.	Replace the compact vision backup battery.	Camera No.	100 times of current value	Reboot
559	Compact vision process was terminated abnormally.	Reboot the controller and compact vision.	Camera No.	-	Reboot
560	Compact Vision is out of memory.	If the warning is not cleared, initialize the compact vision.	Camera No.	Current value	Reboot
561	Compact Vision is out of disk space.	Check the vision sequence if it has unnecessary models which can be reduced. Reduce the number of objects that use models (Geometric, Correlation, DefectFinder, etc.) Consider to use the USB memory.	Camera No.	Current value	Reboot
562	A critical hardware error occurred in the Compact Vision unit.	Check the hardware condition such as internal wiring. Reboot the controller and compact vision. If the warning is not cleared, initialize the compact vision.	Camera No.	-	Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
563	A critical hardware error occurred in the Compact Vision unit.	Check the hardware condition such as internal wiring. Reboot the controller and compact vision. If the warning is not cleared, replace the LED/SW board.	Camera No.	-	Reboot
569	Communication with the compact vision recovered.	If the warning is not cleared after the controller and compact vision are rebooted, replace the LED/SW board.	Camera No.	-	Reboot
570	Compact Vision: Password authentication has failed.	Enter the correct Compact Vision connection password in the RC+ Camera page. If the password is unknown, do one of the following: - Set a new connection password in CV Monitor. Set the same password in the Epson RC+ Camera page. - Perform a factory reset on the Compact Vision unit to clear the password. Rebuild the current RC+ project and check operation.		-	Reboot
580	An error occurred in the OPC UA Server.	Reboot the Controller.	OPC UA Status Code (tens digit)	-	Reboot
581	OPC UA Server log is activated.	1. Turn OFF the log function of OPC UA Server. 2. Reboot the controller to enable settings.		-	Reboot
582	OPC UA Server log size is exceeded.	1. Turn OFF the log function of OPC UA Server. 2. Reboot the controller to enable settings.		-	Reboot
590	Detect the different of the calibration settings in the controller and Safety Board.	Do one of the following and reboot the Controller: - Calibrate in controller settings. - Correct the settings of the Safety Board from the Safety Function Manager.	Axis number detected the difference at first.	Pulse value of the axis detected the difference at first.	Reboot
597	The PTP motion to avoid the singularity point has completed.	Clicking the same jog button will operate the robot in the normal jog motion.		-	Reboot
598	Robot stopped due to collision detection.	Move the manipulator to avoid collision.		-	Reboot
599	Jogging attempted near singularity point.	Clicking the same jog button will operate the robot in the PTP motion.		-	Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
700	Motor driver type does not match the current robot model.	Do one of the following: - Check the robot model. Replace the motor driver.		-	-
701	Axis settings are duplicated with those of other robots (including PG).	Check the robot model.		-	Reboot
702	Axis settings are duplicated with those of other robots (including PG).	Check the robot model.		-	Reboot
703	Axis settings are duplicated with those of other robots (including PG).	Check the robot model.		-	Reboot
704	Hardware information is undefined.	Check the robot model.		-	-
736	The encoder was reset.	Reboot the Controller.		-	-
737	The voltage of the encoder battery is low.	Do one of the following: - Turn the controller off and replace the battery. For the battery replacement procedure, refer to Maintenance in the Manipulator manual. - Replace the MAIN board. - Check the cable connection.		-	-
752	Servo alarm D.	Reboot the Controller. If this continues to occur, contact your dealer.		-	-

2.2 Code Number 1000 ~

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1001	A system error has occurred. (invalid parameter)	Do one of the following: - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1002	Cannot access the specified data.	Do one of the following. - Review the Controller setting. - Check the connection of the board mounted on the controller. - Make sure the specified file is accessible. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool.		-	-
1003	The connection password is invalid.	- Enter the connection password set on the controller.		-	-
1004	Cannot use the specified backup data or update tool because this version is not supported.	Do one of the following. - Update the controller firmware with the update tool. - Check the specified backup data. - Use a new update tool. Cannot revert the controller to the old version. - Update RC+ to the latest version.		-	-
1005	Cannot restore with the specified backup data because the serial number is different.	Select backup data with the same serial numbers and try again.		-	-
1006	Cannot restore with the specified backup data because the robot model is different.	Select backup data with the same robot models and try again.		-	-
1007	Cannot restore with the specified backup data because the controller type is different.	Select backup data with the same controller types and try again.		-	-
1008	Failed to initialize TP because an unsupported TP has been detected.	Do one of the following. - Reconnect a TP supported on the controller. - If this error occurs repeatedly, contact us.		-	-
1010	R-I/O number was specified for the Remote I/O function.	Set a remote I/O command other than the following I/O number: - Real time I/O - Hand-I/O		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1011	The specified I/O number cannot be assigned to the remote I/O signal because it is unsupported by the selected fieldbus slave.	Do one of the following. - Check the fieldbus slave screen size, the specified bit, and reset the remote I/O command. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-
1012	The specified I/O number cannot be assigned to the remote I/O signal because it is unsupported by the selected fieldbus master.	Do one of the following. - Check the fieldbus master screen size, the specified bit, and reset the remote I/O command. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-
1013	Failed to resize Fieldbus slave area due to bits in use in remote I/O.	Do one of the following. - Check the connected fieldbus board type and I/O range, check the size, then try again. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-
1015	The configured Hand I/O number was specified for the remote I/O function.	- Check the specified I/O number. The following I/O numbers that are in use cannot be specified: - Real time I/O - Hand setting - Function block		-	-
1016	The PLC remote settings are invalid (data size, reserved I/O number, PLC vendor type).	Do one of the following. - Specify the necessary PLC vendor type function block size. - Check the function block usage. - Check the specified I/O number. The following I/O numbers that are in use cannot be specified: - Real time I/O - Hand setting - Function block		-	-
1020	A system error has occurred. (recovery mode called)	Reboot the controller in normal mode and try again. The restore function and update tool required for controller recovery can be executed.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1021	This operation cannot be executed because the controller failed to initialize.	Do one of the following. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-
1022	This operation cannot be executed because the SPEL project is not open.	1. Open a project. 2. Rebuild the project.		-	-
1023	This operation cannot be executed because the SPEL project is already open.	Close the project and try again.		-	-
1024	The current setting restricts execution from Remote I/O.	Do the following in order and change the settings. 1. Set the control device to remote I/O. 2. Do one of the following: - Disconnect the RC+ and controller and set the system to Auto mode. - Enable remote I/O in the RC+ Run window.		-	-
1025	This operation is not supported in TEACH mode.	Set the controller operation mode to Auto and try again.		-	-
1026	This operation can only be executed from TP in TEACH mode.	Do one of the following. - Execute again from TP. - Set the controller operation mode to Auto and try again.		-	-
1027	This operation is not supported in Auto mode.	Set the controller operation mode to Program and try again.		-	-
1028	This operation can only be executed from device control in Auto mode.	Do one of the following. - Execute the operation again from the currently-set control device. - Change the control device and try again. - Set the controller operation mode to Program and try again.		-	-
1030	The specified control device does not have permission to change the controller's operation mode.	Use TP to change the mode from TEACH or TEST mode.		-	-
1031	Cannot perform this operation while a task is running.	End unnecessary tasks or wait for the task to finish and try again.		-	-
1032	The number of running tasks has already reached the maximum limit.	End unnecessary tasks or wait for the task to finish and try again.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1033	Cannot perform this operation while the asynchronous robot motion command is running.	Stop the motion or wait for the task to finish and try again.		-	-
1034	The specified asynchronous command is already complete.	Check if the robot motion is proceeding as intended.		-	-
1035	The current setting allows execution only from Remote I/O.	Do one of the following: - Set controller operation mode to Program, confirm that remote I/O is disabled in the Epson RC+ Run window, then try again. - Change the control device and try again.		-	-
1037	The current setting allows execution only from Remote Ethernet.	Do one of the following: - Set controller operation mode to Program, confirm that remote Ethernet is disabled in the Epson RC+ Run window, then try again. - Change the control device and try again.		-	-
1039	Cannot perform this operation while a task is running.	End unnecessary tasks or wait for the task to finish and try again.		-	-
1040	This operation is not supported on the connected controller.	Do one of the following: - Check the controller model. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-
1041	Cannot perform this operation during emergency stop status.	Clear the emergency stop status and execute the command again.		-	-
1042	Cannot perform this operation during safeguard is enabled.	Disable the safeguard (safety fence closed) and then execute the task again.		-	-
1043	Cannot perform this operation during Error status.	Do the following in order. 1. Check the error in the system history. 2. Remedy the error. 3. Execute again.		-	-
1045	Cannot perform this operation because the controller is waiting for INPUT command.	Wait for the INPUT command to finish and try again.		-	-
1046	Cannot perform this operation during file transfer.	Wait for file transfer to finish and try again.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1047	Cannot cancel this command because it is executed from other devices.	Stop the command from the device it was executed on.		-	-
1048	Cannot perform this operation because a drop in the power supply voltage was detected.	Cannot execute after low voltage was detected. Do the following in order. 1. Check the controller power status. 2. Reboot the Controller.		-	Reboot
1049	This control device does not have permission to change the controller's operation mode.	Execute the operation again from the control device changed in the current operation mode.		-	-
1050	The specifed password is too long.	Do one of the following: - Check the password length and try again. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-
1051	Failed to back up the controller settings to USB memory.	Do one of the following: - Check the USB memory connection and try again. - Use another USB memory and try again. - Reboot the controller and try again.		-	-
1052	Backup of controller settings has already started.	Auto backup could be running on the controller. Wait for it to end and try again.		-	-
1053	This operation is not supported in TEST mode.	Set the controller operation mode to TEACH or Auto and try again.		-	Stop task
1054	Cannot perform this operation except from TP in TEST mode.	Do one of the following: - Execute again from TP. - Set the controller operation mode to TEACH or AUTO and try again.		-	Stop task
1055	Cannot execute the background task.	Do one of the following: - Stop any unnecessary background tasks. - Check that the program contains the BGMain function and rebuild it.		-	Stop task
1056	The current setting prohibits operation from TP.	Stop the task and do one of the following: - Execute the operation from the currently-set control device. - Set the controller operation mode to TEACH or TEST and try again. - Enable TP in the Epson RC+ Run window and try again. - Change the control device and try again.		-	Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1057	The current setting allows operation only from the set TP.	Stop the task and do one of the following: - Execute the operation from the currently-set TP. - Set controller operation mode to Program, confirm that TP is disabled in the Epson RC+ Run window, then try again. - Change the control device and try again.		-	Stop task
1058	Cannot perform this operation except in T2 mode.	Stop the task, set the TP mode change key switch to Teach/T2, and try again.		-	Stop task
1065	Cannot reboot the controller because it is saving data.	Wait and try again.		-	-
1066	Communication failure between TP and controller.	Do one of the following to reboot TP. - Check the connection between controller and TP. - Reboot the Controller. - If this error continues to occur, contact us.		-	Reboot
1100	Failed to access the file.	Do one of the following: - Check the file name. - Reduce the number of files to transfer. - Delete unnecessary files. - Reduce the number of restore targets in the restore data selection dialog. - Check the backup folders specified in backup. - Check the backup data specified in restore. - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller SD.		-	-
1102	Failed to access system settings.	Do one of the following: - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller SD. - If this error occurs repeatedly, contact us.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1103	The specified file is not found.	Do one of the following: - Check the specified backup files for executing restore. - Update the controller firmware with the update tool. - Reinstall Epson RC+.		-	-
1104	SPEL project configuration file is not found.	Synchronize the project file or transfer it via restore.		-	Reset
1105	Object file is not found.	Do one of the following: - Rebuild the project. - Synchronize the project or transfer it via restore.		-	Reset
1106	The specified point file does not exist.	Do one of the following: - Synchronize the project or transfer the project that contains the required point file via restore. - Create the required point file. - Check the point file settings in the project.		-	Reset
1107	The specified SPEL project is not supported by the current compiler version.	Do one of the following: - Rebuild the SPEL project in the compiler version supported on the controller. - Specify the SPEL project for the compiler version supported on the controller. - Synchronize or transfer the SPEL project for the compiler version supported on the controller or transfer the project via restore.		-	Reset
1108	The specified SPEL project needs to be built.	Do one of the following: - Rebuild the project. - Synchronize the project or transfer it via restore.		-	Reset
1111	Conveyor file is not found.	Do one of the following: - Synchronize the project or transfer the project that contains the required conveyor file via restore. - Configure the necessary conveyor settings and create the file. - Check the conveyor file settings in the project.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1112	Force files are not found.	Do one of the following: - Synchronize the project or transfer the project that contains the required force file via restore. - Create the necessary force file. - Check the force file settings in the project.		-	Reset
1114	The number of SPEL projects that can be created in the controller has already reached the maximum limit.	Do one of the following: - Delete files in an application that supports multiple projects. - Update the controller firmware with the update tool.		-	-
1120	Failed to load the system settings. (file corrupted)	Do one of the following: - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller SD. - If this error occurs repeatedly, contact us.		-	-
1121	Failed to load SPEL project settings. (file corrupted)	Synchronize the project or transfer it via restore.		-	Reset
1122	Failed to open the Point file. (file corrupted)	Do one of the following: - Synchronize the project or transfer the project that contains the required point file via restore. - Recreate the required point file. - Check the point file settings in the project.		-	Reset
1123	Failed to open the I/O label file. (file corrupted)	Do one of the following: - Synchronize the project or transfer the project that contains the required I/O label files via restore. - Configure the necessary I/O labels again and then create the I/O label files. - Check the I/O label file settings in the project.		-	Reset
1124	Failed to open the User Errors file. (file corrupted)	Do one of the following: - Synchronize the project or transfer the project that contains the required user error files via restore. - Configure the necessary user error again and then create the user error files. - Check the user error file settings in the project.		-	Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1125	Failed to open the Error message file. (file corrupted)	Do one of the following: - Reinstall Epson RC+. - Contact your supplier.		-	-
1126	Failed to load the Software option information. (file corrupted)	Do the following in order. 1. Reboot the Controller. 2. Update the controller firmware with the update tool. 3. Reconfigure the software option.		-	-
1127	Failed to load the Vision file. (file corrupted)	Do one of the following: - Synchronize the project or transfer the project that contains the required vision files via restore. - Create the required vision files. - Check the vision file settings in the project.		-	Reset
1128	Failed to restore the controller settings. (file corruption)	Do one of the following: - Check the specified backup data and try again. - Acquire the backup data again. - Reboot the controller and try again.		-	-
1130	No item in the system history.	If the same error occurs, reboot the controller.		-	-
1131	Failed to detect USB memory.	Do one of the following: - Check the USB memory connection and try again. - Use another USB memory and try again. - Reboot the controller and try again.		-	-
1132	Failed to access the file.	Do one of the following: - Check the controller capacity and backup file size. - Check the control device connection. - Update the controller firmware with the update tool. - Reboot the Controller. - Check the control device connection. - Replace the controller SD. - Replace the controller board. - If this error occurs repeatedly, contact us.		-	Reset
1133	Failed to delete file.	Check the file name and path and try again.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1134	Failed to acquire the GUI Builder file.	Do one of the following: - Synchronize the project or transfer the project that contains the required GUI Builder files via restore. - Design the required GUI and recreate the GUI Builder file. - Check the GUI Builder file settings in the project.		-	Reset
1138	Failed to read the force guide file.	Do one of the following: - Synchronize the project or transfer the project that contains the required force guide files via restore. - Create the necessary force guide file. - Check the force file guide settings in the project.		-	Reset
1139	Failed to read the part feeder file.	Do one of the following. - Synchronize the project or transfer the project that contains the required part feeder files via restore. - Configure the necessary part feeder files again and then create the files. - Check the part feeder file settings in the project.		-	Reset
1140	Failed to read the object file.	Do one of the following: - Rebuild the project. - Synchronize the project or transfer it via restore.		-	Reset
1141	Failed to acquire SPEL project settings.	Synchronize the project or transfer it via restore.		-	Reset
1142	Failed to acquire SPEL project settings.	Synchronize the project or transfer it via restore.		-	Reset
1143	Failed to backup controller settings.	Do one of the following: - Execute again. - When backing up to USB memory, use different USB memory and try again. - Reboot the controller and try again.		-	-
1144	Failed to backup controller settings.	Do one of the following: - Execute again. - When backing up to USB memory, use different USB memory and try again. - Reboot the controller and try again.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1145	Failed to read the configured conveyor file.	Do one of the following: - Synchronize the project or transfer the project that contains the required conveyor file via restore. - Configure the necessary conveyor settings and create the file. - Check the conveyor file settings in the project.		-	Reset
1146	Failed to read the configured conveyor file.	Do one of the following: - Synchronize the project or transfer the project that contains the required conveyor file via restore. - Configure the necessary conveyor settings and create the file. - Check the conveyor file settings in the project.		-	Reset
1150	Failed to acquire the system history file (format mismatch).	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller SD.		-	-
1151	Failed to acquire the system history file (mapping error).	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller SD.		-	-
1152	Failed to acquire the system history file.	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller SD.		-	-
1153	Failed to acquire the system history file.	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller SD.		-	-
1155	Failed to acquire settings.	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller SD. - Replace the controller board. - Reinstall Epson RC+ if a virtual controller connection error occurs. - If this error occurs repeatedly, contact us.		-	Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1156	Failed to save settings.	Do one of the following: - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - Replace the controller SD. - Replace the controller board. - Reinstall Epson RC+ if a virtual controller connection error occurs. - If this error occurs repeatedly, contact us.		-	Reset
1157	Failed to acquire settings.	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller SD. - Replace the controller board. - Reinstall Epson RC+ if a virtual controller connection error occurs. - If this error occurs repeatedly, contact us.		-	Reset
1158	Failed to save settings.	Do one of the following: - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - Replace the controller SD. - Replace the controller board. - Reinstall Epson RC+ if a virtual controller connection error occurs. - If this error occurs repeatedly, contact us.		-	Reset
1160	Failed to acquire settings (MCD).	Do one of the following: - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - Replace the controller SD. - If this error occurs repeatedly, contact us.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1161	Failed to acquire settings (MCD).	Do one of the following: - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - Replace the controller SD. - Reinstall Epson RC+ if a virtual controller connection error occurs. - If this error occurs repeatedly, contact us.		-	-
1163	Failed to save settings (MCD).	Do one of the following. - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - Replace the controller SD. - Replace the controller board. - If this error occurs repeatedly, contact us.		-	-
1165	Failed to get system settings of MT robot. (MPD)	Correct the issue or update using the MT setup tool.		-	-
1166	Failed to get system settings of MT robot. (MPD)	Correct the issue or update using the MT setup tool.		-	-
1168	Failed to get system settings of MT robot. (MPD)	Correct the issue or update using the MT setup tool.		-	-
1170	Failed to get system settings of MT robot. (MPL)	Do one of the following. - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller SD. - Reinstall Epson RC+ if a virtual controller connection error occurs. - If this error occurs repeatedly, contact us.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1171	Failed to get system settings of MT robot. (MPL)	Do one of the following. - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller SD. - If this error occurs repeatedly, contact us.		-	-
1181	Failed to initialize robot parameters.	Do the following in order. 1. Reboot the Controller. 2. Reconfigure the robot.		-	-
1182	Could not restore due to new version of specified backup data.	Do one of the following: - Update the controller firmware with the update tool. - Check the specified backup data.		-	-
1183	Could not restore due to new version of specified backup data.	Do one of the following: - Update the controller firmware with the update tool. - Check the specified backup data.		-	-
1184	Restore failed. A number of backup data files that exceeds the upper limit was specified.	Do one of the following: - Remove projects in the restore data selection dialog. - Create backup data with a reduced number of project files in the virtual controller, then try again.		-	-
1185	Failed to read backup data.	Do one of the following: - Execute again. - Check the backup data when restoring. - When backing up to USB memory, use different USB memory and try again. - Reboot the controller and try again.		-	-
1186	Failed to restore controller settings.	Do one of the following: - Check the specified backup data and try again. - Acquire the backup data again. - Reboot the controller and try again.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1187	Failed to backup controller settings.	Do one of the following: - Execute again. - When backing up to USB memory, use different USB memory and try again. - Reboot the controller and try again. - Update the controller firmware with the update tool. - Replace the controller SD. - Reinstall Epson RC+ if a virtual controller connection error occurs. - If this error occurs repeatedly, contact us.		-	-
1189	Could not restore due to an unsupported version of the specified backup data.	Do one of the following: - Check the specified backup data. - Update the controller firmware with the update tool.		-	-
1190	Failed to restore the specified backup data because this version is not supported. (the backup data is newer)	Do one of the following: - Check the specified backup data. - Update the controller firmware with the update tool.		-	-
1191	Failed to restore because the specified backup data does not include SPEL project.	Do one of the following: - Check the specified backup data. - Remove projects from the restore target.		-	-
1192	Failed to restore because the number of robots is different.	Do one of the following: - Check the specified backup data. - Connect and configure the necessary robots and try again.		-	-
1193	Failed to restore because the information of robots is different.	Do one of the following: - Check the specified backup data. - Configure the necessary additional axis and try again. - Remove calibration data in the restore data selection dialog. - Specify actual controller backup data.		-	-
1194	Failed to restore because the specified backup data includes a drive unit.	Check the specified backup data and try again.		-	-
1195	Failed to backup controller settings. (mapping)	Do one of the following: - Execute again. - When backing up to USB memory, use different USB memory and try again. - Reboot the controller and try again.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1196	Failed to backup controller settings.	Do one of the following: - Execute again. - When backing up to USB memory, use different USB memory and try again. - Reboot the controller and try again.		-	-
1197	Failed to backup controller settings.	Do one of the following: - Execute again. - When backing up to USB memory, use different USB memory and try again. - Reboot the controller and try again.		-	-
1198	Failed to restore because the Vision hardware configuration needs to be restored together with the project.	If you selected Vision hardware settings as a restore target, select a project also.		-	-
1200	Failed to build SPEL project. (compile)	Do the following in order. 1. Check the error that occurred in the control device status window. 2. Correct the section where the program error occurred.		-	-
1201	Failed to build SPEL project. (link)	Do the following: 1. Check the error that occurred in the control device status window. 2. Correct the section where the program error occurred.		-	-
1250	The user defined remote output I/O registration name is not defined.	Do one of the following: - Check the user defined remote output I/O settings. - Update the controller firmware with the update tool.		-	-
1251	The user defined remote output I/O conditional expression is not defined.	Do one of the following: - Check the user defined remote output I/O settings. - Update the controller firmware with the update tool.		-	-
1252	An unsupported robot number was specified.	Do one of the following: - Check the robot connection and settings and try again. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1260	An unregistered robot was specified.	Do one of the following: - Check the robot registration. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool.		-	-
1261	Failed to set the alarm. (getting scheduled occurrence date)	Do one of the following: - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-
1262	Failed to set the alarm.	Do one of the following: - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-
1263	Failed to set the alarm. (alarm number out of range)	Do one of the following: - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-
1264	Failed to set the alarm. (alarm disabled)	Do one of the following: - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-
1270	The part feeder type in the PF file and the controller settings are different.	Do one of the following: - Re-register the feeder settings in Epson RC+ - Menu - [Setup] - [System Configuration]. - Synchronize the project or transfer it via restore.		-	Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1271	Communication with the specified part feeder failed.	Do one of the following: - Check that the Ethernet connection between the part feeder and the Controller is functioning normally (have cables become disconnected, is there a hub failure or a lack of power supply to the hub, etc.). - Check the power supply to the part feeder. - Check that part feeder network settings (IP address, IP mask, port) are correct.		-	-
1272	Failed to initialize part feeder output port.	Do one of the following: - Check the Ethernet connection between the part feeder and controller. Specifically, check for cable disconnections, network hub failures, and lack of power supply to the hub. - Check the power supply to the part feeder. - Check that part feeder network settings (IP address, IP mask, port) are correct.		-	-
1273	Failed to change part feeder parameters.	Do one of the following: - Check the Ethernet connection between the part feeder and controller. Specifically, check for cable disconnections, hub failures, and lack of power supply to the hub. - Check the power supply to the part feeder. - Check that part feeder network settings (IP address, IP mask, port) are correct.		-	-
1290	A system error has occurred. (force monitor number out of allowable range)	Do one of the following: - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-
1291	The force monitor is already used on another device.	Check the connections and force monitor usage status of other PCs and control devices and try again.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1292	Failed to load the Force Guide file. (sequence, object information)	Do one of the following: - Synchronize the project or transfer the project that contains the required force guide files via restore. - Create the necessary force guide file. - Check the force file guide settings in the project.		-	Reset
1293	Failed to set the Force Sensor because the specified robot type is joint type or Cartesian type	Specify the robot number for the robot type for which you want to set the Force Sensor. The robot type must be other than joint type or Cartesian coordinate type.			
1400	Failed to load the Force Guide file. (file error)	Do one of the following: - Synchronize the project or transfer the project that contains the required force guide files via restore. - Create the necessary force guide file. - Check the force file guide settings in the project.		-	Reset
1401	Failed to load the Force Guide file. (file path)	Configure the force guide files again.		-	-
1402	Failed to load the Force Guide file. (file open)	Do one of the following: - Synchronize the project or transfer the project that contains the required force guide files via restore. - Create the necessary force guide file. - Check the force file guide settings in the project.		-	Reset
1403	Failed to load the Force Guide file. (file open)	Do one of the following: - Synchronize the project or transfer the project that contains the required force guide files via restore. - Create the necessary force guide file. - Check the force file guide settings in the project.		-	-
1404	An unsupported value was specified in the force guide sequence number.	Do one of the following: - Synchronize the project or transfer the project that contains the required force guide files via restore. - Create the necessary force guide file. - Check the force file guide settings in the project.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1405	An unsupported value was specified in the force guide object number.	Do one of the following: - Synchronize the project or transfer the project that contains the required force guide files via restore. - Create the necessary force guide file. - Check the force file guide settings in the project.		-	-
1406	An unsupported value was specified in the force guide sequence properties.	Do one of the following: - Synchronize the project or transfer the project that contains the required force guide files via restore. - Create the necessary force guide file. - Check the force file guide settings in the project.		-	Reset
1407	An unsupported value was specified in the force guide object properties.	Do one of the following: - Synchronize the project or transfer the project that contains the required force guide files via restore. - Create the necessary force guide file. - Check the force file guide settings in the project.		-	-
1408	An unsupported value was specified in the force guide object type.	Do one of the following: - Synchronize the project or transfer the project that contains the required force guide files via restore. - Create the necessary force guide file. - Check the force file guide settings in the project.		-	-
1409	An unsupported value was specified in the force guide parameters.	Do one of the following: - Synchronize the project or transfer the project that contains the required force guide files via restore. - Create the necessary force guide file. - Check the force file guide settings in the project.		-	-
1410	Failed to load the Force Guide file. (unsupported version).	Do one of the following to reset the Controller: - Synchronize the project or transfer the project that contains the required force guide file via restore. - Create the necessary force guide file. - Check the force file guide settings in the project.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1411	An unsupported value was specified in the force guide properties.	Do one of the following: - Synchronize the project or transfer the project that contains the required force guide files via restore. - Create the necessary force guide file. - Check the force file guide settings in the project.		-	-
1412	Decision object was set at the top of the force guide sequence.	Do one of the following: - Synchronize the project or transfer the project that contains the required force guide files via restore. - Create the necessary force guide file. - Check the force file guide settings in the project.		-	-
1413	Specified Force Guide object as ConditionObject is disabled.	Do one of the following: - Synchronize the project or transfer the project that contains the required force guide files via restore. - Create the necessary force guide file. - Check the force file guide settings in the project.		-	-
1414	Failed to load the Part Feeding file.	Do one of the following. - Synchronize the project or transfer the project that contains the required part feeder files via restore. - Configure the necessary part feeder files again and then create the files. - Check the part feeder file settings in the project.		-	Reset
1420	Program conversion processing failed.	Do one of the following: - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-
1421	Failed to allocate memory.	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1423	Program conversion processing failed (conversion file path).	Do one of the following: - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-
1424	Program conversion processing failed (prg file path).	Do one of the following: - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-
1425	Program conversion processing failed (command file path).	Do one of the following: - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-
1426	Program conversion processing failed (conversion file error).	Do one of the following: - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-
1427	Program conversion processing failed (command file error).	Do one of the following: - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1428	Program conversion processing failed.	Do one of the following: - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-
1429	Program conversion processing failed (prg file error).	Do one of the following: - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-
1501	Command was not completed within the specified time.	Do one of the following: - Wait and try again. - Check the connection between Epson RC+ and the controller.		1: Communication timeout 2: Disconnected USB cable 3: USB reception error 4: USB communication stopped	Reset
1502	The control device and controller have been disconnected.	Do the following in order. 1. Check the USB or LAN cable connection. 2. If necessary, check the network status. 3. Reconnect on the control device. 4. Reset the Controller.		1: Communication timeout 2: Disconnected USB cable 3: USB reception error 4: USB communication stopped	Reset
1503	The control device and controller have been disconnected during task execution.	Do one of the following: - Check the controller settings and then execute the task. - Check if there are any unnecessary devices connected in addition to the currently connected control device.		-	Reset
1504	The remote Ethernet and controller have been disconnected.	Do the following in order. 1. Check the connection between the remote Ethernet device and controller. 2. Reconnect on the control device. 3. Reset the Controller.		-	Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1506	The TP and controller have been disconnected.	Do the following in order. 1. Check the connection between the TP and controller. 2. Reconnect on the control device. 3. Reset the Controller.		-	Reset
1510	Invalid IP Address was specified.	Check the IP address specification and try again.		-	-
1511	A configured or scheduled connection on the system was specified.	Do one of the following: - Set a different IP address. - Set a different port number. - Remove unnecessary IP addresses from settings. - Remove unnecessary port numbers from settings.		-	-
1512	A gateway address scheduled on the system was specified.	Set a different gateway address.		-	-
1513	A global IP address without a connection authentication password or an invalid IP address was specified.	Do one of the following: - Set the connection authentication password and then the IP address. - Use a private IP address. - Check the IP address specification and try again.		-	-
1514	The connection destination setting or password is invalid.	Check the connection destination setting and password.		-	-
1523	Communication between the vision camera and controller failed (socket handle acquisition).	Reboot the Controller.		-	-
1524	Communication between the vision camera and controller failed (connection).	Do one of the following, then try again: - Check the connection between the compact vision and controller. - Check the connection between Epson RC+ and the controller.		-	-
1526	Communication between the vision camera and controller failed (transmission).	Do one of the following, then try again: - Check the connection between the compact vision and controller. - Check the connection between Epson RC+ and the controller.		-	-
1527	Communication between the vision function and controller failed (server read).	Do one of the following, then try again: - Check the connection between the compact vision and controller. - Check the connection between Epson RC+ and the controller.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1528	Failed to configure vision camera option settings.	Do one of the following, then try again: - Check the settings. - Check the connection between the compact vision and controller. - Check the connection between Epson RC+ and the controller.		-	-
1529	Vision communication initialization failed.	Reboot the Controller.		-	-
1530	Communication between the vision function and controller failed (server not connected).	Do one of the following, then try again: - Check the connection between the compact vision and controller. - Check the connection between Epson RC+ and the controller.		-	-
1531	Communication between the vision camera and controller failed (no available socket).	Do one of the following, then try again: - Check if the number of connected vision devices exceeded the upper limit. - Check the connection between the compact vision and controller. - Check the connection between Epson RC+ and the controller.		-	-
1532	Communication between the vision function and controller failed (transmission timeout).	Do one of the following, then try again: - Check the connection between the compact vision and controller. - Check the connection between Epson RC+ and the controller.		-	-
1533	Communication between the vision function and controller failed (reception timeout).	Do one of the following, then try again: - Check the connection between the compact vision and controller. - Check the connection between Epson RC+ and the controller.		-	-
1534	Communication between the vision function and controller failed.	Do one of the following, then try again: - Check the connection between the compact vision and controller. - Check the connection between Epson RC+ and the controller.		-	-
1550	Failed to initialize Ethernet communications.	Do one of the following: - Check the Ethernet cable connection. - Reboot the Controller.		-	-
1551	The control device and controller USB have been disconnected.	Do the following in order. 1. Check the USB cable connection. 2. Reconnect on the control device. 3. Reset the Controller.		-	Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1552	Failed to communicate with TP.	Do one of the following: - Check the connection with TP. - Reboot the Controller.		-	-
1553	Failed to communicate with control device.	Check the control device connection and perform the operation again.		-	-
1555	Ethernet communication failed (transmission).	Do one of the following: - Check the connection between Epson RC+ and the controller. - If a router is used between the PC and controller, confirm that the DHCP function is disabled.		-	-
1556	Ethernet communication failed (reception).	Do one of the following: - Check the connection between Epson RC+ and the controller. - If a router is used between the PC and controller, confirm that the DHCP function is disabled.		-	-
1557	Failed to communicate with the control device via USB while a command was executing (transmission).	Do the following in order. 1. Check the USB cable connection. 2. Execute the task or command again.		-	-
1558	Failed to communicate with the control device via USB while a command was executing (reception).	Do the following in order. 1. Check the USB cable connection. 2. Execute the task or command again.		-	-
1559	A data size that exceeds the communication buffer was specified.	Do one of the following: - Reboot the Controller. - Reboot Epson RC+ if using the RC+ cooperative function. - Please inquire with us if a similar error occurs even after rebooting the controller.		-	-
1582	A system error has occurred. (parser - transmission error)	Reset the controller and do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	Reset
1583	A system error has occurred. (parser - initialization error)	Reset the controller and do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1584	A system error has occurred. (parser - connection error)	Reset the controller and do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	Reset
1585	A system error has occurred. (parser - invalid parameter)	Reset the controller and do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	Reset
1586	A system error has occurred. (parser - busy)	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	Reset Stop task
1587	A system error has occurred. (parser - invalid data received)	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	Reset Stop task
1700	Failed to initialize TP.	Do one of the following: - Check the connection between controller and TP. - Reboot the Controller. - If this error occurs repeatedly, contact us.		-	-
1701	Failed to initialize TP.	Do one of the following: - Check the connection between controller and TP. - Reboot the Controller. - If this error occurs repeatedly, contact us.		-	-
1702	Failed to initialize TP.	Do one of the following: - Check the connection between controller and TP. - Reboot the Controller. - If this error occurs repeatedly, contact us.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1703	Failed to load the TP screen data file.	Do one of the following: - Check the connection between controller and TP. - Reboot the Controller. - If this error occurs repeatedly, contact us.		-	-
1704	Failed to load the TP screen data file.	Do one of the following: - Check the connection between controller and TP. - Reboot the Controller. - If this error occurs repeatedly, contact us.		-	-
1706	Failed to initialize the TP serial port.	Do one of the following: - Check the connection between controller and TP. - Reboot the Controller. - If this error occurs repeatedly, contact us.		-	-
1708	Failed to load the key table for TP.	Do one of the following: - Check the connection between controller and TP. - Reboot the Controller. - If this error occurs repeatedly, contact us.		-	-
1709	Failed to change the language for TP.	Do one of the following: - Check the connection between controller and TP. - Reboot the Controller. - If this error occurs repeatedly, contact us.		-	-
1710	Failed to display the screen for TP.	Do one of the following: - Check the connection between controller and TP. - Reboot the Controller. - If this error occurs repeatedly, contact us.		-	-
1800	The specified controller is already connected to a PC or TP4.	Only one Epson RC+ can be connected to the controller at one time. Check the connection between Epson RC+ and the controller.		-	-
1802	A command was executed without connecting to the controller.	Check the connection between Epson RC+ and the controller.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1803	PC file access failed due to Epson RC+ cooperative function.	Stop the task and do one of the following: - Check the file path specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Check SPEL command drive selection. - Reboot Epson RC+. - Please inquire with us if a similar error occurs even after rebooting the controller.		-	Stop task
1804	Failed to allocate memory necessary for executing the cooperative function with Epson RC+.	Stop the task and do one of the following: - Reboot the connected Epson RC+. - Please inquire with us if a similar error occurs even after rebooting the controller.		-	Stop task
1805	Connection between the PC and controller failed.	Check that the controller is running and the communication cable is connected.		-	-
1806	Connection between the PC and controller failed (Ethernet connection timeout).	Check the connection between Epson RC+ and the controller.		-	-
1807	Connection between the PC and controller failed (USB connection timeout).	Check the connection between Epson RC+ and the controller.		-	-
1808	Connection between the PC and controller failed (USB port recognition error).	Do one of the following to reset the controller: - - Check the USB cable connection between the controller and Epson RC+. - Reinstall Epson RC+.		-	-
1809	Failed to connect to Epson RC+ cooperative function.	Stop the task and do one of the following: - Check the connection between Epson RC+ and the controller. - Reboot Epson RC+. - Reboot the PC Epson RC+ is running on.		-	Stop task
1810	Failed to connect to Epson RC+ cooperative function.	Stop the task and do one of the following: - Check the connection between Epson RC+ and the controller. - Reboot Epson RC+. - Reboot the PC Epson RC+ is running on.		-	Stop task
1812	The connected controller is not supported.	Do one of the following: - Check the connection between the PC and controller. - Use Epson RC+ 6.0 or earlier.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1813	Connection between Epson RC+ and the controller failed (Ethernet connection type difference).	Do one of the following: - Check the connection between the PC and controller. - Check the connection destination setting controller series.		-	-
1814	The USB port is not ready.	Do one of the following: - Wait a while and connect again. - Check that the controller is running and the communication cable is connected.		-	-
1815	Cannot recognize USB cable connection.	Check that the controller is running and the USB cable is connected.		-	-
1851	An unsupported command was executed.	Do one of the following: - Review the contents of the SPEL program. - Rebuild the project.		-	-
1852	A system error has occurred.	Do one of the following. - Reboot Epson RC+. - Reboot the PC. - Reinstall Epson RC+.		-	-
1861	Failed to initialize Epson RC+. (SimulatorMNG)	Do one of the following: - Reboot Epson RC+. - Reboot the PC. - Reinstall Epson RC+.		-	-
1862	Failed to initialize Epson RC+. (WBProxy)	Do one of the following: - Reboot Epson RC+. - Reboot the PC. - Reinstall Epson RC+.		-	-
1863	Invalid parameters.	Do one of the following: - Reboot Epson RC+. - Reboot the PC. - Reinstall Epson RC+.		-	-
1864	Virtual controller does not exist.	Reinstall Epson RC+.		-	-
1865	Failed to start virtual controller.	Do one of the following: - Retry after a while. - Reboot the PC.		-	-
1866	Failed to terminate virtual controller.	Reboot the PC.		-	-
1867	This operation can only be executed in dry run mode.	Enable dry run mode.		-	-
1868	Directory does not exist.	Failed to install Epson RC+. Reinstall Epson RC+.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1872	Failed to acquire the actual controller information file.	Do one of the following: - Recreate the connection destination. - Reinstall Epson RC+.		-	-
1873	Failed to acquire the virtual controller information file.	Do one of the following: - Recreate the connection destination. - Reinstall Epson RC+.		-	-
1874	Failed to add virtual controller.	Failed to install Epson RC+. Reinstall Epson RC+.		-	-
1875	Failed to register simulator object.	Do one of the following: - Recreate the virtual controller connection destination. - Reinstall Epson RC+.		-	-
1876	Failed to read simulator object.	Do one of the following: - Recreate the virtual controller connection destination. - Reinstall Epson RC+.		-	-
1877	Failed to delete simulator object.	Do one of the following: - Recreate the virtual controller connection destination. - Reinstall Epson RC+.		-	-
1878	Failed to change simulator object.	Do one of the following: - Recreate the virtual controller connection destination. - Reinstall Epson RC+.		-	-
1879	Other virtual controllers are running.	Other virtual controllers are being used on another Epson RC+. End Epson RC+ and then reboot it.		-	-
1880	Cannot execute during controller reboot.	Reboot the controller, wait, and try again.		-	-
1901	This operation is not supported with the current settings.	Do one of the following: - Check the command. - Switch to the virtual or actual controller and then execute. - Check the control device and then execute. - Check the operation. - Update the controller firmware with the update tool. - Reinstall Epson RC+. - If this error occurs repeatedly, contact us.		-	Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1902	A system error has occurred. (unsupported parameter)	Do one of the following: - Rebuild the project. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-
1903	A system error has occurred.	Do one of the following. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	Reset
1904	Failed to restore due to the large size of the backup data.	Do one of the following: - Check the specified backup data. - Delete unnecessary files from the specified backup data project folder. - Select something other than the project files and try again.		-	-
1905	System error notification.	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - Reinstall Epson RC+. - If this error occurs repeatedly, contact us.		-	Reboot
1906	The upgrade license deadline does not match.	Contact your supplier and update the upgrade license.		-	-
1907	Failed to initialize controller internal communication.	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - Reinstall Epson RC+. - If this error occurs repeatedly, contact us.		-	Reboot
1908	Controller internal communication failed.	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - Reinstall Epson RC+. - If this error occurs repeatedly, contact us.		-	Reboot
1910	Failed to save reboot log.	Settings may have been reset, so check before performing the operation.		-	-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
1920	USB connection failed.	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.		-	-

2.3 Code Number 2000 ~

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2000	An unsupported SPEL command was specified (normal command).	Stop the task and do one of the following: - Rebuild the project. - Check the SPEL command usage. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for command support information and correction instructions.			Stop task
2001	An unsupported SPEL command was specified (motion command).	Stop the task and do one of the following: - Rebuild the project. - Check the SPEL command usage. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for command support information and correction instructions.			Stop task
2003	An unsupported process was found in the specified SPEL project (function argument).	Stop the task and do one of the following: - Rebuild the project. - Check the SPEL command specifications. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2004	An unsupported process was found in the specified SPEL project (function return value).	Stop the task and do one of the following: - Rebuild the project. - Check the SPEL command specifications. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2005	Unsupported event conditions were found in the specified SPEL project.	Stop the task and do one of the following: - Rebuild the project. - Check the SPEL command specifications. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2006	An unsupported SPEL command was specified (I/O command).	Stop the task and check the SPEL command usage. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2007	An event condition other than Wait that is not supported was specified.	Stop the task and do one of the following: - Rebuild the project. - Check the SPEL command specifications. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2009	The specified task number was called in an unexpected execution order.	Stop the task and do one of the following: - Check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2010	An unsupported SPEL command was specified (intermediate code error).	Stop the task and do one of the following: - Rebuild the project. - Check the SPEL command usage method. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2011	An unsupported format was specified (function argument count).	Stop the task and do one of the following: - Check the controller firmware version and use a supported format. See the reference manual for support information and correction instructions. - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2012	An unsupported format was specified (command argument count).	Stop the task and do one of the following: - Check the controller firmware version and use a supported format. See the reference manual for support information and correction instructions. - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2013	An unsupported format was specified (unknown code).	Stop the task and do one of the following: - Check the controller firmware version and use a supported format. See the reference manual for support information and correction instructions. - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2014	An unsupported format was specified (unknown code variable type).	Stop the task and do one of the following: - Check the controller firmware version and use a supported format. See the reference manual for support information and correction instructions. - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2015	An invalid SPEL project was specified (string type).	Stop the task and do one of the following: - Check the controller firmware version and use a supported format. See the reference manual for support information and correction instructions. - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2016	An invalid SPEL project was specified (variable type).	Stop the task and do one of the following: - Check the controller firmware version and use a supported format. See the reference manual for support information and correction instructions. - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2017	The necessary parameter was not specified.	Stop the task and do one of the following: - Check the parameter specified in the SPEL command. See the reference manual for correction instructions. - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2018	An invalid SPEL project was specified (variable size error).	Stop the task and do one of the following: - Check the controller firmware version and use a supported format. See the reference manual for support information and correction instructions. - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2019	An invalid SPEL project was specified (waiting on global variable).	Stop the task and do one of the following: - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2020	A function call or local variable definition occurred that would exceed the upper limit of the number of stack tables.	Stop the task and do one of the following: - Check whether the nested structure is called infinitely. - Reduce the nested structure calls depth.			Stop task
2021	A function call or local variable definition occurred that would exceed the upper limit of the stack table area size.	Stop the task, and when using many local variables, especially string types, replace them with global variables.			Stop task
2022	An unsupported format was specified (stack mismatch).	Stop the task and do one of the following: - Check the controller firmware version and use a supported format. See the reference manual for support information and correction instructions. - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2023	An invalid SPEL project was specified (unknown tag).	Stop the task and do one of the following: - Check the controller firmware version and use a supported format. See the reference manual for support information and correction instructions. - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2024	The local variable in the child task exceeded the size that can be stored.	Stop the task and check the local variable used in the SPEL program. For details on the local variable, see the user's guide.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2025	An unsupported format was specified (invalid function call).	Stop the task and do one of the following: - Check the controller firmware version and then check the SPEL function. See the reference manual for correction instructions. - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2031	Failed to initialize controller.	Do one of the following to reboot the controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reboot
2032	A system error has occurred. (task number compliance)	Stop the task and do one of the following: - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2033	Too many errors have occurred.	Remedy the error in the system history.			-
2040	Failed to initialize controller. (thread creation error)	Do one of the following: - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2041	Failed to initialize controller. (thread creation timeout)	Reboot the Controller.			-
2044	Failed to execute task. (daemon process wait timeout)	Stop the task and do one of the following: - Stop the task and try again. - Reboot the Controller.			Stop task
2045	Failed to execute task. (task continuation wait timeout)	Stop the task and do one of the following: - Stop the task and try again. - Reboot the Controller.			Stop task
2046	Failed to execute task. (task abort wait timeout)	Stop the task and do one of the following: - Stop the task and try again. - Reboot the Controller.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2047	Failed to execute task. (task start wait timeout)	Stop the task and do one of the following: - Stop the task and try again. - Reboot the Controller.			Stop task
2050	An object file that exceeds the upper limit size was specified.	Do the following in order. 1. Check the program and reduce the number of rows, etc. 2. Rebuild the project.			-
2051	Task running. Cannot change SPEL project.	Do one of the following: - Stop the task and try again. - Reboot the Controller.			Reset
2052	Failed to allocate memory (execution file).	Reset the controller and do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reboot
2053	SPEL project updating. Operation failed.	Wait and try again.			Stop task
2054	Controller and PC SPEL project not synchronized (function ID).	Do one of the following: - Synchronize the project. - Rebuild the project.			Stop task
2055	Controller and PC SPEL project not synchronized (local variable ID).	Do one of the following: - Synchronize the project. - Rebuild the project.			-
2056	Controller and PC SPEL project not synchronized (global variable ID).	Do one of the following: - Synchronize the project. - Rebuild the project.			-
2057	Controller and PC SPEL project not synchronized (global preserve variable ID).	Do one of the following: - Synchronize the project. - Rebuild the project.			-
2058	Failed to update SPEL project (variable size error).	Do one of the following: - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2059	The global variable in the specified SPEL project exceeds the size that can be stored.	Do one of the following to reset the Controller: - Check the global variable used in the SPEL program. For details on the global variable, see the user's guide. - Synchronize the project or transfer the project that was operating correctly via restore.			Reset
2070	Failed to initialize controller (SRAM mapping error).	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the MAIN board. - If this error occurs repeatedly, contact us.			Reset Reboot
2071	Global preserve variable in use. Cannot update SPEL project.	Do one of the following to reset the Controller: - Check if the task has been stopped, then wait and try again. - Synchronize the project or transfer the project that was operating correctly via restore.			Reset
2072	The global preserve variable exceeded the size that can be stored.	Stop the task and check the global preserve variable used in the SPEL program. For details on the global preserve variable, see the user's guide.	Maximum size	The size you attempted to use	Stop task Reset
2073	Failed to update SPEL project (global preserve variable cleared).	Do one of the following: - Reset the Controller and try again. - Reboot the Controller. - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reset
2074	Failed to allocate memory (global preserve variable).	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2100	Failed to acquire system settings.	Do one of the following: - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller SD. - If this error occurs repeatedly, contact us.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2101	Failed to initialize controller (duplicate initialization).	Do one of the following: - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2102	Failed to initialize controller (MNG).	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2103	Failed to initialize controller (internal event creation).	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2104	Failed to initialize controller (priority setting).	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2105	Failed to initialize controller (stack size setting).	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2107	Failed to initialize controller (interrupt process start).	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2110	Failed to allocate memory.	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reboot
2111	Failed to initialize controller (motion).	Do one of the following: - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2115	Fieldbus board count that exceeds the upper limit recognized.	Check the fieldbus board connection and reboot.			-
2116	Failed to initialize fieldbus (fieldbus).	Do one of the following: - Reboot the Controller. - Check the fieldbus board. - Replace the fieldbus board.			-
2118	Failed to initialize controller (motion open).	Do one of the following to reboot the controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reboot
2120	Failed to allocate memory (system).	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2121	Failed to allocate memory (execution file).	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reboot
2122	Failed to allocate memory (robot).	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reboot
2123	Failed to allocate memory (event).	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2124	An unsupported fieldbus module was detected.	Do one of the following to reboot the controller. - Remove the connected fieldbus module. - Connect a supported fieldbus module.			Reboot
2130	Failed to acquire settings (MCD).	Do one of the following: - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - Replace the controller SD. - If this error occurs repeatedly, contact us.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2131	Failed to acquire settings (MCD mapping).	Do one of the following. - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - Replace the controller SD. - If this error occurs repeatedly, contact us.			-
2150	Task execution failed. (number out of range)	Do one of the following: - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2151	Task execution failed. (another task is running)	Do one of the following: - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2152	Task execution failed. (abnormal object file size)	Do one of the following: - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2153	Jog operation failed. (jog parameter error)	Do one of the following: - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2154	Jog operation failed. (during jog operation)	Do one of the following: - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2155	Jog operation failed. (cannot be executed)	Do one of the following: - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2156	Jog operation failed. (not set)	Do one of the following: - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2157	Jog operation failed. (jog parameters cannot be changed)	Do one of the following: - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2158	Failed to allocate memory. (for break point)	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2159	An attempt was made to set a number of break points exceeding the upper limit.	Reduce unnecessary break points.			-
2160	Failed to get the function ID.	Do one of the following: - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2161	Failed to get the local variable.	Do one of the following: - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2162	The local variable exceeded the size that can be stored.	Do one of the following: - Check the size of the specified local variable. - Check the local variable used in the SPEL project. For details on the local variable, see the user's guide.			-
2163	A command for a paused task was specified.	Pause the task using one of the following methods and try again: - Set break points. - Execute SPEL command Halt. - Pause using the Epson RC+ execution window or the task manager.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2164	Failed to acquire the global variable.	Do one of the following: - Execute again. - Check the global variable used in the SPEL project. For details on the global variable, see the user's guide. - Reboot the Controller. - Rebuild the project. - Synchronize the project or transfer it via restore.			-
2165	The global variable exceeded the size that can be stored.	Do one of the following: - Review the size of the specified global variable. - Check the global variable used in the SPEL project. For details on the global variable, see the user's guide.			-
2166	Failed to acquire the global preserve variable.	Do one of the following: - Execute again. - Check the global preserve variable used in the SPEL project. For details on the global preserve variable, see the user's guide. - Reboot the Controller. - Rebuild the project. - Synchronize the project or transfer it via restore.			-
2167	The global preserve variable exceeded the size that can be stored.	Do one of the following: - Check the size of the specified global preserve variable. - Check the global preserve variable used in the SPEL project. For details on the global preserve variable, see the user's guide.			-
2168	Failed to initialize controller. Cannot execute (SRAM mapping error).	Reset the controller and do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reset
2169	Failed to load SPEL project. (clear the Global Preserve variable)	Reset the controller and do one of the following: - Synchronize the project. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2170	A string that exceeds the upper limit length was detected.	Check the size of the string variable.			-
2171	Task cannot be executed due to voltage drop detected.	Cannot execute after low voltage was detected. Do the following in order. 1. Check the controller power status. 2. Reboot the Controller.			Reboot
2172	Remote I/O initialization failed. Cannot execute (duplicate initialization).	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2175	Cannot configure remote I/O.	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2176	An error occurred during remote I/O event standby.	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2177	Failed to backup controller settings.	Do one of the following: - Execute again. - When backing up to USB memory, use different USB memory and try again. - Reboot the controller and try again.			-
2178	Failed to restore controller settings.	Do one of the following: - Execute again. - Acquire the backup data again. - Reboot the controller and try again.			-
2181	A task other than an RC+ API was specified.	Do one of the following: - Set the number of RC+ API tasks. - Specify the RC+ API tasks and try again.			-
2190	Cue data was specified in the expression for a point that does not support cue data.	Stop the task and check the parameter data type specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2191	Cannot execute AbortMotion because robot task is not running.	AbortMotion can only be used when operating the robot from a program. Execute the command from the SPEL program.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2192	The specified task has already ended (AbortMotion).	Stop the task and check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2193	An attempt was made to execute Recover without executing the necessary AbortMotion command.	Execute AbortMotion in advance to execute Recover WithoutMove. Stop the task and check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2194	Conveyor setting error.	Stop the task and do one of the following: - A service representative will confirm that conveyor and encoder settings are correct. - If this error occurs repeatedly, contact us.			Stop task
2195	Conveyor setting error.	Stop the task and do one of the following: - A service representative will confirm that conveyor and encoder settings are correct. - If this error occurs repeatedly, contact us.			Stop task
2196	An unsupported parameter was specified in the conveyor number.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2197	A parameter that cannot be executed during conveyor tracking was specified.	Stop the task and do one of the following: - Delete LJM. - An unsupported format was specified for conveyor tracking in Arc and Arc 3. Check the format. - Check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2200	An action command cannot be executed while another task is executing an action command.	Stop the task and check the SPEL command usage. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2201	Robot not registered.	Stop the task and do one of the following: - Check the robot configuration. - Restore the backup file that was operating correctly.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2202	A system error has occurred. (Motion control module status failure)	Reset the controller and do one of the following: - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reset
2203	Specified Local number 0 which cannot be cleared.	Local number 0 cannot be cleared. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2204	Specified the Arm number that is in use.	The Arm number cannot be cleared while in use. Stop the task and do one of the following: - Select an Arm number other than the one you want to specify. - Check the Arm number specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Arm number you attempted to clear.		Stop task
2205	Specified Arm number 0 which cannot be cleared.	Arm number 0 cannot be cleared. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2206	Specified the Tool number that is in use.	Tool number cannot be cleared while in use. Stop the task and do one of the following: - Select a Tool number other than the one you want to specify. - Check the Tool number specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Tool number you attempted to clear.		Stop task
2207	Specified Tool number 0 which cannot be cleared.	Tool number 0 cannot be cleared. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2208	Specified ECP number 0 which cannot be cleared.	You cannot clear ECP number '0'. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2209	Specified the ECP (external control point) number that is in use.	ECP number cannot be cleared while in use. Stop the task and do one of the following: - Select an ECP (external control point) number other than the one you want to specify. - Check the ECP (external control point) number specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	The ECP number you attempted to clear		Stop task
2210	Specified parameter 0 which is out of range for the Local number,	The command processing Local cannot specify Local number 0. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2211	Specified VRT number 0 which cannot be cleared.	You cannot clear VRT number '0'. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2212	Specified the VRT number that is in use.	VRT number cannot be cleared while in use. Stop the task and do one of the following: - Select a VRT number other than the one you want to specify. - Check the VRT number specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	The VRT number you attempted to clear		Stop task
2214	An out-of-range value was specified for the VRT number.	You can choose 1 to 15 for a VRT number. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2215	Parameters are not defined in the specified VRT number.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2216	An unsupported parameter was specified in the BOX number.	Available Box numbers are from 1 to 15. Do one of the following: - Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Restore the backup file that was operating correctly. - If this error occurs repeatedly, contact us.			Reset
2217	An undefined Box number was specified.	Stop the task and do one of the following: - Configure the required Box number. - Check the parameter or execution in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2218	An unsupported parameter was specified in the Plane number.	Available Box numbers are from 1 to 15. Do one of the following: - Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task Reset
2219	An undefined Plane number was specified.	Stop the task and do one of the following: - Configure the required Plane number. - Check the parameter or execution in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2220	Any Robot is not registered.	Reset the controller and do one of the following: - Check the robot configuration. - Restore the backup file that was operating correctly.			Stop task Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2221	Failed to save robot parameter setting.	Reset the controller and do one of the following: - Reboot the controller and try again. - Restore the backup data that includes the same robot parameters. - Check the parameters in the Epson RC+ robot manager and configure the settings again.			Stop task Reset
2222	An undefined Local number was specified.	Stop the task and do one of the following: - Configure the required Local number. - Check the parameter or execution in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Specified Local number		Stop task
2223	An unsupported parameter was specified in the Local number.	You can choose 1 to 15 for a Local number. Do one of the following: - Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Restore the backup file that was operating correctly. - If this error occurs repeatedly, contact us.	Specified Local number		Stop task Reset
2225	Calibration reference orientation (CalPls) has not been defined.	Stop the task and do one of the following: - Configure CalPls. - Check the parameter or execution in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2226	An unsupported parameter was specified in the Arm number.	You can choose 0 to 3 for an Arm number. According to the command, 0 is not available. Do one of the following: - Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - If this error occurs repeatedly, contact us.	Specified Arm number		Stop task Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2227	Failed to acquire Arm settings.	Reset the controller and do one of the following: - Reconfigure the Arm settings. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - Replace the controller SD. - If this error occurs repeatedly, contact us.	Specified Arm number		Reset
2228	Standby orientation (Home position) has not been defined.	Stop the task and do one of the following: - Set the Home position (standby orientation). - Check the parameter or execution in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2229	An unsupported parameter was specified in the Tool number.	You can choose 0 to 3 for a Tool number. According to the command, 0 is not available. Do one of the following: - Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.	Specified Tool number		Reset
2230	An undefined Tool number was specified.	Stop the task and do one of the following: - Configure the required Tool number. - Check the parameter or execution in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Restore the backup file that was operating correctly. - If this error occurs repeatedly, contact us.	Specified Tool number		Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2231	An unsupported parameter was specified in the ECP number.	Available Tool number is from 0 to 15. According to the command, 0 is not available. Do one of the following: - Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.	The specified ECP number		Stop task Reset
2232	An unidentified ECP (external control point) number was specified.	Stop the task and do one of the following: - Configure the required ECP (external control point) number. - Check the parameter or execution in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	The specified ECP number		Stop task
2233	An axis for command execution has not been specified.	Stop the task, specify the command execution target, and try again.			Stop task
2234	The encoder cannot be reset because the motor mode is on.	Stop the task and do one of the following: - Turn the motor power off and then execute the command. - Check the command to execute.			Stop task
2235	XYLim is not defined.	Stop the task and do one of the following: - Configure XYLim. - Check the parameter or execution in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2236	Failed to save robot parameter setting. (PRM - motion settings)	Reset the controller and do one of the following: - Reboot the controller and try again. - Restore the backup data that includes the same robot parameters. - Check the parameters in the Epson RC+ robot manager and configure the settings again.			Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2237	An unsupported parameter was specified in the Pallet number.	Available Pallet numbers are from 0 to 15. Do one of the following: - Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task Reset
2238	Pallet is not defined.	Stop the task and do one of the following: - Configure the necessary Pallet. - Check the parameter or execution in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2240	A subscript that exceeds the array count definition was specified in the array variable.	Stop the task and check the array variable included in the SPEL command parameters. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	The dimensions exceeding the definition	The specified subscript	Stop task
2241	The number of dimensions specified in the array variable definition or command specification is different.	Stop the task and check the array variable dimension quantity specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2242	Division by 0 was specified.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2243	Maximum variable value exceeded.	Stop the task and match the parameter data to the data type specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2244	Minimum variable value exceeded.	Stop the task and match the parameter data to the data type specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2245	A floating point not supported by the command was specified.	This command cannot be executed for Real or DoubleE type. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2246	Cannot calculate the specified value using the Tan function.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Specified value		Stop task
2247	Specified array subscript is less than 0.	Stop the task and check the array variable element quantity specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Specified value		Stop task
2248	Non-array variables specified in Redim.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2249	A non-single dimension array was specified as Preserve in Redim.	A non-single dimension array was specified as Preserve in Redim. Stop the task and check the array variable dimension quantity specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2250	An unsupported array variable was specified.	Stop the task and check the array variable data type and element quantity specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2251	Failed to allocate memory for the element quantity specified in Redim.	Reduce the number of subscripts to be specified for Redim. Perform Redim modestly. Stop the task and check the element quantity specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2252	Failed to allocate memory for the element quantity specified in ByRef.	Reduce the array element quantity to be seen by ByRef. Stop the task and check the element quantity specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2253	Characters and numerical values were compared.	Check whether the string type and the numeric data type are not compared. Stop the task and check the parameter data type specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2254	Data quantity that exceeded the array variable element quantity was specified.	Check the number of array's subscripts and data. Stop the task and check the array variable element quantity and data quantity specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	The number of array subscripts	The number of data to be referred or updated	Stop task
2255	A variable that exceeds the upper limit was specified.	The value that exceeds the range of Double type is specified. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. Also check the user's guide for variable definitions.			Stop task
2256	An unsupported element quantity was specified in the array variable.	Reduce the number of subscripts to be specified. Stop the task and check the array variable element quantity specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2257	An Int64 or UInt64 type variable was specified (counter variable in a For statement).	Int64 variable or UInt64 variable cannot be specified. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2260	An unsupported parameter was specified in the task number.	Do one of the following: - Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - If this error occurs repeatedly, contact us.	The specified task number		Stop task
2261	The specified task number cannot be found.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	The specified task number		Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2262	An unregistered robot was specified.	The available Robot number is 1. Stop the task and do one of the following: - Configure the necessary robot. - Check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	The specified robot number		Stop task
2263	An unsupported parameter was specified in the port number or device number.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	The specified output number		Stop task
2264	An unsupported parameter was specified for the argument. Note 1: Value. Note 2: Position.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. Basic: "SPEL + Language Reference" Vision: "Vision Guide Properties & Result Reference" Force: "Force Guide SPEL+ Language Reference" GUI Builder: "GUI Builder GUI Builder Reference" Part feeder: "Part Feeding Introduction & Hardware (common) & Software - Software - Part Feeding SPEL+ Command Reference"	The Added value	What number argument?	Stop task
2265	An unsupported parameter was specified in the joint number.	Available Joint number is from 1 to 9. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	The specified joint number		Stop task
2266	An unsupported parameter was specified in the wait time.	Available wait time is from 0 to 2147483. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	The specified wait time		Stop task
2267	An unsupported parameter was specified in the timer number.	Available timer number is from 0 to 15. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	The specified timer number		Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2268	An unsupported parameter was specified in the trap number.	Available trap number is from 1 to 4. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Specified trap number		Stop task
2269	An unsupported parameter was specified in the language ID.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	The specified language ID		Stop task
2270	Stack quantity parallel processing that exceeds the upper limit was specified.	Available D parameter value is from 0 to 100. Stop the task and correct the program to reduce the parallel processing stack quantity.	The specified D parameter value		Stop task
2271	An unsupported parameter was specified in the Arch number.	You can choose 0 to 7 for an Arch number. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Specified Arch number		Stop task
2272	An unsupported value was specified in the device number.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Specified device number		Stop task
2273	An unsupported data size was specified.	Available output data value is from 0 to 255. Stop the task and check the parameter that specifies data in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Output data	What number byte data is out of range?	Stop task
2274	An out-of-range value was specified for the Asin function (-1 to 1).	You can choose -1 to 1 for the Asin function. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2275	An out-of-range value was specified for the Acos function (-1 to 1).	You can choose -1 to 1 for the Acos function. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2276	An out-of-range value was passed to the Sqr function (a negative number).	You can choose a positive number for the Sqr function. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2277	An out-of-range value was passed to the Randomize function (a negative number).	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2278	An unsupported parameter was specified in either Sin, Cos, or Tan.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2280	A timeout occurred with the TMOut command (Wait).	Stop the task and do one of the following: - In case of unexpected timeouts, check the parameter specified in the TMOut command. - Execute again.	Timeout period		Stop task
2281	A timeout occurred with the TMOut command (WaitSig/SynkLock).	Stop the task and do one of the following: - In case of unexpected timeouts, check the parameter specified in the TMOut command. - Execute again.	Signal number	Timeout period	Stop task
2282	A timeout occurred with the TMOut command (WaitNet).	Stop the task and do one of the following: - In case of unexpected timeouts, check the parameter specified in the TMOut command. - Execute again.	Port number	Timeout period	Stop task
2283	A timeout occurred while configuring the display device with dispdev.	Stop the task and do one of the following: - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2285	Cannot clear the specified arm calibration number because it is in use.	Stop the task, disable arm length calibration, and try again.	The arm length calibration number you tried to clear		Stop task
2286	Specified arm calibration number 0 which cannot be cleared.	Cannot clear the arm length calibration number "0". Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2287	An out-of-range value was specified for the arm length correction number.	Reset the controller and do one of the following: - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.	Specified arm length calibration number		Reset
2288	An undefined arm length correction number was specified.	Do one of the following: - Configure the required arm length calibration number. - Check the parameter or execution in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Reset the controller and check the arm length calibration settings. - If this error occurs repeatedly, contact us.	Specified arm length calibration number		Reset
2290	Could not execute motion command (Find, Sense, Till, Parallel Processing, Force Monitor).	Cannot execute the motion command after using the user function in the motion command. Stop the task and check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2291	A command that cannot be executed during multitasking was specified (OnErr).	Cannot execute OnErr in the motion command when using user function in the motion command. Stop the task and check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2292	An I/O command was specified without specifying Forced while the safeguard was enabled (safety fence open).	Stop the task and do one of the following: - Disable the safeguard (safety fence closed) and then execute the task. - Add Forced to the execution parameter.			Stop task
2293	An I/O command was specified without specifying Forced during an emergency stop.	Stop the task and do one of the following: - Clear the emergency stop status and execute the command. - Add Forced to the execution parameter.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2294	An I/O command was specified without specifying Forced during an error.	Stop the task and do one of the following: - Do the following in order. 1. Check the error in the system history. 2. Remedy the error. 3. Execute again. - Add Forced to the execution parameter for the command that corresponds to the function name and row number in the system history.			Stop task
2295	An unsupported command was specified in the NoEmgAbort task and background task.	Stop the task and check the SPEL command call. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2297	An I/O command was specified without specifying Forced in TEACH mode.	Stop the task and do one of the following: - Execute in any mode other than TEACH. - Add Forced to the execution parameter for the command that corresponds to the function name and row number in the system history.			Stop task
2298	Continuation from the Trap SGClose processing task is not possible.	You cannot execute Cont and Recover statements in the Trap SGClose processing task. Stop the task and check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2299	Specified an advanced task control command without controller preference settings.	Stop the task and do one of the following: - Enable the advanced task control command in controller settings. - Stop the task and check the SPEL command call. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2300	An action command cannot be executed while another task is executing an action command.	Stop the task and check the SPEL command usage. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Task number during robot use		Stop task
2301	Cannot execute the motion command because the enable switch cannot be correctly recognized, or the mode was changed while holding it.	Stop the task, re-grip the enable switch, and try again.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2302	This command cannot be executed in a Trap Call subroutine.	Another function cannot be called from the function called by Trap Call. Stop the task and check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2303	An unsupported command was specified in parallel processing (Call).	Stop the task and make sure that parallel processing or the corresponding SPEL command is not being used. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2304	An unsupported command was specified in parallel processing (Xqt).	Stop the task and make sure that parallel processing or the corresponding SPEL command is not being used. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2305	Cannot execute a Call statement from the command window.	Cannot execute a Call statement from the command window. Execute the command from the SPEL program.			Stop task
2306	Cannot execute an Xqt statement from the task started by Trap Xqt.	Cannot execute an Xqt statement from the task started by Trap Xqt. Stop the task and check the SPEL command usage. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2307	A command that cannot be executed was specified while a task was running.	Stop the task and check the SPEL command usage. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2308	Cannot turn on the motor because of a critical error.	Do one of the following: - Check errors that occurred before this error in the system history. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2309	Cannot execute a motion command while the safeguard is open.	Stop the task, disable the safeguard (safety fence closed), and try again.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2310	The operation command cannot be executed before the return operation.	Do one of the following, then try again: - Implement the recovery operation. - Implement continued execution. The recovery operation is implemented according to settings. - Stop the task.			Stop task
2311	The operation command cannot be executed during the return operation.	Do one of the following, then try again: - Wait for the recovery operation or continued execution to complete. - Stop the task.			Stop task
2312	Tasks cannot be executed during an emergency stop.	Stop the task, clear the emergency stop, status and execute the command.			Stop task
2313	Cannot continue execution immediately after opening the safeguard.	Do the following in order. Or stop the task. 1. Disable the safeguard (safety fence closed). 2. Wait at least 1.5 seconds. 3. Execute again.			Stop task
2314	Cannot continue execution while the safeguard is open.	Stop the task, disable the safeguard (safety fence closed), and try again.			Stop task
2315	No need to issue a continue command since the return operation is in progress.	Do one of the following, then try again: - Wait for the recovery operation or continued execution to complete. - Stop the task.			Stop task
2316	Cannot execute Continue because an error has occurred.	Stop the task and do the following in order: 1. Check the error in the system history. 2. Remedy the error. 3. Execute again.			Stop task
2317	Cannot execute the task because an error has occurred.	Stop the task and do the following in order: 1. Check the error in the system history. 2. Remedy the error. 3. Execute again.			Stop task
2318	Cannot execute the motion command because an error has occurred.	Stop the task and do the following in order: 1. Check the error in the system history. 2. Remedy the error. 3. Execute again.			Stop task
2319	Cannot execute an I/O command without specifying Forced during an emergency stop.	Stop the task and do one of the following: - Clear the emergency stop status and execute the command. - Add Forced to the execution parameter.			Stop task
2320	The function parameter called as a subroutine does not match the data type.	Stop the task and check the function parameter. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2321	The function return value called as a subroutine does not match the data type.	Stop the task and check the function call. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2322	Failed to process reference argument (ByRef) of function called as subroutine.	Stop the task and check the function parameter. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2323	Failed to process the function ByRef parameter called as a subroutine.	Stop the task and check the function parameter. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2324	The number of dimensions of the reference argument (ByRef) of the function called as a subroutine does not match.	Stop the task and check the function parameter. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2325	The ByRef parameter was specified in Xqt.	Stop the task and check the function parameter. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2326	A Call was executed from the command window.	Execute the command from the SPEL program.			Stop task
2327	Failed to Call the function called as a subroutine.	Stop the task and do one of the following: - Check the function parameter. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Reboot to allocate space in the temporary folder within the controller, then try again.			Stop task
2328	A task was executed in cooperative mode without being connected to Epson RC+.	Stop the task and do one of the following: - Connect to Epson RC+ and then execute the task again. - If cooperation mode is not necessary for executing the task, change to independent mode in controller configuration settings, then execute the task again.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2329	Eval executed in Trap Call processing.	Stop the task and check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2330	Trap Call/Xqt cannot specify arguments.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2331	Failed to process Trap Goto statement.	Do one of the following: - Stop the task and check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2332	Failed to process Trap Goto statement.	Do one of the following: - Stop the task and check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2333	An attempt was made to execute Trap during a scheduled execution.	Do one of the following: - Stop the task and check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2334	An attempt was made to execute Trap from Trap Finish or Trap Abort.	Stop the task and check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2335	This operation cannot be performed in TEACH mode (continue execution, clear error).	Do one of the following: - Execute in any mode other than TEACH. - See the reference manual and check the program for the command that corresponds to the function name and row number in the system history.			Stop task
2336	A command that combines parallel processing and Here was specified.	Stop the task and check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. For example, it must be changed to the following type of program: P999 = HereGo P999 Here :Z(0) ! D10; MemOn(1) !			Stop task
2337	This command can only be executed from the GUI Builder event handler function.	Stop the task and check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2338	Xqt/Input/Print # (TP) that cannot be executed in TEST Mode was specified.	Stop the task and do one of the following: - Execute in any mode other than TEST. - See the reference manual and check the program for the command that corresponds to the function name and row number in the system history.			Stop task
2339	This command can only be executed in Epson RC+ cooperative mode.	Change to independent mode in controller configuration settings, then connect to Epson RC+ and try again.			Stop task
2340	Specified value in InBCD function is an invalid BCD value.	Stop the task and check the value acquired by the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Tens digit	Units digit	Stop task
2341	The parameter specified for the OpBCD command is invalid as a BCD (binary coded decimal) number.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Specified value		Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2342	An I/O number set in the remote I/O function was specified.	Stop the task and do one of the following: - Check the required I/O number remote I/O settings. - Check the I/O number specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	I/O number	1: bit 2: byte 3: word	Stop task
2343	An unsupported parameter was specified in the asynchronous output time controlled by the On/Off command.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	The specified time		Stop task
2344	An I/O number that is not supported by the connected I/O board was specified (bit).	Stop the task and do one of the following: - Check the connections of the expansion I/O board and fieldbus I/O board required in the SPEL program. - Stop the task and check the SPEL command I/O number. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Bit number		Stop task
2345	An I/O number that is not supported by the connected I/O board was specified (bytes).	Stop the task and do one of the following: - Check the connections of the expansion I/O board and fieldbus I/O board required in the SPEL program. - Stop the task and check the SPEL command I/O number. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Byte number		Stop task
2346	An I/O number that is not supported by the connected I/O board was specified (word).	Stop the task and do one of the following: - Check the connections of the expansion I/O board and fieldbus I/O board required in the SPEL program. - Stop the task and check the SPEL command I/O number. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Word number		Stop task
2347	A memory I/O number outside the supported range was specified (bit).	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Bit number		Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2348	A memory I/O number outside the supported range was specified (bytes).	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Byte number		Stop task
2349	A memory I/O number outside the supported range was specified (word).	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Word number		Stop task
2350	Virtual I/O mode is disabled. A command that cannot be executed was specified.	Stop the task and do one of the following: - Enable virtual I/O mode in controller configuration settings. - See the reference manual and check the program for the command that corresponds to the function name and row number in the system history.			Stop task
2353	A command that cannot be executed in the command window was specified.	Execute the command from the SPEL program.			Stop task
2354	An I/O command was specified with the TP enable switch off.	Stop the task and do one of the following: - Execute with the TP enable switch gripped. - Switch TP to Auto mode and execute. - See the reference manual and check the program for the command that corresponds to the function name and row number in the system history.			Stop task
2360	Failed to acquire settings.	Do one of the following: - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reboot
2361	Failed to save settings.	Do one of the following: - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - Replace the controller SD. - Replace the controller board. - If this error occurs repeatedly, contact us.			Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2362	Failed to acquire settings.	Do one of the following: - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - Replace the controller SD. - If this error occurs repeatedly, contact us.			Reboot
2364	Failed to save settings.	Do one of the following: - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - Replace the controller SD. - Replace the controller board. - If this error occurs repeatedly, contact us.			Reboot
2365	Failed to save settings.	Do one of the following: - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - Replace the controller SD. - Replace the controller board. - If this error occurs repeatedly, contact us.			Reboot
2370	String concatenation failed due to string length exceeding limit.	The maximum string length is 255. Stop the task and check the character string length specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Combined string length		Stop task
2371	A string that exceeds the upper limit length was specified.	The maximum string length is 255. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	The specified length		Stop task
2372	An unsupported parameter was specified after the ampersand (&) in the Val function.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2373	The Val function specified a string that cannot be converted to a number.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2374	The string contains an unsupported character code.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2375	A label name that exceeds the upper limit length was specified.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	1: VRT 2: Hand		Stop task
2376	A comment that exceeds the upper limit length was specified.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	1: VRT 2: Hand		Stop task
2380	0 was specified in For...Next Step.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2381	The For...Next, GoSub, and Goto call order is invalid.	The relation between For...Next and GoSub is invalid or Goto could be going in or out of For...Next. Stop the task and check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2382	An attempt was made to execute Return while OnErr was running.	Stop the task and check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2383	An attempt was made to execute Return without GoSub.	Stop the task and check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2384	An attempt was made to execute Case or Send without Select.	Stop the task and check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2385	An attempt was made to execute EResume while GoSub was running.	Stop the task and check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2386	An attempt was made to execute EResume without OnErr.	Stop the task and check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2391	A command that cannot be executed during emergency stop was specified.	Stop the task, clear the emergency stop, status and execute the command.			Stop task
2392	Emergency stop Cannot reset directly after robot is stopped due to an error.	Emergency stop Perform a safety check of the robot and peripheral equipment after a robot is stopped due to an error. Later, reset again.			-
2400	Could not open the specified curve file.	Stop the task and do one of the following: - Make sure the specified file exists. - Specify a correct file. - Recreate the specified file. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2401	Could not open the specified curve file.	Stop the task and do one of the following: - Specify a correct file. - Recreate the specified file. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2402	Could not create the specified curve file.	Stop the task and do one of the following: - Execute again. - Check the controller storage capacity. - Reduce the file data quantity or size. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2403	Could not create the specified curve file.	Stop the task and do one of the following: - Make sure the specified file exists. - Specify a correct file. - Recreate the specified file. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2404	Could not create the specified curve file.	Stop the task and do one of the following: - Execute again. - Check the controller storage capacity. - Reduce the file data quantity or size. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2405	Could not open the specified curve file.	Stop the task and do one of the following: - Make sure the specified file exists. - Specify a correct file. - Recreate the specified file. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2406	Could not open the specified curve file.	Stop the task and do one of the following: - Make sure the specified file exists. - Specify a correct file. - Recreate the specified file. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2407	The specified file is not a curve file.	Stop the task and do one of the following: - Specify a correct file. - Recreate the specified file. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2408	A different version of the curve file was specified.	Stop the task and do one of the following: - Specify a correct file. - Recreate the specified file. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2409	A curve file with a different registered robot number was specified.	Stop the task and do one of the following: - Make sure the specified file exists. - Specify a correct file. - Recreate the specified file. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2410	Failed to allocate memory necessary for CVMove.	Stop the task and do one of the following: - Reduce the data size specified in the command. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2411	Continuous point data that exceeds the quantity upper limit was specified.	The maximum number of points specified in the Curve statement is 1000. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2412	Parameters that exceed the quantity upper limit were specified.	The maximum number of output commands specified in the Curve statement is 16. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2413	A data size that exceeds the upper limit was specified.	Stop the task and do one of the following: - Reduce the file data quantity or size. - Execute again. - Check the controller storage capacity. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2414	Continuous point data that exceeds the quantity upper limit was specified.	The maximum number of points specified continuously is 1000. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Start point	End point	Stop task
2415	Could not create the specified curve file.	Stop the task and do one of the following: - Specify a correct file. - Recreate the specified file. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2416	The specified curve file does not exist.	Stop the task and do one of the following: - Make sure the specified file exists. - Specify a correct file. - Recreate the specified file. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2417	An output command was specified at the front of continuous point data.	Check if an output command is specified before the point data. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2430	Failed to get error message. (file path)	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2431	Failed to get error message. (file open)	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2432	Failed to get error message.. (header data)	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2433	Failed to get error message. (get file)	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2434	Failed to get error message. (different format)	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2435	Failed to get error message. (different version)	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2440	Specified the File number that is in use.	Stop the task and do one of the following: - Close the file number in use and then execute. - Check the file name specified with the command that corresponds to the function name and row number in the system history. - Check the file access timing.			Stop task
2441	Cannot open the specified file.	Stop the task and do one of the following: - Check the file name specified with the command that corresponds to the function name and row number in the system history. - Check the file access order.			Stop task
2442	A file that is not open was specified.	Stop the task and do one of the following: - Check the file name specified with the command that corresponds to the function name and row number in the system history. - Check the file access order.			Stop task
2443	Failed to close the file because it is being used by another task.	Stop the task and do one of the following: - Wait until file use ends and try again. - Check the file specified with the command for the corresponding function name and row number in the system history.			Stop task
2444	Failed to save the specified file.	Do one of the following: - Stop the task and check the file name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Update the firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2445	Failed to access the specified file.	Stop the task and check the file name and parameter specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2446	Specified the File number that is in use.	Stop the task and close unnecessary files.			Stop task
2447	To read the file you need to open it with ROpen or UOpen.	Use ROpen or UOpen that has read access to the file.			Stop task
2448	To write to a file, it must be opened with AOpen, WOpen or UOpen.	Use WOpen or UOpen that has written access to the file.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2449	For binary operations on a file you must open it with BOpen.	Use BOpen that has binary access to the file.			Stop task
2450	Failed to access the specified file.	Stop the task and check the file name and parameter specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2451	Failed to save the specified file.	Stop the task and check the file name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2452	Failed to acquire the specified file.	Stop the task and check the file name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2453	A command not supported on the currently selected disk was specified.	Stop the task and do one of the following: - Check the disk name specified with the command that corresponds to the function name and row number in the system history. - Change the disk selection with the ChDisk command.			Stop task
2454	An unsupported disk was specified.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2455	The specified drive does not exist.	Stop the task and check the drive name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2456	The specified folder does not exist.	Stop the task and check the folder name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2460	Specified the database number that is in use.	Stop the task and do one of the following: - Close the database you want to specify and try again. Stop the task and check the SPEL command execution order or parameters. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2461	The specified database file is not open.	Stop the task and check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2462	Specified the database number that is in use by another task.	Stop the task and do one of the following: - Close the database you want to specify and try again. Stop the task and check the SPEL command execution order or parameters. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2470	Failed to connect to Epson RC+ cooperative function.	Stop the task and do one of the following: - Check the connection between Epson RC+ and the controller. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2471	Failed to connect to Epson RC+ cooperative function (communication mismatch).	Stop the task and do one of the following: - Check the connection between Epson RC+ and the controller. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2472	Failed to connect to Epson RC+ cooperative function (duplicate initialization).	Stop the task and do one of the following: - Check the connection between Epson RC+ and the controller. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2473	Failed to connect to Epson RC+ cooperative function (busy or not initialized).	Stop the task and do one of the following: - Check the connection between Epson RC+ and the controller. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2474	Failed to connect to Epson RC+ cooperative function (no request).	Stop the task and do one of the following: - Check the connection between Epson RC+ and the controller. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2475	A data size that exceeds the upper limit was received.	Do one of the following: - Stop the task and check the data size received by the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Check the connection between Epson RC+ and the controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2476	Failed to connect to Epson RC+ cooperative function.	Stop the task and do one of the following: - Check the connection between Epson RC+ and the controller. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2477	An unsupported folder was specified (linkage function with Epson RC+).	Check the folder specification and try again.			-
2478	A system error has occurred. (Invalid error code)	Stop the task and do one of the following: - Check the connection to Epson RC+. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2500	An event conditional expression that exceeds the quantity upper limit was specified in the Wait statement.	The maximum number of event conditions is 8. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2501	A bit number that was not set by the CTReset command was specified in the Ctr function.	Stop the task and check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	The specified bit number		Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2502	Task number is beyond the maximum executable count.	The available number of tasks that can be executed simultaneously is 32 for normal tasks, and 16 for background tasks. Stop the task and check the SPEL program.			Stop task
2503	A running task number was specified (Xqt).	Do one of the following: - Wait for the task to end and try again. - Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	The specified task number		Stop task
2504	A robot was specified during parallel processing.	Stop the task and do one of the following: - Synchronize the correct project. - See the reference manual and check the program for the command that corresponds to the function name and row number in the system history.			Stop task
2505	A different quantity of parameters than the input data with the Input command was specified.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2506	Parameters that exceed the quantity upper limit were specified.	Up to 32 variables can be specified. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2507	Cannot execute because there are no available counters (CTReset).	The available number of the counters that can be set simultaneously is 16. Stop the task and do one of the following: - Wait until counter use ends and try again. - Check the execution order or parameter of the command that corresponds to the function name and row number in the system history.			Stop task
2508	An invalid SPEL project was specified.	Stop the task and do one of the following: - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2509	An invalid SPEL project was specified.	Stop the task and do one of the following: - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2510	An undefined I/O setting label was specified.	Do one of the following: - Define the required label in the I/O setting screen. - Stop the task and check the parameter data specified in the SPEL command or the execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2511	SyncUnlock was used without executing SyncLock.	Stop the task and check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Signal number		Stop task
2512	The specified signal number is already locked with SyncLock.	The SyncLock statement cannot be executed for the second time in a row. Stop the task and check the SPEL command usage. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Signal number		Stop task
2513	An undefined point label was specified.	Stop the task and do one of the following: - Define the required point label. - Check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2514	Failed to acquire robot accumulated motor time.	Stop the task and do one of the following: - Execute again. - Reboot the Controller.			Stop task
2515	A negative number was specified for Date or Time.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2516	Failed to execute command for service personnel (get debuginfo/initialize).	Stop the task and do one of the following: - Service representatives will confirm how to use the command. - If this error occurs repeatedly, contact us.			Stop task
2517	Failed to convert to date or time.	Stop the task and do one of the following: - Execute again. - Check the time set on the controller. - Reboot the Controller.			Stop task
2518	The end point data number specified is smaller than the start point data number.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Start point	End point	Stop task
2519	An unsupported parameter was specified in FmtStr$.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2520	A file name that exceeds the upper limit length was specified.	Stop the task and check the file name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2521	A path name that exceeds the upper limit length was specified.	Stop the task and check the file name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2522	A file name containing an unsupported character type was specified.	Stop the task and check the file name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2523	Continuation is already running.	Stop the task and check the SPEL command usage. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2524	A running trap task number was specified (Xqt).	Do one of the following: - Wait for the trap task to end and try again. - Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2525	A password name that exceeds the upper limit length was specified.	Do one of the following: - Check the password length and try again. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2526	The event conditional expression was not specified.	Stop the task and do one of the following: - Rebuild the project. - Synchronize the project or transfer it via restore. - Check the event conditional expression specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2527	A global variable that exceeds the quantity upper limit was specified in the event conditional expression.	Stop the task and check the event conditional expression specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2528	An unsupported variable was specified in the event condition (global variable).	Reset the controller and do one of the following: - Check the event conditional expression specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Rebuild the project. - Synchronize the project or transfer it via restore.			Reset
2529	Global variables specified in event conditions cannot be passed by reference.	Stop the task and check the event conditional expression specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2530	The point file quantity exceeded the upper limit.	Stop the task and do the following: Reduce the point file quantity registered in the project.			Stop task
2531	You cannot specify a point file for a robot other than the current robot.	Stop the task and do one of the following: - Check the specified robot number. - Check the specified point file.			Stop task
2532	Point data that includes undefined data was specified.	Stop the task and check the point data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2533	An error occurred in INP and OUTP.	Stop the task and do one of the following: - Service representatives will confirm how to use INP and OUTP. - If this error occurs repeatedly, contact us.			Stop task
2534	The main function to be restarted is not running.	The main function must be executed in Restart call. Stop the task and check the SPEL command and execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2536	Failed to change Enable setting in Teach mode.	Stop the task and do one of the following: - Service representatives will confirm how to use the command. - If this error occurs repeatedly, contact us.			Stop task
2537	An unsupported parameter was specified in VisCalib.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2540	A SPEL command necessary for connecting to Epson RC+ was specified.	Stop the task, check the connection between Epson RC+ and the controller, and try again.			Stop task
2541	A duplicate robot number was specified.	Stop the task and check the robot number specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2542	An unsupported parameter was specified in the work queue number.	Available work queue numbers are from 1 to 16. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2543	An undefined vision sequence name was specified.	Stop the task and do one of the following: - Specify the required vision sequence. - Check the vision sequence specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Rebuild the project. - Synchronize the project or transfer it via restore.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2544	An undefined vision object name was specified.	Stop the task and do one of the following: - Set the necessary vision object. - Check the vision object name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Rebuild the project. - Synchronize the project or transfer it via restore.			Stop task
2545	An undefined vision calibration name or number was specified.	Stop the task and do one of the following: - Check vision calibration settings. - Check the vision calibration name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Synchronize the project or transfer it via restore.			Stop task
2546	Cannot turn on the motor immediately after opening the safeguard.	Stop the task and do the following in order: 1. Disable the safeguard (safety fence closed). 2. Wait at least 1.5 seconds. 3. Execute again.			Stop task
2547	A SPEL command that requires software option settings was specified.	Stop the task and do one of the following: - Enable the option. - Check that the connection of the USB key for the option license is proper. - Disable the SLS/SLP function from the Safety Function Manager. - Part Feeding: Wrong command format or value settings. Read the description for the corresponding command provided in Part Feeding 8.0 Introduction & Hardware (Common) & Software Software Part Feeding SPEL+ Command Reference and correct the code. - Check the SPEL command to be used. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	1: VRT		Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2548	An attempt was made to create a quantity of force files that exceeds the upper limit.	Do one of the following: - Delete unnecessary force files. - Use existing force files. - Reboot the Controller. - Update the controller with the update tool. - Replace the controller.			Stop task
2549	A force file without a registered robot was specified.	Stop the task and do one of the following: - Check the specified force file robot registration. - Check the force file specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2550	A SPEL command was specified that is not supported by the connected robot (joint type robot, Cartesian coordinate type robot).	Stop the task and check the SPEL command usage. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2551	Failed to acquire the health information.	Stop the task and do one of the following: - Execute again. - Reboot the Controller.			Stop task
2552	You do not have permission to change UL mode settings.	Contact a service representative to change UL Mode settings.			Stop task
2553	Failed to change UL mode settings.	Stop the task and do one of the following: - Execute again. - Reboot the Controller.			Stop task
2554	A defined label name was specified.	Stop the task and do one of the following: - Check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Check the hand settings in controller settings. - Check the robot manager VRT settings and the label name specification.	1: VRT		Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2555	An undefined label was specified.	Stop the task and do one of the following: - Check the parameter or execution order specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Define the required label in the VRT setting screen. - Define the required label in the hand setting screen.	1: VRT2:Hand		Stop task
2557	An error occurred in TRAP processing.	Stop the task, check Note 1 in the system history, and implement countermeasures shown for the applicable error code.	Detailed error information		Stop task
2558	A string that exceeds the upper limit length was specified.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2559	A command that cannot be executed while the motor is off was specified.	Stop the task and do one of the following: - Turn the motor power on and then execute the command. - Check the command to execute.			Stop task
2560	The current robot number does not match the RobotNumber setting in the force guided sequence.	Stop the task and do one of the following: - Select the necessary robot number. - Check the parameter or execution order specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Robot number		Stop task
2561	The current robot type and the force guide sequence robot type do not match.	Stop the task and do one of the following: - Change the robot selection. - Reconfigure the force guide sequence RobotNumber properties. - Check the robot number specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2562	The force guide sequence RobotTool settings and controller Tool number do not match.	Stop the task and do one of the following: - Select the controller Tool number again. - Check the RobotTool settings used in the force guide sequence.	Tool number		Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2563	The point file name being loaded does not match the PointFile setting in the force guide sequence.	Stop the task and do one of the following: - Check the point file name specified in the force guide sequence. - Reload the project containing the specified point file.			Stop task
2564	A command that cannot be executed during torque control was specified.	Stop the task and do one of the following: - Check the command to execute. - Turn torque control off and then execute the command.			Stop task
2565	A command that cannot be executed during tracking was specified.	Stop the task and do one of the following: - Check the command to execute. - Execute the command after tracking ends.			Stop task
2566	A robot running a force-guided sequence was specified (FGRun).	Cannot execute the FGRun command for a robot in use. Stop the task and do one of the following: - Wait until the force guide sequence ends and try again. - Specify another robot.			Stop task
2567	A running force guided sequence was specified (FGGet).	Cannot execute the FGGet command for a running force guide sequence. Stop the task, wait until the force guide sequence ends, and try again.			Stop task
2568	An unsupported command was specified in parallel processing.	Stop the task and check the SPEL command usage. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2569	Failed to execute Force Guide (get property).	Stop the task and do one of the following: - Execute again. - Reboot the Controller. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2570	An unsupported parameter was specified in the sequence number.	Sequence numbers are from 1 to 64. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Sequence number		Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2571	An unsupported parameter was specified in the object number.	Stop the task and check the SPEL command or force guide sequence parameters. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Object number		Stop task
2574	Force guide execution failed.	Stop the task and do one of the following: - Execute again. - Reboot the Controller. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2575	Force guide execution failed.	Stop the task and do one of the following: - Execute again. - Reboot the Controller. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2576	An undefined force guide sequence name was specified.	Stop the task and do one of the following: - Define the necessary force guide sequence name. - Check the force guide sequence name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2577	An undefined force guide object name was specified.	Stop the task and do one of the following: - Define the necessary force guide object name. - Check the force guide object name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2578	A pre-run Force Guide sequence was specified (FGGet).	Stop the task and do the following in order: 1. Execute the force guide from the specified force guide sequence. 2. Execute again.			Stop task
2579	Command execution failed.	Upgrade Epson RC+ and controller firmware to the latest.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2580	An undefined part feeder name was specified.	Stop the task and do one of the following: - Check the necessary feeder name in Epson RC+ - Menu - [Setup] - [System Configuration]. - Stop the task and check the part feeder name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2581	Failed to initialize part feeder. Cannot execute.	Stop the task and do one of the following: - Check the part feeder specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Check that feeder network settings (IP Address, IP Mask, Port) in the specified part feeder are correct. - Check that the Ethernet connection between the specified part feeder and the controller is functioning normally (have cables become disconnected, is there a hub failure or a lack of power supply to the hub, etc.). - Check the specified part feeder power supply.			Stop task
2582	A part feeder that is not connected was specified.	Stop the task and do one of the following: - Check the part feeder specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Check that feeder network settings (IP Address, IP Mask, Port) in the specified part feeder are correct. - Check that the Ethernet connection between the specified part feeder and the controller is functioning normally (have cables become disconnected, is there a hub failure or a lack of power supply to the hub, etc.). - Check the specified part feeder power supply.			Stop task
2583	A part feeder whose backlight mounting settings are disabled was specified.	Stop the task and do one of the following: - Check the part feeder settings in Epson RC+ - Menu - [Setup] - [System Configuration]. - Check the part feeder specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2584	A part feeder whose hopper mounting settings are disabled was specified.	Stop the task and do one of the following: - Check the part feeder settings in Epson RC+ - Menu - [Setup] - [System Configuration]. - Check the part feeder specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2585	Part feeder type does not match.	Delete and then re-register feeder settings in Epson RC+ 8.0 - Menu - [Setup] - [System Settings].			Stop task
2586	Failed to configure part feeder.	Stop the task and do one of the following: - Check the Ethernet connection between the feeder and controller. Specifically, check for cable disconnections, hub failures, and lack of power supply to the hub. - Check the power supply to the feeder. - Check that feeder network settings (IP Address, IP Mask, Port) are correct.			Stop task
2587	A command not supported in the virtual controller was specified.	Stop the task and do one of the following: - Execute on the actual controller. - Check the command to execute.			Stop task
2588	Failed to acquire part feeder information.	Stop the task and do one of the following: - Check the specified part feeder connection. - Check the SPEL command usage. Targets are the commands corresponding to the function name and row number in the system history. For correction instructions see the reference manual and check the description of the relevant command in the "Part Feeding SPEL+ Command Reference".			Stop task
2589	A command that cannot be executed was specified in the selected part feeder.	Stop the task and do one of the following: - For PartFeeding IF-80, PF_Output command cannot be used. Review the program. - For IF-240/380/530, check if the purge gate is properly mounted.			Stop task
2590	Could not change the vibration set.	Stop the task and do one of the following: - Check that the Ethernet connection between the feeder and the Controller is functioning normally (have cables become disconnected, is there a hub failure or a lack of power supply to the hub, etc.). - Check the power supply to the feeder. - Check that feeder network settings (IP Address, IP Mask, Port) are correct.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2591	The part feeder specified in PF_ReleaseFeeder has not been locked in PF_AccessFeeder.	Stop the task and check the SPEL command execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2592	The specified parts feeder is already locked with PF_AccessFeeder.	Stop the task and check the command that corresponds to the function name and row number in the system history.			Stop task
2593	A purge gate whose hopper mounting settings are disabled was specified.	Stop the task and do one of the following: - Check the part feeder settings in System Configuration. - Check the part feeder and purge gate connection. - Check the part feeder specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2594	Failed to set the health information.	Check if the specified robot or Controller supports the target parts.			-
2595	An unsupported index was specified in the vision sequence.	Stop the task and check the index specified in the SPEL command vision sequence. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2596	An invalid index was specified for the Vision Object.	Stop the task and do one of the following: - Set the necessary vision object. - Check the index specified in the SPEL command vision object. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2597	Invalid data type.	The format of the specified data is different for the parameter you want to set. (e.g. A Double value is specified even though it must be specified as an Integer.) Please review the value.			Stop task
2600	An unsupported parameter was specified in the mass property object number.	The MassProperties numbers that can be specified are from 1 to 15. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2601	An undefined mass property object was specified.	Do one of the following: - Reset the controller and reconfigure the mass property settings. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - Replace the controller SD. - If this error occurs repeatedly, contact us.			Reset
2602	A mass property object that is in use was specified.	Cannot clear mass property object that is in use. Stop the task and do one of the following: - Select another mass property object. - Check the mass property object specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2603	Mass property object number 0 which cannot be cleared was specified.	Cannot clear mass property object 0. Do one of the following: - Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Check the mass property object to be specified.			Stop task
2610	An unsupported parameter was specified in the hand number.	You can specify a hand number from 1 to 15. Do one of the following: - Reconfigure the hand settings. - Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Restore the backup file that was operating correctly. - If this error occurs repeatedly, contact us.			Reset
2611	An undefined hand was specified.	Stop the task and do one of the following: - Check the hand number specified in the SPEL command. - Configure the hand in the Epson RC+ – Menu – [Tools] – [Robot Manager] – [Hands] tab.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2612	Invalid settings found in the specified hand.	Stop the task and do one of the following: - Check the hand number specified in the SPEL command. - Configure the hand in the Epson RC+ – Menu – [Tools] – [Robot Manager] – [Hands] tab again.	Hand number		Stop task
2613	A robot that does not support the hand function was selected.	Stop the task and do one of the following: - Select a robot that supports the hand function. - Check the SPEL command to be used. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2614	A hand that is in use was specified.	Stop the task and do one of the following: - Stop the other task and try again. - Check the hand number specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2615	An unsupported I/O bit number was specified in the hand number.	Do one of the following: - Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Reset the controller and check the hand settings. - If this error occurs repeatedly, contact us.	Hand number		Stop task Reset
2616	An assigned I/O number was specified.	Do one of the following: - Configure the I/O settings, then remove the unnecessary settings. - Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Reset the controller and check the hand settings. - If this error occurs repeatedly, contact us.	Hand number		Stop task Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2617	A hand not supported on the event conditional expression was specified.	The event conditional expression only supports hands with one input point. Stop the task and do one of the following: - Specify a hand with one input point. - Check the SPEL command to be used and the event conditional expression. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2618	Failed to acquire hand settings.	Do one of the following: - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2619	LJM and STM functions cannot be used together.	Do one of the following: - Delete the LJM motion command if you want to enable the STM function. - Execute the AutoSTM STM_OFF to disable AutoSTM if you want to use the LJM function.			-
2650	Cannot execute this command because the type of hopper configured does not support it.	Check that the hopper type for the part feeder is correct.			Stop task
2700	Safety function is not available for this Controller.	Use the Controller that supports Safety function.			Reset
2702	Communication error occurred between the safety function manager and the Safety board	Do one of the following: - Check the connection between the RC+ and the Controller and reset the Controller. - Check the connection of the Safety Board in the Controller. - Replace the Safety Board.	Error type 2: Controller detected 16: Response error 32: Difference between main and sub 64: Timeout		Reset
2708	Safety function is not available for this robot model.	Select the Robot that supports Safety function.			Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2750	Failed to reserve due to the specified number already being reserved.	Stop the task and do one of the following: - Specify the number acquired from the reserved command. - Check the number that will be specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2751	Failed to reserve due to all numbers already being reserved.	Stop the task and do one of the following: - Release the reserved library from the project. - Contact your developer of the library. - When developing a library, implement it so that the reserved numbers are released.			Stop task
2752	Failed to execute because the specified command is only for the Library Builder.	Stop the task and do one of the following: - Modify it to enable calling the library. The Premium edition is needed to create a library.			Stop task
2851	The Force Sensor which is different from the registered sensor is connected.	Do one of the following to reboot the Controller: - Check the connection. - Return to the connected force sensor. - Disable the force sensor and replace it with a new one. - For an intentional replacement, configure the connection settings including the serial number in the force sensor setting screen.			Reboot
2852	Cannot recognize the registered force sensor.	Do one of the following to reboot the Controller: - Check the connection. - When not using the force sensor, disable its settings.			Reboot
2855	A system error has occurred (unsupported function).	Do the following in order. 1. Check the power supply and the force sensor I/F unit connection. 2. Reboot the Controller.			Reboot
2857	The robot registered to the force sensor is not connected.	Do one of the following to reboot the Controller: - Check the robot connection. - Check the settings of the robot registered to the force sensor. - Disable the robot registered to the force sensor.			Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2858	Failed to allocate memory (force monitor).	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2859	Failed to allocate memory (force log).	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2860	A force monitor object that is in use has been specified.	Stop the task and check the force monitor object specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2861	Reached the upper limit of functions that can be executed simultaneously with the specified command.	Do the following: - Check the command or property that corresponds to the function name and row number in the system history.			-
2862	Failed to allocate memory (force control).	Stop the task and do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2863	Force-guided sequence execution and RecordStart cannot be executed at the same time.	Execute after the LogStart property ends by LogEnd property.			Stop task
2864	Force guide sequence execution, RecordStart, and Force Monitor cannot be executed at the same time.	Execute after quitting the Force Monitor.			Stop task
2865	Reached the upper limit of functions that can be executed simultaneously with the specified command.	Stop the task and do one of the following: - Stop the function from the force guide force monitor screen and try again. - See the reference manual for the command that corresponds to the function name and row number in the system history.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2866	Force guide sequence execution, RecordStart, and Force Monitor cannot be executed at the same time.	Execute the force monitor after quitting the RecordStart property by force guide sequence, force control monitor, or the RecordEnd property.			-
2867	A channel number that is in use was specified.	Stop the task and check the channel number specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2868	A force monitor object that is in use has been specified.	Do one of the following: - Stop the task and check the force monitor object specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Check the force monitor object specification.			Stop task
2869	The measurement time was set to a value smaller than the measurement interval.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2870	The product of the specified duration of measurement and the specified measurement interval is out of allowable range.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2871	Force guide sequence execution, RecordStart, and force monitor cannot be used at the same time.	Stop the task and do one of the following: - Stop the task or the command that is currently running. - Stop the function from the force guide force monitor screen and try again. - See the reference manual for the command that corresponds to the function name and row number in the system history.			Stop task
2872	Force monitor cannot be launched twice.	To start force monitor newly, quit the running force monitor and start a new one.			Stop task
2880	Failed to initialize the Force Sensor.	Do one of the following: - Check connection of the Force Sensor I/F board and Force Sensor. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2888	A force sensor not supported on the controller has been set.	Stop the task and do one of the following: - Check the controller force sensor settings. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task Reboot
2889	A hand that is not supported by Force Guide has been specified for RobotHand.	Stop the task and do one of the following: - Check the hand specified in the force guide sequence. - Check the controller hand settings.			Stop task
2900	Failed to open TCP/IP port (server).	Stop the task and do one of the following: - Check whether the Ethernet port is set properly. - Check whether the Ethernet cable is connected properly.			Stop task
2901	Failed to open TCP/IP port (client).	Stop the task and do one of the following: - Check whether the Ethernet port is set properly. - Check whether the Ethernet cable is connected properly. - When using the part feeder, check if the settings are correct.			Stop task
2902	The destination TCP/IP port is closed.	Stop the task, check if the destination TCP/IP port specified on OpenNet is not closed, and try again.			Stop task
2904	Invalid IP Address was specified.	Stop the task and do one of the following: - Check the IP address specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - When using the part feeder, check the part feeder host name specification and try again.			Stop task
2905	Server/Client not specified in OpenNet command.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2906	An undefined TCP/IP port was specified.	Stop the task and do one of the following: - Check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Check whether the Ethernet port is set properly. - When using the part feeder, check if the settings are correct.	Port number		Stop task
2907	A TCP/IP port connected on another task has been specified.	Do one of the following: - Stop the task and check the parameter data specified in the SPEL command and the execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Specify another TCP/IP port and try again. - Stop TCP/IP communication to the PC running the virtual controller, then try again.	Port number		Stop task
2908	An attempt was made to change the connected TCP/IP port settings.	Stop the task and check the parameter data specified in the SPEL command and the execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Port number		Stop task
2909	A TCP/IP port that is not yet connected was specified.	Stop the task and do one of the following: - Check the parameter and execution order specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - When using the part feeder, check the connection and settings. - If this error occurs repeatedly, contact us.	Port number		Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2910	Communication with the specified TCP/IP port failed (read timeout).	Stop the task and do one of the following: - Check the TCP/IP port and execution order specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Check the controller connection destination status. - Check the network status. - Check whether the Ethernet port is set properly. - When using the part feeder, check the connection and settings.	Timeout value		Stop task
2911	Communication failed on the specified TCP/IP port.	Stop the task and do one of the following: - Check the TCP/IP port and execution order specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Check the controller connection destination status. - Check the network status. - Check whether the Ethernet port is set properly. - When using the part feeder, check the connection and settings.			Stop task
2912	A TCP/IP port connected on another task has been specified.	Stop the task and check the parameter data specified in the SPEL command and the execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Port number		Stop task
2913	Communication failed on the specified TCP/IP port.	Stop the task and do one of the following: - Check the TCP/IP port and execution order specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Check the controller connection destination status. - Check the network status. - Check whether the Ethernet port is set properly. - When using the part feeder, check the connection and settings.	Port number		Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2914	A TCP/IP port that is not connected was specified.	Stop the task and do one of the following: - Check the controller connection destination status. - Check the network status. - Check whether the Ethernet port is set properly. - Check the TCP/IP port and execution order specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Port number		Stop task
2915	A data size that exceeds the upper limit was received.	The maximum length of a line is 255 bytes. Stop the task and do one of the following: - Check the data size received by the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - When using the part feeder, check the connection and settings.	The number of bytes in a received line		Stop task
2916	Virtual TCP/IP port processing failed (dummy file).	Stop the task and do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.	Port number		Stop task
2920	Failed to connect to RS-232C port.	Stop the task and do one of the following: - Check if the RS-232C port is set properly. - Check the RS-232C cable connection. - Check the RS-232C board connection.			Stop task
2921	RS-232C port communication failed (read).	Stop the task and do one of the following: - Check if the RS-232C port is set properly. - Check the RS-232C cable connection. - Check the RS-232C board connection. - Check the RS-232C port and execution order specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2922	Failed to communicate with RS-232C port due to a buffer overrun.	Stop the task and do one of the following: - Reduce the transfer speed. - Reduce the data volume.			Stop task
2926	Cannot recognize RS-232C board. Failed to open port.	Stop the task and check the controller RS-232C board connection.	Port number		Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2927	An RS-232C port connected on another task has been specified.	Stop the task and check the parameter data specified in the SPEL command and the execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Port number		Stop task
2928	An attempt was made to change the connected RS-232C port settings.	Do one of the following: - Stop the task and check the parameter data specified in the SPEL command and the execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Specify another RC-232C port and try again. - Stop RS-232C communication to the PC running the virtual controller, then try again.	Port number		Stop task
2929	An attempt was made to change the settings of the RS-232C port that is not yet connected.	Stop the task and check the parameter data specified in the SPEL command and the execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Port number		Stop task
2930	RS-232C port communication failed (read timeout).	Stop the task and do one of the following: - Check if the RS-232C port is set properly. - Check the RS-232C cable connection. - Check the RS-232C board connection. - Check the RS-232C port and execution order specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Timeout value		Stop task
2931	RS-232C port communication failed (read).	Stop the task and do one of the following: - Check if the RS-232C port is set properly. - Check the RS-232C cable connection. - Check the RS-232C board connection. - Check the RS-232C port and execution order specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2932	An RS-232C port connected on another task has been specified.	Stop the task and check the parameter data specified in the SPEL command and the execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Port number		Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2933	RS-232C port communication failed (write).	Stop the task and do one of the following: - Check if the RS-232C port is set properly. - Check the RS-232C cable connection. - Check the RS-232C board connection. - Check the RS-232C port and execution order specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Port number		Stop task
2934	A RS-232C port that is not connected was specified.	Stop the task and do one of the following: - Check the controller connection destination status. - Check the network status. - Check if the RS-232C port is set properly. - Check the RS-232C port and execution order specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2935	A data size that exceeds the upper limit was received.	The maximum length of a line is 255 bytes. Stop the task and check the data size received by the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	The number of bytes in a received line		Stop task
2936	Failed to process virtual RS-232C port (dummy file).	Stop the task and do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.	Port number		Stop task
2938	An RS-232C port that is already connected to another task was specified (ModBus).	Stop the task and check the parameter data specified in the SPEL command and the execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
2950	Failed to initialize controller (daemon thread creation error).	Do one of the following: - Reboot the Controller. - Reset the controller and update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reset
2951	Failed to initialize controller (daemon thread creation timeout).	Do one of the following: - Reboot the Controller. - Reset the controller and update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2952	Mode change key switch input signal error detected.	Do all of the following, then reboot: - Correctly set the TP mode change key switch to TEACH or AUTO. - Check whether the TP is connected properly.			Reboot
2953	Enable switch input signal error detected.	Check the TP connection and reboot the controller.			Reboot
2970	Failed to allocate memory (MNG).	Reset the controller and do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reset
2971	Failed to execute SPEL command (real-time check error).	Stop the task and do one of the following: - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2972	A system error has occurred (MNG standard priority).	Stop the task and do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2973	A system error has occurred (MNG BOOST priority).	Stop the task and do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2974	A system error has occurred (MNG DOWN priority).	Stop the task and do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2975	A system error occurred (MNG event waiting).	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reboot
2977	Failed to release memory (MNG).	Try rebooting the controller. Do one of the following: - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2978	Failed to initialize controller (MNG AddIOMem error).	Do one of the following. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2979	Failed to initialize controller (MNG AddInPort error).	Do one of the following. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2980	Failed to initialize controller (MNG AddOutPort error).	Do one of the following. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2981	Failed to initialize controller (MNG AddMemPort error).	Do one of the following. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2982	Failed to initialize controller (MNG AddOutMemPort error).	Do one of the following. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
2983	Failed to execute SPEL command (IntervalOutBit, MNG).	Stop the task and do one of the following: - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2984	Failed to execute SPEL command (CtrReset, MNG).	Stop the task and do one of the following: - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
2985	Failed to allocate memory. (vision response reception buffer)	Reset the controller and do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
2997	Simulator detected a collision.	Stop the task and do one of the following: - Check the simulator environment object layout. - Check the robot operation.			Stop task
2998	A command not accompanied by robot motion triggered by AbortMotion was aborted.	Stop the task and check the system history. This error code is triggered when the AbortMotion command is launched and the OnErr command triggers a hook. It is equivalent to the ERROR_DOINGMOTION constant. For details, see the reference manual.			Stop task
2999	A robot motion command triggered by the AbortMotion command was aborted.	Stop the task and check the system history. This error code is triggered when the AbortMotion command is launched and the OnErr command triggers a hook. It is equivalent to the ERROR_NOMOTION constant. For details, see the reference manual.			Stop task

2.4 Code Number 3000 ~

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3000	OBJ file size is large. TP1 may not be able to build this project.	When it is necessary to build the project from TP1, consider to reduce the program.			-
3001	The number of variables which is using Wait command is near the maximum allowed.	The number of variables which is using Wait command is exceeding 56 (the maximum is 64). Check if there are unnecessary variables.			-
3002	DLL file not found.	Check if the DLL file exists in either of the following folders: - Project folder - Windows system folder - Environmental variable PATH setting folder			-
3003	DLL function cannot be found.	Check the name of the specified function. Also check the DLL file if the specified function exists in the DLL.			-
3050	Main function is not defined.	Declare a Main function.			-
3051	Function does not exist.	Declare an unresolved function.			-
3052	Variable does not exist.	Declare an unresolved variable.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3100	A syntax error occurred.	Check the reference manual for the applicable command and repair the code. Basic: "SPEL + Language Reference" Vision: "Vision Guide Properties & Result Reference" Force: "Force Guide SPEL+ Language Reference" GUI Builder: "GUI Builder GUI Builder Reference" Part feeder: "Part Feeding Introduction & Hardware (common) & Software - Software - Part Feeding SPEL+ Command Reference"			-
3101	Invalid parameter count.	Check the reference manual for the applicable command and repair the code. Basic: "SPEL + Language Reference" Vision: "Vision Guide Properties & Result Reference" Force: "Force Guide SPEL+ Language Reference" GUI Builder: "GUI Builder GUI Builder Reference" Part feeder: "Part Feeding Introduction & Hardware (common) & Software - Software - Part Feeding SPEL+ Command Reference"			-
3102	File name length is beyond the maximum allowed.	Shorten the file name.			-
3103	Duplicate function definition.	Change the function name.			-
3104	Duplicate variable definition '**.'	Change the variable name.			-
3105	Global and Global Preserve variables cannot be defined inside a function block.	Declare the Global and Global Preserve variables outside the function block.			-
3106	An undefined function was specified.	Specify a valid function name. Or, open the project to rebuild it.			-
3107	Both While and Until for Do...Loop was specified.	The While/Until statement is specified for both Do statement and Loop statement. Delete either While/Until statement.			-
3108	Line label ‘**’ not defined.	Set the line label.			-
3109	An overflow error occurred.	The direct numerical specification overflows. Reduce the numeric value.			-
3110	An undefined variable was specified.	There is an undefined variable. Declare the variable.			-
3111	Specified variable is not an array variable.	Specify the array variable.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3112	Cannot change the dimensions of the array variable.	Dimension of the array cannot be changed in Redim statement during the run time. Correct the program.			-
3114	Specified Next variable does not match the specified For variable.	Correct the variable name.			-
3115	Cannot use a point expression in the first argument.	Specify a single point for the point flag setting. Do not specify a point expression.			-
3116	Dimension of the array variable does not match the variable declaration.	Check the number of array dimensions.			-
3117	File not found	The file that configures the project cannot be found. Check the project folder if the file exists.			-
3118	Corresponding EndIf cannot be found.	The number of EndIf statements that correspond to If or ElseIf statements is insufficient. Add the EndIf statements.			-
3119	Corresponding Loop cannot be found.	The number of Loop statements that correspond to Do statements is not enough. Add the Loop statements.			-
3120	Corresponding Next cannot be found.	The number of Next statements that correspond to For statements is not enough. Add the Next statements.			-
3121	Corresponding Send cannot be found.	The number of Send statements that correspond to Select statements is not enough. Add the Send statements.			-
3123	On/Off statements are beyond the maximum count.	An upper limit (max. 16) is set on the number of On/Off statements in Curve statement. Check the upper limit and correct the program.			-
3124	Point number is beyond the maximum count.	There is an upper limit that can be specified in the writing style (P1, P2,,,) in which points are listed side by side with commas. To specify multiple points with the Curve command, use P(:) instead.			-
3125	Corresponding If cannot be found.	The number of EndIf statements that correspond to If statements is too many. Delete the unnecessary EndIf.			-
3126	Corresponding Do cannot be found.	The number of Loop statements that correspond to Do statements is too many. Delete the unnecessary Loop.			-
3127	Corresponding Select cannot be found.	The number of Send statements that correspond to Select statements is too many. Delete the unnecessary Send.			-
3128	Corresponding For cannot be found.	The number of Next statements that correspond to For statements is too many. Delete the unnecessary Next.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3129	'_' cannot be used as the first character of an identifier.	Change the first character of the identifier to an alphabetic character.			-
3130	Cannot specify ROT parameter.	ROT parameter cannot be specified in BGo, Go, TGo, Jump, and Jump3 statements. Correct the program.			-
3131	Cannot specify ECP parameter.	ECP parameter cannot be specified in BGo, Go, TGo, Jump, Jump3, and Arc statements. Correct the program.			-
3132	Cannot specify Arch parameter.	Arch parameter cannot be specified in BGo, Go, TGo, Arc, Arc3, BMove, Move, and TMove statements. Correct the program.			-
3133	Cannot specify LimZ parameter.	LimZ parameter cannot be specified in BGo, Go, TGo, Jump3, Arc, Arc3, BMove, Move, and TMove statements. Correct the program.			-
3134	Cannot specify Sense parameter.	Sense parameter cannot be specified in BGo, Go, TGo, Arc, Arc3, BMove, Move, and TMove statements. Correct the program.			-
3135	Invalid parameter is specified.	Invalid parameter is specified in Xqt, and Call statements. Correct the program.			-
3137	Cannot specify the array variable subscript.	The array variable subscript cannot be specified. Correct the program.			-
3138	ByRef was not specified on Function declaration.	Specify ByRef in the parameter list of function declaration that is called by Call statement.			-
3139	Cannot execute the Xqt statement for a function that needs a ByRef parameter.	The Xqt statement cannot be executed for a function needing a ByRef parameter. Delete the ByRef parameter.			-
3140	Cannot execute the Redim statement for a ByRef variable.	The Redim statement cannot be executed for a variable specifying ByRef parameter. Delete the ByRef parameter.			-
3141	The OBJ file is corrupt.	Do one of the following: - Rebuild the project. - Restore the project that was operating correctly. - If this error occurs repeatedly, contact us.			-
3142	OBJ file size is beyond the limit value after compiling.	The compilation result exceeds the limit value (max. 1 MB per file). Divide the program.			-
3143	The number of identifier characters exceed the limit value.	Reduce the number of characters so as not to exceed the limit value. For details on the limit value, refer to "Epson RC+ User's Guide - Function and Variable Names (Naming restriction)".			-
3144	'**' is already used for a function name.	Correct the identifier ' ** ' or the function name.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3145	'**' is already used for a Global Preserve variable name.	Correct the identifier ' ** ' or the Global Preserve variable name.			-
3146	'**' is already used for a Global variable name.	Correct the identifier ' ** ' or the Global variable name.			-
3147	'**' is already used for a Module variable name.	Correct the identifier ' ** ' or the Module variable name.			-
3148	'**' is already used for a Local variable name.	Correct the identifier ' ** ' or the Local variable name.			-
3149	'**' already used for an I/O label.	Correct the identifier ' ** ' or the I/O label name.			-
3150	'**' already used for a User Error label name.	Correct the identifier ' ** ' or the User Error label name.			-
3151	Cannot specify function parameter.	Argument cannot be specified for the function that is executed by the Trap statement. Correct the program.			-
3152	Specified elements of the array variable exceed the limit value.	Limit value of the array elements depends on the type of variables. Refer to "Epson RC+8.0 User's Guide - Array" and correct the number of array elements so as not to exceed the limit value.			-
3153	Parameter type mismatch.	Parameter type does not match in Call, Force_GetForces, and Xqt statements. Correct the parameter type.			-
3154	'**' is not an input bit label.	Specify a valid input bit label.			-
3155	'**' is not an input byte label.	Specify a valid input byte label.			-
3156	'**' is not an input word label.	Specify a valid input word label.			-
3157	'**' is not an output bit label.	Specify a valid output bit label.			-
3158	'**' is not an output byte label.	Specify a valid output byte label.			-
3159	'**' is not an output word label.	Specify a valid output word label.			-
3160	'**' is not a memory bit label.	Specify a valid memory I/O bit label.			-
3161	'**' is not a memory byte label.	Specify a valid memory I/O byte label.			-
3162	'**' is not a memory word label.	Specify a valid memory I/O word label.			-
3163	Too many function arguments.	The maximum number of the function parameter is 100. Reduce the number of parameters.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3164	Cannot compare with Boolean value.	The size of Boolean values cannot be compared. Correct the program.			-
3165	Cannot use Boolean value in the expression.	Boolean value cannot be used in the expression. Correct the program.			-
3166	The Boolean value and expression cannot be compared.	The size of Boolean value and the expression cannot be compared. Correct the program.			-
3167	Cannot use Boolean value in a numeric variable.	Boolean value cannot be used in the numeric variable. Correct the program.			-
3168	Cannot use Boolean value in a numeric value.	The numeric value cannot be used in Boolean variable. Correct the program.			-
3169	Undefined I/O label was specified.	Define a new I/O label or specify the defined I/O label.			-
3170	Invalid condition expression was specified.	String expression is specified for the right side of the condition expression in Do or Loop statement. Correct the condition expression so that the right side of the expression is Boolean value.			-
3171	The numeric value and string cannot be compared.	The numeric value and string cannot be compared. Correct the program.			-
3172	Cannot use a keyword for a variable name.	Some SPEL+ keywords cannot be used as the variable names. Correct the variable name not to overlap with the keywords.			-
3173	' ** ' is already used for a line label.	Correct the identifier ' ** ' or the line label name.			-
3174	No duplicate line label '**' definition.	The line labels with the same name cannot be specified in the same function. Delete the line label ' ** ', or define a new line label and correct the program.			-
3175	Undefined Point label was specified.	Define a new point label or specify the defined point label.			-
3176	An undefined variable was specified.	Define a new variable or specify the defined variable.			-
3177	'**' already used for a Point label name.	Correct the identifier ' ** ' or the point label name.			-
3178	Cannot use the result number.	The result number cannot be specified when a vision object that does not return multiple results is used in VSet and VGet statements. Correct the program.			-
3179	String length exceeds the limit value.	Reduce the string length so as not to exceed the limit value. For details on the limit value, refer to "Epson RC+ User's Guide - Function and Variable Names (Naming restriction)".			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3180	Cannot change a calibration property value with the VSet command.	Calibration property cannot be changed in VSet statement. Correct the program.			-
3181	ByRef was not specified in type array variable.	ByVal cannot be specified for the array variable. Specify the ByRef parameter.			-
3182	Subscription was not specified.	Specify a subscription.			-
3183	Parameter cannot be omitted.	Add a parameter.			-
3184	SYNC parameter cannot be specified in tracking command.	SYNC parameter cannot be specified in tracking commands. Delete the SYNC parameter.			-
3185	Cannot use Queue data.	Queue data cannot be specified in BGo, BMove, TGo, or TMove statements. Delete the queue data.			-
3186	Queue and Point data combination does not match.	Combination of queue data and point data cannot be specified for coordinate specification of Arc, Arc3, Jump3, and Jump3CP statements. Use either queue data or the point data.			-
3187	Invalid Point flag value was specified.	Correct the program so that the point flag value is within the range from 0 to 127.			-
3188	Call cannot be used in parallel processing.	Call command cannot be used parallel processing. Correct the program.			-
3189	Cannot wait for change of local variable in Wait statement.	Change of local variable cannot be waited by Wait statement. Correct the program.			-
3190	Cannot wait for change of array variable in Wait statement.	Change of array variable cannot be waited by Wait statement. Correct the program.			-
3191	Cannot wait for change of real variable in Wait statement.	Change of real variable cannot be waited by Wait statement. Correct the program.			-
3192	Cannot wait for change of string variable in Wait statement.	Change of string variable cannot be waited by Wait statement. Correct the program.			-
3193	Vision object name is missing.	Vision object name cannot be omitted in VTeach statement. Specify an object name.			-
3194	Cannot use Boolean value for the timeout value.	Boolean value cannot be used for the timeout value of Wait statement. Correct the program.			-
3196	Fend not found.	The number of Fend statements that correspond to Function statements is not enough. Add the Fend statements.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3197	Numeric variable name cannot use '$'.	Numeric variable name cannot use '$'. Correct the variable name.			-
3198	String variables must have '$' suffix.	String variables must have a '$' suffix. Add a '$' suffix to the variable name.			-
3199	Invalid object was specified.	Invalid vision object is specified in Vision Guide commands such as VSet and VGet. Specify the valid vision object.			-
3200	Numerical value is missing.	Add a value.			-
3201	',' is missing.	Add ' , '.			-
3202	'(' is missing.	Add ' ('.			-
3203	')' is missing.	Add ') '.			-
3204	Identifier is missing.	Specify an identifier.			-
3205	Point is not specified.	Specify a point.			-
3206	Event condition expression is missing.	Add an event condition expression.			-
3207	Formula is missing.	Add a formula.			-
3208	String formula is missing.	Add a string formula.			-
3209	Point formula is missing.	Add a point formula.			-
3210	Line label is not specified.	Check if the specified line label exists in the program. Add a valid line label.			-
3211	Variable is not specified.	Specify a variable.			-
3212	Corresponding Fend cannot be found.	The number of Fend statements that correspond to Function statements is not enough. Add the Fend statements.			-
3213	‘:’ is missing.	Add ' : '.			-
3214	True/False is not specified.	True/False was not specified in the property of Vision Guide/GUI Builder or substitution of logical expression which requires Boolean value setting. Specify True or False.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3215	On/Off is not specified.	One of the following applies: - On or Off must be specified for the remote output logic setting of Motor, Brake, AutoLJM, SetSw, and Box statements. - Invalid PF_OutputOnOff command format used. Check the reference manual for the applicable command and repair the code. Basic: "SPEL + Language Reference" Part feeder: "Part Feeding Introduction & Hardware (common) & Software - Software - Part Feeding SPEL+ Command Reference"			-
3216	High/Low is not specified.	High or Low must be specified for the power mode setting of Power statement. Specify High or Low.			-
3217	Input bit label was not specified.	Input bit label is not specified in SetSW, CTReset statement, Sw, and Ctr function. Specify a valid input bit label.			-
3218	Input byte label was not specified.	Input byte label is not specified in SetIn statement, In, and InBCD function. Specify a valid input byte label.			-
3219	Input word label was not specified.	Input word label is not specified in SetInW statement, InReal, and InW function. Specify a valid input word label.			-
3220	Output bit label was not specified.	Output bit label is not specified in On, Off statement, and Oport function. Specify a valid output bit label.			-
3221	Output byte label was not specified.	Output byte label is not specified in Out, OpBCD statement, and Out function. Specify a valid output byte label.			-
3222	Output word label was not specified.	Output word label is not specified in OutW, OutReal statement, OutW, and OutReal function. Specify a valid output word label.			-
3223	Memory bit label was not specified.	Memory bit label is not specified in MemOn, MemOff statement, and MemSw function. Specify a valid memory bit label.			-
3224	Memory byte label was not specified.	Memory bit label is not specified in MemOn, MemOff statement, and MemSw function. Specify a valid memory bit label.			-
3225	Memory word label was not specified.	Memory word label is not specified in MemOutW statement and MemInW function. Specify a valid memory word label.			-
3226	User error label was not specified.	User error label is not specified in Error statement. Specify a valid user error label.			-
3227	Function name was not specified.	Function name is not specified in the statement that requires function name designation, such as Call and Xqt. Specify a valid function name.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3228	Variable type was not specified.	Variable type is not specified for the parameter definition of Function statement and Preserve parameter specification of Global statement. Specify a correct variable type.			-
3229	Invalid Trap statement parameter. Use Goto, Call, or Xqt.	Specify either GoTo, Call, or Xqt as a parameter of Trap statement.			-
3230	For/Do/Function may be specified in the Exit statement parameter.	Specify either For, Do, or Function as a parameter of Exit statement.			-
3231	Above/Below was not specified.	Setting value for the elbow orientation is not specified in Elbow statement. Specify either Above or Below.			-
3232	Righty/Lefty was not specified.	Setting value for the hand orientation is not specified in Hand statement. Specify either Righty or Lefty.			-
3233	NoFlip/Flip was not specified.	Setting value for the wrist orientation is not specified in Wrist statement. Specify either NoFilip or Flip.			-
3234	Port number was not specified.	Refer to "SPEL+ Language Reference - Read Statement" and specify a proper file number or port number.			-
3235	String type variable was not specified.	Port number that indicates the file or communication port is not specified in Read, ReadBin, Write, and WriteBin statements.			-
3236	RS-232C port number was not specified.	Refer to "SPEL+ Language Reference - Read Statement" and specify a proper file number or port number.			-
3237	Network communication port number was not specified.	String type variable is not specified in the command that requires specification of string type variable as a parameter. Specify a valid string type variable.			-
3238	Communication speed was not specified.	RS-232C port number is not specified in OpenCom, CloseCom, and SetCom statements. Refer to "SPEL+ Language Reference - OpenCom Statement" and specify a proper port number.			-
3239	Data bit length was not specified.	Network communication port number is not specified in OpenNet, CloseNet, SetNet, and WaitNet statement. Specify an integer from 201 to 216.			-
3240	Stop bit length was not specified.	Communication speed (baud rate) is not specified in SetCom statement. Refer to "SPEL+ Language Reference - SetCom Statement" and specify a proper baud rate.			-
3241	Parity was not specified.	Parity is not specified in SetCom statement. Refer to "SPEL+ Language Reference - SetCom Statement" and specify a proper parity.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3242	Terminator was not specified.	Terminator (end of send/receive line) is not specified in SetCom and SetNet statements. Refer to "SPEL+ Language Reference - SetCom Statement" and specify a proper terminator.			-
3243	Hardware flow was not specified.	Hardware flow is not specified in SetCom statement. Refer to "SPEL+ Language Reference - SetCom Statement" and specify a proper flow control.			-
3244	Software flow was not specified.	Software flow is not specified in SetCom statement. Refer to SPEL+ Language Reference "SetCom Statement" and specify a proper flow control.			-
3245	'NONE' was not specified.	"NONE" is not specified for software flow control setting in SetNet statement. Specify "NONE".			-
3246	Neither parameter 'O' nor 'C' was specified.	Open or close parameter for the end of a curve is not specified in Curve statement. Refer to "SPEL+ Language Reference - Curve Statement" and specify a proper open/close parameter.			-
3247	NumAxes parameter was not specified.	The number of coordinate axes controlled during a curve motion is not specified in Curve statement. Refer to "SPEL+ Language Reference - Curve Statement" and specify a proper number of the coordinate axes.			-
3248	J4Flag value (0-1) was not specified.	Specify 0 or 1, or an expression for J4Flag value.			-
3249	J6Flag value (0-127) was not specified.	Specify an integer from 0 to 127, or an expression for J6Flag value.			-
3250	Array variable was not specified.	Array variable is not specified in the statement that requires specification of array variable. Specify a valid array variable.			-
3251	String array variable was not specified.	Array which stores a token must be a string array variable in ParseStr statement and ParseStr function. Specify a string array variable.			-
3252	Device ID was not specified.	Device ID is not specified in DispDev statement or Cls command. Refer to "SPEL+ Language Reference - DispDev Statement" and specify a proper device ID.			-
3253	I/O type was not specified.	I/O type is not specified in IOLabel$ function. Refer to "SPEL+ Language Reference - IOLabel$ Function" and specify a proper I/O type.			-
3254	I/O bit width was not specified.	I/O bit size (I/O port width) is not specified in IODef, IOLabe function. Refer to "SPEL+ Language Reference - IODef Function" and specify a proper I/O bit size.			-
3255	ByRef was not specified.	Although the ByRef is specified in the function declaration, no ByRef is specified for calling. Specify the ByRef parameter.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3256	Variable type was not specified.	Variable type is not specified in Global statement. Specify a correct variable type.			-
3257	Condition expression does not evaluate to Boolean value.	Condition expression in If, ElseIf, Do, and Loop statement must return a Boolean value. Correct the condition expression to return a Boolean value.			-
3258	RS232C port number was not specified.	RS-232C port number is not specified in ChkCom function. Refer to "SPEL+ Language Reference - ChkCom Function" and specify a proper port number.			-
3259	Network communication port number was not specified.	Network communication port number is not specified in ChkNet function. Refer to "SPEL+ Language Reference - ChkNet Function" and specify a proper port number.			-
3260	Language ID was not specified.	Language ID is not specified in ErrMsg$ function. Refer to "SPEL+ Language Reference - ErrMsg$ Function" and specify a proper language ID.			-
3261	'.' is missing.	Add '.'.			-
3262	Vision sequence name was not specified.	Vision sequence name is not specified in Vision Guide commands such as VSet, VGet, and VRun. Add a sequence name.			-
3263	Vision sequence name or calibration name was not specified.	Vision sequence name or calibration name is not specified in VSet statements. Add a sequence name or calibration name.			-
3264	Vision property name or result name was not specified.	Vision property name or result name is not specified in VSet and VGet statements. Add a property name or result name.			-
3265	Vision property name, result name or object name was not specified.	Either of Vision property name, result name, or object name is not specified in VSet and VGet statements. Add either of a property name, result name, or object name.			-
3266	Vision calibration property name was not specified.	Vision calibration property name is not specified in VSet and VGet statements. Add a property name.			-
3267	Task type was not specified.	Task type is not specified in Xqt statement. Refer to "SPEL+ Language Reference - Xqt Statement" and specify a proper task type.			-
3268	Form name was not specified.	Form name is not specified in GSet, GGet, GShow, GShowDialog, and GClose statements. Specify a form name.			-
3269	Property name or control name was not specified.	Property name or control name is not specified in GSet and GGet statements. Specify a property name or control name.			-
3270	Property name was not specified.	Property name is not specified in GSet and GGet statements. Specify a property name.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3271	BackColorMode was not specified.	BackColorMode property setting value is not specified in GSet statement. Refer to "GUI Builder 8.0 manual - BackColorMode Property" and specify a proper setting value.			-
3272	BorderStyle was not specified.	BorderStyle property setting value is not specified in GSet statement. Refer to "GUI Builder 8.0 manual - BorderStyle Property" and specify a proper setting value.			-
3273	DropDownStyle was not specified.	DropDownStyle property setting value is not specified in GSet statement. Refer to "GUI Builder 8.0 manual - DropDownStyle Property" and specify a proper setting value.			-
3274	EventTaskType was not specified.	EventTaskType property setting value is not specified in GSet statement. Refer to "GUI Builder 8.0 manual - EventTaskType Property" and specify a proper setting value.			-
3275	ImageAlign was not specified.	ImageAlign property setting value is not specified in GSet statement. Refer to "GUI Builder 8.0 manual - ImageAlign Property" and specify a proper setting value.			-
3276	IOType was not specified.	IOType property setting value is not specified in GSet statement. Refer to "GUI Builder 8.0 manual - IOType Property" and specify a proper setting value.			-
3277	FormBorderStyle was not specified.	FormBorderStyle property setting value is not specified in GSet statement. Refer to "GUI Builder 8.0 manual - FormBorderStyle Property" and specify a proper setting value.			-
3278	ScrollBars was not specified.	ScrollBars property setting value is not specified in GSet statement. Refer to "GUI Builder 8.0 manual - ScrollBars Property" and specify a proper setting value.			-
3279	SizeMode was not specified.	SizeMode property setting value is not specified in GSet statement. Refer to "GUI Builder 8.0 manual - SizeMode Property" and specify a proper setting value.			-
3280	StartPosition was not specified.	StartPosition property setting value is not specified in GSet statement. Refer to "GUI Builder 8.0 manual - StartPosition Property" and specify a proper setting value.			-
3281	TextAlign was not specified.	TextAlign property setting value is not specified in GSet statement. This error occurs when the control type cannot be identified because the control is specified by a string variable. Refer to "GUI Builder 8.0 manual - TextAlign Property" and specify a proper setting value.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3282	TextAlign was not specified.	TextAlign property setting value is not specified in GSet statement. This error occurs when the control is a text box. Refer to GUI Builder 8.0 manual "TextAlign Property" and specify a proper setting value.			-
3283	TextAlign was not specified.	TextAlign property setting value is not specified in GSet statement. This error occurs when the control is other than a text box. Refer to "GUI Builder 8.0 manual - TextAlign Property" and specify a proper setting value.			-
3284	WindowState was not specified.	WindowState property setting value is not specified in GSet statement. Refer to "GUI Builder 8.0 manual - WindowState Property" and specify a proper setting value.			-
3285	J1FLAG value was not specified.	Specify 0 or 1, or an expression for J1Flag value.			-
3286	J2FLAG value was not specified.	Specify 0 or 1, or an expression for J2Flag value.			-
3287	Robot number was not specified.	Specify a robot number.			-
3288	Robot number/All was not specified.	Robot number or All is not specified in InsideBox and InsidePlane function. Specify a robot number which performs intrusion detection, or All.			-
3289	Area ID was not specified.	Area number is not specified in InsideBox and InsidePlane function. Specify an approach check area number which returns status by an integer from 1 to 15.			-
3290	File number was not specified.	File number is not specified in the command related to file management. Specify a file number by an integer from 30 to 63 or an expression.			-
3292	Database type was not specified.	Database type is not specified in OpenDB statement. Refer to "SPEL+ Language Reference - OpenDB Statement" and specify a proper database type.			-
3293	Disk type was not specified.	Type of the disk that is subject to file manipulation is not specified in ChDisk statement. Refer to "SPEL+ Language Reference - ChDisk Statement" and specify a proper disk type.			-
3295	Conveyor area ID was not specified.	Area ID that is subject to count the queue data is not specified in Cnv_QueLen function. Refer to "SPEL+ Language Reference - Cnv_QueLen Function" and specify a proper area ID.			-
3296	Database file number was not specified.	Data base number that is subject to operation is not specified in OpenDB, CloseDB, DeleteDB, UpdateDB, and SelectDB function. Refer to "SPEL+ Language Reference - OpenDB Statement" and specify a proper database number.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3297	Vision calibration name was not specified.	Calibration name is not specified in VCal statement. Specify a name of calibration that is subject to calibrate.			-
3298	Vision object type ID was not specified.	Vision object type is not specified in VCreateObject statement. Refer to "Vision Guide 8.0 Properties & Results Reference - VCreateObject Statement" and specify a proper object type.			-
3299	Shutdown mode ID was not specified.	Shutdown mode value is not specified in ShutDown statement and ShutDown function. Refer to "SPEL+ Language Reference - Shutdown Statement" and specify a proper mode value.			-
3301	Version of linked OBJ file does not match.	Not all project files are compiled in the same version. Rebuild the project.			-
3302	Linked OBJ file does not match the compiled I/O label.	Do one of the following: - Review the program. - Rebuild the project. - Synchronize the project or transfer the project that was operating correctly via restore. - If this error occurs repeatedly, contact us.			-
3303	Linked OBJ file does not match the compiled user error label.	The project configuration has been changed. Rebuild the project.			-
3304	Linked OBJ file does not match the compiled compile option.	The project configuration has been changed. Rebuild the project.			-
3305	Linked OBJ file does not match the compiled link option.	The project configuration has been changed. Rebuild the project.			-
3306	Linked OBJ file does not match the compiled SPEL option.	The project configuration has been changed. Rebuild the project.			-
3307	Duplicate function.	The same function name is used for more than one file. Correct the program (function name).			-
3308	Duplicate global preserve variable.	The same global preserve variable name is used for more than one file. Correct the program (variable name).			-
3309	Duplicate global variable.	The same global variable name is used for more than one file. Correct the program (variable name).			-
3310	Duplicate module variable.	The same module variable name is used for more than one file. Correct the program (variable name).			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3311	File not found	Do one of the following: - Review the program. - Rebuild the project. - Synchronize the project or transfer the project that was operating correctly via restore. - If this error occurs repeatedly, contact us.			-
3312	The OBJ file is corrupt.	Do one of the following: - Review the program. - Rebuild the project. - Synchronize the project or transfer the project that was operating correctly via restore. - If this error occurs repeatedly, contact us.			-
3313	The specified file name includes character(s) that cannot be used.	Correct the file name.			-
3314	Cannot open the file.	The file is used for other application. Terminate other applications.			-
3315	'**' is already used for a function name.	Correct the identifier ' ** ' or the function name. Rebuild the project.			-
3316	'**' is already used for a Global Preserve name.	Correct the identifier '**' or the global preserve variable name. Rebuild the project.			-
3317	'**' is already used for a Global variable name.	Correct the identifier '**' or the global variable name. Rebuild the project.			-
3318	'**' is already used for a Module variable name.	Correct the identifier '**' or the module variable name. Rebuild the project.			-
3319	Dimension of the array variable does not match the declaration.	Correct the dimension of the array and rebuild the project.			-
3320	Return value type of the function does not match the declaration.	Correct the return value type of the function and rebuild the project.			-
3321	'**' is already used for a function name.	Correct the identifier ' ** ' or the function name. Rebuild the project.			-
3322	'**' is already used for a Global Preserve name.	Correct the identifier '**' or the global preserve variable name. Rebuild the project.			-
3323	'**' is already used for a Global variable name.	Correct the identifier '**' or the global variable name. Rebuild the project.			-
3324	'**' is already used for a Module variable name.	Correct the identifier '**' or the module variable name. Rebuild the project.			-
3325	'**' is already used for a Local variable name.	Correct the identifier ' ** ' or the Local variable name. Rebuild the project.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3326	The number of parameters does not match the declaration.	Correct the program and then rebuild it.			-
3327	ByRef was not specified in Function** declaration for parameter .	Specify ByRef in the function or check the function definition.			-
3328	ByRef was not specified in parameter **.	Specify ByRef in the function or check the function definition.			-
3329	Parameter ** type mismatch.	Correct the parameter variable type.			-
3330	Linked OBJ file does not match the compiled Vision Project.	Do one of the following: - Review the program. - Rebuild the project. - Synchronize the project or transfer the project that was operating correctly via restore. - If this error occurs repeatedly, contact us.			-
3331	OBJ file size is beyond the available size after linking.	The OBJ file size exceeds the limit value (8MB). Reduce the program.			-
3332	Variable '**' has been redefined.	Variable ' ** ' is overloaded. Delete unnecessary variable definition and rebuild the project.			-
3333	Linked OBJ file does not match the compiled GUI Builder Project.	Do one of the following: - Review the program. - Rebuild the project. - Synchronize the project or transfer the project that was operating correctly via restore. - If this error occurs repeatedly, contact us.			-
3334	The number of variables which is using Wait command is beyond the maximum allowed.	The number of variables which is using Wait command is exceeding the maximum allowed (64). Delete the variables and rebuild the project.			-
3335	Call cannot be used in parallel processing.	Call cannot be used in parallel processing. Correct the program and rebuild the project.			-
3336	Variable type does not match.	Correct the data type of the variable and rebuild the project.			-
3351	Invalid object index was specified.	Do one of the following: - Review the program. - Rebuild the project. - Synchronize the project or transfer the project that was operating correctly via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3352	Force guide sequence name was not specified.	Do one of the following: - Review the program. - Rebuild the project. - Synchronize the project or transfer the project that was operating correctly via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
3353	Force guide property name or result name was not specified.	Do one of the following: - Review the program. - Rebuild the project. - Synchronize the project or transfer the project that was operating correctly via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
3354	Force guide property name, result name or object name was not specified.	Do one of the following: - Review the program. - Rebuild the project. - Synchronize the project or transfer the project that was operating correctly via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
3355	Unsupported force guide project file format.	Do one of the following: - Review the program. - Rebuild the project. - Synchronize the project or transfer the project that was operating correctly via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
3356	Linked OBJ file does not match the compiled force guide project.	Do one of the following: - Review the program. - Rebuild the project. - Synchronize the project or transfer the project that was operating correctly via restore. - If this error occurs repeatedly, contact us.			-
3400	Dialog ID was not specified.	Dialog ID is not specified in RunDialog statement. Refer to "SPEL+ Language Reference - RunDialog Statement" and specify a dialog ID.			-
3401	Main function name was not specified.	Name of the main function to execute is not specified in StartMain statement. Specify a main function name (main to main63).			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3402	Vision object name was not specified.	Vision object name is not specified in VLoadModel, VSaveModel, VShowModel, VTeach, and VTrain statements. Specify an object name.			-
3403	Recover mode was not specified.	Recover mode is not specified in Recover statement or Recover function. Refer to "SPEL+ Language Reference - Recover Statement" and specify a proper mode.			-
3404	Trap mode was not specified.	Trap number or trap event is not specified in Trap statement. Refer to "SPEL+ Language Reference - Trap Statement" and specify a proper trap number or event.			-
3405	DialogResult value was not specified.	DialogResult property setting value is not specified in GSet statement. Refer to "GUI Builder 8.0 - DialogResult Property" and specify a proper setting value.			-
3406	MsgBox_Type was not specified.	Display type is not specified in MsgBox statement. Refer to "SPEL+ Language Reference - MsgBox Statement" and specify a proper setting value.			-
3407	Byte type array variable was not specified.	Byte type array variable is not specified for send or receive data in Fbus_IOSendMsg statement. Send/receive data must be specified by Byte type array.			-
3408	Single array variable was not specified.	The number of dimensions is not proper in the command where single array variable is only available. Correct the number of dimensions.			-
3409	Point list is not specified.	Pixel coordinate or robot coordinate is not specified as a continuous point data in VxCalib statement. Specify a continuous point data in the following format: P (start : end)			-
3410	Code type was not specified.	CodeType property setting value is not specified in VSet statement. Refer to "Vision Guide 8.0 Properties & Results Reference - CodeType Property" and specify a proper setting value.			-
3411	Edge type was not specified.	EdgeType property setting value is not specified in VSet statement. Refer to "Vision Guide 8.0 Properties & Results Reference - EdgeType Property" and specify a proper setting value.			-
3413	ImageColor type was not specified.	ImageColor property setting value is not specified in VSet statement. Refer to "Vision Guide 8.0 Properties & Results Reference - ImageColor Property" and specify a proper setting value.			-
3414	Point type was not specified.	PointType property setting value is not specified in VSet statement. Refer to "Vision Guide 8.0 Properties & Results Reference - PointType Property" and specify a proper setting value.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3415	Reference type was not specified.	ReferenceType property setting value is not specified in VSet statement. Refer to "Vision Guide 8.0 Properties & Results Reference - ReferenceType Property" and specify a proper setting value.			-
3416	Edge type was not specified.	Logic (edge type) of the trigger input is not specified in SetLatch statement. Specify either 0 (negative logic) or 1 (positive logic).			-
3417	Port number was not specified.	R-I/O input port number where the trigger input is connected is not specified in SetLatch statement. Refer to "SPEL+ Language Reference - SetLatch Statement" and specify a proper port number.			-
3420	Only Integer or Short type array variable is available.	Do one of the following: - Specify an Integer type array variable. - If this error continues to occur, contact us.			-
3421	Form name or window ID is not specified.	Form name or system window ID which is subject to operation is not specified in GShow and GClose statements. Specify a valid form name or window ID. For details of window ID, refer to "GUI Builder8.0 manual - GShow Statement".			-
3422	Window ID is not specified.	System window ID which is subject to operation is not specified in GShow and GClose statements. Refer to "GUI Builder8.0 manual - GShow Statement" and specify a proper window ID.			-
3423	Operation mode was not specified.	Performance mode is not specified in PerformMode parameter of PerformMode statement, Go, BGo, TGo, Jump statement. Refer to "SPEL+ Language Reference - PerformMode" and specify a proper performance mode.			-
3424	Protocol type was not specified.	Communication protocol setting is not specified in SetNet statement. Specify UDP or TCP.			-
3425	I/O type or I/O label was not specified.	I/O type or I/O label is not specified in IODef function. Specify the I/O label or I/O type to check existence of definition. For details of I/O types, refer to "SPEL+ Language Reference - IODef Function".			-
3426	Singularity avoidance mode was not specified.	Singularity avoidance mode is not specified in AvoidSingularity statement. Refer to "SPEL+ Language Reference - AvoidSingularity Statement" and specify a proper mode.			-
3427	Acceleration value was not specified.	Setting number of acceleration is not specified in AccelR function. Refer to "SPEL+ Language Reference - AccelR Function" and specify a proper setting value.			-
3428	Acceleration value was not specified.	Setting number of acceleration is not specified in Accel function, AccelMax function, AccelS function, and RealAccel function. Refer to "SPEL+ Language Reference - Accel Function" and specify a proper number.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3429	Sorting order for work queue data was not specified.	Sorting order for work queue data is not specified in WorkQue_Sort statement. Refer to "SPEL+ Language Reference - Statement" and specify a proper sorting order.			-
3430	Coordinate axis number was not specified.	Specify a coordinate axis number.			-
3431	Coordinate axis number was not specified.	Specify a coordinate axis number.			-
3432	Point or expression is not specified.	Do one of the following: - Review the program. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
3433	Boolean type array variable was not specified.	Array which stores a value of Enabled or LPF_Enabled property must be a Boolean type array variable in FGet statement. Specify a Boolean array variable.			-
3434	Real or Double type array variable was not specified.	Real or Double type array variable is not specified in FGet or MPGet statement. Specify a real or double type array variable.			-
3435	Integral type array variable was not specified.	Array which stores a value of Polarities property must be an Integral type array variable in FGet statement. Specify an integral type array variable.			-
3436	Duration of FCKeep statement is not specified.	Duration of force control (timeout value) is not specified in FCKeep statement. Specify a proper setting value.			-
3437	Controller part type was not specified.	Specify the controller part type.			-
3438	Robot part type was not specified.	Specify the robot part type.			-
3439	Robot part type was not specified.	Specify the robot part type.			-
3440	A value other than numerical value is specified for the parameter of the command.	Specify a numerical value for AIO_TrackingSet command 7th parameter.			-
3441	A value other than numerical value is specified for the parameter of the command.	Specify a numerical value for AIO_TrackingSet command 6th parameter.			-
3450	Force property name or status name is not specified.	Force property name or status name is not specified in FSet, FGet, MPSet, and MPGet statements. Add a property name or a status name.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3451	Force property name, status name, or object name is not specified.	Either of Force property name, status name, or object name is not specified in FSet, FGet, MPSet, and MPGet statements. Add either of a property name, status name, or object name.			-
3452	Force object name is not specified.	Do one of the following: - Add a force object name. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
3453	Mass Property Object is not specified.	Specify a valid Mass Property object.			-
3454	Force Coordinate System Object is not specified.	Specify a valid Force Coordinate System object.			-
3455	Force Control Object is not specified.	Specify a valid Force Control object.			-
3456	Force Monitor Object is not specified.	Specify a valid Force Monitor object.			-
3457	Force Trigger Object is not specified.	Specify a valid Force Trigger object.			-
3458	Force control object or force coordinate system object is not specified.	Force control data or force coordinate system data is not specified in FCSMove statement. Specify a valid force control object or force coordinate system object.			-
3459	Force object is not specified.	Specify a Force object.			-
3460	Force object label is not specified.	Specify a Force object label.			-
3461	Force object or label is not specified.	Specify a valid force object or label.			-
3462	Force coordinate system object or label is not specified.	Specify a valid force coordinate system object or label.			-
3463	Force control object or label is not specified.	Specify a valid force control object label.			-
3464	Force monitor object or label is not specified.	Specify a valid force monitor object label.			-
3465	Force trigger object or label is not specified.	Specify a valid force trigger object or label.			-
3466	Mass property object or label is not specified.	Specify a valid mass property object label.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3467	Force coordinate system object or label is not specified.	Specify a valid force coordinate system object or label.			-
3468	Force Control Object label is not specified.	Specify a valid Force Control object label.			-
3469	Force Monitor Object label is not specified.	Specify a valid Force Monitor object label.			-
3470	Force Trigger Object label is not specified.	Specify a valid Force Trigger object label.			-
3471	Force Sensor Object label is not specified.	Specify a valid Force Sensor object label.			-
3472	Mass Property Object label is not specified.	Specify a valid Mass Property object label.			-
3473	Mass Property Object label is not specified.	Specify a valid Mass Property object label.			-
3474	Fmag_Axes or Tmag_Axes property setting value is not specified.	Fmag_Axes or Tmag_Axes property setting value is not specified in FSet statement. Refer to "Fmag_Axes property" or - Tmag_Axes property" and specify a proper setting value.			-
3475	TriggerMode property setting value is not specified.	TriggerMode property setting value is not specified in FSet statement. Refer to "TriggerMode property" and specify a proper setting value.			-
3476	Operator property setting value is not specified.	Operator property setting value is not specified in FSet statement. Refer to "Operator property" and specify a proper setting value.			-
3477	Orientation property setting value is not specified.	Orientation property setting value is not specified in FSet statement. Refer to "Orientation property" and specify a proper setting value.			-
3478	Polarity property setting value is not specified.	Fmag_Polarity, Fx_Polarity, Fy_Polarity, Fz_Polarity, Tmag_Polarity, Tx_Polarity, Ty_Polarity, and Tz_Polarity property setting value is not specified in FSet statement. Specify a proper setting value.			-
3479	TillStopMode property setting value is not specified.	TillStopMode property setting value is not specified in FSet statement. Refer to "TillStopMode property" and specify a proper setting value.			-
3500	#Duplicate macro in define statement.	Another macro with the same name has been defined. Change the macro name.			-
3501	Macro name is not specified.	Macro name is not specified in #define, #ifdef, #ifndef, and #undef statements. Add a macro name.			-
3502	#Include file name cannot be found.	Include file name is not specified in #Include statement. Add a valid include file name.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3503	Specified include file is not registered to the project.	The include file that is not registered in the project configuration is specified. Add the include file to the project configuration.			-
3504	Macro function parameter does not match the declaration.	Check the number of parameters and correct the macro function.			-
3505	The macro has a circular reference.	The macro has a circular reference. Correct the circular reference.			-
3506	#define, #ifdef, #ifndef, #else, #endif, and #undef and variable declaration statements are only valid in an include file.	Check and correct the content of include file.			-
3507	#Over ifdef or #ifndef nesting level.	Limit of the nesting levels is 7 at the maximum. Correct the program so as not to exceed the limit value.			-
3508	Corresponding #ifdef and #ifndef are missing.	The number of #endif statements that correspond to #ifdef and #ifndef statements are too many. Delete endif statements or add the #ifdef and #ifndef statements.			-
3509	#No #endif found for #ifdef or ifndef.	The number of #endif statements that correspond to #ifdef and #ifnedef statements are not enough. Add the endif statements.			-
3510	Could not allocate macro buffer.	Do one of the following: - Reboot Epson RC+. - Reinstall Epson RC+. - If this error occurs repeatedly, contact us.			-
3550	Parameter for the macro function was not specified.	The macro declared as a macro function is called without argument. Correct the program.			-
3600	Tracking motion command cannot use Sense parameter.	When the queue data is specified in Jump, Jump3, and Jump3CP statements, Sense parameter cannot be specified. Delete the Sense statement.			-
3601	Parameter type is mismatch for the external function '**'.	LJM parameter cannot be specified in BGo, TGo, Arc, Arc3, BMove, Move, and TMove statements. Delete the LJM parameter.			-
3602	Cannot specify LJM parameter.	InReal function cannot be used with Wait statement. Correct the program.			-
3603	InReal function cannot be used with Wait statement.	PerformMode parameter cannot be specified in Jump3, Jump3CP, Arc, Arc3, BMove, Move, and TMove statements. Delete the PerformMode parameter.			-
3605	Cannot specify PerformMode parameter.	LJM parameter cannot be specified in BGo, TGo, Arc, Arc3, BMove, Move, and TMove statements. Delete the LJM parameter.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3606	Cannot use the index.	Index number cannot be specified except List property in GSet and GGet statements. Correct the program.			-
3607	Invalid object index was specified.	Invalid index is specified in Objects property of VSet and VGet statements. The index must be larger than 1 and smaller than the number of objects in the specified sequence. Specify a proper index.			-
3608	Invalid control index was specified.	Invalid index is specified in Controls property of GSet and GGet statements. The index must be larger than 1 and smaller than the number of controls in the specified form. Specify a proper index.			-
3609	Modifier parameters are duplicated.	Force Guide data or CF parameter is duplicated in CVMove, FCKeep or other statement for robot motion. Correct the program.			-
3610	Cannot use a keyword for a label name.	A statement or function keyword is being used in the label name. Change the label name which does not use these keywords.			-
3611	Invalid sequence index was specified.	Please review the sequence index.			-
3613	Too many project files.	Reduce the number of project files.			-
3614	You cannot specify a string for Declare return data type.	Specify integer for Declare return data type other than a string. Also, if you want to require a string, specifie string integer as an argument, not return data type.			-
3615	Duplicate label name.	Duplicate label names have been specified in the command. Correct the program and point data definition so that label names are not duplicated.			-
3733	Vision sequence name or calibration name was not specified.	Vision sequence name or calibration name is not specified in VGet statements. Add a sequence name or calibration name.			-
3755	Tool definition type was not specified.	Specify argument for ToolType.			-
3759	Monitoring method was not specified.	Specify Monitoring Method for argument.			-
3763	TOOL was not specified.	Specify TOOL for argument.			-
3764	Correction type was not specified.	Specify the kind of correction for argument.			-
3765	Cnv was not specified.	Specify TOOL for argument.			-
3766	Index was not specified.	Specify the kind of correction for argument.			-
3767	SLS number was not specified.	Specify "Cnv" for argument.			-
3768	Index was not specified.	Specify index for argument.			-
3800	Compile process aborted.	Execute again.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3801	Link process aborted.	Execute again.			-
3802	Compile process aborted. Compile errors reached the maximum count.	Correct the error in the program and rebuild the project.			-
3803	Link process aborted. Link errors reached the maximum count.	Correct the error in the program and rebuild the project.			-
3804	Specified command cannot be executed from the Command window.	Declaration of variables and functions, program control statement, preprocessor commands, and some commands cannot be executed from the command window. For details, refer to "SPEL+ Language Reference - Appendix A：SPEL+ Command Use Condition List".			-
3805	Specified command can only be executed from the Command window.	Brake, SysConfig, Where, Cnv_QueList, and WorlQue_List statements can only be executed from the command window. Delete these statements from the program.			-
3806	Specified function cannot be executed from the Command window.	LogIn function cannot be executed from the command window even when used with Print statement. Use the function in the program.			-
3808	Specified syntax cannot be used in the current version.	LJM and PerformMode parameters of motion commands may not be specified depending on the compiler version. Check the compiler version in LJM parameter: 6.0.x.x. or later and PerformMode parameter: 7.0.4.x or later project properties.			-
3809	Module variables cannot be used in the command window.	Module variable cannot be accessed from the command window. Check the input command.			-
3812	Specified function cannot be used in remote user output.	Functions for condition expression of the user defined remote output are limited. Refer to "Epson RC+8.0 User’s Guide - User-defined Remote Output I/O" and specify a valid function.			-
3813	User-defined label, function and variables cannot be used in remote user output.	User defined label, function and variable cannot be used with condition expression of the user-defined remote output. Correct the condition expression.			-
3814	Object code size exceeds the limit value.	A combination of multiple statements exceeds the limit value of the intermediate code which can be executed at once (1024 bytes). Divide the statements.			-
3815	Parameter cannot be specified for property or status in the command window.	When executing FGet or MPGet statement from a command window, a parameter cannot be specified in a property or status. Delete the parameter and execute again.			-
3850	Execution file does not exist.	Do one of the following: - Rebuild the project. - Synchronize the project or transfer it via restore.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3851	Point file does not exist.	Failed to read the point file which configures the project. Check the project folder if the file exists.			-
3852	I/O label file does not exist.	Failed to read the I/O label file which configures the project. Check the project folder if the file exists.			-
3853	User error file does not exist.	Failed to read the user error label file which configures the project. Check the project folder if the file exists.			-
3854	Force file does not exist.	Failed to read the force file which configures the project. Check the project folder if the file exists.			-
3860	Unsupported I/O label file format.	Regenerate the I/O label file.			-
3861	Unsupported user error label file format.	Regenerate the user error file.			-
3862	Unsupported point file format.	Regenerate the point file.			-
3863	Unsupported vision project file format.	Regenerate the vision sequence.			-
3864	Unsupported GUI Builder project file format.	Regenerate the GUI Builder form.			-
3865	Unsupported OBJ file format.	Rebuild the project.			-
3866	Force file has unsupported file format.	Regenerate the force file.			-
3870	Cannot specify Mass Property Object.	Mass Property object cannot be specified in FSet, FGet, FDel, and FList statements, FDef, and FLabel$ functions. Correct the program.			-
3871	Cannot specify Force Coordinate System Object.	Force coordinate system object cannot be specified in Go, BGo, TGo, Jump, Jump3, Mode, BMove, TMove, Arc, Arc3 statements, MPSet, MPGet, MPDel, MPList statement, or MPDef, MPLabel$ functions. Correct the program.			-
3872	Cannot specify Force Control Object.	Force control object cannot be specified in Go, BGo, TGo, Jump, Jump3, MPSet, MPGet MPDel, or MPList statements, or MPDef, MPLabel$ functions. Correct the program.			-
3873	Cannot specify force motion restriction object.	Force monitor object cannot be specified in MPSet, MPGet, MPDel, or MPList statements, or MPDef, MPLable$ functions. Correct the program.			-
3874	Cannot specify Force Trigger Object.	Force trigger object cannot be specified in MPSet, MPGet, MPDel, or MPList statements, or MPDef, MPLable$ functions. Correct the program.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3875	Cannot specify Force Sensor object.	Force Sensor object cannot be specified in FDel, FList statement, FDef, or FLabel$ functions, MPSet, MPGet, MPDel, or MPList statements, or MPDef, MPLabel$ functions. Correct the program.			-
3876	Cannot specify Robot object.	Robot object cannot be specified in FDel, FList statements, FDef, FLabel$ functions, MPSet, MPGet, MPDel, or MPList statements, or MPDef, MPLabel$ functions. Correct the program.			-
3877	Cannot specify Force Control Object and Force Coordinate System Object at the same time.	Force control object and Force coordinate system object cannot be specified at the same time in FCSMove statement. Correct the program.			-
3878	Cannot specify CF parameter.	CF parameter cannot be specified in Go, BGo, TGo, Jump, Jump3. Delete the CF parameter.			-
3879	Cannot specify Mass Property Object label.	Mass property object label cannot be specified in MPDel, and MPList statements. Correct the program.			-
3880	Cannot specify Force Coordinate System Object label.	Force coordinate system object label cannot be specified in FDel and FList statements. Correct the program.			-
3881	Cannot specify Force Control Object label.	Force control object label cannot be specified in FDel and FList statements. Correct the program.			-
3882	Cannot specify Force Monitor Object label.	Force monitor object label cannot be specified in FDel and FList statements. Correct the program.			-
3883	Cannot specify Force Trigger Object label.	Force trigger object label cannot be specified in FDel and FList statements. Correct the program.			-
3884	Cannot specify Force Sensor Object label.	Do one of the following: - Review the program. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
3885	Cannot specify Mass Property Object number.	Mass property object number cannot be specified in MPNumber function. Correct the program.			-
3886	Cannot specify Force Coordinate System Object number.	Force coordinate system object number cannot be specified in FNumber function. Correct the program.			-
3887	Cannot specify Force Control Object number.	Force control object number cannot be specified in FNumber function. Correct the program.			-
3888	Cannot specify Force Monitor Object number.	Force monitor object number cannot be specified in FNumber function. Correct the program.			-
3889	Cannot specify Force Trigger Object number.	Force trigger object number cannot be specified in FNumber function. Correct the program.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3890	Cannot specify Force Sensor Object number.	Do one of the following: - Review the program. - If this error continues to occur, contact us.			-
3891	Type of the specified two objects does not match.	The data type for the first and the second parameters do not match in FDel, FList, MPDel, or MPList statements. Correct the program.			-
3894	Cannot specify Force Motion Restriction Object label.	The force motion restriction object label cannot be specified in the FDel and FList statements. Correct the program.			-
3900	Cannot obtain the internal communication buffer.	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
3901	Could not allocate buffer size.	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
3910	An undefined statement was specified.	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
3911	Cannot enter the file name in the file name buffer.	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
3912	Could not obtain the internal buffer.	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
3913	Could not set priority.	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
3914	Intermediate code error (function ID).	Rebuild the project.			-
3915	Intermediate code error (Preserve variable ID).	Rebuild the project.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3916	Intermediate code error (global variable ID).	Rebuild the project.			-
3917	Intermediate code error (local variable ID).	Rebuild the project.			-
3919	Intermediate code error (string).	Rebuild the project.			-
3921	Intermediate code error (row header).	Rebuild the project.			-
3930	VDefTool Type ID is not specified.	Specify a numerical value for VDefTool command 2nd parameter.			-
3931	VDefArm Type ID is not specified.	Specify a numerical value for VDefArm command 2nd parameter.			-
3932	VDefArm ArmSetMode is not specified.	Specify a numerical value for VDefArm command 3rd parameter.			-
3933	VDefLocal Type ID is not specified.	Specify a numerical value for VDefLocal command 2nd parameter.			-
3934	VDefLocal CalibPlate Type ID is not specified.	Specify a numerical value for VDefLocal command 3rd parameter.			-
3940	LatchPos Type ID is not specified.	Specify a numerical value for LatchPos command 1st parameter.			-
3945	Feeder name is not specified.	Command syntax is incorrect. Check the description of the command in "Part Feeding 8.0 Introduction & Hardware (Common) & Software - Part Feeding SPEL+ Command Reference" and modify the code.			-
3946	Object ID was not specified.	Command syntax is incorrect. Check the description of the command in "Part Feeding 8.0 Introduction & Hardware (Common) & Software - Part Feeding SPEL+ Command Reference" and modify the code.			-
3947	Property ID was not specified.	Command syntax is incorrect. Check the description of the command in "Part Feeding 8.0 Introduction & Hardware (Common) & Software - Part Feeding SPEL+ Command Reference" and modify the code.			-
3948	Property ID was not specified.	Command syntax is incorrect. Check the description of the command in "Part Feeding 8.0 Introduction & Hardware (Common) & Software - Part Feeding SPEL+ Command Reference" and modify the code.			-
3949	PartOrient was not specified.	Command syntax is incorrect. Check the description of the command in "Part Feeding 8.0 Introduction & Hardware (Common) & Software - Part Feeding SPEL+ Command Reference" and modify the code.			-
3960	Neither the robot name, object name or ResetCollision were specified.	Do one of the following: - Specify a robot name. - Specify an object name. - Specify ResetCollision.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
3961	Neither hand nor property were specified.	Do one of the following: - Specify the hand name. - Specify a property name.			-
3962	An invalid vision property was specified.	Check the property name.			-
3963	Neither the robot name nor object name were specified.	Do one of the following: - Specify a robot name. - Specify an object name.			-
3964	Invalid simulation object was specified.	Do one of the following: - Check the specified simulation object. - Recreate the simulation object.			-
3965	Invalid object index was specified.	Do one of the following: - Check the specified simulation object index. - Create the simulation object in the specified index.			-
3990	Analog I/O TCPSpeed Type is not specified.	Specify a numerical value for AIOSet command 3rd parameter.			-

2.5 Code Number 4000 ~

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
4001	Arm reached the limit of motion range.	Check the point to move, current point, and Range setting.			Stop task
4002	Specified parameter is out of allowable range.	Review the setting parameters.		Parameter value out of allowable range.	Stop task
4003	Motion device driver failure. Communication error within the motion control module.	Do one of the following: - Reboot the Controller. - Reinstall the controller firmware. - Replace the controller.			Stop task Reset Reboot
4004	Motion device driver failure. Event waiting error within the motion control module.	Do one of the following: - Reboot the Controller. - Reinstall the controller firmware. - Replace the controller.			Reboot
4005	Current point position is above the specified LimZ value.	Do one of the following: - Lower the Z axis. - Increase the specified LimZ value.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
4006	Target point position is above the specified LimZ value.	Do one of the following: - Lower the Z coordinate position of the target point. - Increase the specified LimZ value.			Stop task
4007	Coordinate conversion error. The end-/mid-point is out of the motion area. Jogging to the outside of the motion area.	Check whether the coordinate out of the motion range is not specified.			Stop task
4008	Current point position or specified LimZ value is out of motion range.	Change the specified LimZ value.			Stop task
4009	Motion device driver failure.Timeout error within motion control module.	Do one of the following: - Reboot the Controller. - Reinstall the controller firmware. - Replace the controller.			Stop task
4010	Specified Local coordinate was not defined.	Define the Local coordinate system.		Local number	Stop task
4011	Arm reached the limit of XY motion range specified by XYLim statement.	Check the area limited by the XYLim statement.			Stop task
4012	Upper limit value of Box is smaller than lower limit value.	Set the upper limit value to be larger than the lower limit value.			Stop task
4013	Arch motion timing calculation failed.	Do one of the following: - Check and modify Arch parameter - Disable Arch			Stop task
4014	MCal incomplete.	Do one of the following: - Execute MCal. - Make sure the MCordr is set for the joint connected to the PG board.			Stop task
4016	SFree statement was attempted for prohibited joint(s).	Due to robot mechanistic limitation, setting some joint(s) to servo free status is prohibited. Check the robot specifications.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
4018	Communication error within the motion control module. Checksum error detected.	Do one of the following: - Reboot the Controller. - Reinstall the controller firmware. - Replace the controller.			Stop task
4021	Point positions used to define the Local are too close.	Set the distance between points to more than 1µm.			Stop task
4022	Point coordinate data used to define the Local is invalid.	Match the coordinate data for the points to be specified.			Stop task
4023	A process that is unavailable while the motor is off was attempted.	Turn the motor power ON and then execute the motion command.			Stop task
4024	Cannot complete the arm positioning using the current Fine specification.	Do one of the following: - Check whether the robot does not generate vibration or all parts and screws are secured firmly. - Increase the Fine setting value.			Stop task
4025	Cannot execute a motion command during emergency stop.	Cancel the emergency stop.			Stop task
4026	Communication error within the motion control module. Servo I/F failure detected.	Do one of the following: - Reboot the Controller. - Reinstall the controller firmware. - Replace the controller.			Stop task
4027	Communication error within the motion control module. Checksum error detected.	Do one of the following: - Reboot the Controller. - Reinstall the controller firmware. - Replace the controller.			Stop task
4028	Communication error within the motion control module. Device driver status failure detected.	Do one of the following: - Reboot the Controller. - Reinstall the controller firmware. - Replace the controller.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
4029	Communication error within the motion control module. Device driver status failure detected.	Do one of the following: - Reboot the Controller. - Reinstall the controller firmware. - Replace the controller.			Stop task
4030	Buffer for average torque calculation has overflowed.	Shorten the time interval from ATCLR to ATRQ to less than about two minutes.			Stop task
4031	Cannot execute a motion command when the motor is off.	Turn the motor on.			Stop task
4032	Cannot execute a motion command when one or more joints are in SFree state.	Set all joints to the SLock state and execute the motion command.			Stop task
4033	The specified command is not supported for PG board joints.	The specified command is not permitted for the joints with PG board.			Stop task
4034	Specified command is not supported for this robot model.	Remove the unsupported command from the program.			Stop task
4035	Only the tool orientation was attempted to be changed by the CP statement.	Do one of the following: - Set a move distance between points. - Use the ROT modifier, SpeedR statement, and AccelR statement.			Stop task
4036	Tool orientation rotation speed via the CP statement is too fast.	Do one of the following: - Decrease the setting values for the SpeedS and AccelS statements. - Use the ROT modifier, SpeedR statement, and AccelR statement.			Stop task
4037	The point attribute of the current and target point positions differ for executing a CP control command.	Match the point attribute.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
4038	Two point positions are too close to execute the Arc statement.	Set the distance between points to more than 1μm.			Stop task
4039	The arc generated by the Arc statement is a straight line.	Use the Move statement.			Stop task
4041	Motion command to the prohibited area at the backside of the robot was attempted.	Check the robot motion range.			Stop task
4042	Motion device driver failure. Cannot detect the circular format interruption.	Do one of the following: - Reboot the Controller. - Initialize the controller firmware. - Replace the controller.			Stop task
4043	Specified command is not supported for this robot model or joint type.	Remove the unsupported command from the program.			Stop task
4044	Curve failure. Specified curve form is not supported.	Create a Curve file again with the Curve statement.			Stop task
4045	Curve failure. Specified mode is not supported.	Specify the Curve mode properly. Create a Curve file again with the Curve statement.			Stop task
4046	Curve failure. Specified coordinate number is out of the allowable range.	The number of the available coordinate axes is 2, 3, 4, and 6. Create a Curve file again with the Curve statement.			Stop task
4047	Curve failure. Point data was not specified.	Create a Curve file again with the Curve statement.			Stop task
4048	Curve failure. Parallel process was specified before the point designation.	Create a Curve file again with the Curve statement.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
4049	Curve failure. Number of parallel processes is out of the allowable range.	Create a Curve file again with the Curve statement.			Stop task
4050	Curve failure. Number of points is out of the allowable range.	The number of available point numbers differs according to the curve form. Check the number of points again. There may be multiple identical points. Check the point data.			Stop task
4051	Curve failure. Local attribute and point attribute of all specified points do not match.	Match the local and point flag for all the specified points.	What number of the local or position flag does not match?		Stop task
4052	Curve failure. Not enough memory to format the curve file.	Reboot the Controller.			Stop task
4053	Curve failure. Failed to format the curve file.	Check the point data. Check if the adjacent two points do not overlap on the specified point line.			Stop task
4054	Curve failure. Curve file error.	The Curve file is corrupt. Create a Curve file again with the Curve statement.			Stop task
4055	Curve failure. No distance for Curve file movement.	Check the point data.			Stop task
4056	Curve failure. Point positions for the Curve statement are too close.	Set the distance between two points adjacent to the specified point to more than 0.001 mm.			Stop task
4058	Prohibited command executed during tracking.	Delete Prohibited commands from the program.			Stop task
4059	Executed encoder reset command while the motor was on.	Turn the motor power off.			Stop task
4060	Executed an invalid command while the motor was on.	Turn the motor power off.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
4061	Specified parameter is in use.	You attempted to clear the currently specified Arm and Tool. Select other Arm and Tool and execute.			Stop task
4062	Orientation variation is over 360 degrees.	Attempted to rotate J6 more than 360 degrees with a CP motion command.			Stop task
4063	Orientation variation of adjacent point is over 90 degrees.	On the specified point line by the Curve statement, set the orientation variation of U, V, and W coordinate values between two adjacent points to under 90 degrees.	What number indicates the largest change in posture for the input point?		Stop task
4064	Cannot execute the orientation correction automatically.	On the specified point line, a curve cannot be created by automatic orientation correction. Change the specified point line so that the joint #J6 orientation variation decreases.	What number failed to automatically correct the posture of the entered point?		Stop task
4065	Attempted to revolve J6 one rotation with the same orientation in CP statement.	Attempted to rotate J6 more than 360 degrees with a CP motion command. One J6 rotation was attempted with the same as motion as in start orientation. Change the target point so that the J6 revolves less than once.			Stop task
4066	Motion command was attempted in the prohibited area dependent on joint combination.	You attempted to move the joints to the robot's interference limited area.			Stop task
4068	ROT modifier parameter was specified for the CP motion command without orientation rotation.	Delete the ROT from the CP motion command.			Stop task
4069	ECP specified without selecting ECP in CP statement.	Specify a valid ECP.			Stop task
4070	Specified ECP number does not match the ECP number used in curve file creation.	Specify a valid ECP.			Stop task
4071	Motion command attempted while electromagnetic brake lock was active.	Release the electromagnetic brake.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
4073	Orientation variation of adjacent point is over 90 degrees.	Any of U, V, or W changes 90 degrees or more. Change the point or the orientation.			Stop task
4074	Motor type does not match the current robot setting.	Check whether the specified robot model is connected.			Reboot
4075	Option not enabled.	Enable the option.			Stop task
4076	Point positions used to define the Plane are too close.	Set the distance between points to more than 1μm.			Stop task
4077	Point coordinate data used to define the Plane is invalid.	Check the coordinate data for the points to be specified.			Stop task
4078	Only the additional ST axis was attempted to be changed by the CP statement.	Use PTP motion commands in to move the additional axis only.			Stop task
4079	Speed of additional ST axis by the CP statement is too fast.	Reduce the SpeedS and AccelS setting values.			Stop task
4080	Cannot execute when enable switch is off.	Turn the Enable Switch ON and then execute.			Stop task
4081	Error occurred during MCal operation.	Do one of the following: - Check the PG board. - Check the connection with the motor driver. - Replace the PG board. - Replace the controller.			Stop task
4082	PG board error was detected during MCal operation.	Do one of the following: - Check the PG board. - Check the connection with the motor driver. - Replace the PG board.			Stop task
4083	MCal did not complete in time.	Set PG parameter so that MCal can complete within 120 seconds.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
4084	Limit Sensor error was detected during MCal operation.	Check the limit sensor.			Stop task
4085	Failed to change to specified coordinates.	Do one of the following: - Reboot the Controller. - Reinstall the controller firmware. - Replace the controller.			Stop task
4086	Cannot execute because it is not dry run mode.	Change to the dry run mode and execute.			Stop task
4087	Failed to format the playback file.	Do one of the following: - Check if there is sufficient PC drive space. - Reboot the PC. - Reinstall Epson RC+. - Replace the PC.			Stop task
4088	Buffer for the average speed calculation is saturated.	Shorten the time interval from AvgSpeedClear to AvgSpeed.			Stop task
4089	The time interval from HealthRBStart to HealthRBStop is too long or too short.	Set the time interval from HealthRBStart to HealthRBStop to be within 1 to 3600 seconds.			Stop task
4090	HealthRBStop is executed without HealthRBStart.	Execute HealthRBStop after executing HealthRBStart. This error also occurs when HealthRBStop is executed again without executing HealthRBStart after HealthRBStop.			Stop task
4091	Specified analog I/O channel does not exist.	Do one of the following: - Check the channel number. - Mount the analog I/O option board.			Stop task
4092	Specified analog output channel is used for speed data output.	Execute after stopping the speed output of the specified channel.			Stop task
4093	If motion is paused while avoiding the singularity, it cannot be resumed.	Abort the motion. If SF_LimitSpeedSEnable is On, this error may occur. SF_LimitSpeedSEnable is On by default. Turn it Off. For details, refer to "SPEL+ Language Reference - SF_LimitSpeedSEnable".			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
4094	The current position is out of the motion range.	Either J1 or J2 axis is out of motion range. Follow either of the procedures below and move the robot within the motion range. - Use Pulse command and JTran to move the robot within the motion range. - Move the robot within the motion range manually. (This error only occurs on RS and N series.)			Stop task
4096	Robot in use. Cannot execute motion command when another task is using the robot.	The motion command for the robot cannot be simultaneously executed from more than one task. Review the program. This error cannot be recovered automatically by OnErr.			Stop task
4097	Arm length calibration parameter setting failure.	Make sure that the horizontal distance is within ± 0.75 mm of the default arm length and the offset angle of the joint is within ± 2°.	Parameter number	1000 times larger of the set value	Stop task
4099	Servo error was detected during operation.	Check if a 5000-number error is occurring in the system history. If the error is occurring, implement measures for a 5000-number error.			Reboot
4100	Communication error in motion control module. Cannot calculate the current point or pulse.	Do one of the following: - Reboot the Controller. - Reinstall the controller firmware. - Replace the controller.			Reboot
4101	Communication error in the motion control module. Cannot acquire the current point or pulse.	Do one of the following: - Reboot the Controller. - Reinstall the controller firmware. - Replace the controller.			Reboot
4104	Positioning timeout of the joint connected to the PG board.	Cannot receive the positioning completion signal (DEND) from the servo motor connected to PG board.			Reboot
4152	Main circuit relay welding error detected.	A relay welding error was detected due to power system overcurrent. Do one of the following: - Replace the controller. - Replace the robot.			Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
4154	Temperature of regeneration resistor was higher than the specified temperature.	Robot's Duty is too high. Do one of the following: - Lengthen the waiting time or reduce the Accel value. - If the error occurs although Duty was lowered, replace the DPU.			Reboot
4210	RAS circuit detected a servo system failure.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot
4211	Servo CPU RAM failure.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot
4212	Communication RAM failure between main CPU and servo CPU.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot
4213	Servo CPU RAM failure.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot
4214	Initialization communication failure between main CPU and servo CPU.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot
4215	Initialization communication failure between main CPU and servo CPU.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot
4216	Communication failure between main CPU and servo CPU.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot
4217	Communication failure between main CPU and servo CPU.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot
4218	Servo long time command overrun.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
4219	Servo long time command checksum error detected.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot
4220	System watchdog timer detected a failure.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot
4221	Drive unit check failure.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot
4222	Servo CPU RAM failure.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot
4223	Emergency stop/safeguard (safety fence) redundancy circuit failure.	Check the wiring of the emergency stop or the safeguard (safety fence).			Reboot
4224	Low voltage detected at main circuit power source.	Do one of the following: - Check the power supply voltage. - Reboot the Controller.			Reboot
4225	Main circuit power supply control relay contact is welded.	Replace the DPU.			Reboot
4230	Servo real time status failure. Checksum error detected.	A data checksum error was detected in the controller. Do one of the following: - Check the short-circuit and improper connection of the peripheral equipment wiring. (Emergency, D-I/O, and Expansion I/O connectors) - Replace the controller.			Reboot
4232	Servo real time status failure. Servo free running counter error.	A free running counter error was detected in the controller. Do one of the following: - Check the short-circuit and improper connection of the peripheral equipment wiring. (Emergency, D-I/O, and Expansion I/O connectors) - Replace the controller.			Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
4241	Over speed in low power mode detected.	Robot over speed detected in low power mode. Do one of the following: - For CP motion, decrease the SpeedS value. - Check the robot mechanism. (Smoothness, backlash, non-smooth motion, loose belt tension, brake) - Check the interference between the robot and peripheral equipment. (Collision, contact) - Check peripheral equipment wiring for short circuits and improper connections. (Emergency, D-I/O, and Expansion I/O connectors) - Replace the motor driver. - Replace the motor. (Motor, encoder failure)			Reset
4242	Improper acceleration reference generated.	Robot operation was attempted with the acceleration reference exceeding the specified value. Do one of the following: - For CP motion, decrease the AccelS value. - When using a conveyor, also reduce the Cnv_Accel value. - Use the command AvoidSingularity SING_VSD. - With [Connect to CP motion and PTP motion when CP is ON] in the controller configuration settings enabled, turn CP off when attempting to connect to CP and PTP motion.			Reset
4243	Improper speed reference was generated in high power mode.	Robot over speed detected during high power mode. Do one of the following: - Decrease the Speed and SpeedS values. - Use the command AvoidSingularity SING_VSD. - With [Connect to CP motion and PTP motion when CP is ON] in the controller configuration settings enabled, turn CP off when attempting to connect to CP and PTP motion.			Reset
4244	Improper acceleration reference was generated when VRT function was used.	Robot operation was attempted with the acceleration reference exceeding the specified value. Decrease the Accel and AccelS values.			Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
4245	Improper speed reference was generated when VRT function was used.	Robot operation was attempted with the speed reference exceeding the specified value. Decrease the Accel and AccelS or Speed and SpeedS values.			Reset
4246	A route error occurred when the VRT function was used.	Modify the VRTPram1 and VRTPram2 values, or disable the VRT function.			Reset
4247	An internal operation error occurred when the VRT function was used.	Modify the VRTPram1 and VRTPram2 values, or disable the VRT function.			Reset
4248	The robot collides with itself.	Set a relay point. Or change the target point.			Reset
4249	Improper reference detected.	Reduce the Accel value.			Reset
4250	Arm reached the limit of motion range during the operation.	Check if the CP motion trajectory is within the motion range.			Reset
4251	Arm reached the limit of XY motion range specified by XYLim during the operation.	Check the XYLim setting.			Reset
4252	A coordinate conversion error occurred.	Check if it is within the motion range.			Reset
4255	SpeedS is too high. Robot cannot pass particular elbow orientation.	Reduce the SpeedS value.			Reset
4256	Stop or pause executed when a robot passed particular elbow orientation.	Do not execute Stop or Pause.			Reset
4257	The robot attempted to pass the elbow singularity area.	The robot cannot pass the elbow singularity area. To pass the elbow singularity area, use AvoidSingularity SING_AVOID.			Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
4261	The Arm reached the limit of motion range in conveyor tracking.	Place the conveyor inside the motion range. Meanwhile, allow the tracking range for the deceleration when switching from tracking motion to non-tracking. If error occurs during the shift from tracking motion, it may be prevented by increasing the accel speed to complete the tracking motion.			Reset
4262	The Arm reached the limit of XY motion range in conveyor tracking.	Place the conveyor inside the motion range. Meanwhile, allow the tracking range for the deceleration when switching from tracking motion to non-tracking. If error occurs during the shift from tracking motion, it may be prevented by increasing the accel speed to complete the tracking motion.			Reset
4263	The Arm reached the limit of pulse motion range in conveyor tracking.	Place the conveyor inside the motion range. Meanwhile, allow the tracking range for the deceleration when switching from tracking motion to non-tracking. If error occurs during the shift from tracking motion, it may be prevented by increasing the accel speed to complete the tracking motion.			Reset
4267	Attempted to exceed the J4Flag attribute without indication.	Attempted to exceed the J4Flag attribute during motion without the J4Flag indication. Change the J4Flag for the target point.			Reset
4268	Attempted to exceed the J6Flag attribute without indication.	Attempted to exceed the J6Flag attribute during motion without the J6Flag indication. Change the J6Flag for the target point.			Reset
4269	Attempted to exceed the particular wrist orientation attribute without indication.	Attempted to exceed the particular wrist orientation attribute during motion without the Wrist indication. Do one of the following: - Change the Wrist attribute for the target point. - Change the target point to avoid a particular orientation.			Reset
4270	Attempted to exceed the particular arm orientation attribute without indication.	Attempted to exceed the particular hand orientation attribute during motion without the Hand indication. Do one of the following: - Change the Hand attribute for the target point. - Change the target point to avoid a particular orientation.			Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
4271	Attempted to exceed the particular elbow orientation attribute without indication.	Attempted to exceed the particular elbow orientation attribute during motion without the Elbow indication. Do one of the following: - Change the Elbow attribute for the target point. - Change the target point to avoid a particular orientation.			Reset
4272	Specified point flag is invalid.	For a CP motion command, the arm form at the target point is different from the point flag specified with the target point. Change the point flag for the target point.			Reset
4273	J6Flag switched during the lift motion in conveyor tracking.	Adjust the tool orientation so that J6Flag will not switch.			Reset
4274	Specified J6Flag not reached. Change J6Flag for target point.	For a CP motion command, the manipulator reached the target point with J6Flag which differs from the one specified for the target point. Change the J6Flag for the target point.			Reset
4275	Specified J４Flag not reached. Change J6Flag for target point.	For a CP motion command, the manipulator reached to the target point with J4Flag which differs from the one specified for the target point. Change the J4Flag for the target point.			Reset
4276	Specified ArmFlag not reached. Change ArmFlag for target point.	For a CP motion command, the manipulator reached the target point with ArmFlag which differs from the one specified for the target point. Change ArmFlag for the target point.			Reset
4277	Specified ElbowFlag not reached. Change ElbowFlag for target point.	For a CP motion command, the manipulator reached the target point with ElbowFlag which differs from the one specified for the target point. Change ElbowFlag for the target point.			Reset
4278	Specified WristFlag not reached. Change WristFlag for target point	For a CP motion command, the manipulator reached the target point with WristFlag which differs from the one specified for the target point. Change WristFlag for the target point.			Reset
4279	Specified J1Flag not reached. Change J6Flag for target point.	For a CP motion command, the manipulator reached to the target point with J1Flag which differs from the one specified for the target point. Change the J1Flag for the target point.			Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
4299	Enable switch turned off during torque control.	Perform a safety check of the robot and peripheral equipment before resuming.			Reset
4301	The PG board detected a limit signal.	Reset and then execute the next motion.			Reset
4302	The PG board detected an alarm signal.	Release the alarm of the pulse motor driver.			Reset
4401	The specified conveyor number is invalid.	Review the conveyor number.			Stop task
4402	Cannot register to queue.	The number of registration reached the upper limit (1000 pcs.) Delete the queue.			Stop task
4403	Continued operation not available during tracking.	Tracking motion cannot be continued after aborted/paused? If SF_LimitSpeedSEnable is On, this error may occur. SF_LimitSpeedSEnable is On by default. Turn it Off. For details, refer to "SPEL+ Language Reference - SF_LimitSpeedSEnable".			Stop task
4404	Queue data does not exist.	Review the queue number. Or, check whether the queue is registered.			Stop task
4405	The conveyor is not correctly initialized.	Rebuild the project. Delete the conveyor and then reestablish the setting.			Stop task
4406	The specified queue data is outside the set area.	The queue outside of the range cannot be tracked. If the specified queue is above the upstream limit, change the program so that tracking does not start until the queue enters the area below the upper limit. If the specified queue is below the downstream limit, change the program to delete the queue data.			Stop task
4407	The encoder is not set.	Set the encoder.			Stop task
4409	The conveyor instruction parameter is invalid.	Review the parameter.			Stop task
4410	A conveyor coordinate conversion error occurred.	Do one of the following: - Rebuild the project. - Delete the conveyor and then reestablish the setting.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
4411	Communication error within conveyor motion modules.	Do one of the following: - Reboot the Controller. - Reinstall the controller firmware. - Replace the controller.			Stop task
4413	Conveyor tracking starting error.	Do one of the following: - Reboot the Controller. - Reinstall the controller firmware. - Replace the controller.			Stop task
4414	Conveyor tracking cannot with CP ON.	Start the conveyor tracking with CP OFF.			Stop task
4415	The setting of Diagonal Upstream Limit or Diagonal Downstream Limit is not appropriate.	The diagonal downstream limit is above the upstream limit, or the diagonal upstream/downstream limit is horizontal to the conveyor direction. Review the setting of diagonal upstream/downstream limit.			Stop task
4416	Robot cannot track the specified conveyor queue.	Increase the operating speed and the acceleration of the robot.			Stop task
4500	The specified functions cannot be executed simultaneously. Note 1, 2: Function type	Review the program.	Function type 1: external control point motion (ECP) 2: Torque control 3: Conveyor tracking 4: Force control 5: FCSMove 6: Distance tracking function 7: Enable additional arm 8: Pass motion 9: Jump3 10: CP motion command 11: ROT 12: SF_LimitSpeedSEnable 100: VRT option 101: Low vibration function 102: Excess eccentricity setting	Function type*Same as Note 1	Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
4501	Device in use. Note 1: Device type	Check whether the device is used in other task or command.	Device type 1: Analog I/O input channel		Stop task
4502	Cannot execute this command during control. Note 1: Control function type	Check whether the control function is executed in other task or command Exit the control function to execute the command.	Control function type 1: Distance tracking function 2: Conveyor tracking 3: CVMove		Stop task
4503	Undefined parameter. Note 1: Parameter type	Check whether the parameter is set. Set the parameter.	Parameter type 1: Distance tracking function parameter		Stop task
4505	Motor cannot be turned on because the Safety board is issuing a stop signal.	Do one of the following: - Check Code 27, 28 and the following section, then reset the Safety board stop signal. **Details of Note Information** - Terminate the Safety Function manager and reset the controller. - Reboot the Controller.			Reset Reboot
4506	Motion calculation error in controller.	Do one of the following: - Reboot the Controller. - Reinstall the controller firmware. - Replace the controller.			Reboot Stop task
4511	Area number is undefined.	Define the area.			Stop task
4512	Invalid reference point. Check Note 1: Type of error.	Check the reference points and teaching points referring to Notes.	Error type 1: Number of reference points does not match 2: Contains points that differ from the point flag 3: Reference point contains duplicated points 4: Not enough reference points 5: Do not place the reference point on a straight line for plane correction 6: Do not place the reference point on the same plane for three-dimensional correction		Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
			7: Specify points on the same plane for plane correction 8: Contains orientations that cannot be corrected 9: Corresponding reference points have significantly different orientations 10: Corresponding reference point positions are significantly different		
4513	Invalid input point. Check Note 1: Type of error.	Check the input point.	Error type 1: Point flags differ 2: The reference point and input point orientations are different		Stop task
4514	Orientation changes of the points taught in the Tool Wizard is too small.	Review the orientation to specify in Tool Wizard. When orientation variation is too small, tool cannot be set.			Stop task
4520	The radius specified in the Arc statement is too short, and an arc cannot be created.	Specify a radius length that is at least half the distance from the current coordinate to the target coordinate.			Stop task
4521	The three points specified in the Arc statement are on a straight line and an arc cannot be identified.	When specifying three points on a straight line in the Arc statement, place a center coordinate between the current and target coordinates. If the current, target, and center coordinates are on a straight line in the Arc3 statement, a plane that runs on an arc cannot be identified. Use the route coordinate specification method Arc3 command.			Stop task
4522	The angle specified in the Arc statement is out of range.	Specify an angle larger than -360 degrees and less than 360 degrees. Also, 0 cannot be specified.			Stop task
4602	Motion calculation error.	Do one of the following: - Reboot the Controller. - Reinstall the controller firmware. - Replace the controller.			Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
4603	Sensor value is out of range.	Do one of the following: - Check the measured value by the sensor. - Check the status of the sensor. - Check the range setting of the sensor. - When Note 1 is 1 (sensor used by the distance tracking function), check and adjust the parameter specified by AIO_TrackingStart or AIO_TrackingSet.	Sensor type 1: Sensor used by the distance tracking function		Reset
4604	Approached the singularity point.	Do one of the following: - Check whether the coordinates near the singularity is specified. - Check whether the robot moves closer to the singularity during the operation. - Review the installation position of the robot.			Reset

2.6 Code Number 5000 ~

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
5000	Servo control gate array failure.	Do one of the following: - Check the short-circuit and improper connection of the peripheral equipment wiring. (Emergency and I/O connectors) - Replace the main board. - Replace the additional axis unit.			Reboot
5002	Motor driver not mounted.	Do one of the following: - Check whether the motor driver is mounted. - Check the model setting and hardware setting. - Replace the motor driver. - Replace the MAIN board.			Reboot
5005	Encoder division setting failure.	Check the model setting.			Reboot
5007	Encoder multi-turn beyond maximum range.	Do one of the following: - Reset the encoder. - Replace the motor.			Reboot
5008	Position is out of range.	Do one of the following: - Reset the encoder. - Replace the MAIN board. - Replace the motor.			Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
5009	No encoder response.	Do one of the following: - Check the model setting. - Check the signal cable connection. - Replace the main board and encoder I/F board.			Reboot
5010	Failed to initialize encoder.	Do one of the following: - Reboot the Controller. - Check the robot configuration. - Check the signal cable connection. - Replace the main board and encoder I/F board.			Reboot
5011	Failed to communicate with encoder.	Do one of the following: - Reboot the Controller. - Check the robot configuration. - Check the signal cable connection. - Replace the main board and encoder I/F board.			Reboot
5012	Servo CPU watchdog timer detected a failure.	Do one of the following: - Reboot the Controller. - Check the noise countermeasure. - Replace the MAIN board.			Reboot
5013	Current control circuit WDT detected a failure.	Do one of the following: - Reboot the Controller. - Check the power cable connection. - Check the 15V power supply and cable connection. - Check the noise countermeasure. - Replace the MAIN board.			Reboot
5014	The main board is not compatible with the robot.	Do one of the following: - Check the robot configuration. - Replace it with a main board that is compatible with the robot.			Reboot
5015	The encoder was reset.	Reboot the Controller.			Reboot
5016	Encoder data backup power supply failure.	Do one of the following: - Check the signal cable connection. - Replace the encoder batteries and reset the encoder.			Reboot
5017	Encoder data backup data failure.	Do one of the following: - Reset the encoder. - Check the signal cable connection.			Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
5019	Encoder position failure.	Do one of the following: - Reset the encoder. - Replace the motor. (Encoder failure)			Reboot
5020	Speed is too high when encoder power supply is on.	Do one of the following: - Check the interference with the other devices. - Check that robot operation has been stopped and reboot the Controller. - Reset the encoder.			Reboot
5022	R/D transducer failure.	Do one of the following: - Check the signal wiring of the manipulator (loose pin, disconnection, short). - Reset the encoder.			Reboot
5023	G sensor communication failure.	Do one of the following: - Check the signal wiring connection. - Check the signal wiring of the manipulator (loose pin, disconnection, short). - Check the noise countermeasures. - Replace the control board. - Replace the MAIN board.			Reboot
5024	G sensor data failure.	Replace the control board.			Reboot
5025	The multi rotational data and the R/D conversion data is different.	Check the noise countermeasure.			Reboot
5026	Resolver excitation signal disconnected.	Do one of the following: - Check the signal wiring of the manipulator (loose pin, disconnection, short). - Reset the encoder.			Reboot
5027	S-DSP detected the communication error in DSP.	Do one of the following: - Reboot the Controller. - Check the noise countermeasure. - Replace the MAIN board.			Reboot
5028	Current feedback data error detected.	Do one of the following: - Reboot the Controller. - Check the noise countermeasure. - Replace the MAIN board.			Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
5029	D-DSP communication failure.	Do one of the following: - Reboot the Controller. - Check the noise countermeasure. - Replace the MAIN board.			Reboot
5030	Speed is too high when encoder power supply is off.	Do one of the following: - Reset the encoder. - Replace the motor.			Reboot
5031	Encoder speed is too high.	Do one of the following: - Reset the encoder. - Replace the motor.			Reboot
5032	Servo alarm A.	Reboot the Controller.			Reboot
5033	Failed to initialize G sensor.	Do one of the following: - Reboot the Controller. - Check the signal cable connection. - Check the noise countermeasure.			Reboot
5034	Encoder reset failed.	Do one of the following: - Reboot the Controller. - Reset the encoder again. - Check the signal cable connection. - Replace the motor. (Encoder failure) - Check the noise countermeasures.			Reboot
5040	Motor torque output failure in high power state.	Do one of the following: - Specify the Weight/Inertia setting. - Check the load. - Check the model setting. - Check the robot. (Smoothness, backlash, non-smooth motion, loose belt tension, brake, belt teeth skipping) - Check interference with peripheral equipment. (Collision, contact) - Check the power cable connection. - Check the robot power wiring. (loose pin, disconnection, short). - Check power supply voltage. (Low power supply voltage) - Replace the motor driver. - Replace the MAIN board. - Replace the motor.			Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
5041	Motor torque output failure in low power state.	Do one of the following: - Check the model setting. - Check the robot. (Smoothness, backlash, non-smooth motion, loose belt tension, brake) - Check interference with peripheral equipment. (Collision, contact) - Check the power cable connection. - Check the robot power wiring. (loose pin, disconnection, short). - Check power supply voltage. (Low power supply voltage) - Replace the motor driver. - Replace the MAIN board. - Replace the motor.			Reset
5042	Position error overflow in high power state.	Do one of the following: - Specify the Weight/Inertia setting. - Check the load. - Check the model setting. - Check the robot. (Smoothness, backlash, non-smooth motion, loose belt tension, brake, belt teeth skipping) - Check interference with peripheral equipment. (Collision, contact) - Check the power cable connection. - Check the robot power wiring. (loose pin, disconnection, short). - Check power supply voltage. (Low power supply voltage) - Replace the motor driver. - Replace the MAIN board. - Replace the motor.			Reset
5043	Position error overflow in low power state.	Do one of the following: - Check the model setting. - Check the robot. (Smoothness, backlash, non-smooth motion, loose belt tension, brake) - Check interference with peripheral equipment. (Collision, contact) - Check the power cable connection. - Check the robot power wiring. (loose pin, disconnection, short). - Check power supply voltage. (Low power supply voltage) - Replace the motor driver. - Replace the MAIN board. - Replace the motor.			Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
5044	Speed error overflow in high power state.	Do one of the following: - Specify the Weight/Inertia setting. - Check the load. - Check the model setting. - Check the robot. (Smoothness, backlash, non-smooth motion, loose belt tension, brake, belt teeth skipping) - Check interference with peripheral equipment. (Collision, contact) - Check the power cable connection. - Check the robot power wiring. (loose pin, disconnection, short). - Check power supply voltage. (Low power supply voltage) - Replace the motor driver. - Replace the MAIN board. - Replace the motor.			Reset
5045	Speed error overflow in low power state.	Do one of the following: - Check the model setting. - Check the robot. (Smoothness, backlash, non-smooth motion, loose belt tension, brake) - Check interference with peripheral equipment. (Collision, contact) - Check the power cable connection. - Check the robot power wiring. (loose pin, disconnection, short). - Check power supply voltage. (Low power supply voltage) - Replace the motor driver. - Replace the MAIN board. - Replace the motor.			Reset
5046	Speed error in high power state.	Do one of the following: - Reduce the CP motion SpeedS value. - Change the orientation of the CP motion. - Specify the Weight/Inertia setting. - Check the load. - Check the robot. (Smoothness, backlash, non-smooth motion, loose belt tension, brake, belt teeth skipping) - Check interference with peripheral equipment. (Collision, contact) - Check the model setting. - Check the power cable connection.			Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
		- Check the signal cable connection. - Check the robot power wiring. (loose pin, disconnection, short). - Check power supply voltage. (Low power supply voltage) - Replace the motor driver. - Replace the MAIN board. - Replace the motor.			
5047	Speed error in low power state.	Do one of the following: - Check the motion in high power state. - Check the model setting. - Check the robot. (Smoothness, backlash, non-smooth motion, loose belt tension, brake) - Check interference with peripheral equipment. (Collision, contact) - Check the power cable connection. - Check the signal cable connection. - Check the robot power wiring. (loose pin, disconnection, short). - Check power supply voltage. (Low power supply voltage) - Replace the motor driver. - Replace the MAIN board. - Replace the motor.			Reset
5048	Main power circuit overvoltage.	Do one of the following: - Specify the Weight/Inertia setting. - Check the load. - Check the model setting. - Check the robot. (Smoothness, backlash, non-smooth motion, loose belt tension, brake) - Check interference with peripheral equipment. (Collision, contact) - Check the power cable connection. - Check the robot power wiring. (loose pin, disconnection, short). - Check power supply voltage. (Low power supply voltage) - Check the regeneration unit. - Replace the motor driver. - Replace the MAIN board. - Replace the motor.			Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
5049	Motor driver overcurrent.	Do one of the following: - Check the short-circuit and earth fault of the power line. - Replace the motor driver. - Replace the MAIN board.			Reset
5050	Speed error detected during torque control.	Check if motion speed during torque control is within the specified range.			Reset
5051	Motor driver PWM drive 15V power supply error.	Do one of the following: - Reboot the Controller. - Check the DPU and cable connection. - Replace the motor driver. - Replace the MAIN board.			Reset
5054	Motor overload.	Do one of the following: - Lower the motion duty. - Lower Accel. - Check the Weight/Inertia setting. - Check the robot. (Backlash, large load, loose belt tension, brake)			Reset
5055	Motor overload.	Do one of the following: - Lower the motion duty. - Lower Accel. - Check the Weight/Inertia setting. - Check the robot. (Backlash, large load, loose belt tension, brake)			Reset
5056	G sensor data has changed rapidly.	Do one of the following: - Check the noise countermeasure. - Replace the control board.			Reset
5057	Collision detected in high power mode	Collision detection (detection of robot motion error) was functioned. Detect the following errors: - Robot arm collision and contact - Torque overflow due to insufficient Weight and Inertia settings - Torque overflow due to complex motion of multi-joints and swinging long object - Torque overflow due to power supply voltage drop - Error handling due to hardware error or software misoperation: Do one of the following: - Check if the robot arm is colliding with or contacting peripheral objects			Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
	(robot motion error detection).	and change the arrangement to avoid interference - Check for torque overflow In case of torque overflow: Check if Weight and Inertia settings are appropriate and then correct In case of complex motion: Adjust acceleration to avoid torque overflow Check and correct power supply voltage In case of simultaneous error: See "Epson RC+ User's Guide - Collision detection function (robot motion error detection function)"			
5058	Collision detected in low power mode (robot motion error detection).	Collision detection (detection of robot motion error) was functioned. Detect the following errors: - Robot arm collision and contact - Hand weight grasp exceeds specifications, torque overflow due to grasping long object Error handling due to hardware error or software misoperation: Do one of the following. - Check if the robot arm is colliding with or contacting peripheral objects and change the arrangement to avoid interference - Check hand weight and correct - In case of 6-axis robot axis no. 4, 5: Check torque overflow - In case of torque overflow: Change to grasp in high power mode - In case of simultaneous error: See "Epson RC+ User's Guide - Collision detection function (robot motion error detection function)"			Reset
5059	Frequent G sensor communication error.	Do one of the following: - Check the signal cable connection. - Check the noise countermeasure.			Reset
5072	Servo alarm B.	Do one of the following: - Reset the Controller. - Reboot the Controller.			Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
5080	Motor overload.	Do one of the following: - Lower the motion duty. - Lower Accel. - Check the Weight/Inertia setting. - Check the robot. (Backlash, large load, loose belt tension, brake)			Reset
5098	Encoder temperature is too high.	Do one of the following: - Wait until the temperature of the encoder decreases. - Lower the motion duty. - Check the Weight/Inertia setting. - Check the robot. (Backlash, large load, loose belt tension, brake)			Reset
5099	Motor driver temperature is too high.	Do one of the following: - Clean the cooling fan filter. - Lower the motion duty. - Check the Weight/Inertia setting. - Lower the ambient temperature.			Reset
5112	Servo alarm C.	Reboot the Controller.			Reset
5120	Servo CPU system error detected.	Do one of the following: - Reboot the Controller. - Check the noise countermeasure. - Replace the MAIN board.			Reboot
5510	Force control calculation error.	Do one of the following: - Reboot the Controller. - Reinstall the firmware. - Replace the controller.			Reset
5511	Coordinate transformation error in force control.	Do one of the following: - Check whether the coordinate out of the motion range is not specified. - Check whether the robot moves outside of the motion range during the execution of force control.			Reset
5520	Error in Mass, Damper, or Spring properties or a combination thereof.	Check the parameter combination. Check whether the Mass property value is too small for the Damper property.			Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
5521	The coordinate system mode other than the custom mode is specified for the Force Sensor which is not associated with the robot.	Check association with the robot. Check if the direction other than the Custom coordinate is specified for the Orientation property of the force coordinate system object for the sensor which is not associated with the robot.			Reset
5522	Undefined data is selected.	The specified Tool, Local, or MP number may be undefined. Check if the specified parameter is defined.			Reset
5523	A parameter which cannot be continued when CF continues force control was specified.	Check the force control object and the force coordinate object used by motion commands before and after continuing force control via the CF parameter.			Reset
5530	The specified time has passed after resetting the Force Sensor.	Execute the Reset property for the force sensor object.			Reset
5531	Approached the singularity point while executing force control.	Do one of the following: - Check whether the coordinates near the singularity is specified. - Check whether the robot moves to the vicinity of the singularity during the execution of force control. - Review the installation position of the robot.			Reset
5532	Buffer for force sensor averaging is saturated.	Shorten the time between AvgForceClear and AvgForce to be within 10 minutes.			Stop task
5533	The continuous time for CF to execute force control has passed.	Check if the motion command interval is one minute or less.			Reset
5535	Force control cannot be executed when V or W are not set to 0 on a SCARA robot.	Set 0 for the Orientation property or V and W in the current command position for Base, Tool, Local, and FCS objects.			Stop task Reset
5536	Force control is not supported for this robot model.	Do one of the following: - Check if the specified robot is correct. - Check if the Controller firmware supports the robot model.			Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
5537	Deceleration processing failed.	Change the force trigger object TillStopMode property to G_STANDARD_STOP.			Reset
5540	Force Sensor transmission error.	Do one of the following: - Execute the force sensor object Reboot property. - Check the force sensor wiring. - Reboot the force sensor. - Please inquire with us if a similar error occurs even after the above countermeasures are taken.			Reset
5541	Force Sensor reception error.	Do one of the following: - Execute the force sensor object Reboot property. - Check the force sensor wiring. - Reboot the force sensor. - Please inquire with us if a similar error occurs even after the above countermeasures are taken.			Reset
5542	Force Sensor in use.	Check whether the force sensor Reset or Reboot property are running in another task.			Reset
5543	Force Sensor communication error.	Do one of the following: - Execute the force sensor object Reboot property. - Check the force sensor wiring. - Reboot the force sensor. - Please inquire with us if a similar error occurs even after the above countermeasures are taken.			Reset
5544	Element error of Force Sensor.	This error may occur if a long time passed without resetting the force sensor. Do one of the following: - Execute the Reset property for the force sensor object. - Check whether force exceeding the rated value is applied to the Force Sensor. - Reboot the force sensor. - Please inquire with us if a similar error occurs even after the above countermeasures are taken.			Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
5545	Circuit error 1 of Force Sensor.	Do one of the following: - Execute the Reset property for the force sensor object. - Reboot the force sensor. - Please inquire with us if a similar error occurs even after the above countermeasures are taken.			Reset
5546	Circuit error 2 of Force Sensor.	Do one of the following: - Execute the Reset property for the force sensor object. - Reboot the force sensor. - If a similar error occurs even after the above countermeasures are taken, check if the tip of the robot arm has a vibration.			Reset
5547	High temperature error of the Force Sensor.	Do one of the following: - Execute the Reset property for the force sensor object. - Check the ambient temperature. - Check if the force sensor is subjected to rapid temperature change. - Reboot the force sensor. - Please inquire with us if a similar error occurs even after the above countermeasures are taken.			Reset
5548	Force Sensor detected force exceeding the rated value.	Do one of the following: - Execute the Reset property for the force sensor object. - Check whether force exceeding the rated value is applied to the Force Sensor. - Reboot the force sensor. - Please inquire with us if a similar error occurs even after the above countermeasures are taken.			Reset
5549	Force sensor not connected.	Do one of the following: - Check the force sensor wiring. - Reboot the force sensor. - Please inquire with us if a similar error occurs even after the above countermeasures are taken.			Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
5550	Force sensing of the Force Sensor is off.	Do one of the following: - Check the force sensor configuration. - Reboot the force sensor.			Reset
5551	A force sensor not supported on the controller is connected.	Do one of the following: - Check whether the controller firmware supports the Force Sensor. - Check the force sensor wiring. - Reboot the force sensor.			Reset
5552	Configuration of the force sensor failure.	Check the force sensor configuration.			Reset
5553	Unsupported function is executed on the connected force sensor.	Do one of the following: - Check the force sensor configuration. - Review the program.			Reset
5560	Force sensor drift correction error.	Do one of the following: - Check the force sensor wiring. - Reboot the force sensor.			Reset
5800	Failed to initialize force control.	Do one of the following: - Reboot the Controller. - Reinstall the controller firmware. - Replace the controller.			Reboot
5802	Force control calculation error.	Do one of the following: - Reboot the Controller. - Reinstall the controller firmware. - Replace the controller.			Stop task
5803	Force Sensor failed to connect with the robot.	Check connection setting of the Force Sensor.			Stop task
5810	Force control parameter error.	Check the range of the specified parameter.			Stop task
5811	Force control object parameter out of range. Note 1: Parameter type Note 2: Axis	Check the force control object property value.	1: Number 2: Coordinate System 3: Enabled 4: Mass 5: Damper 6: Spring 7: TargetForce PriorityMode 8: TargetForce 9: LimitSpeed 10: LimitAccel	1:Fx 2:Fy 3:Fz 4:Tx 5:Ty 6:Tz Or 1:J2:S3:R	Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
5812	Force control object LimitSpeed or LimitAccel property is lower than the robot speed or acceleration setting.	Check the Speed, SpeedS, SpeedR, Accel, AccelS, AccelR, LimitSpeed and LimitAccel values.			Stop task
5813	Force control object Enabled properties are all FALSE.	Enable the Enabled property for at least one axis.			Stop task
5814	Force control cannot be executed when V or W are not set to 0 on a SCARA robot or when Tx or Ty_Enabled is set to true.	Do one of the following: - Disable Tx and Ty Enabled. - Set 0 for the Orientation property or V and W in the current command position for Base, Tool, Local, and FCS objects.			Stop task
5815	Force trigger object parameter out of range. Note 1: Parameter type Note 2: Axis	Check the force trigger object property value.	1:Number 2:ForceSensor 3:Coordinate System 4:TriggerMode 5:Operator 6:Enabled 7:FMag_Axes 8:TMag_Axes 9: Polarity 10:UpperLevel 11:LowerLevel 12:UpperLevel is smaller than LowerLevel 13:LPF_Enabled 14:LPF_TimeConstant	1:Fx 2:Fy 3:Fz 4:Tx 5:Ty 6:Tz 7:Fmag 8:Tmag	Stop task
5816	Force coordinate system object parameter out of range. Note 1: Parameter type Note 2: Axis	Check the force coordinate object property value.	1:Number 2:Position 3:Orientation_Mode 4:Orientation_UVW 5:Orientation_RobotLocal	1:X2:Y3:Z or 1:U2:V3:W	Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
5817	Force monitor object parameter out of range. Note 1: Parameter type Note 2: Axis	Check the force monitor object property value.	1:Number 2:ForceSensor 3:Coordinate System 4:FMag_Axes 5:TMag_Axes 6:LPF_Enabled 7:LPF_TimeConstant		Stop task
5818	Force Motion Restriction Object parameter is out of the range.	Check the force motion restriction object property value.	1:Number 3:Coordinate System 6:Dist_Axes 7:Rot_Axes 8:UpperLevel 9:LowerLevel 10: UpperLevel is smaller than LowerLevel 11:Operator 12:ForceSensor 13:HoldTimeThresh 14:DatumPoint 15:RobotLocal 16:RobotTool 17:TriggerMode 18:Enabled		Stop task
5819	Specified duration of FCKeep is out of the allowable range.	Check if the specified duration is 600 seconds or less.			Stop task
5830	Force control cannot resume from the pause.	Abort the motion. If SF_LimitSpeedSEnable is On, this error may occur. SF_LimitSpeedSEnable is On by default. Turn it Off. For details, refer to "SPEL+ Language Reference - SF_LimitSpeedSEnable".			Stop task
5831	Cannot execute this command during force control.	Abort force control with FCEnd and try again.			Stop task
5832	Cannot execute the motion command which has no Force Control Object during force control.	Check if the motion command directly after continuing force control via CF contains force control.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
5833	Cannot use gravity compensation.	Gravity compensation is not available with this force sensor and robot combination. Set MP0.			Stop task
5834	Unsupported function is executed on the connected force sensor.	Do one of the following: - Check the force sensor configuration. - Review the program.			Stop task
5840	Force Sensor in use.	Check whether the force sensor Reset or Reboot property are running in another task.			Stop task
5841	Failed to reset force sensor. Note 1: Detailed error information	Do one of the following. - When the parameter is omitted or FG_RESET_FINE is specified, specify FG_RESET_WAIT_VIBRATION for the parameter. - When FG_RESET_WAIT_VIBRATION is specified, adjust the reset timing via Wait statement or remove the external vibration source.	1: Timeout because Fine condition is not satisfied. 2: Timeout because vibration did not stop.		Stop task
5901	Failed to allocate memory (force control).	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reset Reboot
5903	An unsupported robot number was specified.	Do one of the following: - Check the robot configuration. - Check the robot number specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task Reset
5904	Failed to allocate memory (force control).	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
5906	An unsupported number was specified in the force object.	Do one of the following: - Check the force object definition. - Check the force object number specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task Reset
5907	Specified force data number was not defined.	Stop the task and do one of the following: - Check the force object definition. - Check the force object number specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task Reset
5908	Specified force coordinate system data number was not defined.	Stop the task and do one of the following: - Check the force coordinate system object number definition. - Check the force coordinate system object number specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
5909	A force object that cannot be deleted or changed was specified.	Stop the task and check the force object specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
5910	An unsupported value parameter was specified.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
5911	The upper threshold is less than the lower threshold.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
5912	An unsupported quantity parameter was specified (command).	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Number of parameters		Stop task
5913	An unsupported quantity parameter was specified (function).	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Number of parameters		Stop task
5914	An unsupported data type parameter was specified.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
5918	Specified force data label cannot be found.	Specify a defined valid force data label.			-
5921	Duplicate label names found.	Do one of the following: - Correct the force data label name included in the project. - Rebuild the project. - Synchronize the project or transfer it via restore.			-
5927	Cannot read the force data from the force file.	The force data is invalid and cannot be read. Re-create the force file.	0: FC1: FCS2: FT3: FM4: MASS	Force data number	-
5928	Failed to allocate memory (force control).	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reset Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
5929	The specified force file could not be opened.	Do one of the following: - Check the specified force file name. - Restore the project that was operating correctly. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task Reset
5930	A label name that exceeds the upper limit length was specified.	Do one of the following: - Stop the task and check the label name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. Refer to "Label Property" in the reference manual for correction instructions. - Correct the force data label name included in the project. - Rebuild the project. - Synchronize the project or transfer it via restore.			Stop task Reset
5931	A comment that exceeds the upper limit length was specified.	Do one of the following: - Stop the task and check the comment specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. Refer to "Description Property" in the reference manual for correction instructions. - Correct the force data comment included in the project. - Rebuild the project. - Synchronize the project or transfer it via restore.			Stop task
5932	An invalid force file was specified.	Do one of the following: - Check the specified force file name. - Restore the project that was operating correctly. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
5933	An invalid force file was specified.	Do one of the following: - Check the specified file name. - Restore the project that was operating correctly. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task Reset
5934	Failed to access the force file.	Stop the task and do one of the following: - Check the controller capacity. - Check the file path name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.	Robot number		Stop task
5940	An unsupported label name force data was specified (the first character is not an alphabet).	Do one of the following: - Check the parameter specified in the SPEL command of the specified project. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Correct the force data label name included in the project. - Rebuild the project. - Synchronize the project or transfer it via restore.			Stop task Reset
5941	An unsupported label name force data was specified (only alphanumeric characters and underscores can be used).	Do one of the following: - Check the parameter specified in the SPEL command of the specified project. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Correct the force data label name included in the project. - Rebuild the project. - Synchronize the project or transfer it via restore.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
5944	A force file name with a different version was specified.	Do one of the following: - Check the specified force file name. - Restore the project that was operating correctly. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task Reset

2.7 Code Number 6000 ~

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
6001	An unsupported parameter was specified in the calibration number.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
6002	Undefined calibration data was specified.	Stop the task and do one of the following: - Conduct necessary vision calibration. - Check the calibration data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
6003	An unsupported parameter was specified (camera mounting direction).	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. Also check the user guide for variable definitions.			Stop task
6005	Invalid point data was specified.	Stop the task and do one of the following: - Teach the specified point data and try again. - Check the point data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
6006	Calibration failed (invalid point data).	Stop the task and do one of the following: - Teach the specified point data and try again. - Check the point data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
6007	Coordinate conversion failed (invalid point data).	Stop the task and do one of the following: - Teach the specified point data and try again. - Check the point data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
6009	An unsupported calibration file name was specified.	Stop the task and do the following: Check the calibration file name.			Stop task
6010	Specified calibration file cannot be found.	Stop the task and do the following: Check the calibration file name length. - Check the calibration file name extension.			Stop task
6012	Failed to read vision calibration file.	Stop the task and do the following: Check the vision calibration file specification.			Stop task
6013	Failed to save vision calibration file.	Stop the task and do one of the following: - Check the vision calibration file name. - Check the number of files included in the project. - Check the file size included in the project.			Stop task
6014	9 pixel coordinate points should be specified.	Make sure that at least 9 results are obtained in the vision sequence.			Stop task
6015	18 pixel coordinate points should be specified.	Make sure that at least 18 results are obtained in the vision sequence.			Stop task
6016	9 robot coordinate points should be specified.	Reteach the points.			Stop task
6017	18 robot coordinate points should be specified.	Reteach the points.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
6018	9 robot coordinate points and 1 reference points should be specified.	Perform point teaching and calibration again.			Stop task
6019	9 robot coordinate points and 2 reference points should be specified.	Perform point teaching and calibration again.			Stop task
6502	Vision process Communication error (-3)	Check the connection with the camera (cable, setting).			Stop task
6503	Vision process Memory error (-11)	Reboot RC+.			Stop task
6506	Vision process Error at modeling (-14)	Change the target and teach again.			Stop task
6507	Vision process Recovery error(-15)	Specify the file of appropriate format.			Stop task
6508	Vision process Invalid number of iterations (-16)	Set a value in the valid range.			Stop task
6509	Vision process Invalid mode (-17)	Set a valid value.			Stop task
6510	Vision process Invalid threshold value (-18)	Set a value in the valid range.			Stop task
6511	Vision process Invalid polarity (-19)	Set a value in the valid range.			Stop task
6512	Vision process: Failed to open file (-20).	Specify a correct file.			Stop task
6513	Vision process Initialization error (-21)	Reinstall Epson RC+.			Stop task
6514	Vision process Status error (-22)	Check the connection with the camera.			Stop task
6517	Vision process: Invalid image format (-25).	Specify the image file of readable format.			Stop task
6520	Vision process Invalid property value (-100)	Set a value in the valid range.			Stop task
6521	Vision process: Exposure termination process failed (-201).	Disable Windows Firewall.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
6523	In use by another device. Cannot connect to camera.	Check if the camera is not being used.			Stop task
6533	Vision process Invalid Blob property ThresholdLow value (-11004)	Set a value in the valid range.			Stop task
6534	Vision process Invalid Blob property ThresholdHigh value (-11005)	Set a value in the valid range.			Stop task
6535	Vision process Invalid Blob property Polarity value(-11006)	Set a value in the valid range.			Stop task
6536	Vision process Invalid Blob property NumberToFind value (-11007)	Set a value in the valid range.			Stop task
6537	Vision process Invalid Blob property MinArea value (-11008)	Set a value in the valid range.			Stop task
6538	Vision process Invalid Blob property MaxArea value (-11009)	Set a value in the valid range.			Stop task
6539	Vision process Invalid Blob property RejectOnEdge value (-11010)	Set a value in the valid range.			Stop task
6540	Vision process Invalid Blob property SizeToFind value (-11011)	Set a value in the valid range.			Stop task
6553	Vision process Invalid Geom property Accept value (-11504)	Set a value in the valid range.			Stop task
6554	Vision process Invalid Geom property NumberToFind value (-11505)	Set a value in the valid range.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
6555	Vision process Invalid Geom property AngleEnable value (-11506)	Set a value in the valid range.			Stop task
6556	Vision process Invalid Geom property AngleRange value (-11507)	Set a value in the valid range.			Stop task
6557	Vision process Invalid Geom property AngleStart value (-11508)	Set a value in the valid range.			Stop task
6558	Vision process Invalid Geom property ScaleEnable value (-11509)	Set a value in the valid range.			Stop task
6559	Vision process: Invalid Geom property ScaleFactorMax value (-11510)	Set a value in the valid range.			Stop task
6560	Vision process Invalid Geom property ScaleFactorMin value (-11511)	Set a value in the valid range.			Stop task
6561	Vision process Invalid Geom property ScaleTarget value (-11512)	Set a value in the valid range.			Stop task
6562	Vision process: Invalid Geom property SeparationMinX value (-11513)	Set a value in the valid range.			Stop task
6563	Vision process: Invalid Geom property SeparationMinY value (-11514)	Set a value in the valid range.			Stop task
6564	Vision process: Invalid Geom property SeparationAngle value (-11515)	Set a value in the valid range.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
6565	Vision process: Invalid Geom property SeparationScale value (-11516)	Set a value in the valid range.			Stop task
6566	Vision process Invalid Geom property Confusion value(-11517)	Set a value in the valid range.			Stop task
6567	Vision process: Invalid Geom property ModelOrgAutoCenter value (-11518)	Set a value in the valid range.			Stop task
6570	Vision process Invalid Geom property DetailLevel value (-11521)	Set a value in the valid range.			Stop task
6571	Vision process Invalid Geom property Smoothness value (-11522)	Set a value in the valid range.			Stop task
6572	Vision process Invalid Geom property RejectOnEdge value (-11523)	Set a value in the valid range.			Stop task
6573	Vision process Invalid Geom property SharedEdges value (-11524)	Set a value in the valid range.			Stop task
6574	Vision process Invalid Geom property Timeout value (-11525)	Set a value in the valid range.			Stop task
6575	Vision process Invalid Geom property RejectByArea value (-11526)	Set a value in the valid range.			Stop task
6576	Vision process: Invalid Geom property SearchReversed value (-11527)	Set a value in the valid range.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
6577	Vision process Invalid Geom property ScaleTargetPriority value	Set a value in the valid range.			Stop task
6578	Vision process Invalid Geom property SearchReducedImage value (-11529)	Set a value in the valid range.			Stop task
6586	Vision process: Invalid Geom Model property DetailLevel value (-11602)	Set a value in the valid range.			Stop task
6587	Vision process: Invalid Geom Model property Smoothness value (-11603)	Set a value in the valid range.			Stop task
6603	Vision process Invalid Corr property Accept value (-12004)	Set a value in the valid range.			Stop task
6604	Vision process Invalid Corr property NumberToFind value (-12005)	Set a value in the valid range.			Stop task
6605	Vision process Invalid Corr property AngleEnable value (-12006)	Set a value in the valid range.			Stop task
6606	Vision process Invalid Corr property AngleRange value (-12007)	Set a value in the valid range.			Stop task
6607	Vision process Invalid Corr property AngleStart value (-12008)	Set a value in the valid range.			Stop task
6608	Vision process Invalid Corr property AngleAccuracy value (-12009)	Set a value in the valid range.			Stop task
6609	Vision process Invalid Corr property Confusion value (-12010)	Set a value in the valid range.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
6610	Vision process: Invalid Corr property ModelOrgAutoCenter value (-12011)	Set a value in the valid range.			Stop task
6613	Vision process Invalid Corr property RejectOnEdge value (-12014)	Set a value in the valid range.			Stop task
6614	Vision process Invalid Corr property Timeout value (-12015)	Set a value in the valid range.			Stop task
6615	Vision process Invalid Corr property RejectByArea value (-12016)	Set a value in the valid range.			Stop task
6630	Vision process Invalid Edge property structure size (-12501)	Set a value in the valid range.			Stop task
6631	Vision process Invalid Edge result header structure size (-12502)	Set a value in the valid range.			Stop task
6632	Vision process Invalid Edge result item structure size (-12503)	Set a value in the valid range.			Stop task
6633	Vision process Invalid Edge property EdgeType value (-12504)	Set a value in the valid range.			Stop task
6634	Vision process Invalid Edge property NumberToFind value (-12505)	Set a value in the valid range.			Stop task
6635	Vision process Invalid Edge property Polarity value (-12506)	Set a value in the valid range.			Stop task
6636	Vision process Invalid Edge property SearchWidth value (-12507)	Set a value in the valid range.			Stop task
6637	Vision process Invalid Edge property Accept value (-12508)	Set a value in the valid range.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
6638	Vision process: Invalid Edge property ScoreWeightContrast (-12509)	Set a value in the valid range.			Stop task
6639	Vision process Invalid Edge property ContrastTarget value (-12510)	Set a value in the valid range.			Stop task
6640	Vision process: Invalid Edge property ContrastVariation value (-12511)	Set a value in the valid range.			Stop task
6641	Vision process Invalid Edge property StrengthTarget value (-12512)	Set a value in the valid range.			Stop task
6642	Vision process Invalid Edge property StrengthVariation value (12513)	Set a value in the valid range.			Stop task
6653	Vision process Code Reader Checksum error (-1010)	Change to the code with a proper checksum. Or, change the setting not to use the checksum.			Stop task
6654	Vision process Code Reader Invalid quiet zone (-1011)	Ensure a quiet zone (blank margin) around the code. Set the quiet zone narrower.			Stop task
6655	Vision process: Code Reader message is too long (-1012)	Change the code.			Stop task
6686	Vision process: OCR Recognition dictionary is full (-2132)	Delete the registered characters.			Stop task
6900	Safety Limited Speed detected excessive rotation speed.	Do one of the following: - Repair the program so that the rotation speed (vertical movement speed for SCARA robot J3) set on the Safety Function Manager is not exceeded. - Check that the Safety Function Manager Safety Limit Speed setting is operating correctly. - Check that the robot is registered and correctly calibrated.	Thousands: SLS_1 - T2 identification (0: SLS_T (Teach/Test1) 1: SLS_1 2: SLS_2 3: SLS_3 9: SLS_T2 Example: SLS_2 J3 speed exceeded ⇒ 2000 (decimal)		Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
6901	Safety Limited Speed detected excessive movement speed.	Do one of the following: - Repair the program so that the speed set on the Safety Function Manager is not exceeded. - Check that the Safety Function Manager Safety Limited Speed is operating properly. - Check that the robot is registered and correctly calibrated.	Thousands: SLS_1 - T2 Identification (0: SLS_T(Teach/Test1) 1: SLS_1 2: SLS_2 3: SLS_3 9: SLS_T2) Ones: Area with excessive speed (1: P1_TCP2: P2_ Elbow 3: P3_ Wrist 4: P4_ shoulder) Example: SLS_2 P1 excessive speed ⇒ 2001 (decimal)		Reset
6902	Safety Limited Position detected an intrusion into the limited area.	Do one of the following: - Repair the program so that the there is no intrusion into the limited range set on the Safety Function Manager. - Check that the Safety Function Manager Safety Limited Position is operating properly. - Check that the robot is registered and correctly calibrated. Note: If there are detections in multiple positions, there could be an intrusion into any of the detected positions. Check each intrusion detection position.	Thousands: SLP type 1: SLP_A 2: SLP_B 3: SLP_C hundreds: Z detection position 1: Z1 detection 2: Z2 detection 3: Z1/ Z2 detection - if SLP range setting is a wall: tens: Y detection position 1: Y1 detection 2: Y2 detection 3: Y1/ Y2 detection ones: X detection position 1: X1 detection 2: X2 detection 3: X1/ X2 detection - if SLP range setting is limited area: tens: 1 (fixed value) ones: 0 (fixed value) example: SLP_B J3 is XL, ZU exceeded wall ⇒ 2201 (decimal)		Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
			SLP_C J1 intruded into limited area ⇒ 3010 (decimal)		
6903	Soft Axis Limiting Function detected excessive axis limited range.	Do one of the following: - Repair the program so that the soft axis limited range set on the Safety Function Manager is not exceeded. - Check that the Safety Function Manager Soft Axis Limiting setting is correct. - Check that the robot is registered and correctly calibrated.			Reset
6904	Deceleration error detected.	Do one of the following: - Check if the work and hand weight exceed the load capacity. - Check the program weight/inatia setting. - Check that the robot is registered and correctly calibrated.			Reset
6905	Joint angle monitoring detected excessive limited range.	Do one of the following: - Repair the program so that the robot does not move during joint angle monitoring. - Check the Safety Function Manager joint angle monitoring setting. - Check that the robot is registered and correctly calibrated.			Reset

2.8 Code Number 7000 ~

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7003	An unregistered robot was specified.	Do one of the following: - Configure the necessary robot. - Check the robot number specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
7004	Failed to allocate memory (acquired duplicate point data).	Reset the controller and do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reset

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7006	An unsupported point number was specified.	Do one of the following: - Check the specified point number and try again. - Rebuild the project. - Check the SPEL command specifications. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
7007	Undefined point data was specified.	Do one of the following: - Specify a defined point number. - Teach the specified point number or define it. - Check the point data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7010	Failed to allocate memory. (pallet definition)	Reset the controller and do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reset
7012	The specified pallet number cannot be found.	Do one of the following: - Check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
7013	An undefined pallet number was specified.	Do one of the following: - Define the required number in the pallet setting screen. - Check the parameter or execution order specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7014	An unsupported parameter was specified in the pallet division.	Do one of the following: - Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
7017	Failed to allocate memory.	Reset the controller and do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reset
7018	An undefined point label was specified.	Stop the task and do one of the following: - Define the required point label. - Check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7019	Failed to initialize controller (parameter error).	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller. - If this error occurs repeatedly, contact us.			Reboot
7021	A defined point label name was specified.	Stop the task and do one of the following: - Remove any unnecessary point labels. - Check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7022	An undefined Local number was specified.	Stop the task and do one of the following: - Define the required number in the Local coordinate setting screen. - Check the parameter or execution order specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7024	Failed to allocate point data memory area for the specified robot.	Stop the task and do one of the following: - Rebuild the project. - Reload the project.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7027	Cannot read the specified point file.	Do one of the following: - Check the point file specified in the command for the applicable function name and row number in the system history. - Recreate the point file. - Check the point file registered in the project. - Check the specified project.			Reset
7028	Point data that exceeds the quantity upper limit was specified.	Reset the controller and do the following: - Check the point data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Check the point data quantity included in the project.			Reset Stop task
7029	The specified point file could not be opened.	Reset the controller and do one of the following: - Check the point file name and extension registered to the project. - Check the specified project.			Reset
7030	A label name that exceeds the upper limit length was specified.	Stop the task and do one of the following: - Correct the point label in the point editor. - Check the point file specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7031	A comment that exceeds the upper limit length was specified.	Stop the task and do one of the following: - Check the point data comment in the point editor. - Check the point file specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7032	A corrupt point file was specified.	Do one of the following: - Check the point file specified in the command for the applicable function name and row number in the system history. - Recreate the point file. - Check the point file registered in the project. - Check the specified project.			Reset Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7033	The specified point file does not exist.	Do one of the following: - Stop the task and check the point file specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Recreate the point file. - Check the point file registered in the project. - Check the specified project.			Reset Stop task
7034	Failed to save point file.	Do one of the following: - Reset the Controller and try again. - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller.			Reset Stop task
7035	Failed to save point file.	Do one of the following: - Reset the Controller and try again. - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller.			Reset Stop task
7036	Failed to save point file.	Do one of the following: - Reset the Controller and try again. - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller.			Reset Stop task
7037	Failed to save point file.	Do one of the following: - Reset the Controller and try again. - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller.			Reset Stop task
7038	Failed to save point file.	Do one of the following: - Reset the Controller and try again. - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller.			Reset Stop task
7039	Failed to save point file.	Do one of the following: - Reset the Controller and try again. - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller.			Reset Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7040	An invalid point label name was specified.	Reset the controller and do one of the following: - Correct the specified SPEL project point file in the point editor. - Check the point file to be used and rebuild the project. - Synchronize a project whose operability has been confirmed or transfer it via restore.			Reset Stop task
7041	An invalid point label name was specified.	Do one of the following: - Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Correct the specified SPEL project point file in the point editor. - Check the point file to be used and rebuild the project. - Synchronize a project whose operability has been confirmed or transfer it via restore.			Reset Stop task
7043	A different version of the point file was specified.	Do one of the following: - Recreate the point file. - Check the specified point file.			Reset Stop task
7044	A different version of the point file was specified.	Do one of the following: - Recreate the point file. - Check the specified point file.			Reset Stop task
7045	An unsupported parameter was specified in the work queue number.	Do one of the following: - Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Reset the controller and check the work queue settings. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - Replace the controller SD. - If this error occurs repeatedly, contact us.			Reboot Reset Stop task
7046	Point data count that exceeds the quantity upper limit was specified in the work queue.	Stop the task and check the point data registered in the specified work queue.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7047	The index specified in the work queue point data does not exist.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7048	Failed to initialize work queue.	Stop the task and do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller.			Stop task
7049	An unsupported parameter was specified in the work queue instruction.	Do one of the following: - Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reboot Stop task
7050	A work queue was specified in registered point data.	This SPEL command cannot specify a work queue for registered point data. Stop the task and check the parameter data specified in the SPEL command or the execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7051	An unsupported parameter was specified in the part feeder queue number.	The range of PF queue numbers is 1 to 16. Do one of the following: - Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. The part feeder reference manual is "Part Feeding Introduction & Hardware (common) & Software Version Software Version Part Feeding SPEL+ Command Reference." - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - Replace the controller SD. - If this error occurs repeatedly, contact us.			Reboot
7052	A point data count that exceeds the upper limit was specified in the part feeder queue.	The upper limit number of data that can be registered in the PF queue is 1000. Stop the task and check the point data registered in the specified part feeder queue.			Stop task
7053	The index specified in the part feeder queue point data does not exist.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7054	Failed to initialize part feeder queue.	Stop the task and do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller.			Stop task
7055	An unsupported parameter was specified in the part feeder queue instruction.	Do one of the following: - Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. The part feeder reference manual is “Part Feeding Introduction & Hardware (common) & Software Version Software Version Part Feeding SPEL+ Command Reference.” - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reboot
7056	A part feeder queue was specified in registered point data.	Cannot execute PF_QueSort command after registering PF queue. Stop the task and check the parameter data specified in the SPEL command or the execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7101	An error occurred during fieldbus I/O communication.	Check Note 1 in the system history and do the following: 1, 2, 3, 4, 10: The fieldbus slave board is malfunctioning or the controller software is corrupt. - Restore the controller firmware. 11, 12: A communication data error was detected during communication. There is a problem with the communication cable. - Check the communication cable and its related units. 13, 14, 15: The fieldbus slave board is malfunctioning or the controller software is corrupt. - Restore the controller firmware. 20: A communication data error (CRC Error) was detected during communication. - Check the communication cable and its related units. 21: A communication data error (Time Out Error) was detected during communication (when using CCLink). - Check the communication cable and its related units. 23, 24, 25: A reception data count error was detected (when using CCLink). - PLC or the communication cable has a problem. (when using CCLink)	Detailed error number		Stop task Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7103	A timeout occurred during fieldbus I/O communication.	Check Note 1 in the system history and do the following: 1, 2, 3: - Restore the controller firmware. - Check the communication cable and its related units. 4: A communication data error was detected during communication. There is a problem with the communication cable. - Check the communication cable and its related units.	Detailed error number		Stop task Reboot
7150	A fieldbus master disconnection was detected.	Do one of the following: - Check the fieldbus communication cable connection. - Check the fieldbus master board connection.			Stop task Reboot
7151	The fieldbus master power supply is off.	Do one of the following: - Check the fieldbus communication cable power supply. - Check the fieldbus master board connection.			Stop task Reboot
7152	A fieldbus master status error was detected.	Do one of the following: - Check the fieldbus master board connection. - Replace the fieldbus master board.			Stop task Reboot
7200	An unsupported parameter was specified.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7201	A system error occurred.	Stop the task and do one of the following: - Reboot the connected PC and Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
7202	Failed to allocate memory.	Stop the task and do one of the following: - Reboot the connected PC and Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
7203	Failed to access the specified port or file.	Stop the task and do one of the following: - Check the execution permissions for the user who is running Epson RC+ in cooperative mode. - Check the port status specified in the SPEL command and file and database file access permissions.			Stop task
7211	The specified file path does not exist.	Stop the task and do one of the following: - Prepare the required directory and files. - Check the file path name specified in the SPEL command and vision sequence. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7211	The specified file path does not exist.	Stop the task and do one of the following: - Prepare the required directory and files. - Check the file path name specified in the vision sequence. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7212	A subfolder name that already exists was specified.	Stop the task and do one of the following: - Delete unnecessary folders or files. - Check the folder name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7213	The specified file does not exist.	Stop the task and check the file name or file number specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7214	A file size that cannot be acquired was specified.	Specified files must be less than 2 GB. Stop the task and do one of the following: - Specify a file that is below the variable upper limit that can be handled on SPEL. - Check the command usage.			Stop task
7215	A file number that is in use was specified.	Stop the task and do one of the following: - Close the file you want to specify and try again. - Check the file number specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7216	An unauthorized command was specified in file access specification.	Stop the task and do one of the following: - Check the file access SPEL command. - Check the execution order for the related SPEL command. - Check the file number specified in the SPEL command.			Stop task
7217	Could not acquire data from the file.	Stop the task and do one of the following: - Check if the specified file contains data. - Check the file number specified in the SPEL command.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7230	A database number that is in use was specified.	Stop the task and do one of the following: - Close the database you want to specify and try again. Stop the task and check the SPEL command execution order or parameters. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7231	Failed to access the specified database file.	Stop the task and do one of the following: - Check access permissions to the specified database. - Check the specified database number.			Stop task
7232	The specified database file is not open.	Stop the task and do one of the following: - Reopen the database you want to specify and try again. - Check the execution order for the related command. - Check the specified database number.			Stop task
7233	An unsupported data type was specified.	Stop the task and check the data type specified in the database.			Stop task
7234	A data size that exceeds the upper limit was specified.	Stop the task and do one of the following: - Check the query specified in the database. - Check the data size specified in the database. - Check the specified database.			Stop task
7235	An unsupported file type database was specified.	Stop the task and do one of the following: - Check the specified database file format and version. - Check the specified database.			Stop task
7236	Failed to acquire the specified data.	Stop the task and do one of the following: - Check if the database contains the specified data. - Check the specified database.			Stop task
7251	An invalid communication port was specified.	Stop the task and do one of the following: - Check the specified communication port settings. - Check the specified communication port number. - Check the connection between the communication port and controller. - Check the connection between the connected PC and controller.			Stop task
7252	A communication port that is in use was specified.	Stop the task and do one of the following: - Close the communication port and try again. - Check the specified communication port number. - Check the execution order for the related command. - Check the connection between the communication port and controller. - Check the connection between the connected PC and controller.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7253	The specified communication port is not open.	Stop the task and do one of the following: - Check the specified communication port number. - Check the execution order for the related command. - Check the connection between the communication port and controller. - Check the connection between the connected PC and controller.			Stop task
7254	The specified communication port is not open.	Stop the task and do one of the following: - Check the specified communication port number. - Check the execution order for the related command. - Check the connection between the communication port and controller. - Check the connection between the connected PC and controller.			Stop task
7255	A timeout occurred during communication on the communication port (read).	Stop the task and do one of the following: - Check the communication port timeout time. - Check the connection to the communication port. - Check the connection between the connected PC and controller.			Stop task
7256	A timeout occurred during communication on the communication port (write).	Stop the task and do one of the following: - Check the communication port timeout time. - Check the connection to the communication port. - Check the connection between the connected PC and controller.			Stop task
7260	Invalid execution file checksum.	Stop the task and do one of the following: - Rebuild the project. - Synchronize the project or transfer it via restore. - If this error occurs repeatedly, contact us.			Stop task
7261	An unsupported function definition was specified.	Stop the task and do one of the following: - Check the specified DLL and function definition in the DLL. - Reboot the connected PC and controller. - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
7262	A parameter that differs from the function definition was specified.	Stop the task and check the parameter data specified in the function to call. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7263	Cannot execute while creating DLL.	Wait and try again.			Stop task
7264	Failed to create expansion DLL.	Check the expansion DLL path and try again.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7265	The specified DLL does not exist.	Stop the task and check the DLL name and drive specification specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7300	A system error has occurred (vision server specification).	Stop the task and do one of the following: - Check the vision settings in System Configuration. - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
7302	Communication between the vision camera and the controller has failed (camera port closed).	Stop the task and do one of the following: - Check the camera status and connection. - Check the vision settings in System Configuration. - Check the camera settings in project settings.			Stop task
7303	A data size that exceeds the upper limit was received.	Stop the task and do one of the following: - Check the data size received by the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Check the vision settings in System Configuration. - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
7304	Failed to initialize communication with the vision camera (port open).	Stop the task and do one of the following: - Check the vision settings in System Configuration. - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
7305	An invalid IP address was set on the vision camera.	Stop the task and do one of the following: - Check the vision settings in System Configuration. - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
7306	Failed to initialize communication with the vision camera (Server/Client specified).	Stop the task and do one of the following: - Check the vision settings in System Configuration. - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
7307	Vision camera closed the port.	Check the connection with the camera.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7308	An unsupported vision camera is connected (version).	Stop the task and do one of the following: - Check the vision camera. - Update the vision camera firmware with the update tool.			Stop task
7321	Failed to connect to vision camera (setting error).	Stop the task and do one of the following: - Check the connection between the vision camera and controller. - Check the vision settings in System Configuration. - Stop the task and check the camera number and execution order specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7322	Communication between the vision camera and the controller failed (reception timeout).	Stop the task and do one of the following: - Check the connection between the vision camera and controller. - Check the vision settings in System Configuration.			Stop task
7323	Communication with the vision camera has failed (received data error).	Stop the task and do one of the following: - Check the connection between the vision camera and controller. - Check the vision settings in System Configuration.			Stop task
7324	Failed to communicate with vision camera.	Stop the task and do one of the following: - Check the connection between the vision camera and controller. - Check the vision settings in System Configuration.			Stop task
7325	Communication with the vision camera has failed (connection incomplete).	Stop the task and do one of the following: - Check the connection between the vision camera and controller. - Check the vision settings in System Configuration.			Stop task
7326	A data size that exceeds the upper limit was received.	Stop the task and do one of the following: - Check the data size received by the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Check the vision settings in System Configuration.			Stop task
7327	An undefined vision sequence was specified.	Stop the task and do one of the following: - Specify the required vision sequence. - Check the vision sequence specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Rebuild the project. - Synchronize the project or transfer it via restore.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7328	An undefined vision camera was specified.	Stop the task and do one of the following: - Configure the necessary vision camera in vision settings within System Configuration. - Check the camera number specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Restore the backup file that was operating correctly.			Stop task
7329	The Vis file specified in the SPEL project does not exist.	Stop the task and do one of the following: - Rebuild the project. - Restore the project that was operating correctly. - Recreate the Vis file.			Stop task
7330	Failed to allocate memory (vision).	Stop the task and do one of the following: - Reduce the number of vision sequences, objects, and calibration to execute. - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
7341	Vision cameras that exceed the upper limit were found in the specified SPEL project.	Review unnecessary camera registrations.			Reset
7342	An unsupported parameter was specified in the vision camera number.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7343	Data size exceeding the upper limit was specified (VSet).	Stop the task and do one of the following: - Check the names and string variables of sequences, objects, and calibration specified in the vision sequence. - Check the data size acquired from the vision sequence.			Stop task
7344	The number of parameters specified exceeded the limit (VGet).	The number of specified variables is exceeding 32. Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7345	Could not get necessary data from the vision camera (VGet).	Stop the task and do one of the following: - Reboot the vision camera. - Check the version of the vision camera.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7346	Vision commands cannot be executed from the command window.	Execute the command from the SPEL program.			Stop task
7400	An unsupported operation was attempted on the virtual camera.	Stop the task and do one of the following: - If specifying the virtual camera, specify the real camera. - Reboot the camera.			Stop task
7402	An unsupported parameter was specified in the maximum move distance.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7403	An unsupported parameter was specified in the maximum pose difference.	Stop the task and match the parameter data specified in the SPEL command to the necessary variable. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. Also check the user guide for variable definitions.			Stop task
7404	An unsupported parameter was specified in LJMMode.	Stop the task and match the parameter data specified in the SPEL command to the necessary variable. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. Also check the user guide for variable definitions.			Stop task
7405	Command aborted by user operation.	Stop the task and try again.			Stop task
7406	Joint 1 angle change exceeded the maximum allowed during vision calibration.	Stop the task and adjust the start angle of Joint 1.			Stop task
7407	Joint 2 angle change exceeded the maximum allowed during vision calibration.	Stop the task and adjust the start angle of Joint 2.			Stop task
7408	Joint 4 angle change exceeded the maximum allowed during vision calibration.	Stop the task and adjust the start angle of Joint 4.			Stop task
7409	Joint 6 angle change exceeded the maximum allowed during vision calibration.	Stop the task and adjust the start angle of Joint 6.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7410	Failed to transfer image file from PC to camera.	Stop the task, check the connection between the PC and camera, and try again.			Stop task
7411	An undefined target sequence was specified.	Stop the task and do one of the following: - Check the specified target sequence. - Recreate the target sequence.			Stop task
7412	A target sequence that does not contain vision calibration settings was specified.	Stop the task and do one of the following: - Check the specified target sequence. - Set the calibration in the target sequence.			Stop task
7413	The specified upward camera sequence calibration is not complete.	Stop the task and complete the target sequence calibration.			Stop task
7414	Unsupported RuntimeAcquire properties have been set in the target sequence.	Stop the task and do one of the following: - Check the specified target sequence. - Change target sequence RuntimeAcquire to Stationary.			Stop task
7415	Calibration with an invalid reference type was specified.	Stop the task and do one of the following: - Check the specified calibration data. - Check the camera orientation settings.			Stop task
7416	Invalid calibration data was specified.	Stop the task and reteach the reference point data in calibration.			Stop task
7417	Failed to set up vision calibration.	Stop the task and do one of the following: - Try to perform point teach of calibration again. - Check the specified target sequence.			Stop task
7418	An invalid calibration target sequence was specified.	Stop the task and do one of the following: - Select the target sequence again. - Check if the same target sequence as the vision calibration camera number was specified.			Stop task
7419	The target sequence camera differs from the calibration camera.	Stop the task and set the same camera sequence.			Stop task
7420	A target sequence that does not contain a vision object was specified.	Stop the task and add the detection object to the target sequence.			Stop task
7421	Failed the final step of the vision calibration target sequence.	Stop the task and check the final step of the target sequence.			Stop task
7422	Failed to detect vision calibration target.	Stop the task and check the target sequence.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7423	A sequence with an invalid number of results was specified.	Stop the task and create a sequence to detect the target number of results required for calibration.			Stop task
7424	Could not load specified point data.	Stop the task and reteach the reference point data in calibration.			Stop task
7425	An unsupported command was specified in the configured camera direction.	Stop the task and do one of the following: - Check CameraOrientation properties specified in vision calibration. - Check the specified vision calibration name. - Check SPEL command to be used.			Stop task
7426	Distortion correction calibration is incomplete.	Stop the task and do one of the following: - Execute distortion correction. - Disable distortion correction.			Stop task
7427	Invalid vision object was specified.	Invalid vision object is specified in Vision Guide commands such as VSet and VGet. Stop the task and do one of the following: - Reteach the required vision model. - Check the vision model specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7428	V and W coordinates are not zero even for SCARA robot calibration.	Set V and W of the Base to 0.			-
7429	An unsupported parameter was specified in robot speed.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7430	An unsupported parameter was specified in robot acceleration.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7431	An unsupported parameter was specified in ShowWarning.	Stop the task and match the parameter data specified in the SPEL command to the necessary variable. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. Also check the user guide for variable definitions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7432	An unsupported vision object was specified in a camera that was in use.	Stop the task and do one of the following: - Check the specified vision object. - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the camera firmware with the update tool.			Stop task
7433	Unsupported model data was specified.	The model being loaded may not be compatible with the current version of CV or RC+. Stop the task and do one of the following: - Check the specified vision model name. - Reteach the required vision model. - Rebuild the project. - Synchronize the project or transfer it via restore.			Stop task
7434	The vision camera connection password is incorrect.	Stop the task and do one of the following: - Enter the correct connection password in the Epson RC+ Camera page. - Do the following in order and set a new connection password. 1. Set a new connection password in CV Monitor. 2. Set the same password in the Epson RC+ Camera page. - Do the following in order and reset the password. 1. Perform a factory reset for the Compact Vision unit. 2. Rebuild the current project and check operation.			Stop task
7435	Network camera. Command cannot execute due to failed login.	Stop the task and do one of the following: - Enter the correct connection password in the Epson RC+ Camera page. - Do the following in order and set a new connection password. 1. Set a new connection password in CV Monitor. 2. Set the same password in the Epson RC+ Camera page. - Do the following in order and reset the password. 1. Perform a factory reset for the Compact Vision unit. 2. Rebuild the current project and check operation.			-
7440	Invalid point number.	Specify other point number.			-
7441	Invalid tool number.	Specify other tool number.			-
7444	An image file with an invalid resolution was specified.	Specify an image file with the same resolution.			-
7445	Invalid ConditionObject properties.	Check the setting for the ConditionObject property of the Decision object.			-
7446	Object not executed.	Check execution of the sequence. The object was not executed when the sequence run.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7500	Failed to allocate memory (camera).	Do one of the following: - Initialize the camera. - Reduce the project size.			-
7501	Camera Error The specified project does not exist.	Stop the task and do one of the following: - Reboot the camera or Controller. - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the camera firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task
7502	A vision camera without SPEL project settings was specified.	Stop the task and do one of the following: - Reboot the vision camera. - Rebuild the project. - Synchronize the project or transfer it via restore.			Stop task
7503	Camera error. Unsupported properties or results were specified.	Update the camera firmware.			-
7504	Cannot open camera project.	Stop the task and do one of the following: - Rebuild the project. - Synchronize the project or transfer it via restore.			-
7505	An undefined sequence name was specified.	Do one of the following: - Set the required sequence. - Check the sequence specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Rebuild the project. - Synchronize the project or transfer it via restore.			Stop task
7506	An undefined object name was specified.	Stop the task and do one of the following: - Set the required object. - Check the object name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Rebuild the project. - Synchronize the project or transfer it via restore.			Stop task
7507	An error occurred during camera processing.	Do one of the following: - Initialize the camera. - Rebuild the project.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7508	An unsupported command was specified.	Stop the task and do one of the following: - Check the specified command. - Check if the command support target is a virtual or real camera. - Check if a camera is specified as the command target. - Update the camera firmware with the update tool.			Stop task
7509	An unsupported value was specified in vision properties.	Stop the task and do one of the following: - Check the value specified in vision properties. - Update the camera firmware with the update tool.			Stop task
7510	An unsupported vision property name was specified.	Stop the task and do one of the following: - Check the specified vision property name. - Update the camera firmware with the update tool.			Stop task
7511	An undefined vision model was specified.	Stop the task and do one of the following: - Reteach the required vision model. - Check the vision model specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7512	An undefined vision calibration name was specified.	Stop the task and do one of the following: - Check vision calibration settings. - Check the vision calibration name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Synchronize the project or transfer it via restore.			Stop task
7513	The Self property is not set for the specified object's ModelObject property.	Stop the task and do one of the following: - Check the specified vision property. - Check the status of other vision models.			Stop task
7514	Invalid vision results were specified.	Stop the task and do one of the following: - Check the vision results name. - Update the camera firmware with the update tool.			Stop task
7515	A pre-detection vision object was specified.	Stop the task, check for detection in Found results, and execute.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7516	An undefined vision calibration name was specified.	Stop the task and do one of the following: - Check vision calibration settings. - Check the vision calibration name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Synchronize the project or transfer it via restore.			Stop task
7517	Vision calibration not executed.	Stop the task, conduct vision calibration, and try again.			Stop task
7518	Failed to connect to vision camera.	Stop the task, check the connection to the vision camera, and try again.			Stop task
7519	Failed to communicate with vision camera and Epson RC+.	Stop the task, check the connection to the vision camera, and try again.			Stop task
7520	Window specified out of bounds.	Stop the task, check window specification, and try again.			Stop task
7521	An unregistered OCR font was specified.	Stop the task, register the required OCR font, and try again.			Stop task
7522	A defined vision calibration name was specified.	Stop the task and do one of the following: - Check the specified vision calibration name. - Remove unnecessary vision calibration.			Stop task
7523	A defined sequence name was specified.	Stop the task and do one of the following: - Check the specified sequence name. - Remove the unnecessary sequence.			Stop task
7524	A defined vision object name was specified.	Stop the task and do one of the following: - Check the specified vision object name. - Remove the unnecessary vision object.			Stop task
7525	Cannot load vision project.	Stop the task and do one of the following: - Check if the specified vision object has been registered. - Rebuild the project. - Synchronize the project or transfer it via restore.			Stop task
7526	Cannot save vision project.	Stop the task and do one of the following: - Check access permissions for the project saving folder. - Check the space for the project saving folder.			Stop task
7527	A system error has occurred (major vision equipment error).	Stop the task and do one of the following: - Reboot the camera or Controller. - Rebuild the project. - Synchronize the project or transfer it via restore. - Update the camera firmware with the update tool. - If this error occurs repeatedly, contact us.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7528	The specified file does not exist.	Stop the task and do one of the following: - Check the file name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7529	Cannot recognize vision camera.	Stop the task, check the connection to the vision camera, and try again.			Stop task
7530	Cannot acquire image.	Stop the task, check the connection to the camera, and try again.			Stop task
7531	The specified vision object has not been taught.	Stop the task, teach the required vision object, and try again.			Stop task
7532	An image file with an invalid format was specified.	Do one of the following: - Check the image file format and extension. - Check the image file name.			Stop task
7532	An image file with an invalid format was specified.	Do one of the following: - Check the image file format and extension. - Check the image file name.			Stop task
7533	A function that is not supported by the camera being configured has been specified (wrong model).	SC300/SC1200 is not supported by Epson RC+8.0. Use CV1/CV2. Stop the task and do one of the following: - Check the camera to be used. - Check the required functions.			Stop task
7534	A function that is not supported by the camera being configured has been specified (different firmware version).	Stop the task and do one of the following: - Update the camera firmware. - Check the required functions.			Stop task
7535	Invalid data from Compact Vision unit.	Initialize the camera.			-
7536	Failed to export Compact Vision unit status.	Initialize the camera.			-
7537	The vision property ImageSize was specified with a value that is not supported by the camera being configured.	Cannot specify ImageSize larger than the camera resolution. Stop the task and do one of the following: - Check the vision properties values. - Check the camera.			Stop task
7538	A vision property ZoomFactor value that is too small for the search range was specified.	Settable values are from 0.1 to 10.0. Stop the task and do one of the following: - Check the vision properties values. - Check the range specification.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7539	The specified vision object Code Reader is not supported by the camera being configured.	Stop the task and do one of the following: - Check if the specified vision object is supported. - Update the camera firmware.			Stop task
7540	The specified vision object OCR is not supported by the camera being configured.	Stop the task and do one of the following: - Check if the specified vision object is supported. - Update the camera firmware.			Stop task
7541	Insufficient data for teaching model.	Black or white image cannot be registered as a model.			-
7542	Invalid model window position.	Correct the position of the model window.			-
7543	Undefined point data was specified.	Stop the task and do one of the following: - Teach the specified point data or define it. - Check the point data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7544	Calibration data not for an upward fixed camera was specified.	Stop the task and do one of the following: - Specify a sequence with a calibration data set for an upward fixed camera. - Recreate the calibration data on an upward fixed camera.			Stop task
7545	Calibration points have not been defined.	Stop the task and teach the calibration point.			Stop task
7546	RobotPlacePos has not been calibrated.	Stop the task, click CalRobotPlacePos, and calibrate RobotPlacePos.			Stop task
7547	An IP address outside the currently connected subnet range was set on the camera.	Stop the task and correct the camera IP address.			Stop task
7548	Camera was not detected.	Check camera wiring.			-
7549	An unsupported value was specified in vision properties Radius (RadiusInner-RadiusOuter).	Stop the task and check the vision properties values specified in the vision sequence. Targets are the commands corresponding to the function name and row number in the system history. See the vision guide reference manual for correction instructions.			Stop task
7550	No registered characters in OCR.	Register characters in OCR.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7551	A SPEL command that requires OCR software option settings was specified.	Stop the task and do one of the following: - Set software options that are required to execute a SPEL command. - Check the SPEL command to be used. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7552	Sequence ImageSize does not match the calibration video width and height.	Stop the task and do one of the following: - Reset ImageSize to calibration execution settings. - Conduct vision calibration again.			Stop task
7553	Only one non-ASCII character is allowed when teaching a font character for OCR.	Do one of the following: - Specify one font character. - Check the character type.			-
7560	Distortion correction calibration could not run the target sequence.	Stop the task and make the target sequence executable.			Stop task
7561	An invalid target sequence was specified in distortion correction calibration.	Stop the task and make the target detectable.			Stop task
7562	Distortion correction calibration failed.	Stop the task and check the camera or the target installation location, or check the selected lens.			Stop task
7563	Distortion correction calibration could not find the targets.	Stop the task and check the camera or the target installation location, or check the selected lens.			Stop task
7564	Calibration target sequence RuntimeAcquire not Stationary.	Stop the task and check the target sequence properties.			Stop task
7565	The camera specified in vision calibration does not match.	Stop the task and check the distortion correction calibration target sequence and the robot calibration target sequence properties.			Stop task
7566	RobotLocal properties cannot be changed because vision calibration is complete.	Stop the task and check the specified vision properties.			Stop task
7567	Cannot locate rotational center of model.	Stop the task, manually set the model origin, and try again.			Stop task
7568	Not enough targets were found for distortion correction calibration	Stop the task and change the field of view or calibration target so that 100 or more targets can be found.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7569	The ArcSearchType setting does not match ArcSearchType for ArcFinder set in ArcObject.	Stop the task and check the ArcSearchType settings.			Stop task
7570	ThresholdAuto is enabled, so the specified vision properties cannot be changed.	Stop the task, disable ThresholdAuto, and try again.			Stop task
7572	Invalid sequence name.	Specify a name that begins with an alphabet. Alpha-numeral and under score (_) are available for the name.			Stop task
7573	Invalid calibration name.	Specify a name that begins with an alphabet. Alpha-numeral and under score (_) are available for the name.			Stop task
7574	A defined vision sequence name or vision calibration name was specified.	Stop the task and do the following: - Delete the unnecessary vision sequence and vision calibration settings. - Check the vision sequence name and vision calibration name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7575	An invalid camera was specified.	Stop the task and do the following: - Set a camera to be used. - Check the camera specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7576	Calibration marks not found.	Stop the task and check the vision sequence so that the target can be detected.			Stop task
7577	Failed to position the vision target within the specified tolerance.	Stop the task and check the vision sequence so that the target can be detected.			Stop task
7578	Object does not exist in the search window.	Stop the task and add an object to detect the target in the vision sequence.			Stop task
7579	An out-of-range value was specified for the initial rotation angle. Or the initial and final rotation angles are reversed.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7580	The final rotation angle was set to an out-of-range value.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7581	An out of range value was specified for the target tolerance.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7582	An unsupported parameter was specified in tool definition type.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7583	The rotation angle is out of range (RadiusInner-RadiusOuter).	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7584	An unsupported parameter was specified in local definition type.	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7585	Failed to detect vision calibration plate.	Stop the task and adjust the focus and exposure time of the lens to show the target clearly, then try again.			Stop task
7586	Failed to detect focal length.	Stop the task, narrow the lens diaphragm, and try again.			Stop task
7587	Failed to detect local definition scale.	Stop the task and adjust the focus and exposure time of the lens to show the target clearly, then try again.			Stop task
7588	Failed to detect vision calibration plate pose.	Stop the task and adjust the focus and exposure time of the lens to show the target clearly, then try again.			Stop task
7589	Invalid vision object was specified.	Stop the task and check the vision object name specified in the vision sequence. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7590	Maximum move distance exceeded the limit set by VDefSetMotionRange.	Stop the task and do one of the following: - Adjust the vision calibration start position. - Increase the limit value VDefSetMotionRange setting.			Stop task
7591	Maximum pose difference angle exceeded the limit set by VDefSetMotionRange.	Stop the task and do one of the following: - Adjust the vision calibration start position. - Increase the limit value VDefSetMotionRange setting.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7596	Local definition rough camera alignment via vision calibration failed.	Stop the task, adjust the start position, and try again.			Stop task
7597	Cannot calculate local definition surface required for vision calibration.	Stop the task and adjust the vision sequence to show the calibration plate clearly.			Stop task
7598	The point move distance calculated by vision calibration is too short.	Stop the task and do one of the following: - Set a larger search area to specify in vision calibration. - Set a smaller target to specify in vision calibration.			Stop task
7599	The positional relationship between the camera and robot calculated by vision calibration is invalid.	Stop the task and do one of the following: - If you specified a virtual camera, specify a real camera and try again. - Recalibrate the robot and then try vision calibration again.			Stop task
7600	Cannot execute GUI Builder commands from a command window.	Execute the command from the SPEL program.			Stop task
7602	A string longer than the limit was specified (GSet).	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7603	Too many parameters specified (GGet).	Stop the task and check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7604	Insufficient parameters specified (GGet).	Stop the task and do one of the following: - Check the parameter data specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions. - Check the connection to Epson RC+.			Stop task
7610	GUI Builder EventTaskType is Normal, so it cannot be started during PAUSE.	Stop the task and do one of the following: - Set TaskType to NoPause. - Check the SPEL command usage. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7611	GUI Builder. The event task cannot be executed. Safeguard is open and EventTaskType is Normal.	Stop the task and do one of the following: - Disable the safeguard (safety fence closed) and then start the task. - Set TaskType to NoEmgAbort. - Check the SPEL command usage. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7612	GUI Builder EventTaskType is not NoEmgAbort, so it cannot be started during emergency stop.	Stop the task and do one of the following: - Set TaskType to NoEmgAbort. - Check the SPEL command usage. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7613	GUI Builder EventTaskType is not NoEmgAbort, so it cannot be started while an error is occurring.	Stop the task and do one of the following: - Set TaskType to NoEmgAbort. - Check the SPEL command usage. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7650	An invalid GUI Builder property was specified.	Stop the task and check the GUI Builder property specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7651	An invalid GUI Builder form was specified.	Stop the task and check the GUI Builder form specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7652	An invalid GUI Builder control was specified.	Stop the task and check the GUI Builder control specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7653	A GUI Builder form that is already running was specified.	Stop the task and check the SPEL command usage and execution order. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7654	The specified event function does not exist (GUI Builder).	Stop the task and check the event function specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7655	The specified GUI Builder item does not exist.	Stop the task and check the GUI Builder item specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7656	An invalid GUI Builder property value was specified.	Stop the task and check the GUI Builder property value specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7657	The specified row number does not exist.	Check the row number.			Stop task
7658	The specified column number does not exist.	Check the colum number.			Stop task
7659	The specified number of rows is invalid.	Reduce the number of rows.			Stop task
7700	Security: Invalid user.	Contact the administrator to register the user.			Stop task
7701	Security: Invalid password.	Check the password.			Stop task
7703	Security: Option not active.	Register the options.			Stop task
7710	A file with the same name as the import source was specified in the import destination.	Stop the task and check the file name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7711	A point file in use by another robot was specified.	Stop the task and check the point file name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7712	An invalid axis was specified.	Stop the task and check the axis specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7713	A SPEL command that requires software option settings was specified.	Stop the task and do one of the following: - Set software options that are required to execute a SPEL command. - Check the SPEL command to be used. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7714	The specified file does not exist.	Stop the task and do one of the following: - Check the file name specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7715	An unregistered robot was specified.	Stop the task and do one of the following: - Check the robot configuration. - Check the robot number specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7716	An unregistered robot was specified.	Check if the robot is registered.			Stop task
7717	The specified folder does not exist.	Stop the task and do one of the following: - Check the folder name specified in the vision sequence. - Create the specified folder.			Stop task
7718	Cannot write the file to the PC.	Stop the task and do one of the following: - Check if there is sufficient PC space. - Check the write permissions of the specified folder.			Stop task
7719	Invalid USB option key license.	Enable the option by USB key for option license.			Stop task
7720	Part feeding: There are no feeders in the system.	Check [Setup] - [System Configuration] - [Controller] - [Part Feeding] page of the Epson RC+.			Stop task
7730	An attempt was made to set a number of robots that exceeds the upper limit in the part feeder.	When using the PartFeeding option, the maximum number of robots per feeder is 2. Review the robot settings of each part that is specified in the argument of the PF_Start command.			Stop task
7732	A command that cannot be executed was specified in the selected part feeder.	When executing PF_Start, this command cannot be executed with the user function. Check the SPEL command usage. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7733	PF_Start is in progress, so this command can only be executed from the PF callback function.	Do one of the following: - Change the SPEL command call to fall within the callback function. - Check the SPEL command usage. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7734	A task used in user code was specified.	In PartFeeding option, uses tasks task 32 to 29 in order from larger number to smaller number. When using PartFeeding option, do not use these task numbers. Check the number of tasks used simultaneously in the SPEL project.			Stop task
7735	Cannot close purge gate.	Do one of the following: - Check if a foreign matter stucks in the open/close part of the purging gate. - Check if it is possible to communicate with a feeder. In Epson RC+ -[Setup]-[System Configuration]-[Controller]-[PartFeeding], select the applicable feeder, click the [Test] button, then you can operate the communication test.			Stop task
7736	The purge gate is not connected.	Check if the purge gate is properly installed and wired.			Stop task
7737	Search window angle is out of range.	When rotating the search window, set the rotation angle within ±45 degrees.			Stop task
7738	Part Blob search window type is not Rectangle or RotatedRectangle.	Set the SearchWin property that specifies the camera imaging range to Rectangle or RotatedRectangle.			Stop task
7750	Simulator initialization process failed. Cannot execute.	Reboot Epson RC+.			-
7751	Failed to save simulator file.	Reboot Epson RC+.			-
7752	Failed to read simulator file.	Reboot Epson RC+.			-
7753	Failed simulator memory mapping.	Reboot Epson RC+.			-
7754	Simulator: Virtual controller information already exists.	Check the virtual controller name.			-
7755	Simulator: Failed to create virtual controller information.	Reboot Epson RC+.			-
7756	Simulator: Copy source virtual controller information does not exist.	Check the virtual controller name.			-
7757	Simulator: Copy destination virtual controller information already exists.	Check the virtual controller name.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7758	Simulator: Failed to copy virtual controller information.	Reboot Epson RC+.			-
7759	Simulator: Failed to delete virtual controller information.	Reboot Epson RC+.			-
7760	Simulator: Failed to delete controller information.	Reboot Epson RC+.			-
7761	Simulator: Failed to change controller information name.	Check the virtual controller name.			-
7762	Simulator: Name change source virtual controller information does not exist.	Check the virtual controller name.			-
7763	Simulator: Name change destination virtual controller information already exists.	Check the virtual controller name.			-
7764	Simulator: Invalid robot number.	Reboot Epson RC+.			-
7765	Simulator: Failed to read robot definition file.	Check if the definition file exists.			-
7766	Simulator: Failed to copy layout objects.	Reboot Epson RC+.			-
7767	Simulator Failed to cut simulator layout objects.	Reboot Epson RC+.			-
7768	Simulator: Failed to paste layout objects.	Reboot Epson RC+.			-
7769	Simulator: Failed to remove robot.	Reboot Epson RC+.			-
7773	Simulator: Neither robot nor object were specified.	Specify robot or object.			-
7774	Simulator robot or object name duplicated.	Change the robot name or object name so that it is not duplicated.			-
7775	Cannot find simulator robot.	Check whether the Robot is set or check the Robot name.			-
7776	Cannot find simulator object.	Check whether the Object is set or check the Object name.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7777	Cannot find simulator hand.	Check whether the Hand is set or check the Hand name.			-
7778	Simulator: The specified object is already registered as a part.	Unregister the Part.			-
7779	Simulator: The specified object is not a part.	Specify the object set for the Part.			-
7780	Simulator: Cannot find specified tool.	Specify the set Tool.			-
7781	Simulator: Cannot pick child object.	Change to parent object.			-
7782	Simulator: Parent objects cannot be specified in simulator parts, mounted devices, or mobile cameras.	Unregister as part, mounted device or mobile camera.			-
7783	Cannot specify simulator robot.	Specify an Object other than Robot.			-
7784	Simulator: The same object can not be specified as a parent object.	Specify another object.			-
7785	Simulator: The child object can not be specified as a parent object.	Change to parent object.			-
7786	Simulator: The specified object is already registered as a parent object.	Specify another object.			-
7787	Simulator: An invalid value was specified.	Check the set value.			-
7788	Simulator: An invalid variable type was specified.	Check the variable type.			-
7789	Simulator: Cannot specify object.	Specify the Robot.			-
7790	Simulator: Cannot specify hand.	Specify an object other than Hand.			-
7791	Simulator: Cannot specify camera.	Specify an object other than Camera.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7800	A non-PG axis number was specified.	Check the set value.			-
7801	Failed to save PG parameter setting.	Do one of the following: - Execute again. - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - Replace the controller SD. - If this error occurs repeatedly, contact us.			-
7802	A non-joint robot type was specified.	Do one of the following: - Check the robot type. - Specify the correct file and try again. - Reboot the Controller. - Update the controller firmware with the update tool.			-
7803	An unsupported parameter was specified.	Do one of the following: - Check the parameters specified in the UI. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
7804	Robot not selected.	Select the robot.			-
7805	Failed to acquire settings (MCD).	Do one of the following: - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - Replace the controller SD. - If this error occurs repeatedly, contact us.			-
7806	Failed to acquire settings (MCD).	Do one of the following: - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - Replace the controller SD. - If this error occurs repeatedly, contact us.			-
7807	Failed to save settings (MCD).	Do one of the following. - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - Replace the controller SD. - Replace the controller board. - If this error occurs repeatedly, contact us.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7808	Failed to save settings (MCD).	Do one of the following. - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - Replace the controller SD. - Replace the controller board. - If this error occurs repeatedly, contact us.			-
7810	Failed to acquire system settings (MPL).	Do one of the following. - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller SD. - If this error occurs repeatedly, contact us.			-
7811	Failed to acquire system settings (MPL).	Do one of the following. - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller SD. - If this error occurs repeatedly, contact us.			-
7812	Failed to save MT robot system settings.	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool.			-
7815	Failed to get settings (open).	Do one of the following. - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller SD. - If this error occurs repeatedly, contact us.			-
7816	Failed to get settings (read).	Do one of the following. - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller SD. - If this error occurs repeatedly, contact us.			-
7817	Failed to save settings (write).	Do one of the following. - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller SD. - If this error occurs repeatedly, contact us.			-
7822	Failed to get MT Robot settings (MTR loading).	Correct the issue or update using the MT setup tool.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7824	Failed to save MT Robot settings (MTR).	Correct the issue or update using the MT setup tool.			-
7829	Failed to save robot settings.	Do one of the following: - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - Replace the controller SD. - Replace the controller board. - If this error occurs repeatedly, contact us.			-
7830	Failed to acquire system settings.	Do one of the following: - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller SD. - If this error occurs repeatedly, contact us.			-
7831	Failed to acquire system settings (motor type error).	Do one of the following. - Execute again. - Reboot the Controller. - Update the controller firmware with the update tool. - Replace the controller SD. - If this error occurs repeatedly, contact us.			-
7840	Failed to allocate memory.	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			-
7845	Failed to acquire settings (FGI).	Do one of the following: - Reboot the Controller. - Restore the backup file that was operating correctly. - Update the controller firmware with the update tool. - Replace the controller SD. - If this error occurs repeatedly, contact us.			-
7900	Cannot recognize fieldbus master board.	Stop the task and do one of the following: - Check that the fieldbus master board is registered in PC slot 1. - Check that the fieldbus master board is installed. - Reboot the PC where the fieldbus master board is installed. - Replace the fieldbus master board.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7901	An error was detected during communication between the fieldbus master and slave (parameter error).	Stop the task and do one of the following: - Check the configuration. - Check the communication cable connection between the fieldbus master and slave. - If the communication cable between the fieldbus master and slave require a power supply, check the power source. - Check the fieldbus slave status.			Stop task
7902	Communication between the fieldbus master and slave has failed (network error).	Stop the task and do one of the following: - Check the communication cable connection between the fieldbus master and slave. - If the communication cable between the fieldbus master and slave require a power supply, check the power source. - Check the fieldbus slave status.			Stop task
7903	Failed to initialize the fieldbus master board.	Stop the task and do one of the following: - Check that the fieldbus master board is installed. - Reboot the PC where the fieldbus master board is installed. - Replace the fieldbus master board.			Stop task
7904	Fieldbus master board cannot be recognized (board is invalid).	Stop the task and do one of the following: - Check that the fieldbus master board is registered in PC slot 1. - Check that the fieldbus master board is installed. - Reboot the PC where the fieldbus master board is installed. - Replace the fieldbus master board.			Stop task
7905	Fieldbus master board cannot be recognized (cannot connect).	Stop the task and do one of the following: - Check that the fieldbus master board is installed. - Reboot the PC where the fieldbus master board is installed. - Replace the fieldbus master board.			Stop task
7906	Failed to initialize the fieldbus master board.	Stop the task and do one of the following: - Check that the fieldbus master board is installed. - Reboot the PC where the fieldbus master board is installed. - Replace the fieldbus master board.			Stop task
7907	Communication between the fieldbus master board and the controller has failed (general error).	Stop the task and do one of the following: - Check that the fieldbus master board is installed. - Reboot the PC where the fieldbus master board is installed. - Replace the fieldbus master board.			Stop task

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7908	A fieldbus configuration error occurred (configuration error).	Check the fieldbus master setting.			-
7909	Slave not configured on fieldbus master.	Stop the task and register the slave to the fieldbus master using the included applicomIO Console application.			Stop task
7910	Fieldbus: Configuration file not found.	Import the Fieldbus configuration file as described in the Fieldbus I/O manual.			-
7911	Fieldbus: Invalid configuration file.	Import the Fieldbus configuration file as described in the Fieldbus I/O manual. If the problem persists, contact Epson.			-
7912	An unsupported device ID was specified.	Stop the task and check the device ID specified in the SPEL command. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7913	An unsupported messaging service number was specified.	Stop the task, check the sent data specified in the SPEL command, and specify a valid Explicit message service number. Targets are the commands corresponding to the function name and row number in the system history. See the reference manual for correction instructions.			Stop task
7914	Fieldbus: Cannot open master board driver.	Check that the Fieldbus master board is installed correctly. Check that the drivers for the Fieldbus master board were installed correctly.			-
7915	Fieldbus: Cannot open master board channel.	Check that no other application is using the Fieldbus master board. Check that the correct firmware is installed (downloaded) on the board.			-
7916	Fieldbus: Host ready timeout.	Check that the drivers for the Fieldbus master board were installed correctly. Reboot and try again. Replace the board.			-
7917	Fieldbus: Bus communication timeout occurred.	Check the bus power and slave connections.			-
7930	OPC UA: Server not activated. Cannot start.	Activate the OPC UA function.			-
7931	OPC UA server certificate not registered. Cannot start.	Do one of the following: - Register a Sever Certificate. - Or check the server certificate type.			-
7932	Invalid OPC UA server settings. Cannot start.	OPC UA: Check the server settings.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
7933	OPC UA: A number that has already been set in the server port number was specified.	Do one of the following: - Set a different port number. - Remove unnecessary port numbers from settings.			-
7975	An unsupported value was specified in the force guide.	Do one of the following: - Check the parameters specified in the force guide. See the reference manual for correction instructions. - If this error occurs repeatedly, contact us.			-
7976	An unsupported property value was specified in the force guide.	Do one of the following: - Check the property value specified in the force guide. See the reference manual for correction instructions. - If this error occurs repeatedly, contact us.			-
7977	Force guide: There is no robot using a force sensor.	Check the Epson RC+ [Setup] - [System Configuration] - [Controller] - [Force Sensing] - [Force Sensor] page.			-

2.9 Code Number 9000 ~

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
9001	Emergency stop circuit failure detected. Disconnection or other failure was found in one of the redundant inputs.	Check for a disconnection, earth fault, or short-circuit of the emergency stop input signal, then reboot the controller.			Reboot
9002	Safeguard (safety fence) circuit failure detected. Disconnection or other failure was found in one of the redundant inputs.	Check for a disconnection, earth fault, or short-circuit of the safeguard (safety fence) input signal, then reboot the controller.			Reboot
9003	Initialization failure. Failed to initialize the firmware.	Check if the wiring is correct. If the error is not cleared after the controller is rebooted, contact us.			Reboot
9006	Initialization failure. Failed to initialize the Remote I/O.	Check the Remote I/O setting value.			Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
9007	Error of Force Sensor occurs. Note 1: Each error code	Force Sensor error. Please confirm Note 1 by the system history, and take a relevant countermeasure.	Error codes		Reboot
9008	Communication between RC+ and controller was lost during calibration.	Reboot the Controller.	Error codes		Reboot
9009	A Safety board that is not supported by the controller is connected.	Remove the Safety board and reboot the controller.			Reboot
9010	A board that is not supported by the controller is connected.	Remove the board and reboot the controller.	IO port	Base type	Reboot
9011	Battery voltage of the backup is lower than the allowed voltage.	Check if the backup battery is connected.	100 times of current value	100 times of boundary value	Reboot
9012	5V input voltage for the MAIN board is lower than the allowed voltage.	Replace the MAIN board.	100 times of current value	100 times of boundary value	Reboot
9013	Motor brake, encoder and fan 24 V input voltage is lower than the specified voltage.	If normal voltage is not generated by 24V power supply alone, replace the power supply.	100 times of current value	100 times of boundary value	Reboot
9014	Internal temperature of the controller is higher than the specified temperature.	Stop the controller as soon as possible and check whether the ambient temperature of the controller is not high. Check if the filter is clogged.	100 times of current value	100 times of boundary value	Reboot
9015	Rotating speed of the controller fan is below the allowed speed (FAN1).	Check if the controller filter is clogged. Replace the fan.	Current value	Boundary value	Reboot
9016	Rotating speed of the controller fan is below the allowed speed (FAN2).	Check if the controller filter is clogged. Replace the fan.	Current value	Boundary value	Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
9017	Internal temperature of the controller is higher than the specified temperature.	Stop the controller as soon as possible and check whether the ambient temperature of the controller is not high. Check if the filter is clogged.	100 times of current value	100 times of boundary value	Reboot
9019	3.3V input voltage for the MAIN board is lower than the allowed voltage.	Replace the MAIN board.	100 times of current value	100 times of boundary value	Reboot
9020	DC input voltage for the MAIN board is outside the allowed voltage range.	Replace the MAIN board.	100 times of current value	100 times of boundary value	Reboot
9100	Failed to allocate memory.	Do one of the following: - Reboot the Controller. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reboot
9101	Communication with control device failed (message queue limit exceeded).	Do one of the following: - Restart the controller, control device, and connected devices. - Update the controller firmware with the update tool. - If this error occurs repeatedly, contact us.			Reboot
9102	Failed to initialize Modbus settings.	Do one of the following: - Check if the selected port is installed (when RTU is selected). - Check if the selected port number is used by another device (when TCP is selected)			Reboot
9103	Failed to initialize the user defined Remote I/O.	If the manipulator is specified, check if it is registered.			Reboot
9104	Failed to execute the user defined Remote I/O.	Do the following in order. 1. Review the expression in Epson RC+ [System Configuration] - [Controller] - [Remote] - [User Output]. 2. Reboot. 3. Execute again.			Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
9105	A TP that is not supported by the controller is connected.	Remove the TP and reboot the Controller.	1: TP12: TP23: TP3		Reboot
9106	The upgrade license deadline does not match.	Contact your supplier and update the upgrade license.			Reboot
9107	The controller power source has degraded.	Controller power source degradation detected. - Please contact the supplier of your region.			Reboot
9233	The Fieldbus I/O driver is in an abnormal state.	The module is broken or the controller software is damaged. Restore the controller firmware.			Reboot
9234	Failed to initialize fieldbus I/O.	The module is broken or the controller software is damaged. Restore the controller firmware.			Reboot
9610	RAS circuit detected a servo system failure.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot
9611	Servo CPU RAM failure.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot
9612	Communication RAM failure between main CPU and servo CPU.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot
9613	Servo CPU RAM failure.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot
9614	Initialization communication failure between main CPU and servo CPU.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
9615	Initialization communication failure between main CPU and servo CPU.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot
9616	Communication failure between main CPU and servo CPU.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot
9617	Communication failure between main CPU and servo CPU.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot
9618	Servo long time command overrun.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot
9619	Servo long time command checksum error detected.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot
9620	System watchdog timer detected a failure.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot
9621	Drive unit check failure.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			-
9622	Servo CPU RAM failure.	Do one of the following: - Reboot the Controller. - Implement noise countermeasures. - Replace the MAIN board.			Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
9623	Emergency stop/safeguard (safety fence) redundancy circuit failure.	Check the wiring of the emergency stop or the safeguard (safety fence).			Reboot
9624	Low voltage detected at main circuit power source.	Do one of the following: - Check the power supply voltage. - Reboot the Controller.			Reboot
9625	Main circuit power supply control relay contact is welded.	Replace the DPU.			Reboot
9630	Servo real time status failure. Checksum error detected.	A data checksum error was detected in the controller. Do one of the following: - Check the short-circuit and improper connection of the peripheral equipment wiring. (Emergency, D-I/O, and Expansion I/O connectors) - Replace the controller.			Reboot
9632	Servo real time status failure. Servo free running counter error.	A free running counter error was detected in the controller. Do one of the following: - Check the short-circuit and improper connection of the peripheral equipment wiring. (Emergency, D-I/O, and Expansion I/O connectors) - Replace the controller.			Reboot
9700	Servo control gate array failure.	Do one of the following: - Check the short-circuit and improper connection of the peripheral equipment wiring. (Emergency and I/O connectors) - Replace the main board. - Replace the additional axis unit.			Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
9702	Motor driver not mounted.	Do one of the following: - Check whether the motor driver is mounted. - Check the model setting and hardware setting. - Replace the motor driver. - Replace the MAIN board.			Reboot
9705	Encoder division setting failure.	Check the model setting.			Reboot
9707	Encoder multi-turn beyond maximum range.	Do one of the following: - Reset the encoder. - Replace the motor.			Reboot
9708	Position is out of range.	Do one of the following: - Reset the encoder. - Replace the MAIN board. - Replace the motor.			Reboot
9709	No encoder response.	Do one of the following: - Check the model setting. - Check the signal cable connection. - Replace the main board and encoder I/F board.			Reboot
9710	Failed to initialize encoder.	Do one of the following: - Reboot the Controller. - Check the robot configuration. - Check the signal cable connection. - Replace the main board and encoder I/F board.			Reboot
9711	Failed to communicate with encoder.	Do one of the following: - Reboot the Controller. - Check the robot configuration. - Check the signal cable connection. - Replace the main board and encoder I/F board.			Reboot
9712	Servo CPU watchdog timer detected a failure.	Do one of the following: - Reboot the Controller. - Check the noise countermeasure. - Replace the MAIN board.			Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
9713	Current control circuit WDT detected a failure.	Do one of the following: - Reboot the Controller. - Check the power cable connection. - Check the 15V power supply and cable connection. - Check the noise countermeasure. - Replace the MAIN board.			Reboot
9714	The main board is not compatible with the robot.	Do one of the following: - Check the robot configuration. - Replace it with a main board that is compatible with the robot.			Reboot
9715	The encoder was reset.	Reboot the Controller.			Reboot
9716	Encoder data backup power supply failure.	Do one of the following: - Check the signal cable connection. - Replace the encoder batteries and reset the encoder.			Reboot
9717	Encoder data backup data failure.	Do one of the following: - Reset the encoder. - Check the signal cable connection.			Reboot
9719	Encoder position failure.	Do one of the following: - Reset the encoder. - Replace the motor. (Encoder failure)			Reboot
9720	Speed is too high when encoder power supply is on.	Do one of the following: - Check the interference with the other devices. - Check that robot operation has been stopped and reboot the Controller. - Reset the encoder.			Reboot
9722	R/D transducer failure.	Do one of the following: - Check the signal wiring of the manipulator (loose pin, disconnection, short). - Reset the encoder.			Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
9723	G sensor communication failure.	Do one of the following: - Check the signal wiring connection. - Check the signal wiring of the manipulator (loose pin, disconnection, short). - Check the noise countermeasures. - Replace the control board. - Replace the MAIN board.			Reboot
9724	G sensor data failure.	Replace the control board.			Reboot
9725	The multi rotational data and the R/D conversion data is different.	Do one of the following: - Check the noise countermeasure.			Reboot
9726	Resolver excitation signal disconnected.	Do one of the following: - Check the signal wiring of the manipulator (loose pin, disconnection, short). - Reset the encoder.			Reboot
9727	S-DSP detected the communication error in DSP.	Do one of the following: - Reboot the Controller. - Check the noise countermeasure. - Replace the MAIN board.			Reboot
9728	Current feedback data error detected.	Do one of the following: - Reboot the Controller. - Check the noise countermeasure. - Replace the MAIN board.			Reboot
9729	D-DSP communication failure.	Do one of the following: - Reboot the Controller. - Check the noise countermeasure. - Replace the MAIN board.			Reboot
9730	Speed is too high when encoder power supply is off.	Do one of the following: - Reset the encoder. - Replace the motor.			Reboot
9731	Encoder speed is too high.	Do one of the following: - Reset the encoder. - Replace the motor.			Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
9732	Servo alarm A.	Reboot the Controller.			Reboot
9733	Failed to initialize G sensor.	Do one of the following: - Reboot the Controller. - Check the signal cable connection. - Check the noise countermeasure.			Reboot
9734	Encoder reset failed.	Do one of the following: - Reboot the Controller. - Reset the encoder again. - Check the signal cable connection. - Replace the motor. (Encoder failure) - Check the noise countermeasures.			Reboot
9740	A servo CPU system error occurred.	Do one of the following: - Reboot the Controller. - Check the noise countermeasure. - Replace the MAIN board.			Reboot
9800	Safety board detected an encoder error.	Do one of the following: - Reboot the Controller. - Do the following in order. 1. Remedy the encoder error occurred together in the system history. 2. If no related errors occur, do one of the following: - Check the connection of the Safety board. - Replace the Safety Board.	Type of error 1: Communication 2: Internal	Joint number 1:J12:J24:J38:J416:J532:J6	Reboot
9801	Safety board detected a position error.	Do one of the following: - Reboot the Controller. - Do the following in order. 1. Remedy the position error in the system history. 2. If the Torque Control Mode (TCLim command) is used, correct the program with the SPEL command reference. 3. If a related error has not occurred, implement HOFS settings from the Safety Function Manager.		Joint number 1:J12:J24:J38:J416:J532:J6	Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
9802	Safety board detected an input duplication error.	Do one of the following: - Reboot the Controller. - Check how to use TP. After rebooting the controller, grip the middle of the enable switch and apply pressure evenly to the whole switch. - Check the connection between the Safety board and emergency stop button, and or input devices such as TP. Make sure to shut the controller off before connecting or disconnecting a connector.	Type of error 1: SAFETY_IN 12: SAFETY_IN 24: SAFETY_IN 38: SAFETY_IN 416: SAFETY_IN 532: Enable switch 64: Emergency stop switch (TP) 128: Emergency stop switch (controller connection)		Reboot
9803	Safety board detected an output duplication error.	Do one of the following: - Reboot the Controller. - Check the connection between the external device and the Controller. - Check how to use TP. Grip the middle of the enable switch and apply pressure evenly to the whole switch. - Correct the settings or program so that the robot operates with a margin for the safe speed monitoring and safe position monitoring settings. - Check the safety I/O connector power connection. Make sure to shut the controller off before connecting or disconnecting a connector.	Type of error 1: SAFETY_OUT 12: SAFETY_OUT 24: SAFETY_OUT 3128: Safety torque OFF		Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
9804	Safety board error detected.	Do one of the following: - Reboot the Controller. - Check the connection of the Safety Board in the Controller. - Replace the Safety Board.	[Note 1] Type of error 2: Watchdog timer detection 4: Power supply (5V) 8: Power supply (3.3V) 64: Communication bus		Reboot
9805	Safety board MCU error detected.	Check the Notes in the system history and take an appropriate measure according to the status. [Parameter error (Note 1 = 1, and Note 2 = 255)]* Use the Safety Function Manager and write the robot parameters to the Safety board.* Occurrence of this error after replacing the Safety Board is no problem. In that case, perform the above operation. [No parameter error] Do one of the following: - Reboot the Controller. - Replace the Safety Board, if this error occurs repeatedly.	Type of error 1: Data ROM2: Program ROM4: RAM16: Sequence monitor 128: CPU	When Note 1 is 1 0 - 254: Data failure location 255: Parameter error	Reboot
9806	Safety board detected controller error.	Do one of the following: - Reboot the Controller. - If this error occurs repeatedly, contact us.	Type of error 1: Operation mode reception error		Reboot
9807	Safety board detected relay welding.	Reboot the Controller. Do the following in order if this error continues to occur. 1. Remedy the relay welding error occurred together in the system history. 2. If no related errors occur, do one of the following: - Check the connection of the Safety Board in the Controller. - Replace the Safety Board.	Type of error 1: Relay welding		Reboot

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
9809	Signal mismatch occurred in Safety board.	Do one of the following: - Reboot the Controller. - Check how to use TP. After rebooting the controller, grip the middle of the enable switch and apply pressure evenly to the whole switch. - Correct the settings or program so that the robot operates with a margin for the safe speed monitoring and safe position monitoring settings. - Check the connection of the Safety Board in the Controller. - Replace the Safety Board.	[Note 1] Type of error 1: Status mismatch 2: Hand position mismatch		Reboot
9810	The Safety board is not connected.	Do one of the following: - Reboot the Controller. - Check the connection of the Safety Board in the Controller. - Replace the Safety Board.	Type of error 1: Safety board		Reboot
9811	Controller robot model and Safety board settings differ.	Do the following in order. 1. Select the Robot Model in the Controller settings. 2. Correct the settings of the Safety Board from the Safety Function Manager.			Reboot
9812	Controller robot checksum value and Safety board settings differ.	Do the following in order. 1. Select the Robot Model in the Controller settings. 2. Correct the settings of the Safety Board from the Safety Function Manager.	Checksum value of Controller.	Checksum value of Safety Board.	Reboot
9814	Controller settings and Safety board settings differ.	Correct the settings of the Safety Board from the Safety Function Manager.	Settings with detected difference 1: Dry Run setting		Reboot

2.10 Code Number 10000 ~

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
10000	Command aborted by user	Check the status and try again.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
10001	Command timeout.	Do one of the following: - Reboot Epson RC+. - Reinstall Epson RC+.			-
10002	Bad point file line syntax	Do one of the following: - Check the point file. - Restore the backup file that was operating correctly.			-
10003	Project could not be built.	Do one of the following: - Check the project. - Reboot Epson RC+.			-
10004	Cannot initialize Spel class instance.	Do one of the following: - Reboot Epson RC+. - Reinstall Epson RC+.			-
10005	Cannot initialize parser.	Do one of the following: - Reboot Epson RC+. - Reinstall Epson RC+.			-
10006	Cannot initialize wbproxy.	Do one of the following: - Reboot Epson RC+. - Reinstall Epson RC+.			-
10007	Project does not exist.	Check whether the project name and the path are correct.			-
10008	No project specified.	Specify the project.			-
10009	Cannot open file.	Check whether the project name and the path are correct.			-
10010	Cannot create file.	Do one of the following: - Check whether the project name and the path are correct. - Check if there is sufficient space to save in the destination.			-
10011	File not found	Check whether the project name and the path are correct.			-
10012	Cannot execute FLoad with Robot Manager open.	Close the robot manager and execute.			-
10013	Cannot execute LoadPoints with Robot Manager open.	Close the robot manager and execute.			-
10014	Project cannot be locked. It is being used by another session.	Terminate other applications.			-
10015	Project could not be synchronized.	Do one of the following: - Check the project. - Check the connection between the Controller and Epson RC+.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
10016	Drive not ready	Check whether the drive designation is correct.			-
10017	Invalid IP address	Check the IP address.			-
10018	Invalid IP mask	Check the IP mask.			-
10019	Invalid IP gateway	Check the IP gateway.			-
10020	IP address or gateway cannot be the subnet address.	Check the IP address.			-
10021	IP address or gateway cannot be the broadcast address.	Check the IP address.			-
10022	Invalid DNS address	Check the DNS.			-
10023	Commands cannot be executed because the project build is not complete.	Execute after the project build is completed.			-
10024	Invalid task name.	Check the task name.			-
10100	Command already in cycle.	Wait for the command to finish executing and try again.			-
10101	Command aborted by user.	Execute ResetAbort.			-
10102	Invalid server instance.	Specify the correct instance.			-
10103	Invalid CommandTask value.	Specify the correct task number.			-
10104	Cannot change ServerInstance after initialized.	Set ServerInstance before initialization.			-
10105	Invalid data.	Review the data in TaskInfo method in RC+ API.			-
10106	Cannot proceed while a dialog is being displayed.	Check whether the Rundialog method or TeachPoint method is being executed while the Rundialog method or TeachPoint method is being executed in RC+ API.			-
10250	Function block. Command execution timeout has occurred.	Check the connection with PLC.			-
10251	The command cannot be executed due to the function block bit setting (ExtError bit is High or ExtCmdReset bit is Low)	ExtError is high or ExtCmdReset is low. Check ExtError bit and ExtCmdReset bit.			-
10252	Function block. An invalid configuration was detected.	Review the configuration.			-
10253	Function block. An invalid value was used in MaxTime.	Check that the value for MaxTime is greater than 0.			-
10254	Function block. Cannot execute instruction because another instruction is executing.	Check to ensure that instructions are not executed simultaneously.			-

No.	Message	Countermeasure	Note 1	Note 2	Error Solution
10501	Connection aborted.	Check the connection between the Controller and Epson RC+.			-
10502	Cannot connect with the controller.	Check the connection between the Controller and Epson RC+.			-
10503	Controller firmware is not compatible with this version of RC+.	Upgrade the RC+ version.			-
10504	USB connection of this system is reserved for the RC620 Controller and cannot be used for RC+8.0.	Install the RC+8.0 to another computer.			-
10505	The specified connection does not exist	Check the connection number.			-
10600	Frame grabber driver not installed.	Install the driver.			-

3. Recovering from an Error When in Emergency Stop Mode

The emergency stop mode is the state in which the emergency stop switch is pressed while the robot system is operating.

At this time, an error may occur in addition to the emergency stop.
If an error occurs, follow the procedure below to reset the error.

1. Release the emergency stop switch.
2. Perform the Reset operation by one of the following methods:
   - In Epson RC+ 8.0 menu-[Tools]-[Robot Manager], click the [Reset] button on [Robot Manager]
   - In Epson RC+ 8.0 menu-[Tools]-[Command Window], execute the Reset command

⚠ CAUTION

When the same error occurs even after performing the Reset operation, take measures according to “Remedy” in this manual.

4. Details of Note Information

Each error code has Notes to show details of the error, and some Notes have the complex information need the explanation.
You can check each error code's Note from the system history of Epson RC+.

4.1 Error Code 27, 28: “Safety Board issued a Main stop signal.” and “Safety Board issued a Sub stop signal.”

The Note for the error message “Safety Board issued a Main stop signal” and “Safety Board issued a Sub stop signal” describe the reason for stoppage by the Safety Function.

Note 1: Type of Stop Signal

Note 2: Details of stop signal (meaning differs according to Note 1: Type of stop signal)

As the safety functions are monitored by independent redundant circuits, errors with the same Note information may be reported multiple times with error codes 27 (main) and 28 (sub).

The type of safety board stop signal and the current values of the details can also be obtained with the SF_GetStatus function.
For more information, refer to the following manual:

Epson RC+ 8.0 SPEL+ Language Reference

For more information about terminology related to the safety functions, refer to the following manual:

Safety Function Manual

Note Information				Overview and Countermeasure
Note 1 (*1)		Note 2		
No.	Type of Stop Signal	Details of Stop Signal		
100	Safety Input	No.	Safety Input Port	Stopped due to an emergency stop or safeguard assigned to the Note 2 safety input. Turn on the NC contact (normally closed contact) of the safety switch connected to the safety input port notified in Note 2. (*6)
		1 (*4)	SAFETY_IN1	
		2 (*5)	SAFETY_IN2	
		4	SAFETY_IN3	
		8	SAFETY_IN4	
		16	SAFETY_IN5	
101	Safety Limited Speed for joint of robot (SLS_1)	No.	Joint No.	The robot stopped because the speed of the joint shown in Note 2 exceeded the SLS_1 safety speed. Refer to “Check Items When Stopped Due to Safety Limited Speed (SLS)” and take the appropriate countermeasures.
		1	J1	
		2	J2	
		4	J3	
		8	J4	
		16	J5	
		32	J6	
102	Safety Limited Speed for part of robot	No.	Part	The robot stopped because the speed of the part shown in Note 2 exceeded the SLS_1 safety speed.
		1	Tip (P1 TCP)	
		2	Elbow (P2 Elbow)	

Note Information				Overview and Countermeasure
Note 1 (*1)		Note 2		
No.	Type of Stop Signal	Details of Stop Signal		
	(SLS_1)	4	Wrist (P3 Wrist)	Refer to “Check Items When Stopped Due to Safety Limited Speed (SLS)” and take the appropriate countermeasures.
		8	Shoulder (P4 Shoulder)	
103	Safety Limited Speed for joint of robot (SLS_2)	No.	Joint No.	The robot stopped because the speed of the joint shown in Note 2 exceeded the SLS_2 safety speed. Refer to “Check Items When Stopped Due to Safety Limited Speed (SLS)” and take the appropriate countermeasures.
		1	J1	
		2	J2	
		4	J3	
		8	J4	
		16	J5	
		32	J6	
104	Safety Limited Speed for part of robot (SLS_2)	No.	Part	The robot stopped because the speed of the part shown in Note 2 exceeded the SLS_2 safety speed. Refer to “Check Items When Stopped Due to Safety Limited Speed (SLS)” and take the appropriate countermeasures.
		1	Tip (P1 TCP)	
		2	Elbow (P2 Elbow)	
		4	Wrist (P3 Wrist)	
		8	Shoulder (P4 Shoulder)	
105	Safety Limited Speed for joint of robot (SLS_3)	No.	Joint No.	The robot stopped because the speed of the joint shown in Note 2 exceeded the SLS_3 safety speed. Refer to “Check Items When Stopped Due to Safety Limited Speed (SLS)” and take the appropriate countermeasures.
		1	J1	
		2	J2	
		4	J3	
		8	J4	
		16	J5	
		32	J6	
106	Safety Limited Speed for part of robot (SLS_3)	No.	Part	The robot stopped because the speed of the part shown in Note 2 exceeded the SLS_3 safety speed. Refer to “Check Items When Stopped Due to Safety Limited Speed (SLS)” and take the appropriate countermeasures.
		1	Tip (P1 TCP)	
		2	Elbow (P2 Elbow)	

Note Information				Overview and Countermeasure
Note 1 (*1)		Note 2		
No.	Type of Stop Signal	Details of Stop Signal		
		4	Wrist (P3 Wrist)	
		8	Shoulder (P4 Shoulder)	
107	Safety Limited Speed for joint of robot (SLS_T)	No.	Joint No.	The robot stopped because the speed of the joint shown in Note 2 exceeded the SLS_T safety speed in TEACH mode. Drop the robot operating speed or check the safety parameters related to SLS_T set in the Safety Function Manager.
		1	J1	
		2	J2	
		4	J3	
		8	J4	
		16	J5	
		32	J6	
108	Safety Limited Speed for part of robot (SLS_T)	No.	Part	The robot stopped because the speed of the part shown in Note 2 exceeded the SLS_T safety speed in TEACH mode. Drop the robot operating speed or check the safety parameters related to SLS_T set in the Safety Function Manager.
		1	Tip (P1 TCP)	
		2	Elbow (P2 Elbow)	
		4	Wrist (P3 Wrist)	
		8	Shoulder (P4 Shoulder)	
109	Safety Limited Speed for joint of robot (SLS_T2)	No.	Joint No.	The robot stopped because the speed of the joint shown in Note 2 exceeded the SLS_T2 safety speed in T2 mode. Drop the robot operating speed or check the safety parameters related to SLS_T2 in the Safety Function Manager.
		1	J1	
		2	J2	
		4	J3	
		8	J4	
		16	J5	
		32	J6	
110	Safety Limited Speed for part of robot (SLS_T2)	No.	Part	The robot stopped because the speed of the part shown in Note 2 exceeded the SLS_T2 safety speed in T2 mode. Drop the robot operating speed or check the safety parameters related to SLS_T2 in the Safety Function Manager.
		1	Tip (P1 TCP)	
		2	Elbow (P2 Elbow)	

Note Information				Overview and Countermeasure
Note 1 (*1)		Note 2		
No.	Type of Stop Signal	Details of Stop Signal		
		4	Wrist (P3 Wrist)	
		8	Shoulder (P4 Shoulder)	
115	Safety Limited Position (SLP_A)	No.	Joint No., Monitored Position (*2)	The robot stopped because the joint number and joint position shown in Note 2 intruded into the SLP_A monitored position. Refer to “Check Items When Stopped Due to Safety Limited Position (SLP)”. Reset or take the appropriate countermeasures.
		1001 (*3)	J2, YL	
		2001 (*3)	J2, YU	
		4001 (*3)	J2, XL	
		8001 (*3)	J2, XU	
		16001 (*3)	J2, ZL	
		32001 (*3)	J2, ZU	
		1002 (*3)	J3, YL	
		2002 (*3)	J3, YU	
		4002 (*3)	J3, XL	
		8002 (*3)	J3, XU	
		16002 (*3)	J3, ZL	
		32002 (*3)	J3, ZU	
		1004 (*3)	J5, YL	
		2004 (*3)	J5, YU	
		4004 (*3)	J5, XL	

Note Information				Overview and Countermeasure
Note 1 (*1)		Note 2		
No.	Type of Stop Signal	Details of Stop Signal		
		8004 (*3)	J5, XU	
		16004 (*3)	J5, ZL	
		32004 (*3)	J5, ZU	
		1008 (*3)	J6, YL	
		2008 (*3)	J6, YU	
		4008 (*3)	J6, XL	
		8008 (*3)	J6, XU	
		16008 (*3)	J6, ZL	
		32008 (*3)	J6, ZU	

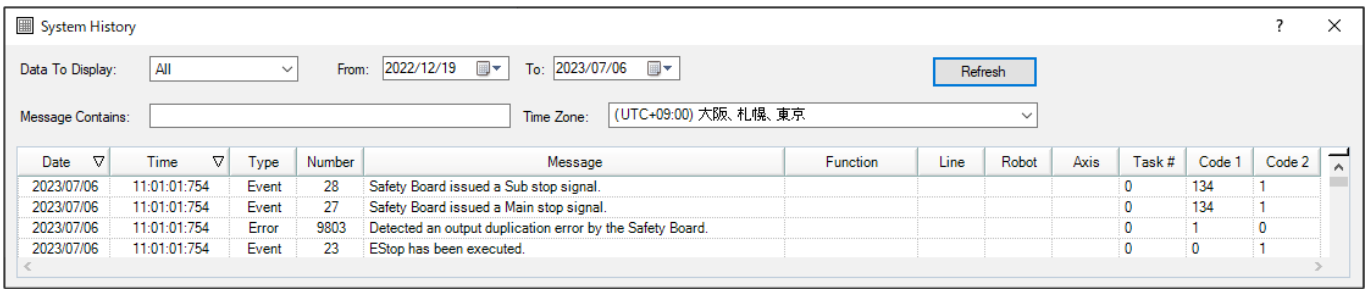
Note Information				Overview and Countermeasure
Note 1 (*1)		Note 2		
No.	Type of Stop Signal	Details of Stop Signal		
116	Safety Limited Position (SLP_B)	No.	Joint No., Monitored Position (*2)	The robot stopped because the joint number and joint position shown in Note 2 intruded into the SLP_B monitored position. Refer to “Check Items When Stopped Due to Safety Limited Position (SLP)”. Reset or take the appropriate countermeasures.
		1001 (*3)	J2, YL	
		2001 (*3)	J2, YU	
		4001 (*3)	J2, XL	
		8001 (*3)	J2, XU	
		16001 (*3)	J2, ZL	
		32001 (*3)	J2, ZU	
		1002 (*3)	J3, YL	
		2002 (*3)	J3, YU	
		4002 (*3)	J3, XL	
		8002 (*3)	J3, XU	
		16002 (*3)	J3, ZL	
		32002 (*3)	J3, ZU	
		1004 (*3)	J5, YL	
		2004 (*3)	J5, YU	
		4004 (*3)	J5, XL	
		8004 (*3)	J5, XU	
		16004 (*3)	J5, ZL	
		32004 (*3)	J5, ZU	

Note Information				Overview and Countermeasure
Note 1 (*1)		Note 2		
No.	Type of Stop Signal	Details of Stop Signal		
		1008 (*3)	J6, YL	
		2008 (*3)	J6, YU	
		4008 (*3)	J6, XL	
		8008 (*3)	J6, XU	
		16008 (*3)	J6, ZL	
		32008 (*3)	J6, ZU	
117	Safety Limited Position (SLP_C)	No.	Joint No., Monitored Position (*2)	The robot stopped because the joint number and joint position shown in Note 2 intruded into the SLP_C monitored position. Refer to “Check Items When Stopped Due to Safety Limited Position (SLP)”. Reset or take the appropriate countermeasures.
		1001 (*3)	J2, YL	
		2001 (*3)	J2, YU	
		4001 (*3)	J2, XL	
		8001 (*3)	J2, XU	
		16001 (*3)	J2, ZL	
		32001 (*3)	J2, ZU	
		1002 (*3)	J3, YL	
		2002 (*3)	J3, YU	
		4002 (*3)	J3, XL	
		8002 (*3)	J3, XU	
		16002 (*3)	J3, ZL	
		32002 (*3)	J3, ZU	

Note Information				Overview and Countermeasure
Note 1 (*1)		Note 2		
No.	Type of Stop Signal	Details of Stop Signal		
		1004 (*3)	J5, YL	
		2004 (*3)	J5, YU	
		4004 (*3)	J5, XL	
		8004 (*3)	J5, XU	
		16004 (*3)	J5, ZL	
		32004 (*3)	J5, ZU	
		1008 (*3)	J6, YL	
		2008 (*3)	J6, YU	
		4008 (*3)	J6, XL	
		8008 (*3)	J6, XU	
		16008 (*3)	J6, ZL	
		32008 (*3)	J6, ZU	
118	Soft Axis Limiting	No.	Joint No.	The robot stopped because the joint number shown in Note 2 exceeded the joint movement range at the soft axis limit. Refer to “Check Items When Stopped Due to Soft Axis Limiting”. Reset or take the appropriate countermeasures.
		1	J1	
		2	J2	
		4	J3	
		8	J4	
		16	J5	
		32	J6	
121	Switch Input	No.	Switch No.	This is event information notified by the Safety board in the following cases. No action is required for this notification. (*7) Enable switch: Emergency stop switch 1: These switches are located on the Teach Pendant.
		1	Enable switch	

<table>
<tr><th colspan="4">Note Information</th><th rowspan="3">Overview and Countermeasure</th></tr>
<tr><th colspan="2">Note 1 (*1)</th><th colspan="2">Note 2</th></tr>
<tr><th>No.</th><th>Type of Stop Signal</th><th colspan="2">Details of Stop Signal</th></tr>
<tr><td rowspan="2"></td><td rowspan="2"></td><td>2</td><td>Emergency stop switch 1</td><td rowspan="2">Emergency stop switch 2:
This switch is connected to the emergency stop input connector of the controller.</td></tr>
<tr><td>4</td><td>Emergency stop switch 2</td></tr>
<tr><td rowspan="2">122</td><td rowspan="2">Mode Control</td><td>No.</td><td>State</td><td rowspan="2">This is event information that notifies a status change of mode control on the safety board. No action is required for this notification.</td></tr>
<tr><td>-</td><td>-</td></tr>
<tr><td rowspan="2">123</td><td rowspan="2">Deceleration Monitoring</td><td>No.</td><td>State</td><td rowspan="2">This is event information that notifies the status of deceleration monitoring on the safety board. No action is required for this notification.</td></tr>
<tr><td>-</td><td>-</td></tr>
<tr><td rowspan="7">124</td><td rowspan="7">Joint Angle Monitoring</td><td>No.</td><td>Joint No.</td><td rowspan="7">The robot stopped because the joint shown in Note 2 exceeded the joint angle limit during joint angle monitoring. Check the following items.
1. Has an appropriate joint angle limit been set?
2. Was the joint angle monitoring enabled after the robot fully stopped?
3. Was an operation command executed while the joint angle monitoring was disabled?
4. Was the robot subjected to vibrations due to some external factor?</td></tr>
<tr><td>1</td><td>J1</td></tr>
<tr><td>2</td><td>J2</td></tr>
<tr><td>4</td><td>J3</td></tr>
<tr><td>8</td><td>J4</td></tr>
<tr><td>16</td><td>J5</td></tr>
<tr><td>32</td><td>J6</td></tr>
<tr><td colspan="4">Other than the above
(*1)</td><td>Notifies when a safety board error occurred. Refer to (*1).</td></tr>
</table>

*1: If Note 1 is not listed in the table, it is event information for when the Safety Board issues an error notification. No action is required for this notification. You are notified of errors related to this event before and after the system history. Handle the errors appropriately.
Example: “Error 9803” is notified if Note 1 is “134.”



*2: The correspondence between the monitored positions X1, X2, Y1, Y2, Z1, Z2 for the Safety Limited Position in the Safety Function Manager and the monitored positions XL, XU, YL, YU, ZL, ZU referred to in this manual is as follows:

- “Wall” selected as the monitored position: X1 = XL, X2 = XU, Y1 = YL, Y2 = YU, Z1 = ZL, Z2 = ZU
- “Restricted Area” is selected as the monitored position: X1 = XU, X2 = XL, Y1 = YU, Y2 = YL
  For more information, refer to the following manual:
  “Robot Controller Safety Function Manual Setting Safety Limited Position (SLP)”

*3: A 4 to 5-digit number string that indicates the joint number and monitored position.

- Lower 3 digits (digit 1 to 3): Joint number (001: J2, 002: J3, 004: J5, 008: J6)
- Next 1 or 2 digit (digit 4 to 5): Monitored position (1: YL, 2: YU, 4: XL, 8: XU, 16: ZL, 32: ZU)
  Example: If Note 2 is “1002,” a stop signal was issued because joint number J3 (lower 3 digits are 002) exceeded monitored position YL (next 1 digit is 1).

*4: As SAFETY_IN1 is set to Emergency Stop (ESTOP) in the initial controller settings, connect an emergency stop switch. Or change the setting with the Safety Function Manager.

*5: As SAFETY_IN2 is set to Safeguard (SG) in the initial controller settings, connect a safeguard (safety fence with safety switch, etc.). Or change the setting with the Safety Function Manager.

*6: When the robot stops because the emergency stop switch connected to the emergency stop input connector of the controller or the emergency stop switch on the Teach Pendant was pressed, “121” is recorded in Note 1.

*7: When the robot stops because the safety input causes an emergency stop, “100” is recorded in Note 1.

4.2 Check Items When Stopped Due to Safety Limited Speed (SLS)

How to reset

As the robot makes an emergency stop, the excessive speed is automatically resolved. Refer to the following and release the emergency stop.

“How to reset an error that occurred during an emergency stop”

Countermeasure

If the robot makes an unexpected emergency stop due to the Safety Limited Speed (SLS), refer to the manual below and make the following checks.

“Safety Function Manual - Setting Safety Function Parameters Related to Safety Limited Speed (SLS)”

Check 1: Is the robot speed controlled to a value not exceeding the monitoring speed set in the Safety Function Manager (*)?
Check 2: Are the safety function parameter settings related to Safety Limited Speed (SLS) set in the Safety Function Manager correct?
*: The speed of the monitored part can be displayed with SF_PeakSpeedS/SF_RealSpeedS/PeakSpeed. Refer to the speed displayed by these commands and control the robot's operating speed to not exceed the monitoring speed. The robot operating speed can be set using Speed, SpeedS, or SpeedFactor.
Example of reducing the speed by explicitly changing the Speed setting value when SLS_1 is enabled:

```
If (SF_GetStatus(1) And &H1) Then ' Check if SLS_1 is enabled or disabled
        Speed 10                  ' If enabled, set Speed to 10
EndIf
        Go P1                     ' Go to P1
        Speed 100                 ' Reset to original Speed (in this case, 100)
```

4.3 Check Items When Stopped Due to Safety Limited Position (SLP)

How to reset

It is necessary to move the robot so that each monitored part of the robot and their monitoring ranges do not touch or enter the walls and areas set by the Safety Limited Position (SLP) of the Safety Function Manager. Refer to the following and release the emergency stop. Use any of the methods to move the robot monitored part.

“How to reset an error that occurred during an emergency stop”

Moving method 1: Change the safety input state to disable the target Safety Limited Position (SLP), and jog the robot.
Moving method 2: Change to TEACH mode on the Teach Pendant, and jog the robot.
Moving method 3: Release the motor brake and manually move the robot. For details about how to release the brake, refer to

the following manual: “Manipulator Manual”

Countermeasure

Modify the program so that each monitored part of the robot and their monitoring ranges do not touch or enter the walls and areas set by the Safety Limited Position (SLP). (*)

Make sure that the Safety Limited Position (SLP) settings are correct in the Safety Function Manager.

Example of avoiding intrusion into the Safety Limited Position (SLP) via a waypoint when SLS_A is enabled:

```
Go P1                              ' Go to P1
If (SF_GetStatus(2) And &H1) Then ' Check if SLS_A is enabled or disabled
        Go P3 ' Go via P3 waypoint if enabled
EndIf
Go P2                              ' Go to P2
```

4.4 Check Items When Stopped Due to Soft Axis Limiting

How to reset

The joint shown in Note 2 must be moved within the monitoring range of the Soft Axis Limit.

Refer to the following and release the emergency stop. Use either method to move the robot joint position.

“How to reset an error that occurred during an emergency stop”

Moving method 1: Change to TEACH mode on the Teach Pendant, and jog the robot.

Moving method 2: Release the motor brake and manually move the robot. For details about how to release the brake, refer to the following manual: “Manipulator Manual”

Countermeasure

Make sure that the Soft Axis Limiting settings are correct in the Safety Function Manager.

Make sure that the Hofs value is set correctly.