

EPSON

Epson RC+ 8.0 Option AI Assistant

Original instructions

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Rev.1
ENM269S9067F

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1. FOREWORD

1.1 FOREWORD

Thank you for purchasing our robot system.

This manual contains the information necessary for the correct use of the AI Assistant option.

Before using the system, please read this manual and related manuals to ensure correct use.

After reading this manual, store it in an easily accessible location for future reference.

Epson conducts rigorous testing and inspection to ensure that the performance of our robot systems meets our 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 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 safely and correctly.

1.2 Trademarks

Microsoft, Windows, and the Windows logo are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. All other company names, brand names, and product names are registered trademarks or trademarks of their respective companies.

1.3 Notation

Microsoft® Windows® 10 operating system

Microsoft® Windows® 11 operating system

In this manual, the above operating systems are referred to as Windows 10 and Windows 11, respectively. Windows 10 and Windows 11 are sometimes collectively referred to as Windows.

1.4 Terms of Use

No part of this instruction manual may be reproduced or reprinted in any form without express written permission.

The information in this document is subject to change without notice.

Please contact us if you find any errors in this document or if you have any questions about the information in this document.

1.5 Manufacturer

SEIKO EPSON CORPORATION

1.6 Contact Information

Contact information details are listed in the "Supplier" section in the following manual.

Note that the contact information may vary depending on your region.

"Safety Manual - Contact Information"

The Safety Manual is also available at the following site.

URL: <https://download.epson.biz/robots/>



1.7 Before Use

Before using this manual, be sure that you understand the following information.

1.7.1 Security Measures for Cloud Connection

The AI Assistant requires you to connect to the cloud service via Internet. Make sure to comply with your security policies and connect to the cloud service in an network environment that is managed appropriately.

To prevent unauthorized access and malware infection, make sure to implement security measures on the computer you connect to, update the OS and security software, and properly manage the user account and password.

1.7.2 Epson RC+ 8.0 Installation Folder

The Epson RC+ 8.0 allows you to change the path of the installation folder to any place you like. This manual assumes that Epson RC+ 8.0 is installed in `C:\EpsonRC80`.

1.7.3 AI Assistant Feature Usage Requirements

The AI Assistant feature is a paid option. To use this feature, you need to register as a user and purchase the AI Assistant option.

For details on user registration, refer to the manual below.

"Epson RC+ 8.0 Cloud Service Functions RC+ Cloud 8.0"

Before using the AI Assistant feature, check the response specifications and operational restrictions. For details, refer to the following section.

[Specification and Restrictions](#)

2. Overview of the AI Assistant

The AI Assistant allows you to receive AI assistance in a natural language. With the conversational interface, you can ask code related questions, understand complex logic, generate code, and request to fix bugs.

2.1 Definition of Terms

The following describes the terms used in this manual and their definition.

Terms	Definition
User Prompt	Refers to orders and questions given to the AI Assistant. It may be displayed as “Prompt”.
AI Response	Refers to the responses that the AI Assistant returns to the user prompt.

2.2 Types of AI Assistant

Two types of AI Assistant can be used based on the function.

- SPEL+ Assistant: supports generating and interpreting the SPEL+ code in the GUI of RC+ 8.0.
- Manual Assistant: answers questions by referring to the manual content on [Epson Robot Manuals](#).

2.2.1 Types and Descriptions of SPEL+ Assistant

There are mainly three functions to the SPEL+ Assistant. The characteristics of each function are as follows:

Inline Edit

Edits small scale codes in the program editor. This allows you to quickly modify a few lines of code without leaving the program editor.

Chat Edit

Directly reflects the code suggested by AI in the program editor. This supports a wide range of code editing tasks, such as creating new programs, refactoring, and fixing bugs.

Chat Ask

Chats in the SPEL+ Assistant window. This SPEL+ Assistant can answer questions related to coding such as understanding existing codes and command specification while continuing the conversation.

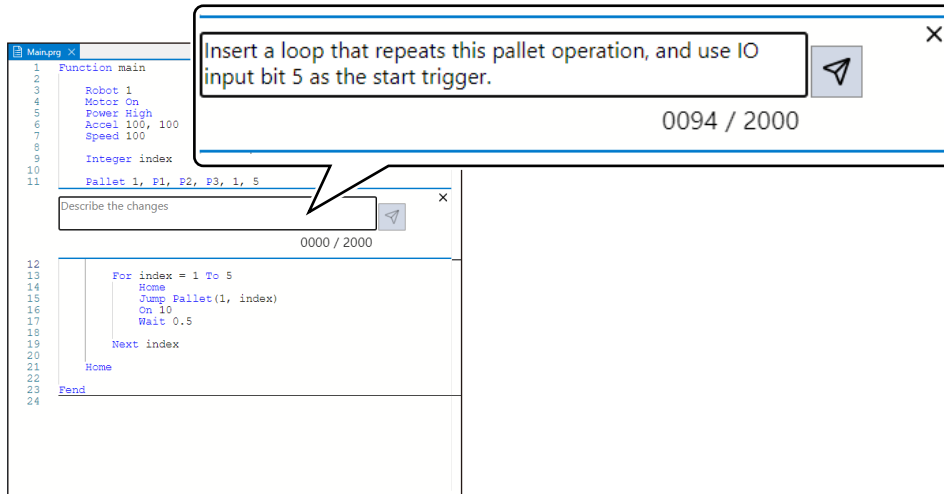
2.2.1.1 Inline Edit

By using Inline Edit, you can instruct to generate and edit code in the editor. You can do this without having to switch to another window which allows you to carry out your work without being interrupted.

Use Inline Edit when you want to quickly edit the displayed program. Use the Chat Edit screen when working on tasks that require multiple steps, changing multiple files, and searching a large scale code base.

Sample prompt

Insert a loop that repeats this pallet operation, and use IO input bit 5 as the start trigger.

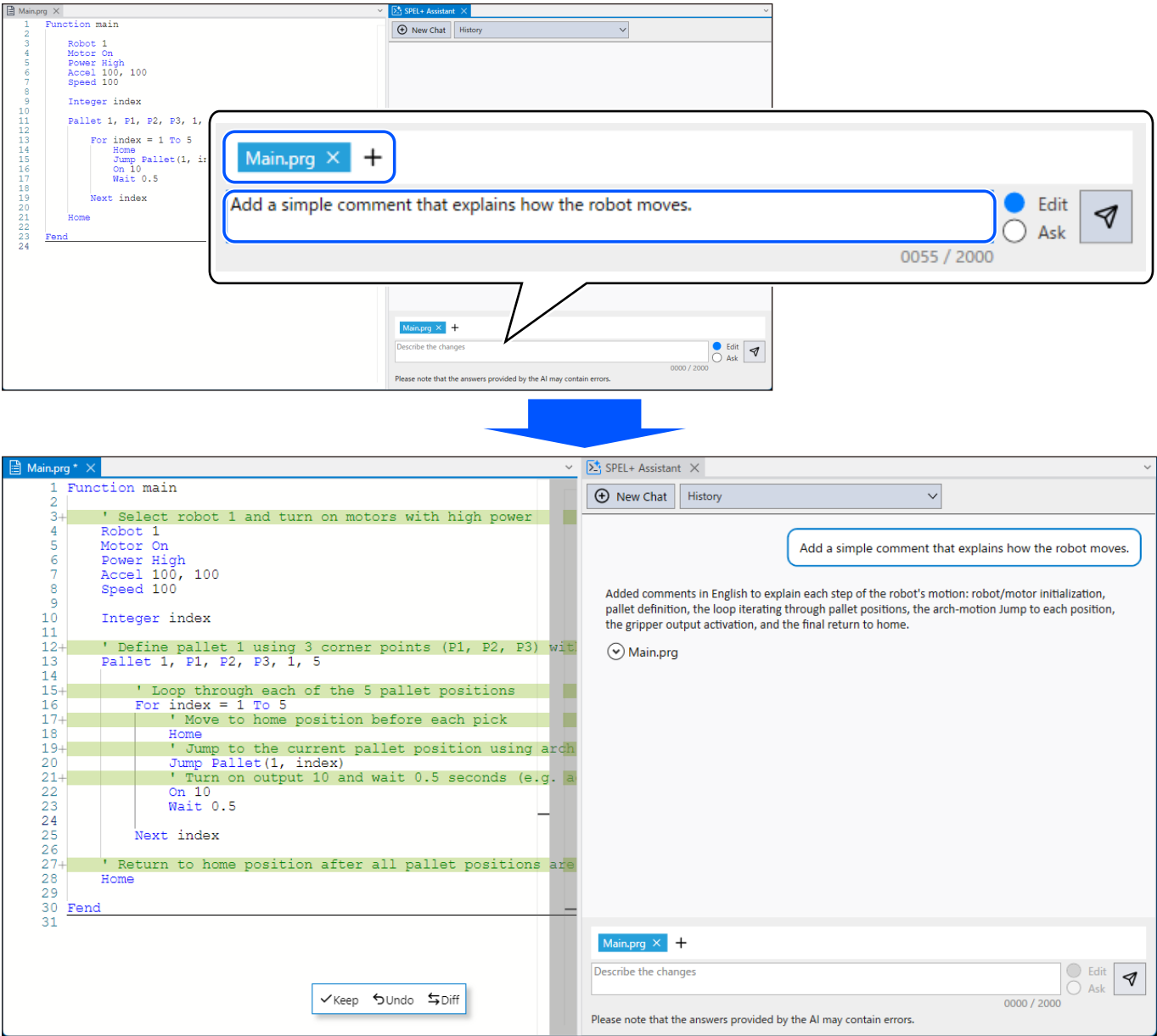


2.2.1.2 Chat Edit

Chat Edit enables you to add comments to the entire program, search for bugs and modify them. Make sure to specify the program files in [Input files].

Sample prompt

Add a simple comment that explains how the robot moves.



2.2.1.3 Chat Ask

Chat Ask enables you to ask questions about the entire program and helps you to understand complex logic. It also gives answers about commands by referring to the contents in the command reference manual.

Sample prompt

Explain how this program works step by step.

1Function main
2
3Robot 1
4Motor On
5Power High
6Accel 100, 100
7Speed 100
8
9Integer index
10
11Pallet 1, P1, P2, P3, 1,
12
13For index = 1 To 5
14Home
15Jump Pallet(1, index)
16On 10
17Wait 0.5
18
19Next index
20
21Home
22
23End
24

New ChatHistory

Main.prg X +

Explain how this program works step by step.

Edit

Ask

0044 / 2000

Main.prg X +

Enter a question

Edit

Ask

0000 / 2000

Please note that the answers provided by the AI may contain errors.

Main.prg X

1Function main
2
3Robot 1
4Motor On
5Power High
6Accel 100, 100
7Speed 100
8
9Integer index
10
11Pallet 1, P1, P2, P3, 1, 5
12
13For index = 1 To 5
14Home
15Jump Pallet(1, index)
16On 10
17Wait 0.5
18
19Next index
20
21Home
22
23End
24

New ChatHistory

Main.prg X +

Explain how this program works step by step.

Edit

Ask

0000 / 2000

I'll look up the relevant SPEL+ commands used in this program. Here is a step-by-step explanation of the program.

Overview

This program moves robot 1 to 5 positions defined by a pallet, and turns on output 10 at each position.

Step-by-step Breakdown

Lines 3-7: Initialization

Line	Command	Description
3	Robot 1	Selects robot 1 as the active robot.
4	Motor On	Turns on motor power and releases the brakes.

Main.prg X +

Enter a question

Edit

Ask

0000 / 2000

Please note that the answers provided by the AI may contain errors.

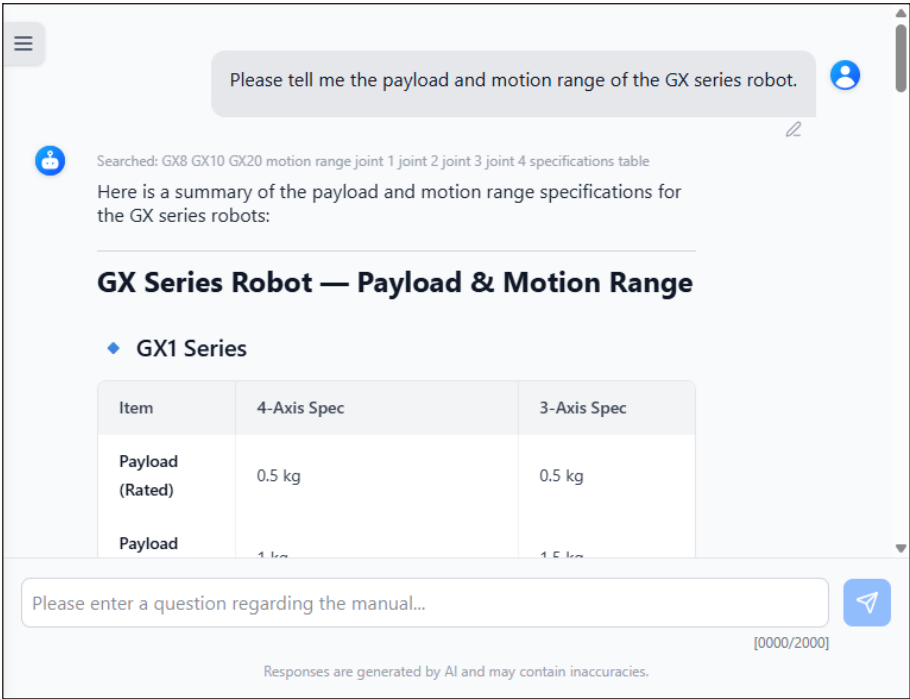
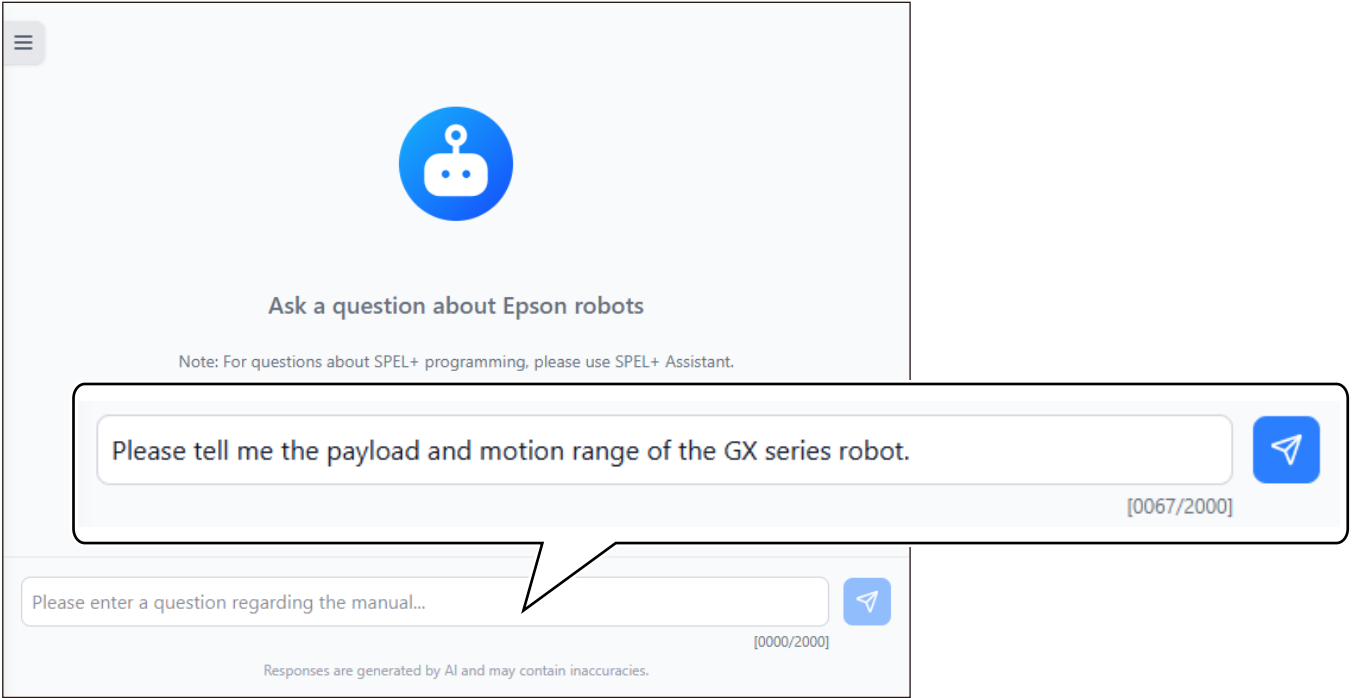
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2.2.2 Description of the Manual Assistant

By using the Manual Assistant, you can ask questions about the content of the official manual of Epson robot products in a natural language and receive answers. Compared to searching using keywords, you can get the answer you need without having to know specialized keywords and the exact term.

Sample prompt

Please tell me the payload and motion range of the GX series robot.



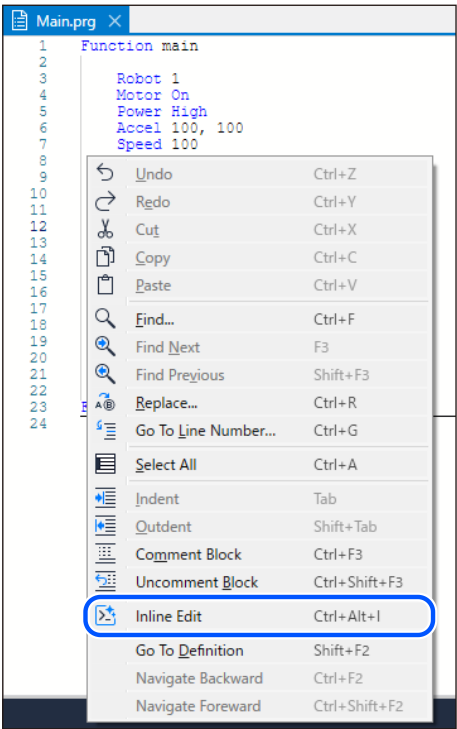
3. Each Functions Start-up Method and Screen Structure

This section describes how to start-up each function and the contents of each screen.

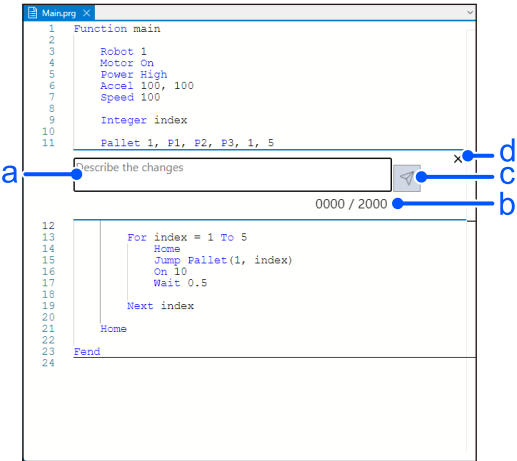
3.1 Start-up Method of SPEL+ Assistant and Inline Edit, and Screen Structure

3.1.1 Start-up Method of Inline Edit

Place the cursor anywhere in the program window and right-click to display the context menu. Select [Inline Edit] and display the user prompt input box.



3.1.2 User Prompt Input

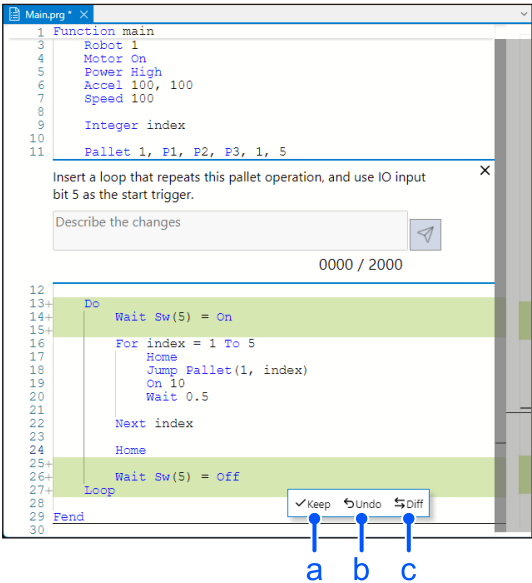


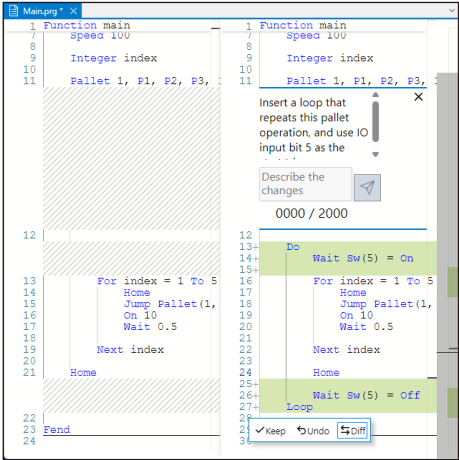
Symbol	Item	Description
a	User prompt input box	Input the user prompt
b	Character Counter	Displays the number of characters in the currently entered user prompt.

Symbol	Item	Description
c	Send button/Stop button	Sends the user prompt and starts generating answers. The send button switches to the stop button while the response is being generated.
d	Close button	Close the user prompt input box.

3.1.3 Display the AI Response

The code suggested by AI is displayed in light green.



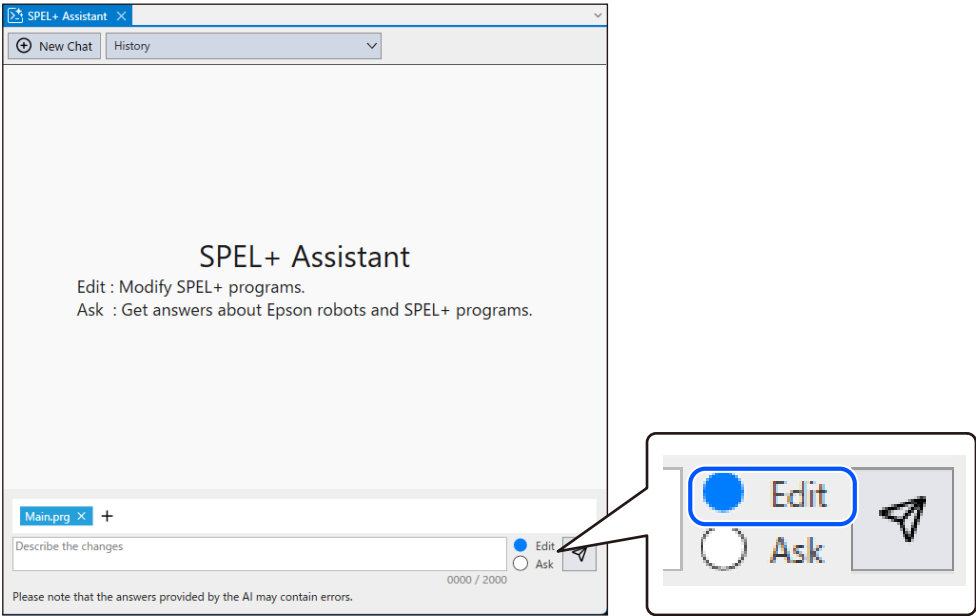
Symbol	Item	Description
a	Keep	Reflects the suggestion made by AI.
b	Undo	Cancels the suggestion made by AI and returns to the original state.
c	Difference Editor Button	Displays the difference editor which displays the original code and the code suggested by AI side by side. 

3.2 SPEL+ Assistant, Chat Edit Start-up Method and Screen Structure

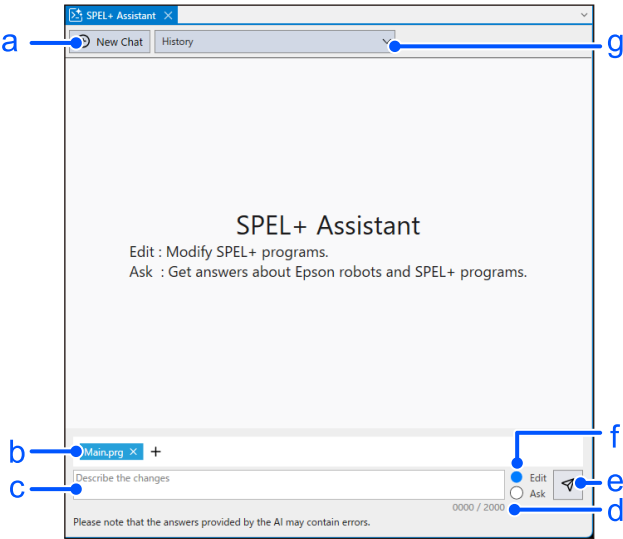
3.2.1 Start-up Method of Chat Edit

- Select tool bar -  [SPEL+ Assistant].
- Select Epson RC+ 8.0 menu - [Tools] - [SPEL+ Assistant].

The SPEL+ Assistant screen is displayed. Select [Edit] using the radio button that selects [Edit] or [Ask].



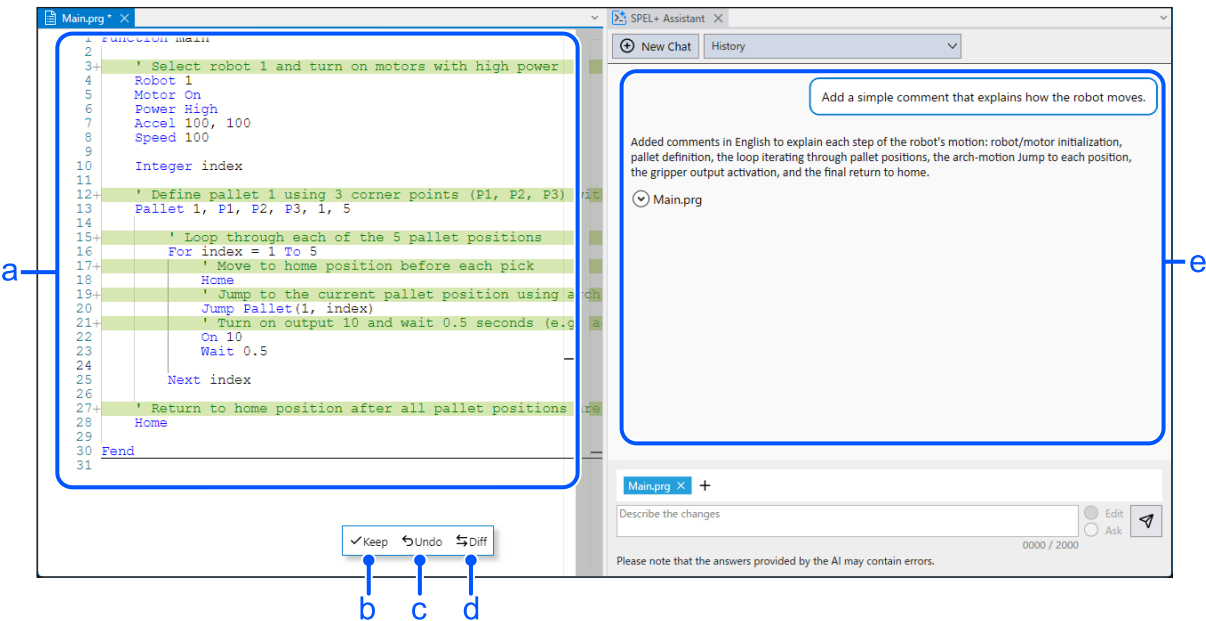
3.2.2 User Prompt Input



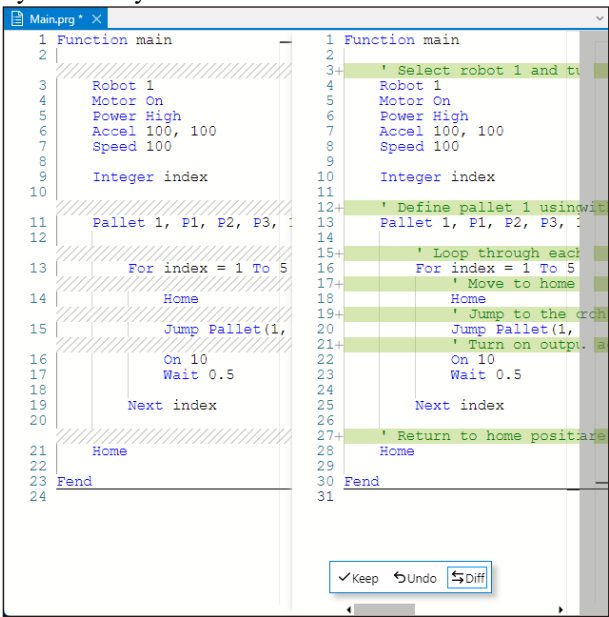
Symbol	Item	Description
a	New Chat Button	Clears the previous chats and starts a new one.
b	Input files box	Selects the program files to include in the context.
c	User prompt input box	Input the user prompt

Symbol	Item	Description
d	Character Counter	Displays the number of characters in the currently entered user prompt.
e	Send/Cancel Button	Sends the user prompt and starts generating answers. The button switches to the [Cancel] button while the response is being generated and cancels generating response.
f	Edit/Ask Selection Button	Selects [Edit] or [Ask].
g	History Dropdown List	Selects and displays the chat history.

3.2.3 Display the AI Response



Symbol	Item	Description
a	Program Window	The code suggested by AI is displayed in the program window
b	Keep	Reflects the suggestion made by AI.
c	Undo	Cancels the suggestion made by AI and returns to the original state.

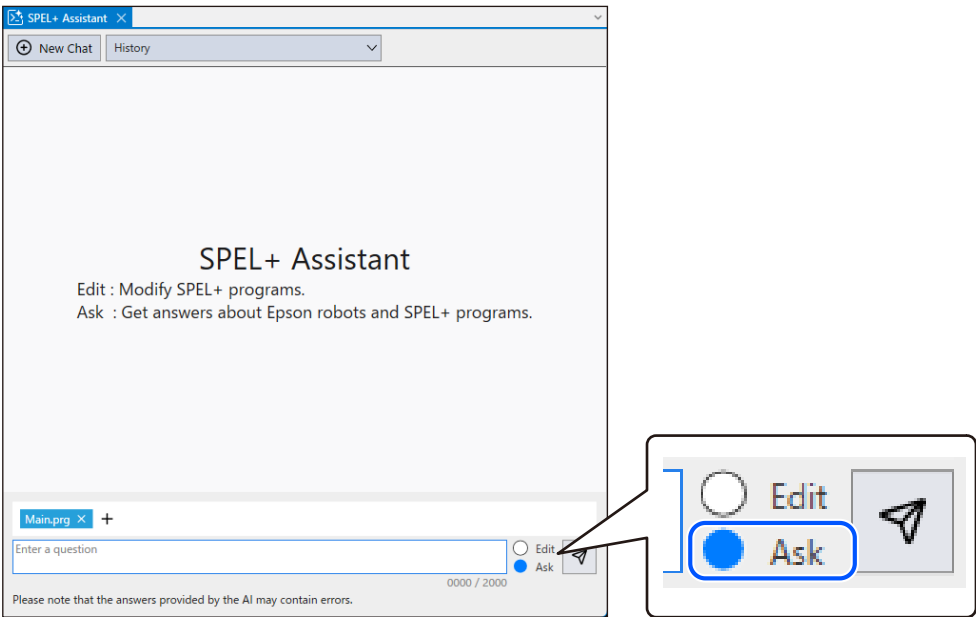
Symbol	Item	Description
d	Difference Editor Switch Button	Displays the difference editor which shows the original code and the code suggested by AI side by side. 
e	AI Response Display Area	The response generated by AI is displayed in this area.

3.3 SPEL+ Assistant, Chat Ask Start-up Method and Screen Structure

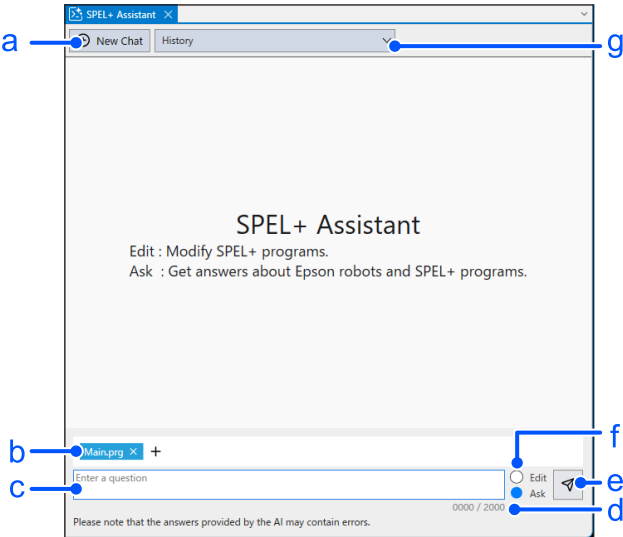
3.3.1 Start-up Method of Chat Ask

- Select tool bar -  [SPEL+ Assistant].
- Select Epson RC+ 8.0 menu - [Tools] - [SPEL+ Assistant].

The SPEL+ Assistant screen is displayed. Select [Ask] using the radio button which selects [Edit] or [Ask].

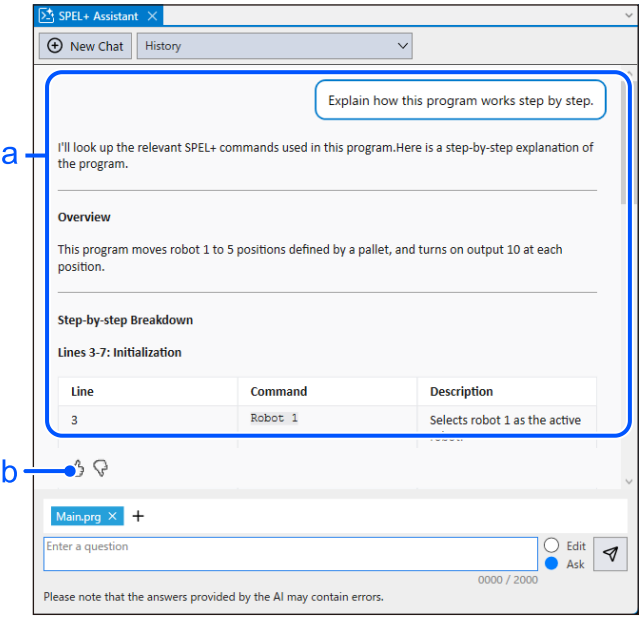


3.3.2 User Prompt Input



Symbol	Item	Description
a	New Chat Button	Clears the previous chats and starts a new one.
b	Input files box	Selects the program files to include in the context.
c	User prompt input box	Input the user prompt
d	Character Counter	Displays the number of characters in the currently entered user prompt.
e	Send/Cancel Button	Sends the user prompt and starts generating answers. The button switches to the [Cancel] button while the response is being generated and cancels generating response.
f	Edit/Ask Selection Button	Selects [Edit] or [Ask].
g	History Dropdown List	Selects and displays the chat history.

3.3.3 Display the AI Response

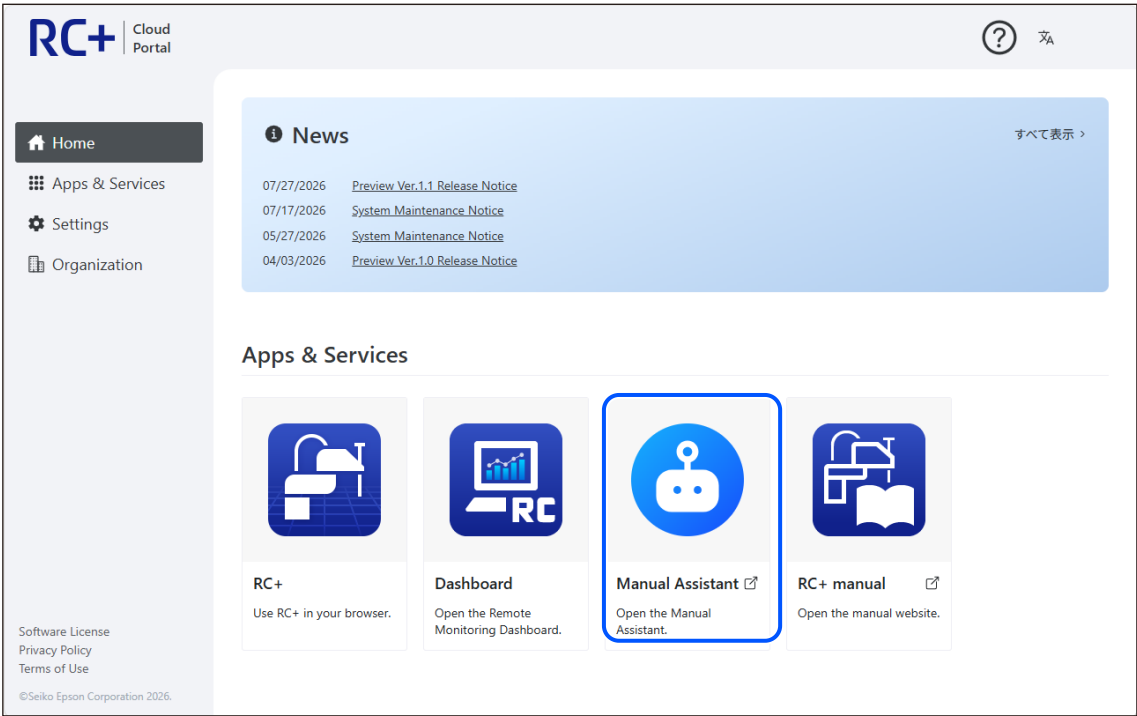


Symbol	Item	Description
a	AI Response Display Area	The response generated by AI is displayed in this area.
b	Response button	Sends feedback about the quality and satisfaction level of the response generated by AI.

3.4 Manual Assistant Start-up Method and Screen Structure

3.4.1 Start-up Method of Manual Assistant

- Start from the the Manual Assistant icon in the RC+ Cloud Portal.



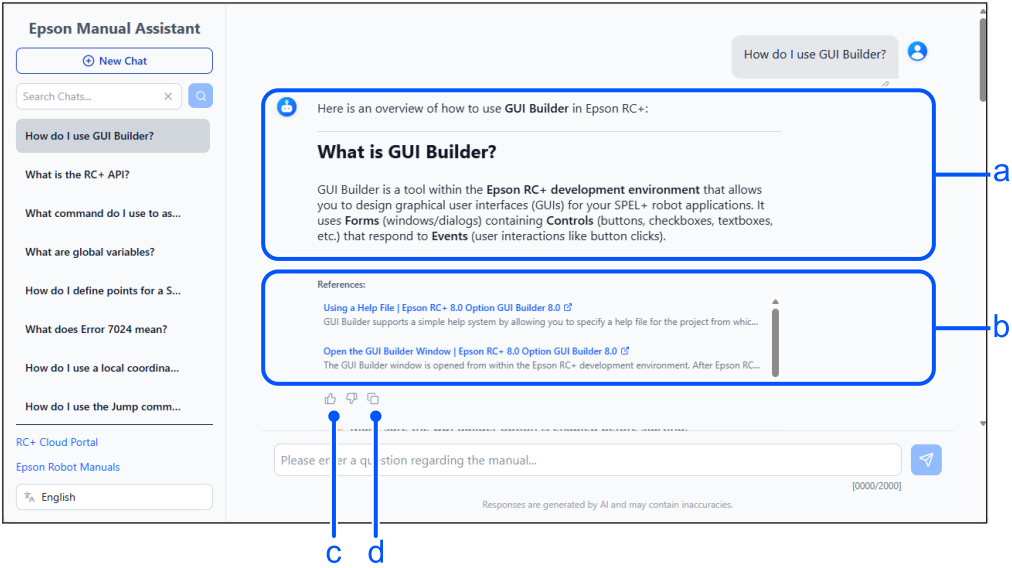
- Select Epson RC+ 8.0 menu - [Help] - [Manual Assistant].

3.4.2 Manual Assistant Initial Screen



Symbol	Item	Description
a	New Chat Button	Clears the previous chats and starts a new one.
b	Search Box	Input the characters to search and search the chat's history.
c	History List	A list of the chat's history. The selected chat is displayed when clicked.
d	External Link List	A link to external sites.
e	[Language Selection] Drop-down List	Select the language to display on the screen. However, this does not change the language that AI uses to respond. Response from the AI will be displayed in the language that was input in the user prompt.
f	User prompt input box	Input the user prompt
g	Character Counter	Displays the number of characters in the currently entered user prompt.
h	Send/Cancel Button	Sends the user prompt and starts generating answers. The button switches to the [Cancel] button while the response is being generated and cancels generating response.

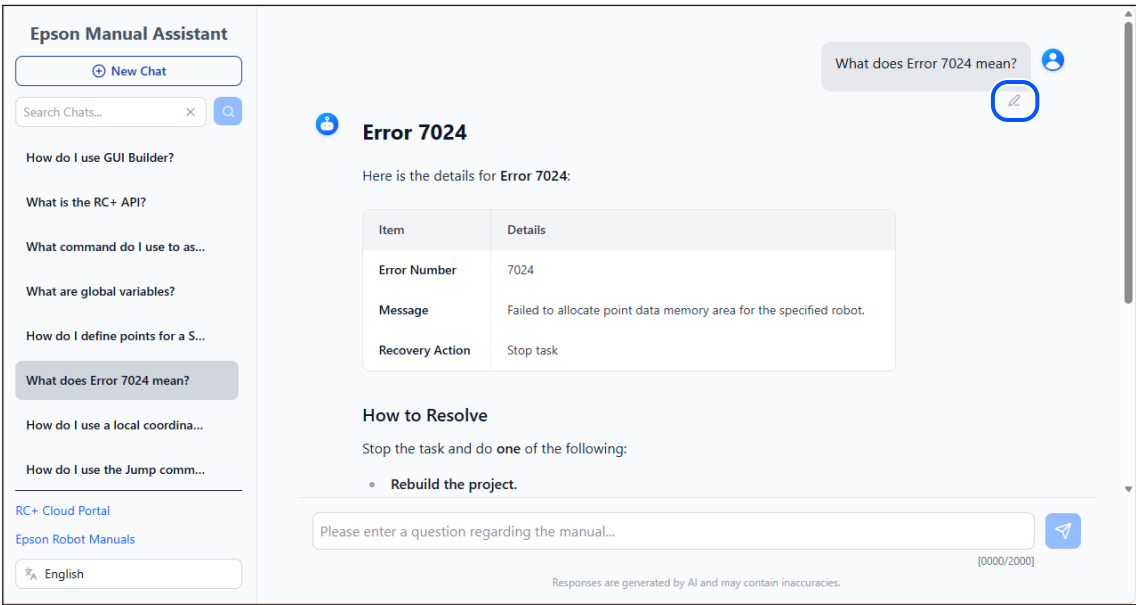
3.4.3 Display the AI Response



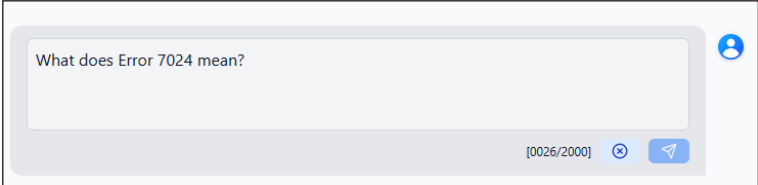
Symbol	Item	Description
a	AI Response Display Area	The response generated by AI is displayed in this area.
b	Display Area of References	Displays the link to the manuals that are referred to when generating responses.
c	Response button	Sends feedback about the quality and satisfaction level of the response generated by AI.
d	Copy Button	Copy the responses generated by AI in the clipboard.

3.4.4 Edit Sent Messages

Messages can be reedited by clicking on the edit button of messages sent before.



The AI responds again after you have finished editing and clicked the send button. By clicking cancel, you can discard editing.



4. User Prompt Tips

This section describes tips on creating a prompt that makes it easier for you to get your desired responses from AI.

4.1 Tips For Instructing to Generate a Code

This section describes tips for writing an effective prompt in generating a code for SPEL+.

1. Explain the purpose and motion clearly

Good example:

- Create a program that makes the robot move back and forth between 3 points.
- Write a code that monitors the I/O signal, and stops the robot when the signal turns ON.
- Create a program that picks up workpieces in order, from a 4x3 array using palette processing.

Bad example:

- Create a program that moves the robot.
- Write a code.

2. Be specific about which command and function to use

- Use the Go command to move to the target position P1.
- Loop processing using For...Next statement
- Conditional branching using If...Then statement

3. Clearly state the requirements and names of the variables and constants

- Manage the counter with an Integer variable i
- Declare a Real-type one-dimensional array variable with 11 elements (indexes 0-10)
- Make the Global variable g_PartsCount accessible from other programs

4. State the requirements for handling errors

- Include the error processing using the OnErr statement
- Add the Print statement to check whether the operation has been complete

5. Specify the program structure

- Create it as a sub function to call from the Main function
- Create a program that can execute on its own

6. Provide the details of the I/O specification

- Start the program with the input signal In (1)
- Turn on the lamps with the output signal Out (10)

7. Specify the motion parameter

- Operate at 50% speed
- Set the acceleration speed to 30

8. Indicate the sample code requirements

- Explain in detail with comments
- Explain it in a way that is easy to understand for beginners

4.2 Tips on Prompts to Use When Asking about Manuals

This section describes some tips on writing effective prompts when asking questions about the Epson robot manuals.

1. Write the specific product name

Write the specific product name such as “GX series robot”, “RC800 controller”, and “TP4 Teach Pendant”.

2. Clarify what you want to know

Good example:

- I want to know the GX robot's payload

Bad example:

- Tell me about the robot

3. Explain the purpose and usage

By writing the purpose for why you need the information in the prompt, such as “I need it for initial settings”, “I need it to troubleshoot”, or “I need it to program”, you will be able to get the appropriate response.

4. Write the following information when asking questions about the SPEL+ Programming

- Explain the operation you want to execute in detail
- Clearly state the command and function name you want to use
- State whether you need a sample code

5. Specify your desired language if the language used for the response is different

By specifying the following prompt, you can receive the response in the language you desire, if the language used for the response is different from the one you wish to receive.

- Explain again in English

5. Specification and Restrictions

This section describes the specification, restrictions, and precautions for using this service.

5.1 Specification and Restriction Regarding the AI Response

Mistakes in responses generated by AI

The responses generated by AI may include mistakes. Depending on the robot model, settings, connected devices, network environment, and other conditions, the response may not fully apply to your actual operating environment.

Before making a final decision or performing any operation, customers are responsible for checking the relevant manuals and verifying the behavior in their actual operating environment.

The range of information that AI provides in its response

The information in which AI refers to is the manual title described in [Epson Robot Manuals](#). However, you may not be able to get responses about new products because it takes time to reflect such information to the AI Assistant.

The Manual Assistant's reference link

If there is an HTML format manual title, a link to the HTML page related to the generated response will be provided. If it is only provided in PDF format, a link to the manual title of the PDF format will be provided.

The language used in AI response

The AI responds in the language that was input in the user prompt. To change the language, specify the response language in the user prompt.

The language selection function of the Manual Assistant will not be reflected in the language AI uses to respond.

5.2 Operation Restrictions

Restriction on the number of tokens

Interacting with the AI Assistant consumes tokens. If you send a user prompt when you have 0 available tokens, an error message indicating insufficient tokens will be displayed. The number of available tokens is reset at regular intervals.

You can check your current token count in the RC+ Cloud Portal.

For details on the RC+ Cloud Portal, refer to the manual below.

"Epson RC+ 8.0 Cloud Service Functions RC+ Cloud 8.0"

When re-authentication is required

Re-authentication is required after a certain period of time has passed. By performing re-authentication, you will be able to continue using the AI Assistant.

For details on re-authentication, refer to the following manual:

"Epson RC+ 8.0 Cloud Service Functions RC+ Cloud 8.0"