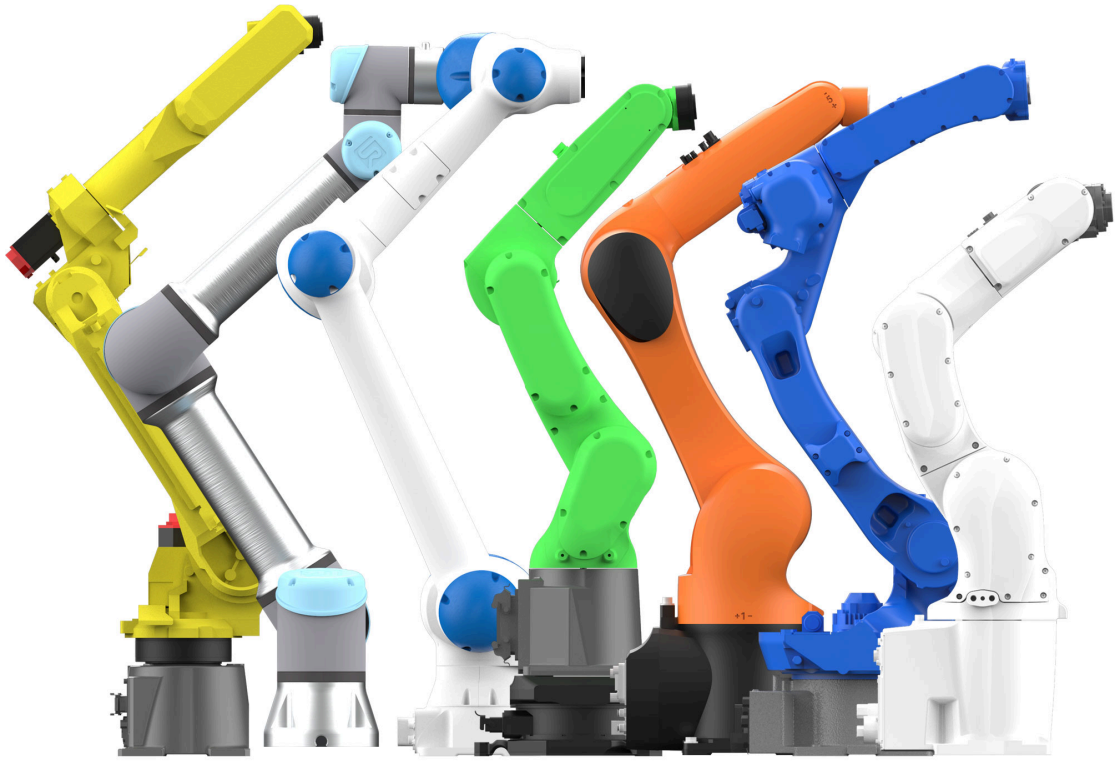
READY



FORGE OS 5

Kawasaki Compatibility Guide

SUPPORTED DEVICES

Here are the compatible robots organized by required robot controller.

E0x Controllers	F60 Controllers
▪ RS015X ▪ RS020N ▪ RS030N ▪ RS050N ▪ RS080N	▪ RS003N ▪ RS005L ▪ RS005N ▪ RS006L ▪ RS007L ▪ RS007N ▪ RS010N ▪ RS013N

EOX REQUIREMENTS

Requirement	Part Number	Description	Supplier
Minimum AS Group Version	ASE801010XX3S	Minimum software version supported by Forge/OS.	Kawasaki
Cubic-S Robot Safety Monitoring Kit (without Ethernet/IP)	40217-G098	Required for safe speed/area monitoring and tool selection from Forge/OS.	
Compact Flash Card for OpenAS	60851-0016	Required for "Robot Network Extension" option to use Forge/OS.	
Robot Network Extension (Enabled)	Version 2.2.1 or later	Option needed for Forge/OS to work with the robot controller.	
CS-Configurator Software (Windows)	Version 04.01.00 or later	Required for programming the Kawasaki Cubic-S unit.	
CN2 Outputs Cable & Interface Module		Connects 24V outputs from the robot controller.	
CN4 Inputs Cable & Interface Module		Connects 24V inputs to the robot controller.	
24V/2.5A Power Supply	e.g., Siemens 6EP1332-5BA00 or similar	Powers the READY pendant, safety controller, and more. Min./Max. current: 2.5/5.0 Amps.	
Compatible Safety Controller (see note below)*	e.g., SICK FLX3-CPUC200, Banner XS26-2, KEYENCE GC-1000	Required for READY pendant safety features and other safeguard devices (i.e. safety fence).	
USB A-male to B-male Cable		Connects a Windows PC to the Cubic-S unit to change safety settings.	
Cat5e Shielded Ethernet Cable		Connects the robot controller to a IPC.	

Note: *Your safety controller solution should meet these minimum requirements:*

- *4x dual channel safety inputs*
- *3x PNP safety outputs (or use safety relays)*
- *2x PNP general purpose outputs*
- *Basic Safety Logic configuration*

F60 REQUIREMENTS

Requirement	Part Number	Description	Supplier
Minimum AS Group Version	ASF_01000001H	Minimum software version supported by Forge/OS.	Kawasaki
Cubic-S Robot Safety Monitoring Kit (without Ethernet/IP)	40217-G127	Required for safe speed/area monitoring and tool selection from Forge/OS.	
XGPIO to D-Sub Cable	50979-3497	Connects the I/O interface module to the robot controller.	
50-Pos D-Sub Interface Module	2315159 (Phoenix Contact)	Required for safety devices and tool selection from Forge/OS.	
CS-Configurator Software (Windows)	Version 04.01.00 or greater	Required for programming the Kawasaki Cubic-S unit.	
24V/2.5A Power Supply	Siemens 6EP1332-5BA00 or similar	Powers the READY pendant, safety controller, and more.	
Compatible Safety Controller (see note below)*	e.g., SICK FLX3-CPUC200, Banner XS26-2, KEYENCE GC-1000	Required for READY pendant safety features and other safeguard devices (i.e. safety fence).	
USB A-male to B-male Cable		Connects a Windows PC to the Cubic-S unit to change safety settings.	
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Note: *Your safety controller solution should meet these minimum requirements:*

- *4x dual channel safety inputs*
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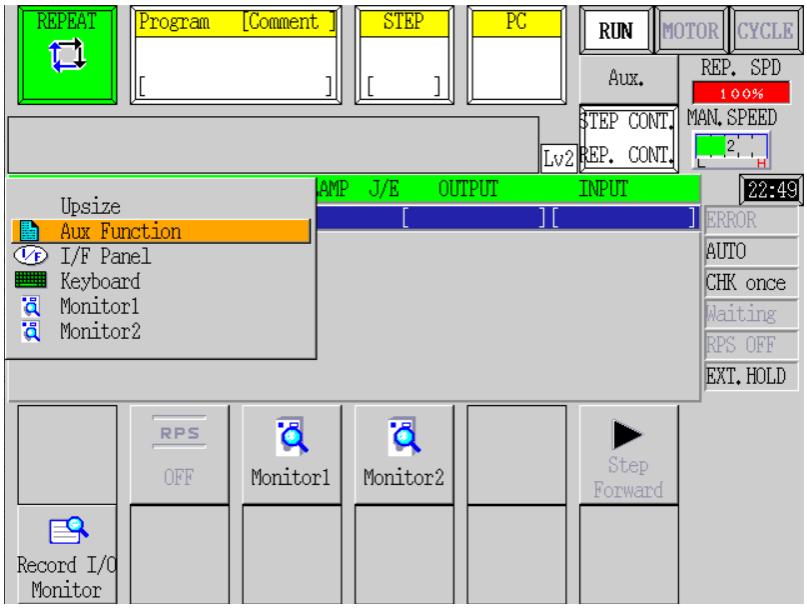
- *2x PNP general purpose outputs*
- *Basic Safety Logic configuration*

CONFIRMING SOFTWARE VERSION

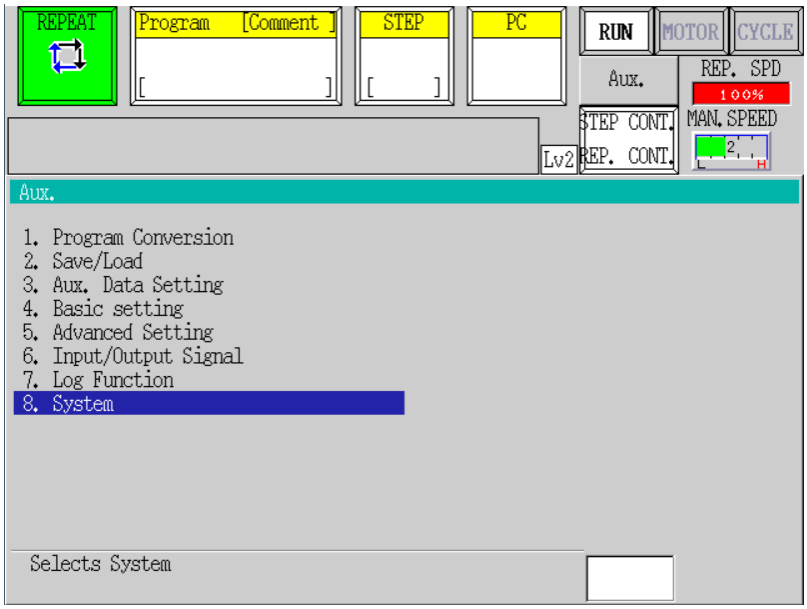
1. Check the software version on your Kawasaki controller:

   a. Press the **MENU** button on the pendant keypad.

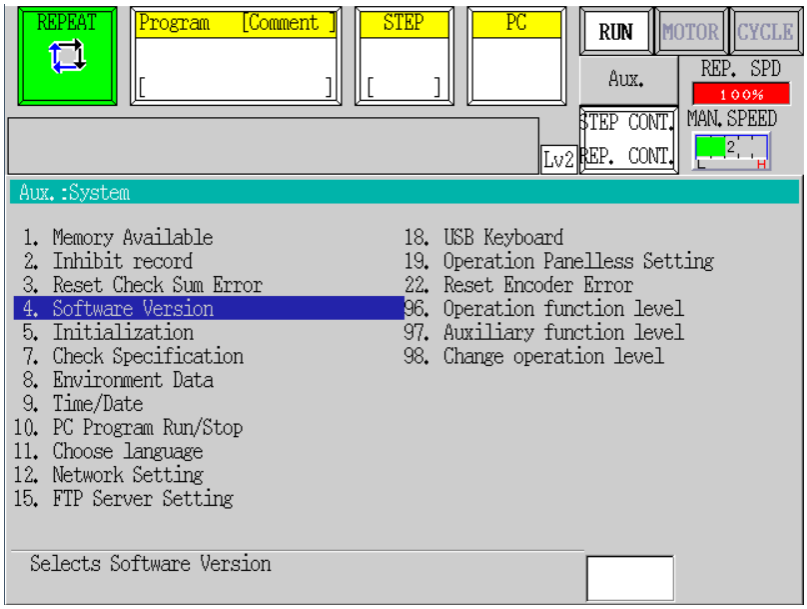
   b. Select the **Aux Function** option. Tap the option on the screen or highlight it with the keypad arrows and press **ENTER**.



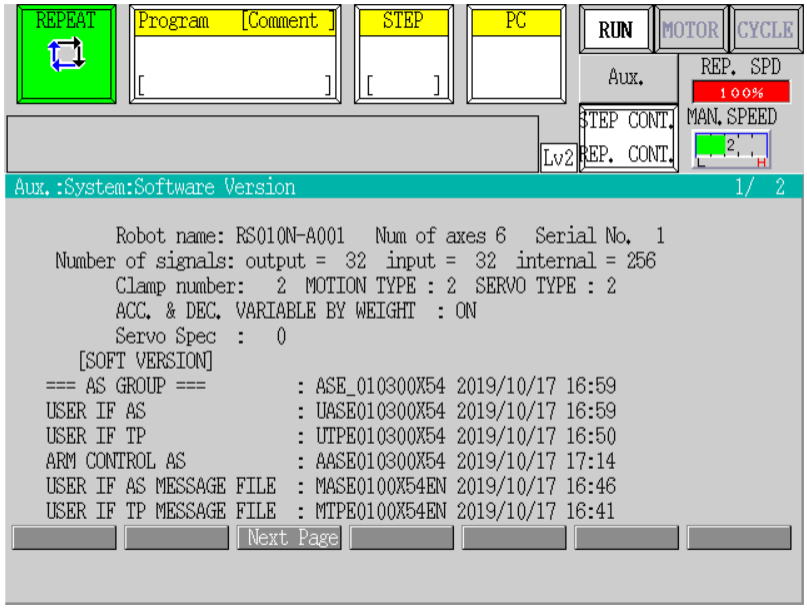
   c. In the Aux. menu, select **System**.



d In the System menu, select **Software Version**.



e On the Software Version screen, look for "AS GROUP." Check your AS version number.



f Contact Kawasaki if you need to update your software version to the minimum version.