Unit Replacement: G5 Servo Drive

Steps

This section describes how to replace the G5-series Servo Drive.

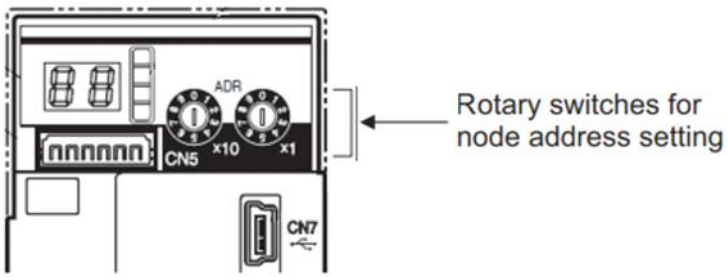
① Upload the project.
② Check the Servo Drive parameters.
③ Turn OFF the power supply and replace the Servo Drive.
④ Check the Servo Drive revision.
⑤ Transfer the Servo Drive parameters
⑥ Open the [Motor and Encoder] Tab Page.
⑦ Open the [Encoder Properties] screen.
⑧ Execute [Clear system].
⑨ Execute [Reset alarm].
⑩ Cycle the power supply.

Detailed Steps

① Upload the project.
Go online with the Controller to which the Servo Drive is connected and upload the project.
Upload the project by referring to “Uploading an NJ/NX Project (New Project)”.

② Check the Servo Drive parameters.
Check if the Servo Drive parameters in the project data match the parameters of the connected Servo Drive by referring to “Uploading 1S/G5 Parameters”.
If there is any difference, upload the parameters.

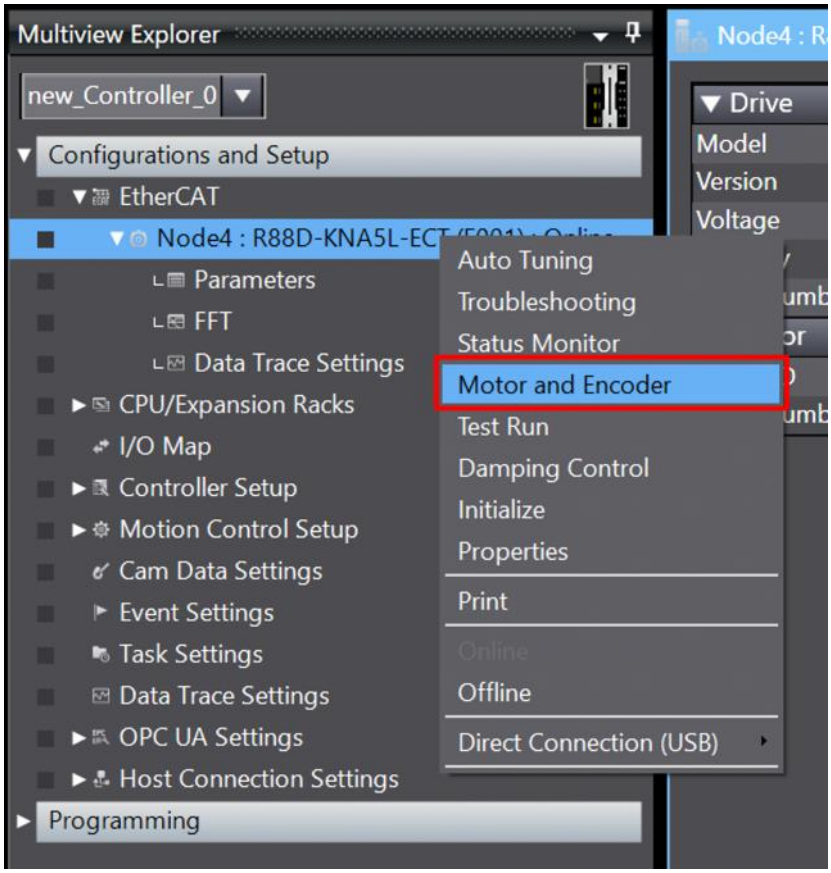
③ Turn OFF the power supply and replace the Servo Drive.
Turn OFF the power supply and replace the Servo Drive.
At this time, configure the EtherCAT node address settings.



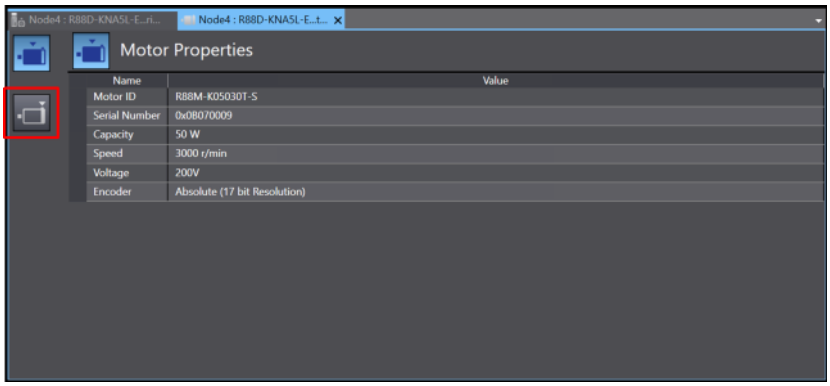
④ Check the Servo Drive revision.
Turn ON the power supply, execute steps described in "Comparing EtherCAT Configurations" and confirm that the revisions of the Servo Drive before and after the replacement are the same.
If the comparison result is different, change the revision according to the steps in "Changing Device Revisions", and then download the project data to the Controller.
If you are unsure about how to download, refer to "Downloading an NJ/NX Project".

⑤ Transfer the Servo Drive parameters
Download the parameters to the replaced Servo Drive by referring to “Downloading 1S/G5 Parameters”.

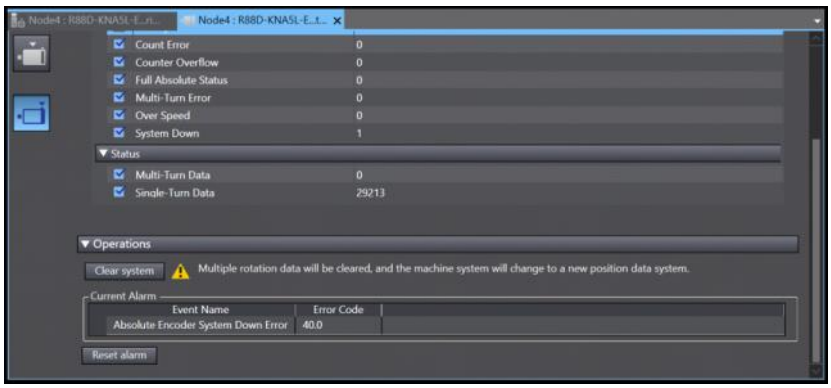
⑥ Open the [Motor and Encoder] Tab Page.
After replacing the motor, "40.0: Absolute value system down" occurs, so clear the multiple rotation data.
Right-click the replaced Servo Drive from [Configurations and Setup] - [EtherCAT] in the Multiview Explorer, and select [Motor and Encoder].

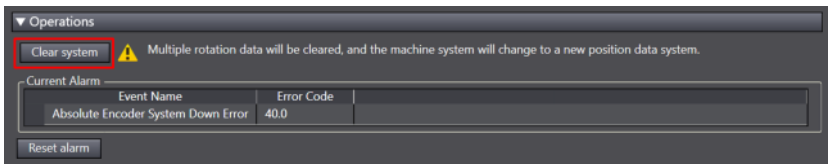


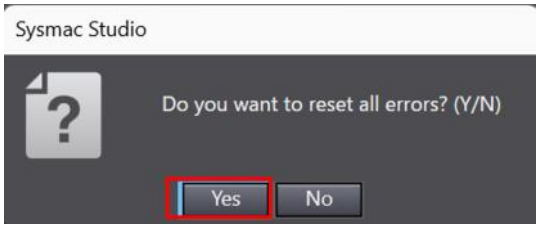
⑦ Open the [Encoder Properties] screen.
Click the button shown in the red frame in the figure below to open the [Encoder Properties] screen.



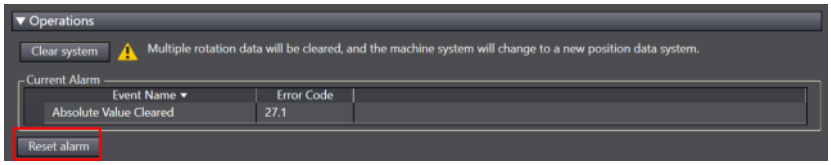
⑧ Execute [Clear system].
To clear the multiple rotation data, click the [Clear system] button.

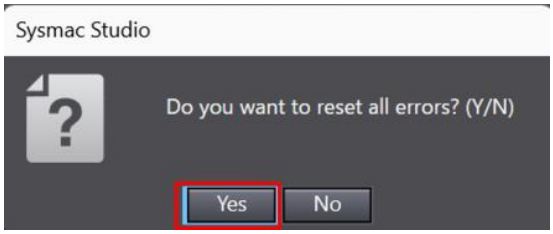




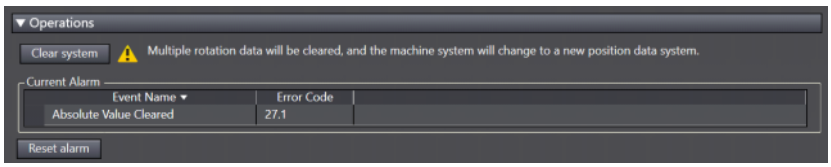


⑨ Execute [Reset alarm].
The current alarms are listed as shown as in the figure below. Click the [Reset alarm] button.





⑩ Cycle the power supply.
The alarm shown in the list remains even after resetting alarms. Note that this alarm is resolved after cycling the power supply.



Remarks