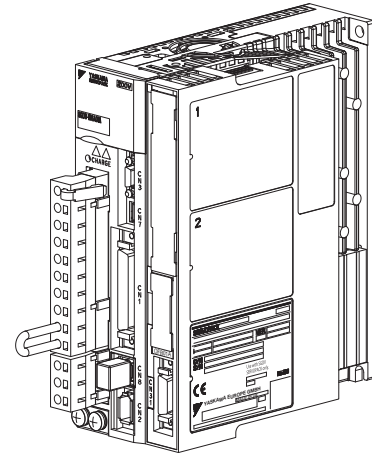


**Σ-V Series Feedback Option Module
Installation Guide**



MANUAL NO. YEU TOEP C720829 03A

This installation guide explains how to mount the Σ-V Series feedback option module onto the Σ-V Series SERVOPACK. Read this installation guide thoroughly as well as the safety precautions (YEG TOEP C720829 00) included with the product.

General Precautions

- The drawings presented in these instructions are sometimes shown without covers or protective guards. Always replace the equipment's cover or protective guard as specified first, and then operate the products in accordance with the user's manual.
- The drawings presented in these instructions are typical examples and may not match the product you received.
- These instructions are subject to change due to product improvement, specification modification, and instructions improvement. When these instructions are revised, the instructions code is updated and the new instructions are published as a next edition.
- If the instructions must be ordered due to loss or damage, inform your nearest Yaskawa representative or one of the offices listed on the back of these instructions.
- Yaskawa will not take responsibility for the results of unauthorized modifications of this product. Yaskawa shall not be liable for any damages or troubles resulting from unauthorized modification.

Safety Information

- The following conventions are used to indicate precautions in these instructions.
- Failure to heed these precautions can result in serious or possibly even fatal injury or damage to the products or to related equipment and systems.

WARNING Indicates precautions that, if not heeded, could possibly result in loss of life or serious injury.

CAUTION Indicates precautions that, if not heeded, could result in relatively serious or minor injury, damage to the product, or faulty operation.

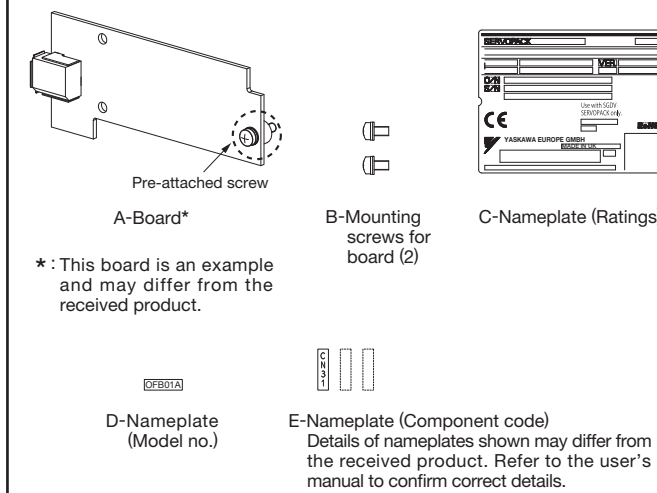
In some situations, the precautions indicated could have serious consequences if not heeded.

APPLICABLE SERVOPACKs IN THE Σ-V SERIES

- Analog Voltage and Pulse Train Reference
- Command Option Attachable Type
- MECHATROLINK-II Communications Reference
- MECHATROLINK-III Communications Reference

ITEMS REQUIRED FOR INSTALLATION

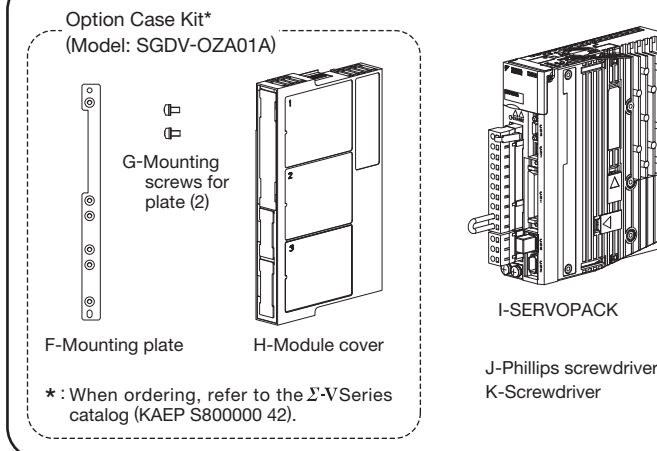
Package Contents



*: This board is an example and may differ from the received product.

Details of nameplates shown may differ from the received product. Refer to the user's manual to confirm correct details.

Additional Items (not included)



*: When ordering, refer to the Σ-V Series catalog (KAEP S800000 42).

INSTALLATION CONDITIONS

Install the module in the following environment.

- Cover the working area with a conductive or antistatic mat.
- This mat must be safely grounded with a resistor (1 MΩ±20%).
- The surrounding air temperature must be between 0 and 55°C.
- Ambient humidity must be 90°C RH or less (with no condensation).
- No extreme changes in temperature that can cause condensation
- Free from corrosive or flammable gases
- Free from dust, salts, or iron dust
- Not subject to water, oil, or chemicals
- No vibration and/or shock directly transmitted to the product

SAFETY PRECAUTIONS

Before starting



- Always wear an antistatic wrist strap that is safely grounded.
- Touch a safely grounded object to discharge any static electricity from your body.

Installation

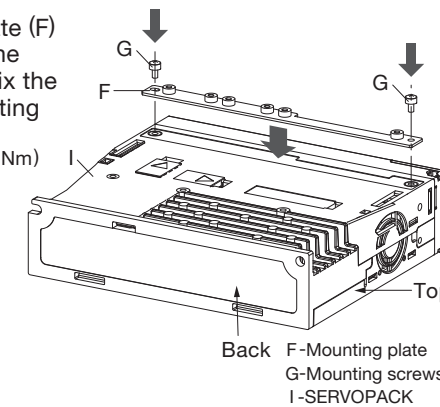


- Install in the specified environment. Failure to observe this caution may result in malfunction.
- Disconnect all cables from the SERVOPACK before installing the board. Failure to observe this caution may result in malfunction.
- Do not apply any impact to the board. Failure to observe this caution may result in malfunction.
- Protect the board from moisture. Failure to observe this caution may result in malfunction.
- Do not touch the connector or electronic components on the board. Hold the board along its edges when installing. Failure to observe this caution may result in malfunction.
- Do not place any object on the board. Failure to observe this caution may result in malfunction.
- Avoid direct contact with any object that has not had antistatic treatment. Failure to observe this caution may result in malfunction.
- Make sure that your clothing is not in contact with the board. Failure to observe this caution may result in malfunction.
- Do not tighten the screws with excessive torque. The recommended tightening torque is 0.14 Nm ±10%. Tightening screws with excessive torque may damage screw threads and the spacer, resulting in deformation of the board.

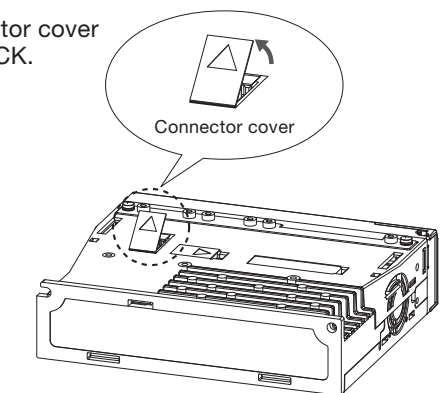
INSTALLATION PROCEDURE

Preparing the SERVOPACK

1. Fit the mounting plate (F) into the recess on the SERVOPACK, and fix the plate with the mounting screws (G). (Tightening torque: 0.14 Nm)

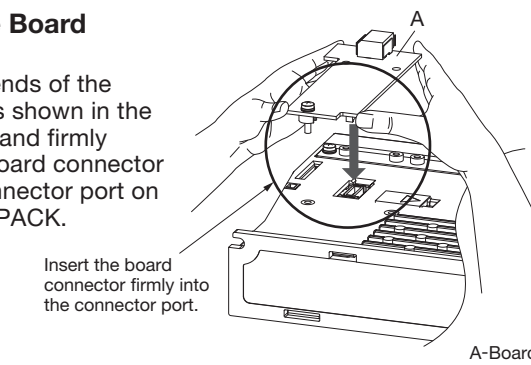


2. Remove the connector cover from the SERVOPACK.

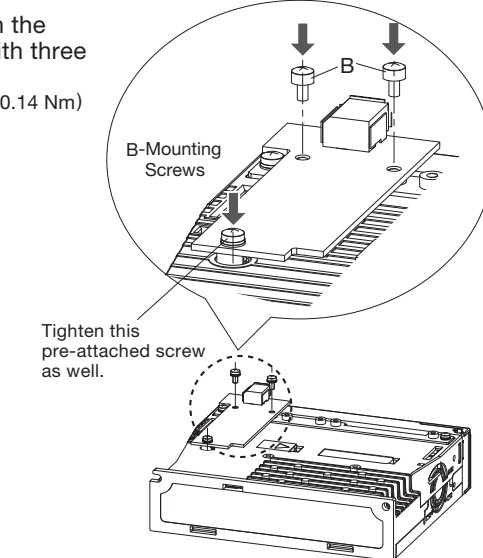


Installing the Board

3. Hold both ends of the board (A) as shown in the illustration, and firmly insert the board connector into the connector port on the SERVOPACK.



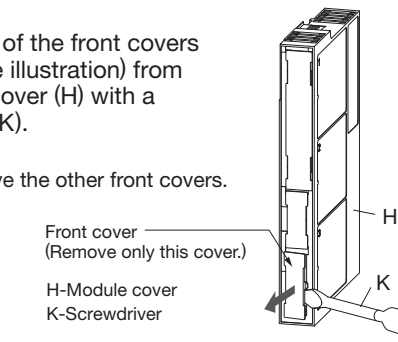
4. Fix the board on the SERVOPACK with three screws. (Tightening torque: 0.14 Nm)



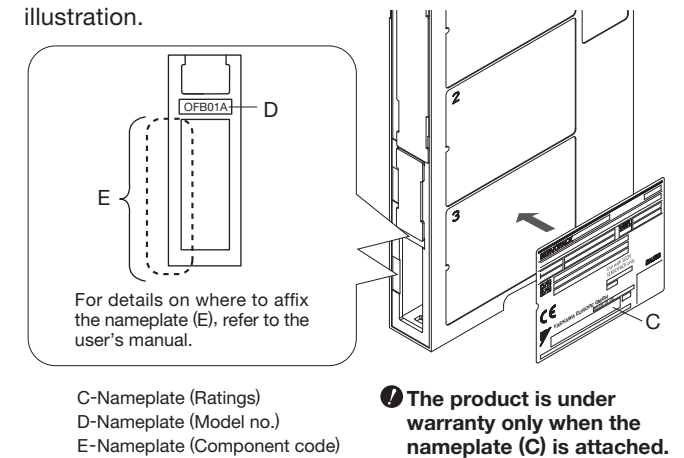
Preparing the Module Cover

5. Remove one of the front covers from the module cover (H) with a screwdriver (K).

- Do not remove the other front covers.



6. Affix three nameplates (C, D, E) to the positions specified in the illustration.



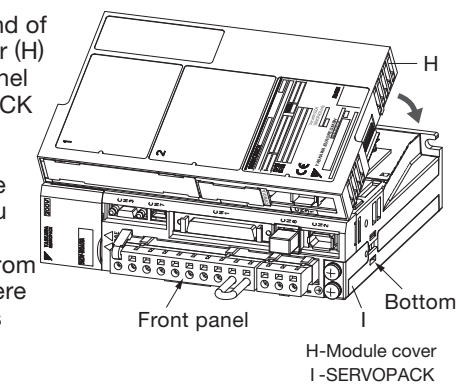
For details on where to affix the nameplate (E), refer to the user's manual.

C-Nameplate (Ratings)
D-Nameplate (Model no.)
E-Nameplate (Component code)

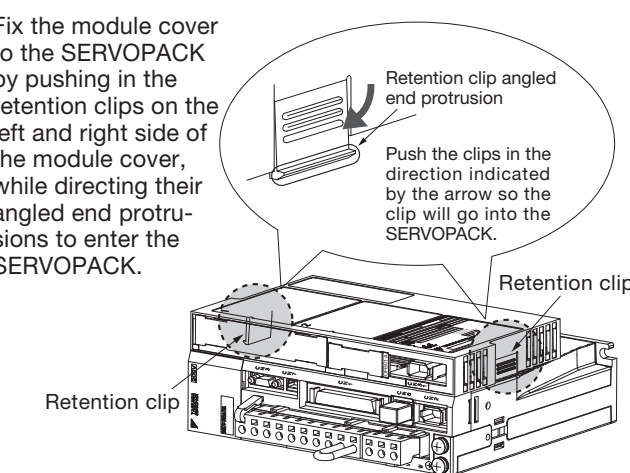
! The product is under warranty only when the nameplate (C) is attached.

Mounting the Module Cover

7. Align the front end of the module cover (H) with the front panel of the SERVOPACK as shown in the illustration, and place the module cover so that you can view the installed board from the opening (where the front cover is removed) on the module cover.



8. Fix the module cover to the SERVOPACK by pushing in the retention clips on the left and right side of the module cover, while directing their angled end protrusions to enter the SERVOPACK.



After Installing

Conduct a trial operation after the feedback option module has been properly installed on the SERVOPACK. For trial operation details, refer to Σ-V Series User's Manual: Setup Rotational motor/Linear motor (SIEP S800000 43/44).

If You Need to Send Us the Option Module for Service

Always leave the option module attached to the SERVOPACK when sending the option module to YASKAWA for service.

**Σ-V Series Feedback Option Module
Installation Guide**

European headquarters

YASKAWA EUROPE GmbH
Hauptstraße 185, 65760 Eschborn, Germany
Phone: +49 (0) 6196-569-300 Fax: +49 (0) 6196-569-398

Manufacturing facility

YASKAWA ELECTRIC UK LTD.
1 Hunt Hill, Orchardton Woods, Cumbernauld, G68 9LF, United Kingdom
Phone: +44 (0) 1236-735000 Fax: +44 (0) 1236-458182