



SmartPump Field Service Manual

⚠ WARNING

Repairing and performing maintenance on Garmin electronics is complex work that can result in serious personal injury or product damage if not done correctly.

NOTICE

Garmin is not responsible for, and does not warrant, the work that you or a non-authorized repair provider perform on your product.

Tools Needed

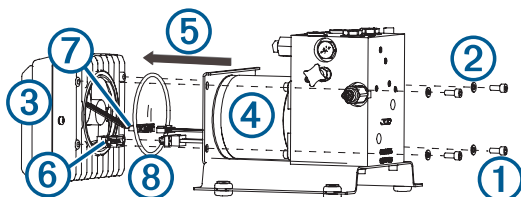
- Wrenches
- 4 mm hex bit or screwdriver
- Bucket or pan to hold hydraulic fluid
- Additional hydraulic fluid and bleeding supplies

Preparing the SmartPump for Service

- 1 Disconnect the SmartPump from the hydraulic system of the boat.
- 2 Drain the hydraulic fluid from the SmartPump into a bucket or a pan.
The drained hydraulic fluid must be disposed of properly, and not reused in the hydraulic system.
- 3 Place the SmartPump on a work bench or other suitable work surface.

Removing the ECU from the SmartPump Bracket

- 1 Using a 4mm hex bit or screwdriver, remove the four M5 hex bolts ① and washers ② that secure the ECU ③ to the SmartPump bracket ④.



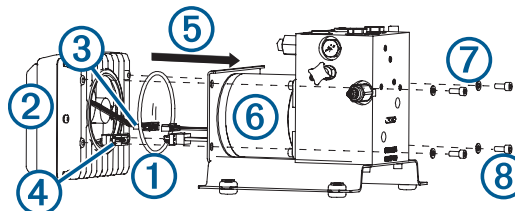
- 2 Separate the ECU from the SmartPump bracket ⑤.
- 3 Disconnect the black, 3-pin connector ⑥ and the white, 8-pin connector ⑦.

The cable with the white, 8-pin connector is fastened to the board on the ECU with a connector that can become disconnected from the board. Because this connector may be difficult to reconnect inside the ECU housing, be careful when disconnecting the cable between the ECU and SmartPump bracket.

- 4 Remove the o-ring ⑧ from the ECU housing and discard it.

Connecting the ECU to the SmartPump Bracket

- 1 Unpack and prepare the replacement component.
- 2 Insert the provided o-ring ① into the ECU housing ②.



- 3 Connect the white, 8-pin connector ③ and the black, 3-pin connector ④.
- 4 Position the ECU on the SmartPump bracket ⑤, so that the bolt holes are aligned.
Be careful to avoid pinching the wires between the two components.
- 5 Using a 4 mm hex bit or screwdriver, secure the ECU to the SmartPump bracket ⑥ with the included four M5 hex bolts ⑦ and washers ⑧.

Completing the SmartPump Service

- 1 Reconnect the SmartPump to the hydraulic system of the boat.
- 2 Add new, clean, hydraulic fluid and bleed the system as instructed in your autopilot and hydraulic steering system instructions.
- 3 Complete the Dockside Wizard to calibrate the pump.
- 4 If the autopilot does not appear to be performing properly, complete the Sea Trial Wizard.

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