

# Recon™ Head Cover GPS/PCB Assembly

**⚠️ WARNING:** This product must be installed in accordance with the instructions provided. Failure to do so could result in personal injury, damage to your vessel and/or poor product performance.

**⚠️ WARNING:** Performing service or maintenance without first disconnecting the battery can cause product damage, personal injury, or death due to fire, explosion, electrical shock, or unexpected motor starting. Always disconnect the battery cables from the battery before maintaining, servicing, installing, or removing motor components.

## In the box

- 1x head cover GPS/PCB assembly
- 5x #6 screws

## Tools needed

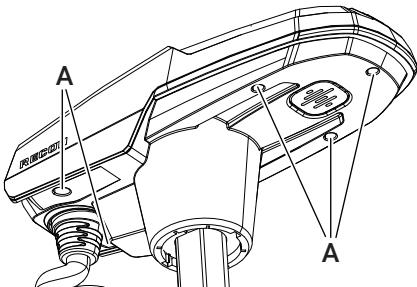
- #2 Phillips screwdriver
- Torque wrench

## Installation

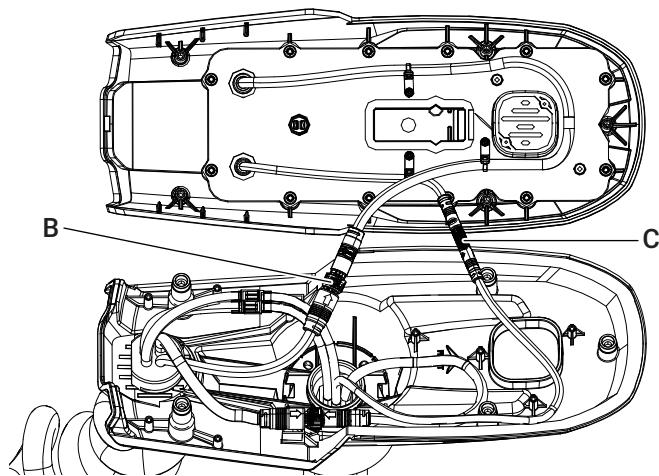
To remove the existing head cover GPS/PCB assembly:

→ *Note: This procedure can be completed while the trolling motor is in either the stowed or deployed position.*

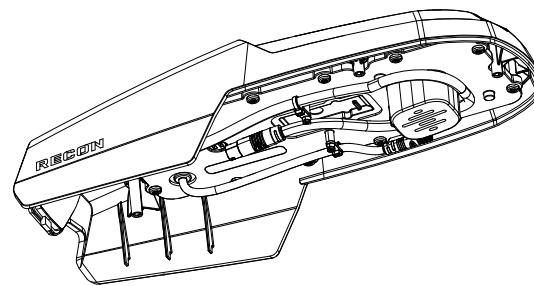
- 1 Disconnect the trolling motor power cable from the battery (or unplug the power cable if using a plug and receptacle).
- 2 Using a #2 Phillips screwdriver, remove the five screws (A) from the underside of the head base.



- 3 Disconnect the head-to-mount communication cable (larger cable with blue, 5-pin connector) by turning the black locking collar (B) a 1/4 turn.
- 4 Disconnect the head-to-lower unit communication cable (smaller cable with black, 4-pin connector) by turning the connector (C) until it loosens.



- 5 Separate the head cover from its base.



To attach the new head cover GPS/PCB assembly:

- 6 Connect the head-to-mount communication cable by aligning the arrows on the connectors, sliding together and turning the black locking collar a 1/4 turn.
- 7 Connect the head-to-lower unit communication cable by aligning the white dots and arrows on the connectors, sliding together and turning until tight.
- 8 Position the head cover over the head base and ensure all cables are tucked inside.

→ *Note: The head cover can only go one way.*

- 9 Secure using five new #6 screws (supplied), and tighten to torque 1.36 Nm (12 in-lb).

# Update software

## Wait for software versions to match

When the trolling motor is powered on after any new board is installed, the GPS/PCB assembly in the head of the trolling motor automatically pushes its current software to the mount controller board (even if the mount controller board has been loaded with a more recent version of the software).

Wait for this to complete before pushing the latest available software to the trolling motor.

## Update the trolling motor to the latest available software

After installing any new circuit board, you should install the latest available software on the trolling motor.

For instructions on how to update the trolling motor software, refer to the Recon™ operator manual.

Before updating:

- Stow the trolling motor.
- Pair and connect any foot pedals and remote controls you want to use, so they receive the same software update.

When updates are complete, power cycle the trolling motor then wait 60 seconds before starting calibrations.

## Calibration

After you've replaced the head cover GPS/PCB assembly and updated the software, you need to re-calibrate the trolling motor's centerline, bow offset, and compass, and power cycle the trolling motor.

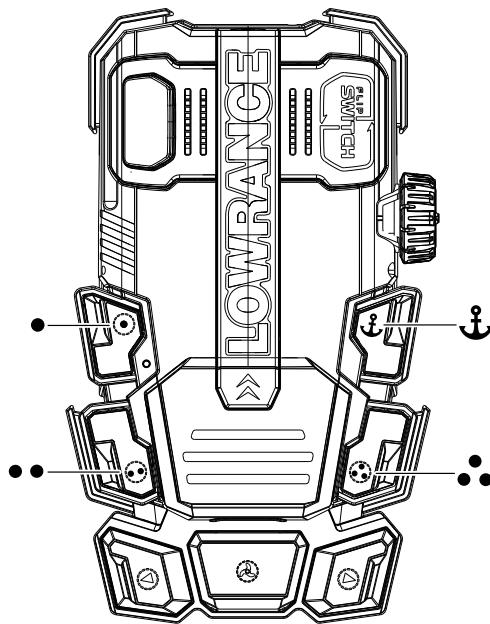
## Calibrate the centerline

→ **Note:** Calibrating the trolling motor's centerline is currently achieved using an Advanced Wireless Foot Pedal. It will be supported in future releases of the FreeSteer™ Joystick Remote and the Lowrance and Simrad® mobile apps.

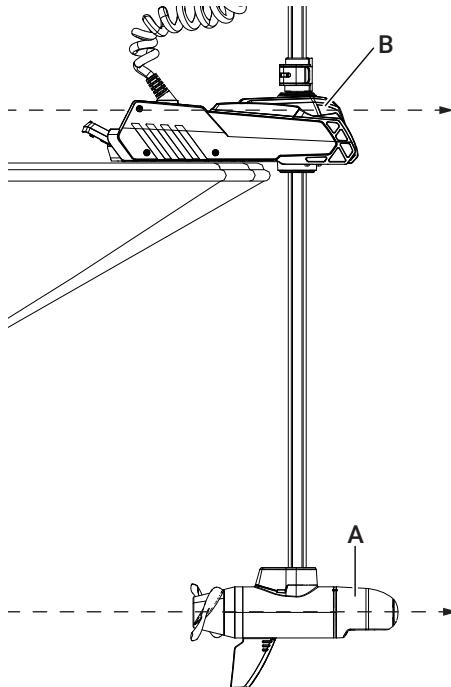
### Foot pedal

- 1 Deploy the trolling motor to where the lower unit can be seen and is able to rotate 360° without obstruction. For best visibility, slide the depth collar down so the lower unit is close to the mount.
- 2 Power on the trolling motor and make sure it is connected to the Advanced Wireless foot pedal.
- 3 To enter service mode, press and hold the • and ⚓ keys on the foot pedal simultaneously until the trolling motor beeps twice and the LEDs on the mount start flashing.

- 4 To enter centerline calibration mode, press and hold the ⚓ and ⚓ keys on the foot pedal simultaneously until the trolling motor beeps twice.

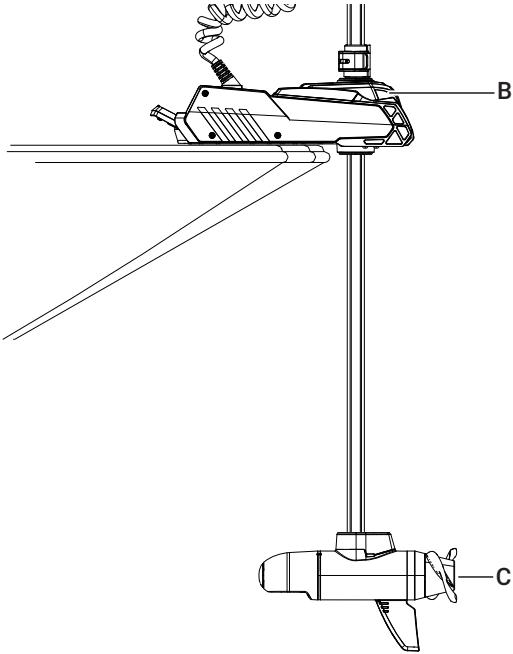


- 5 By hand, move the lower unit nosecone (A) until it is parallel to the center of the steering transmission (B), then press and hold the ⚓ key on the foot pedal until the motor beeps twice.



6 By hand, rotate the lower unit 180 degrees so the propeller (**C**) is pointing forward in line with the steering transmission (**B**), then press and hold the  key on the foot pedal until the trolling motor beeps three times.

→ **Note:** When you rotate the lower unit 180 degrees, the trolling motor head also rotates 180 degrees.



7 To exit centerline calibration mode and service mode, press and hold the  and  keys on the foot pedal simultaneously.

8 Power cycle the trolling motor (turn it off and on again).

## Calibrate the bow offset

For instructions on how to calibrate the bow offset, refer to the Recon™ operator manual.

## Calibrate the compass

For instructions on how to calibrate the compass, refer to the Recon™ operator manual.