



Service Bulletin: High Current Board [HCB] Replacement

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Place motor on the work stand.

Deploy motor to the vertical position.

Remove the two screws that hold the rear cover in place.

Remove rear cover.

Note: The LED Board lead will remain connected. Use caution to ensure that the rear cover is not pulled in such a manner as to damage this cable.

Separate the two black connectors with arrows. (When reconnecting, ensure the arrows line back up.)

Separate the silver steering box connector

Remove the zip ties and heat shrink from the brass connectors.

Note: The port side connectors are power in, and the starboard side connectors are lower unit power.

Remove the two screws holding the HCB board down to the aluminum extrusion.

Remove HCB board from aluminum base.

Wipe clean to ensure a good fit.

Vaseline bottom side (Aluminum) of HCB.

Insert HCB into extruded base with the round silver buzzer facing forward.

Attach with screw in hole nearest to foot pedal.

Reconnect brass connectors and heatshrink/zip tie.

Note: Please cover the silver round buzzer with a piece of thick material (cardboard or wood) to ensure it does not overheat when the heat shrink is shrunk.

Note: Please ensure there is minimal separation in power wires per photo for optimal performance.

Run steering motor wire under power cable on starboard side.

Reconnect silver steering box connector making sure logos on wire are matching up together.

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Push all wires down for optimum performance.

Attach zip tie with bolt hole to power and Data cable wires.

Put screw in zip tie and fasten to HCB and extruded frame. (Careful to not over tighten zip tie.)

Make sure ALL tag ends have been cut off flush, wires are shrink wrapped and pushed down.

Reconnect the two black connectors for the LED board and the coiled cable. They are not wire specific but must have the arrows aligned when connected.

Push all the wires down to the HCB board for optimal performance.

Place rear cover on system and attach with 2 bolts





Rhodan Marine Systems of Florida

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Perform functionality test

Plug motor into power and ensure there is a beep for power up and after 30 seconds to 3 minutes, 4 beeps for acquired GPS (left LED will turn solid green).

Operate the system in Manual mode (left, right, forward to 100%, reverse to 100%)

Push OFF and the motor should center with the keel of the boat. If it does not please redo the centering calibration

Push T and the motor should track at 40% thrust and generally point straight ahead

Push A and the motor will anchor and steer/thrust itself.

Place rear cover on system and attach with 2 bolts

Give system a general wipe down and it is ready for use.