

MAYFAIR PERFORMANCE

Display Adapter Installation Instructions

Operation

The MDC Display Adapter converts the analog position signals for engine and tab trim to a NMEA 2K message that can be displayed on any NMEA-compatible multi-function display. The adapter supports one or two engines and two tabs. Engine and tab selection is automatic.

Installation

The adapter should be mounted in a dry location. To reduce the chances of water intrusion the cable clamp should be facing down. Refer to the included diagram to make the following wiring connections. Each harness contains a red wire for +5-volt power to the sender and black for ground. The third wire color indicates engine or tab the harness belongs to. If a harness is not used, then carefully tape the wire ends to prevent a short circuit.

- BROWN is PORT Engine Trim
- GRAY is STARBOARD Engine Trim
- PURPLE is PORT TAB TRIM
- ORANGE is STARBOARD TAB TRIM

The NMEA backdrop cable (not included) will provide the power and ground for the adapter. Please be sure that your NMEA network include the requisite power drop.

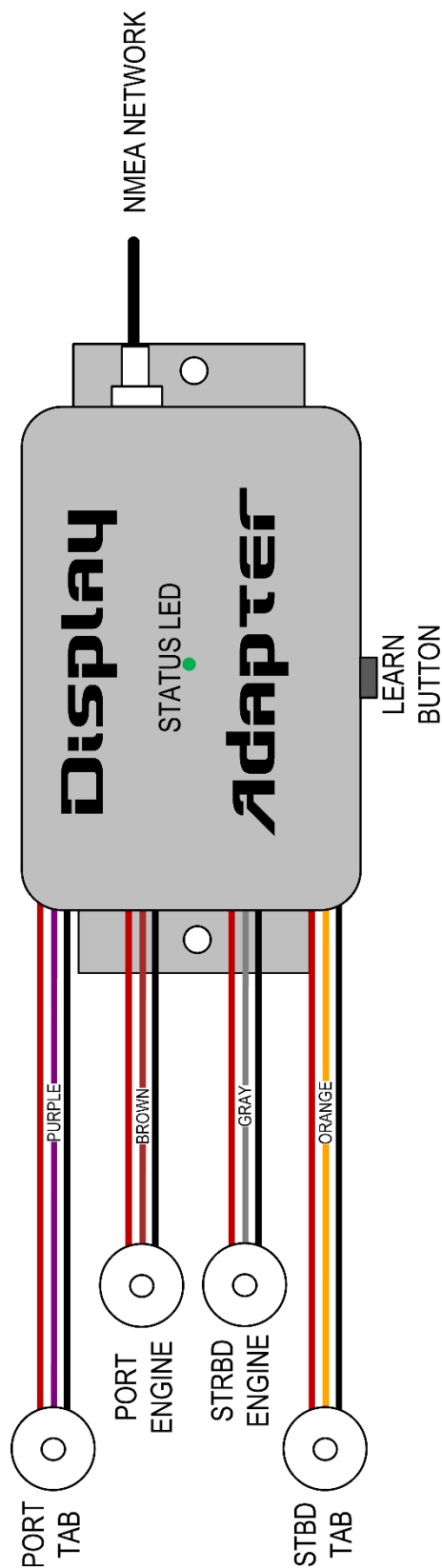
Calibration

Use the following procedure to calibrate the adapter's output and ensure a range of 0-100% on the display. The adapter supports one or two engines and / or one two trim tabs.

1. Move the engine(s) and tabs (if installed) full down. The LED will be rapidly flashing GREEN and the engine and tab positions on the MFD will show them all at 10%. Please note that depending on how your MFD is configured, every instance will be displayed at 10% even if you do not have two engines or tabs.
2. Press and hold the LEARN button and the LED will turn RED. Continue to press the LEARN button until the LED changes to slowly flashing GREEN. The LED will slowly flash green and the engine and tab positions on the MFD will show them all at 90%.
3. Move the engine(s) and tabs (if installed) fully up. If the LED starts flashing red it means that one, or more senders do not have sufficient range. The LED will flash a repeating sequence every three seconds. One flash is PORT ENGINE, two is PORT TAB, three is STARBOARD TAB, four is STARBOARD ENGINE. You can continue with the calibration but the senders with errors will be inoperative.
4. Press and hold the LEARN button and the LED will turn RED. Continue to press the LEARN button until the LED will change to solid GREEN and the MFD will show all active engines / tabs at 100%.

Factory Reset

If a sender has been replaced the adapter must be re-calibrated to have an accurate position displayed. To reset the adapter, press the LEARN button and the LED will change to red. Continue to hold the button until the LED begins flashing green. This will take approximately ten seconds. Once flashing green the adapter can be re-calibrated.



MERCURY STERN DIVE

- Sender Red to Red
- Sender White to Brown / Gray
- Sender Blue to Black

MERCURY TRIM TAB

- Sender Purple to Red
- Sender Green to Brown / Gray
- Sender Black to Black

MAYFAIR GEN I SENDER

- Sender Red to Red
- Sender White to Brown / Gray
- Sender Black to Black

MERCURY OUTBOARD (pre-SmartCraft)

- Sender Purple to Red
- Sender Yellow to Brown / Gray
- Sender Black to Black

MAYFAIR GEN II SENDER

- Sender Red to Red
- Sender Yellow to Brown / Gray
- Sender Black to Black