Service Bulletin

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Cummins MerCruiser Diesel SmartCraft Gauge Operation Manual

Models Affected

Model	Serial Number Range
QSD 2.0L Diesel	ALL
QSD 2.8L Diesel	ALL
QSD 4.2L Diesel	ALL

Summary

This bulletin announces the **CMD (Cummins MerCruiser Diesel) System Speedometer and Tachometer Operation Manual** (90-869260.) This operation manual and the corresponding translations are available on CD (90-869264.) The **CMD System Speedometer and Tachometer Operation Manual** is a subset of the **Mercury SmartCraft Gauge Systems Operation Manual** (90-10229023.) The information provided in this bulletin will detail some of the features and differences between gas and diesel applications of the system gauges.

Information

The CMD SmartCraft system gauges are the System Tachometer and the System Speedometer. The System Tachometer options will include both a 4000 RPM version for the QSD 2.8L and QSD 4.2L, and a 7000 RPM version intended for the QSD 2.0L.

The System Tachometer is supplied with a message sticker affixed to the clear plastic cover. This message concerning the configuration of multiple engines is strictly a Mercury gas product warning and does not apply to Cummins MerCruiser Diesel engines. In a CMD application, the System Tachometers can detect the engines on board. The typical twin-engine configuration has the starboard engine set as the master, the port engine set as the slave, and a CAN link harness connecting the two engines together at the junction boxes.

In a typical twin-engine setup, if both tachometers are present upon key-on, a selection screen appears on the digital display screen prompting the user to select for which engine each tachometer should be configured. In a multiple engine installation in which the engines are separated from each other (no CAN link harness), both engines are set as master (starboard) IDs and the tachometers auto-detect this configuration.

IMPORTANT: A master reset removes all saved settings and allows the detection and configuration process to restart.

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These system gauges are used in both gas and diesel configurations. Certain screens on the system gauges are not applicable to diesel configuration and should be ignored. A calibration procedure is outlined in the operation manual that allows you to enable or disable these screens.

In addition to the standard functionality of the SmartCraft system gauges, CMD QSD engines have the added feature of displaying active fault code numbers on the System Tachometer digital display screen.

Interpreting the Readout of Fault Codes on the System Tachometer

To indicate an active fault code present, the following screen appears on the tachometer display:



26317

A blinking "AL" also appears in the upper right hand corner of each menu on the digital display screen to signify an active fault. A major fault is also accompanied by an audible alarm. Certain faults will also display a specific text description warning screen as covered in the **CMD System Speedometer and Tachometer Operation Manual.**

To view the active fault code number(s) press the "MODE" button until you reach the total engine hours readout on the System Tachometer digital display screen. In the event of an active fault code, the total engine hours are only displayed for 30 seconds following key-on. After this 30 second period, the digital display screen outputs the active fault code number (s) in 3 second intervals in place of the total engine hour value.

NOTE: *To view the total engine hours after 30 seconds, cycle the key switch.*

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