MERCURY MARINER

Service Bulletin

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Fuel Gauge Calibration Using SmartCraft Tachometer Software Version 3.05

Situation

The new SmartCraft tachometer software version 3.05 for descriptive text and/or Smart Tow have a software change to the "ADD FUEL" calibration option.

There are two options for fuel gauge calibration. The first is "DEFAULT" and the second is "ADD FUEL". The gauge will not allow the "ADD FUEL" calibration process to start with a completely empty fuel tank. With the fuel tank sender float at the bottom of its travel, and a reading of 0.3% or less, the gauge will not allow the "ADD FUEL" calibration process to start. The gauge calibration will work fine if the "DEFAULT" calibration option is selected.

Listed below are gauge kits that are currently using software version 3.05 tachometers.

Part Number	Description
79-889223K16	KIT-TACH SP 80 W/C
79-889223K17	KIT-TACH/SPD 80 WC
79-898283K04	KIT-TACH W/CRUS W/S
79-889222K01	TACH-KIT-BLACK
79-898283K03	KIT-TACH W/CRUS GRAY
79-898283K01	KIT-TACH W/CRUS BLACK
79-889222K02	TACH KIT WHITE
79-889222K03	TACH KIT GRAY
79-889222K04	TACH KIT – W/CHROME
79-889223K10	KIT TACH & SP 80 BLACK
79-889223K11	KIT TACH & SPD 80 BLACK
79-889223K12	KIT TACH & SP 80 WHITE
79-889223K13	KIT TACH & SPD 80 WHITE
79-889223K14	KIT TACH & SPD 80GRAY
79-889223K15	KIT TACH & SPD 80 GRAY
79-889223K18	KIT TACH & SPD S-G/B
79-889223K19	KIT-TACH & SPD D-G/B
79-898283K02	KIT-TACH W/CRUS WHITE

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Correction

To perform the "ADD FUEL" gauge calibration, you must add fuel or move the fuel tank level sender float to obtain one of the following:

- Resistance reading of less than 215 ohms across the sender terminals
- If viewing the data with the CDS you would need to see a sender count of 560 or less
- Reading of 1% or higher on the SmartCraft tachometer

NOTE: *If the "ADD FUEL" calibration process is to be done with predetermined values and no fuel added to the tank, the installers could use a second fuel tank sender to start the calibration process. By connecting the sender across the fuel tank sender wires, then raising the sensor float to obtain a 1% or higher value on the gauge, the "ADD FUEL" calibration can then be completed.*

The next software version (3.05A) will allow the "ADD FUEL" calibration to be completed with a completely empty fuel tank (percentage value of 0).

NOTE: *The gauge software version can be viewed on the gauge when the ignition key is first turned to the "ON" position.*

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