Service Bulletin

Issue: Instruments do not display Trim and Depth data due to lack of required sensors

Notice: This bulletin clarifies the intended performance and expectations for the Faria Beede digital instrumentation installed in the Bentley & Elite instrument panels.

The digital Tachometer and Speedometer with LCD windows are designed to read a number of functions available from the boat's engines and the CAN Bus system including Depth and Trim.

Tachometer (May not display trim data)

Individual boat manufacturers identify which functions will be programmed into the digital instrumentation package built at the factory. For Encore, the digital Tachometers are programmed to read the following functions;

- Battery
- Trim
- Engine Hours
- RPM

Solution: For Mercury SmartCraft engines if the trim signal is not available on the CAN Bus you will need to purchase the Mercury Trim Limit Switch Kit, part number ***8M0087542***, to convert the signal to digital data.

The SmartCraft version of the MG3000 Tachometer does not include analog inputs for trim signals or any other analog sensor.

The NMEA2000 version of the MG3000 Tachometer includes analog inputs for trim signals or tank levels.

Please note - For NMEA 2000 engines (BRP, Honda, Suzuki, Tohatsu, Yamaha, Volvo Penta and others) the trim signal is available on the CAN Bus.

Exception: Evinrude engines of 90 HP or smaller do not send a digital trim signal. However, Trim can still be measured by the Tachometer by attaching the analog trim wires from the engine to the back of the Tachometer (Pins 6, 7, 8) [See Wire Diagram on the next page]. To accomplish this the dealer will need to run wire from the digital Tachometer to the trim sender.

Speedometer (may not display Depth Data)

The digital Speedometer functions just like the digital Tachometer and is designed to display

- GPS Speed*
- Depth*

*These functions will only be available if the boat is equipped with a transducer (i.e. Faria Part Number SN2011) and a GPS antenna (i.e. Faria Part Number GPS106).

Mercury-Mercruiser ***79-8M0075628*** TRI-DUCER KIT

Other functions may be available. Please contact Faria Beede Customer Service & Technical Support personnel for instrument programming instructions. Faria Beede personnel are standing by to help should you have any questions.

For additional information, assistance or you have any questions regarding this, please call Faria Customer Service at 1-800-473-2742 or 860-848-9271.

For additional help contact Jason Clark - Customer Service Manager at extension 1229.

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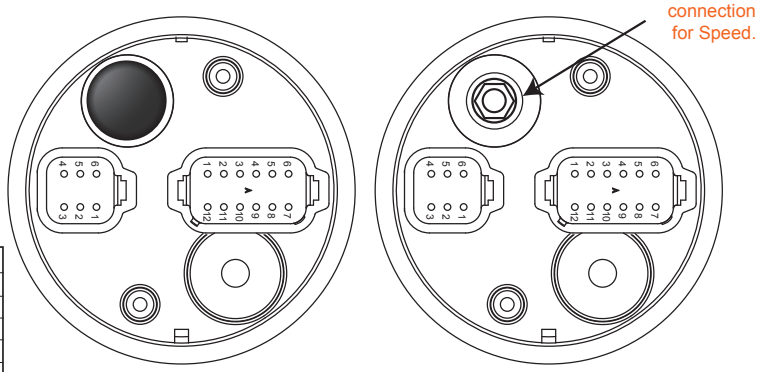
Our products are continually being improved. Specifications may change without notice.

Wire Diagram

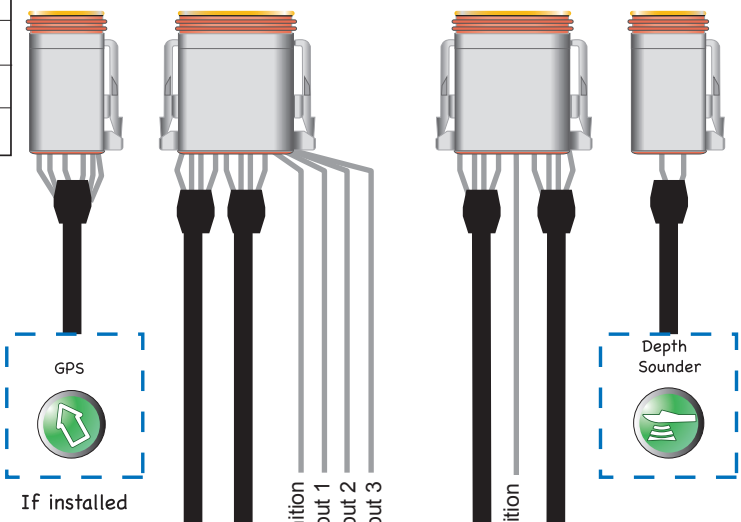


12- pin connector

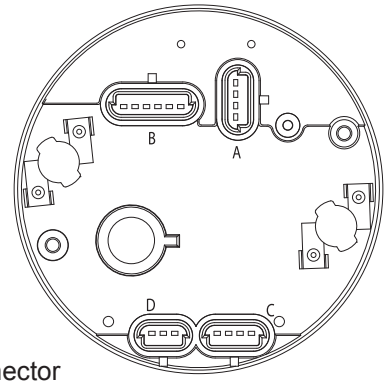
Pin 1	7.7 vDC (Faria Bus +)
Pin 2	Faria Bus A
Pin 3	Faria Bus B
Pin 4	Ground
Pin 5	12vDC Ignition
Pin 6	Analog Input 1
Pin 7	Analog Input 2
Pin 8	Analog Input 3
Pin 9	• NMEA B+
Pin 10	• NMEA Ground • SmartCraft Ground
Pin 11	• NMEA CAN Hi (+) • SmartCraft 1+
Pin 12	• NMEA CAN Low (-) • SmartCraft 1-

12- pin connector

Pin 1	7.7 vDC (Faria Bus +)
Pin 2	Faria Bus A
Pin 3	Faria Bus B
Pin 4	Ground
Pin 5	12 vDC Ignition
Pin 6	N/C
Pin 7	N/C
Pin 8	N/C
Pin 9	7.7 vDC (Faria Bus +)
Pin 10	Faria Bus A
Pin 11	Faria Bus B
Pin 12	Ground



Multifunction Gauge

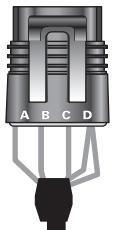


6- pin connector

Pin 1	RS232 Rx
Pin 2	Ground (bootload)
Pin 3	NMEA 0183 (+)
Pin 4	NMEA 0183 (-)
Pin 5	RS232 Prog. Sw (bootload)
Pin 6	RS232 Tx

6- pin connector

Pin 1	RS232 Rx
Pin 2	Ground (bootload)
Pin 3	Depth Signal (+)
Pin 4	Depth Signal (-)
Pin 5	RS232 Prog. Sw (bootload)
Pin 6	RS232 Tx



Information from the ECU

Wire Jacket

4- pin connector

Pin A	8.4 vDC Faria Bus (+)
Pin B	Faria Bus A
Pin C	Faria Bus B
Pin D	Ground

Faria Bus

4- pin connector

Pin A	8.4 vDC Faria Bus (+)
Pin B	Faria Bus A
Pin C	Faria Bus B
Pin D	Ground

Faria Bus
(To other gauges)