

(Replaces 2003-2005 Faria Gateway Gauge System)





What's Included:



gauge and hour meter







2" engine temp





2" air temp, water temp, depth

2" volt







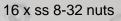
DT04-6P Deutsch conn.



Deutsch DT pins x 6





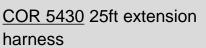


16 x ss 10-32 nuts

2 x brass 8-32 nuts

2 x ss lock washers







COR 5428 Gauge wiring harness



Recommended Tools



















Procedure Overview

Information about this kit:

If you have determined that the Faria Gateway box is defective, there is no direct replacement for this device which will allow you to continue to operate with the original Gateway-driven gauges. Removal of the actual Gateway box is optional, but all original gauges must be removed. The Analog Gauge Installation Kit outlined in this manual will replace both Gateway box and Gateway gauges used in Nautique boats from model years 2003 to 2005.

- 1) Remove old gauges from instrument panel
- 2) Install new gauges
- 3) Install analog gauge harness
- Attach GPS antenna to bottom of dash pod
- Install 25ft extension harness between dash and Gateway box at transom





1) Remove old gauges from instrument panel

From behind dash pod, disconnect

- a) Stereo remote cable
- b) Keypad
- c) Analog Instruments connector (white 12-pin)
- d) Cruise Control
- e) Faria bus cables



Remove steering wheel and detach dash pod

Disconnect Faria bus jumpers from between gauges

Remove all gauges except cruise control

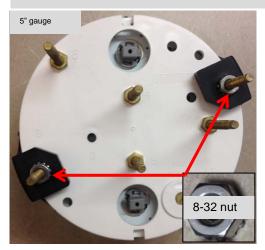




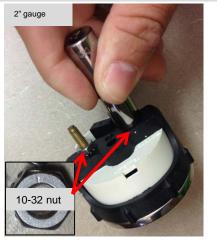
2) Install new gauges

- Use supplied hex nuts to attach each gauge to the instrument panel.

Use caution when tightening black gauge brackets to avoid cracking the instrument panel. Tip: use a socket without a ratchet to tighten each nut.













Cruise control

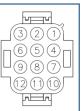




3) Install analog gauge harness



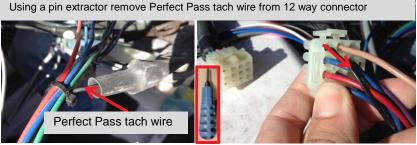
Note: connector pinout is labeled from the wire insertion view, beginning at the notch for position #1





If you don't have a pin extractor, you can cut and splice the black and gray tach wires together to supply the tach signal to Perfect Pass and Tachometer

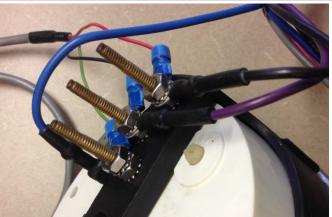
wire in position 2

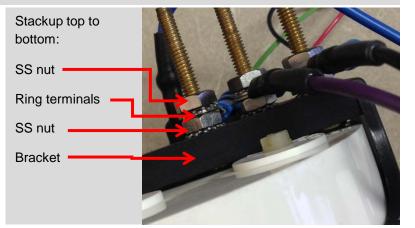


Insert PP tach wire in the 2way connector supplied with the new gauge harness, then insert gray wires back into position 3

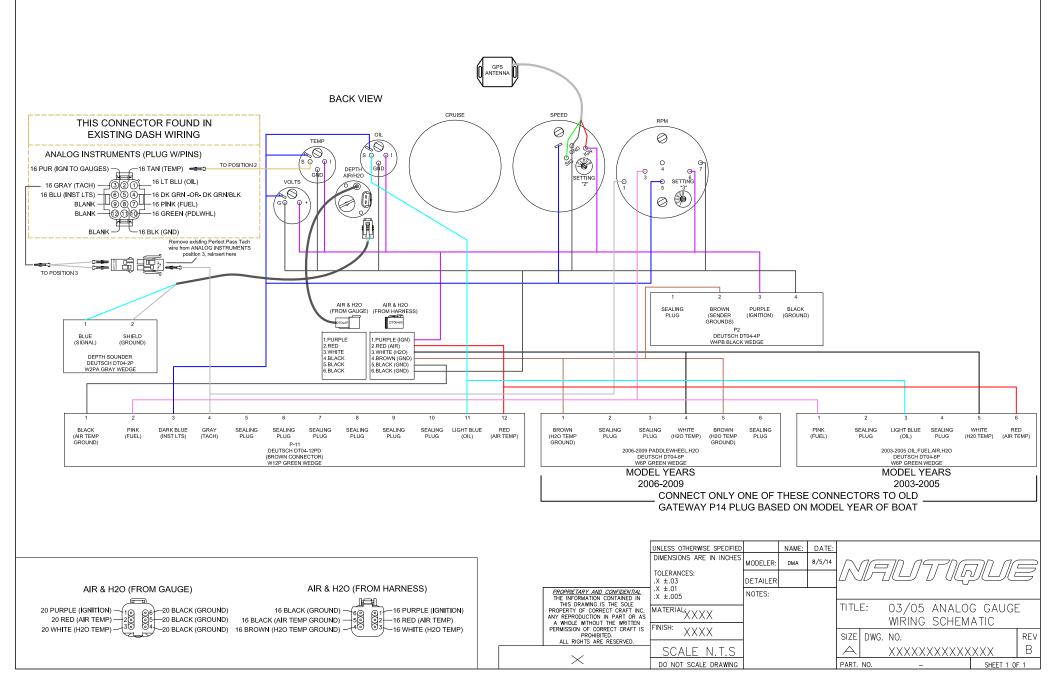
Attach wires to gauges by sandwiching all ring terminals between two SS nuts. See schematic to locate each wire.







2003-2005 ANALOG GAUGE HARNESS FOR FARIA GATEWAY GAUGES REPLACEMENT KIT





4) Attach GPS antenna to bottom of dash pod











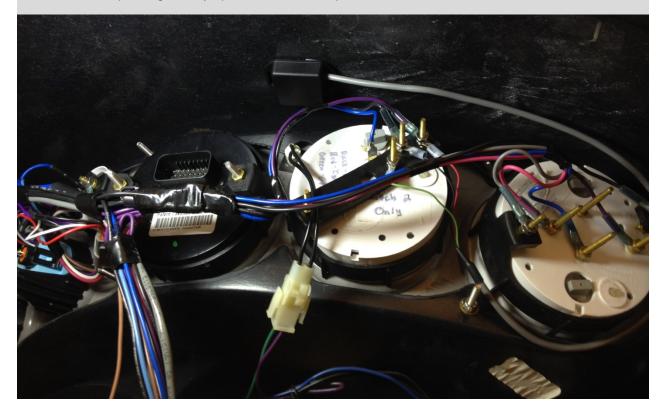


Install 1.5" x 1.5" VHB tape on bottom of GPS antenna



Prep the bottom surface of the dash pod with rubbing alcohol to remove contaminants. Remove adhesive backing and press antenna firmly into position as shown near the Speed gauge.

The orientation and exact positon of the antenna is not critical, though it should be oriented with its bottom surface pointing directly upward to maximize performance.

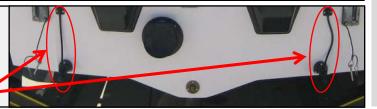




5) Install 25ft extension harness

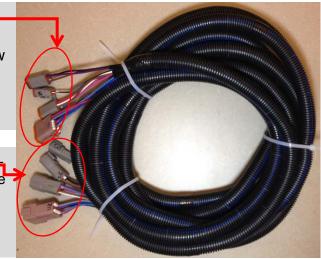
- a) Identify a suitable routing for the extension harness between the gateway box and the helm, away from hot or moving parts.
- b) Secure it to the boat with zipties 18" apart throughout its length.
- Disconnect all wired connectors from Gateway box then connect the plugs from P2, P11, P13, and P14 into the matching receptacles from the extension harness.

Note: If old gateway box is removed from the boat when the new system is installed, be sure to plug the unused pitot tubes or remove the pickups and fill the holes to prevent leaks.

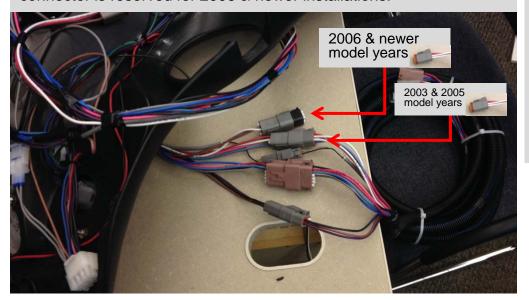


Plugs – connect these to new gauge harness at the helm

Receptacles connect these to plugs from the old gateway box



Gauge harness and extension harness interface - One 6way connector is reserved for 2006 & newer installations.



Old Gateway plugs P2, P11, P13, & P14 connect to new extension harness receptacles



Faria Bus(P3) and J1939(P6) are not used





Post Installation System Check

- An actual water test is recommended to ensure a fully functioning delivery to the customer.
- Perform this test with the engine running.
- Check Speedometer after GPS has locked in. The needle will hover around 4mph during satellite acquisition, then drop down to zero once acquired. If Perfect Pass is installed, use the "speed adjust" feature in the Perfect Pass display to match its speed to the new Speedometer.
- Check depth, air temp, and water temp gauge. Use the UP and DN arrows to toggle between air temp and water temp.
- Check Volt, Oil pressure, and Engine Temp gauges.
- Check Fuel and RPM gauge.





Troubleshooting

Problem	Possible Solutions
Gauge does not function at all	 Check for proper locations of gauge's ring terminals according to schematic Check for "12v" between gauge's Ignition and Ground posts Check for loose connection to gauge's Signal post
Gauges (multiple) do not function	 Check orientation of Brown12-way Deutsch connector Check boat harness connection to engine harness
Speed readout more than 1.5mph different from "actual" speed	 Make sure dial on back of gauge is set to 2 Use "speed adjust" setting in Perfect Pass to sync it with the new analog GPS Speed gauge
Speed readout shows 5mph, but boat is stationary	- GPS defaults to 5mph until a satellite signal is locked. If no lock is achieved in reasonable time, try a different area, then replace antenna if unsuccessful
Speedometer does not respond	 Check for loose connections on the back of speedometer Check wiring schematic for proper connections at the back of speedometer Check for "12v" between ignition and ground posts of speedometer
Hours on tachometer (RPM gauge) LCD are <u>less</u> <u>than</u> ECM hours in Diacomm	- The new tachometer LCD begins hours at 0.0, regardless of engine's actual hours before installation. Only remedy is to connect Tachometer to 12v until timer catches up to ECM hours
Hours on tachometer LCD are <i>greater than</i> ECM hours after many hours of operation	 No solution. Because tachometer hours are recorded by an independent clock when ignition power is on, it will deviate from the ECM's recorded hours. Always use Diacomm to read the boat's actual hours
Tachometer is inaccurate or does not work at all	- Make sure the dial on the back is set to 3
Engine Temp gauge does not work	 Check location of Tan wire in the white 12-way connector behind the dash. It should connect to a Brown or Tan wire in the mating connector. Check boat harness connection to engine harness
Depth does not read when in favorable water, but Water and Air temp are ok	Check 2-way connection behind gaugeCheck for damage to transducer in hull

