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Matrix Serial Gauge Instructions
SmartCraft® and NMEA 2000®

Gauge set overview

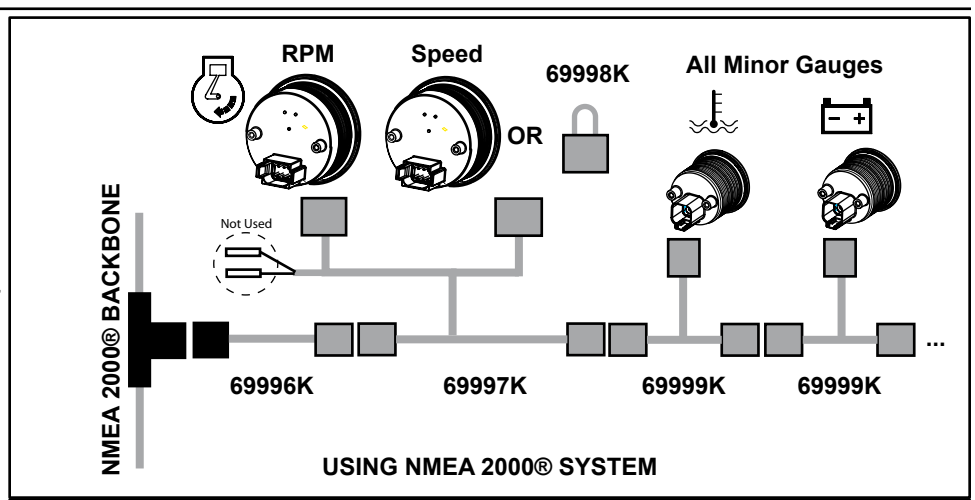
The Matrix gauge set is intended to operate on vessels using the SmartCraft® and NMEA 2000® protocols. The gauges operate on 12 volt systems and support single, dual, triple and quad engine applications. In a Matrix gauge set, the 3” Tachometer is the master and connects directly to the SmartCraft® or NMEA 2000® data bus. All other gauges are slaves and connect to the Tachometer RS-485 private bus. The Tachometer reads applicable engine parameters (SmartCraft® or NMEA 2000®) and forwards them on the private bus for the slave gauges. Both the tachometer and the speedometer gauges include a LCD used to show engine parameters and conditions. The LCD has an active area of approximately 2” x 0.5” and a 128 x 32 pixel resolution. Buttons are provided underneath the LCD to select data display and acknowledge alarm conditions. LED’s are provided on either side of the LCD and are also used to indicate an alarm condition.

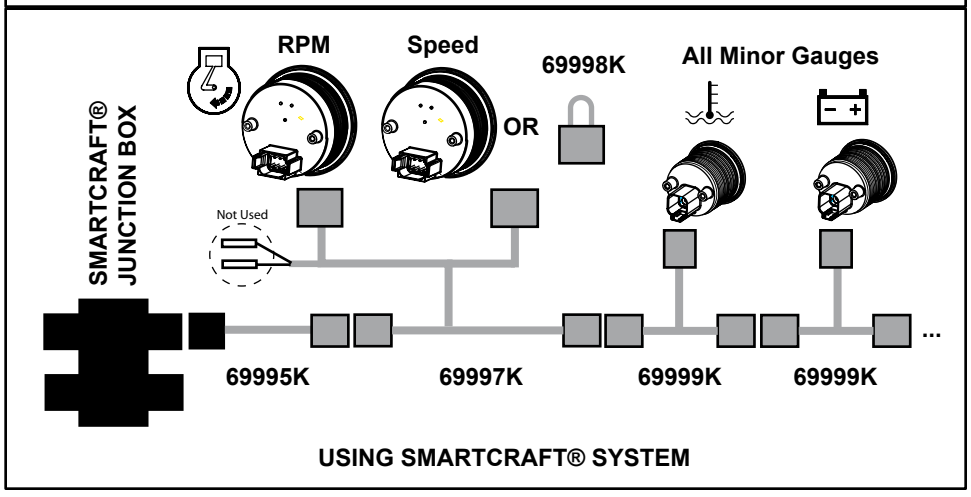
Alarms

Only the tachometer will show warning icons and red warning lights. When alarm condition occurs, pressing ENTER will acknowledge and silence the audible alarm. The active alarms and red warning lights will remain until the alarm condition is resolved. All alarms can be viewed in the Alarms window. Please refer to engine manual for more information on individual alarms.

Troubleshooting

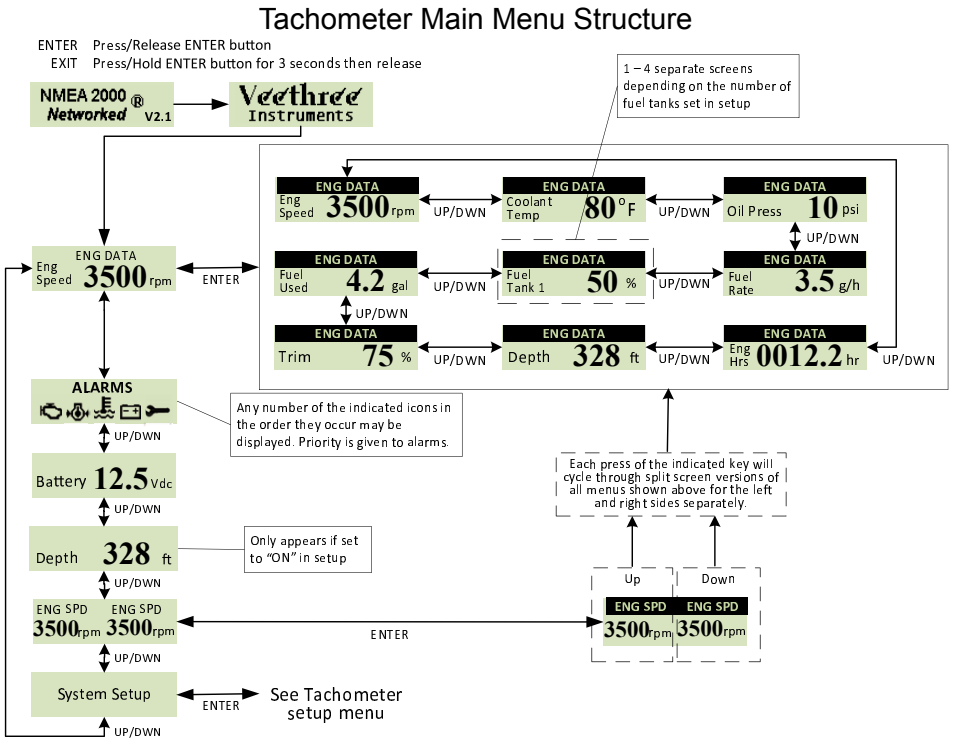
Please make sure all harness connections are fully seated and are tight. These serial gauges can only display data that they receive, if some data is blank, verify that the information is actually being sent from the engine computer. To properly troubleshoot NMEA 2000® or SmartCraft® CAN bus network, proper equipment must be used to ascertain if the engine is sending the information. Please refer to a dealer that has trained personnel of this type of engine. Some senders may need to be calibrated per manufacturers directions before they would send proper information on the CAN bus.



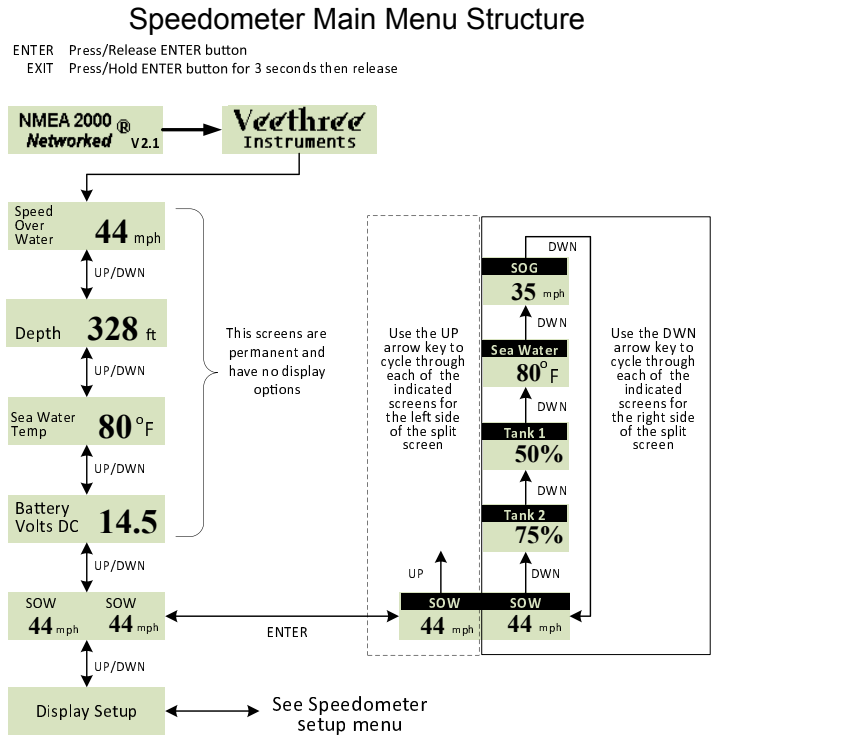


NMEA 2000® Tachometer and Speedometer Menu Structure

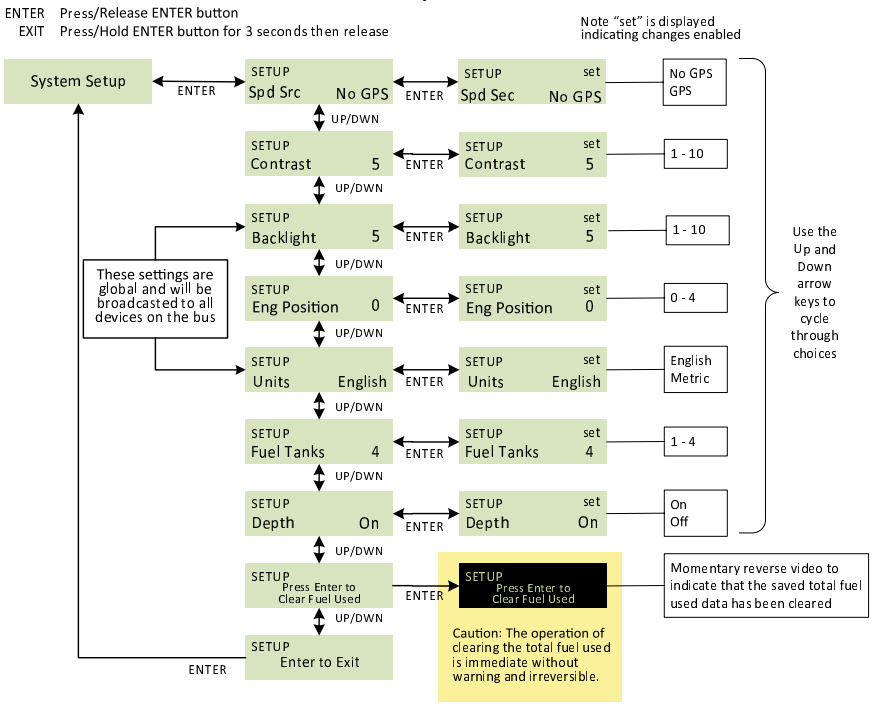
Tachometer Main Menu Structure



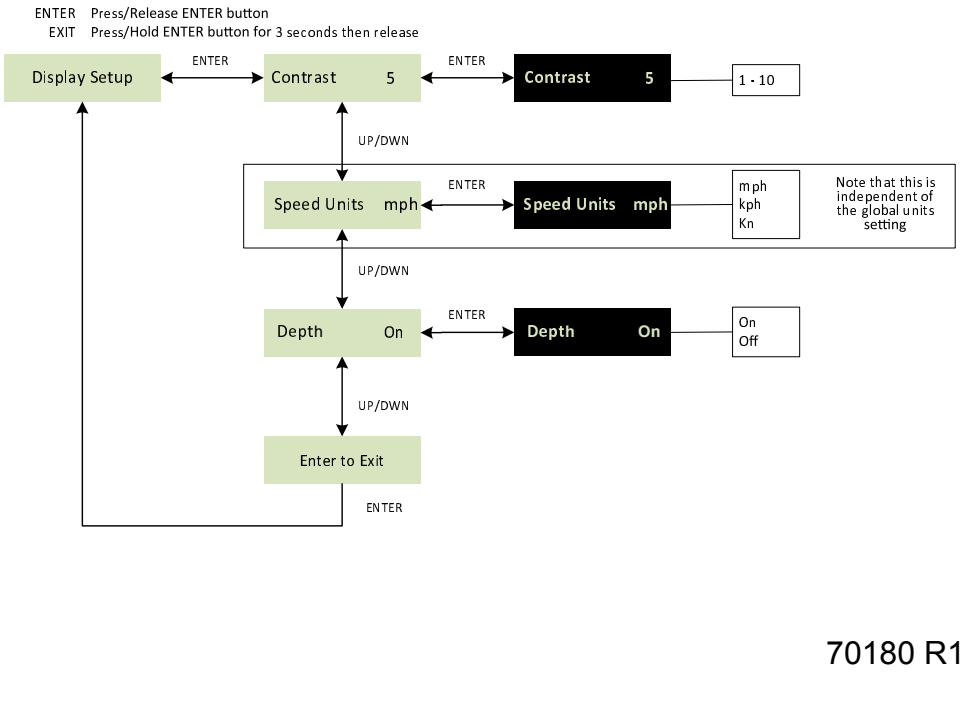
Speedometer Main Menu Structure



Tachometer Setup Menu Structure

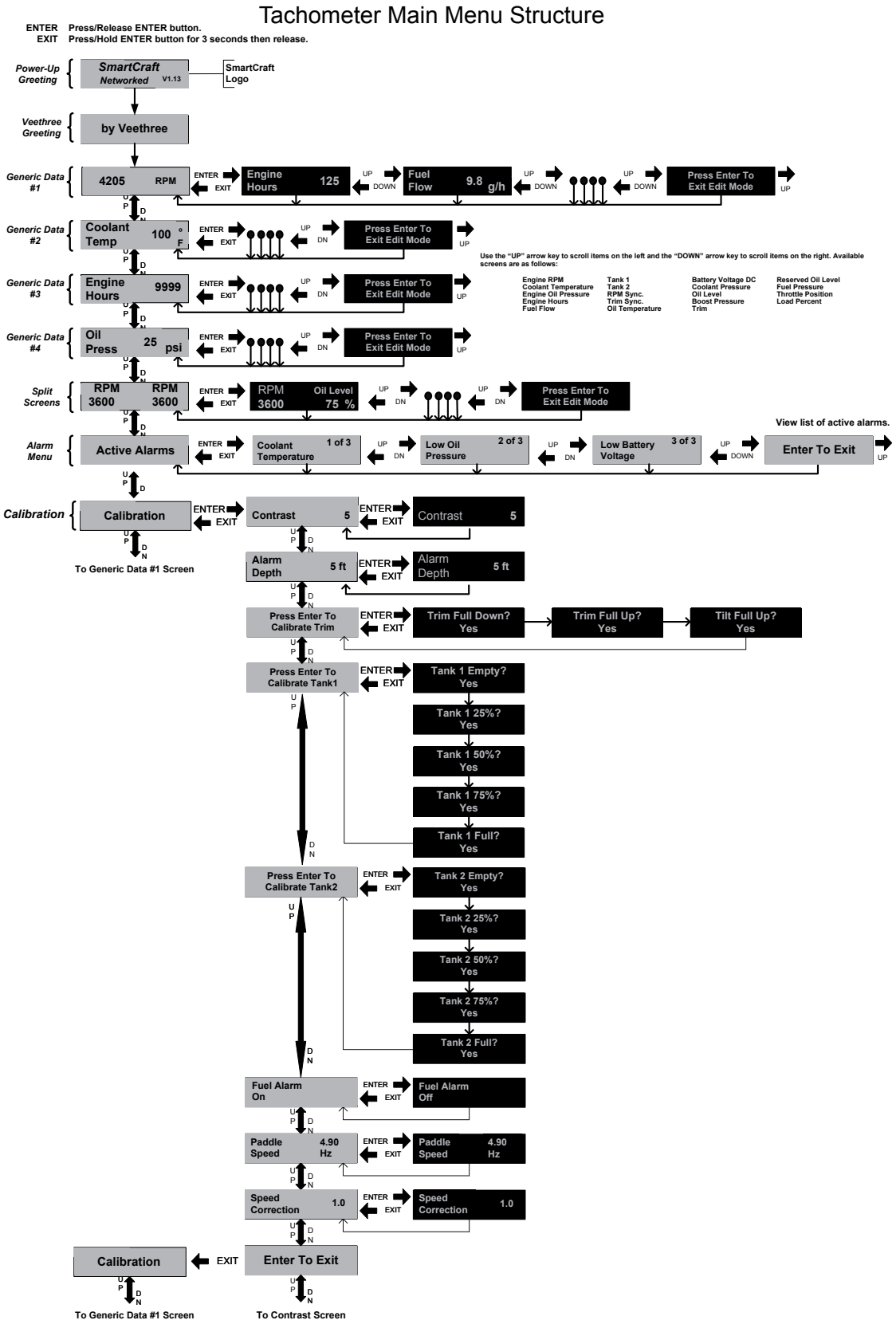


Speedometer Setup Menu Structure

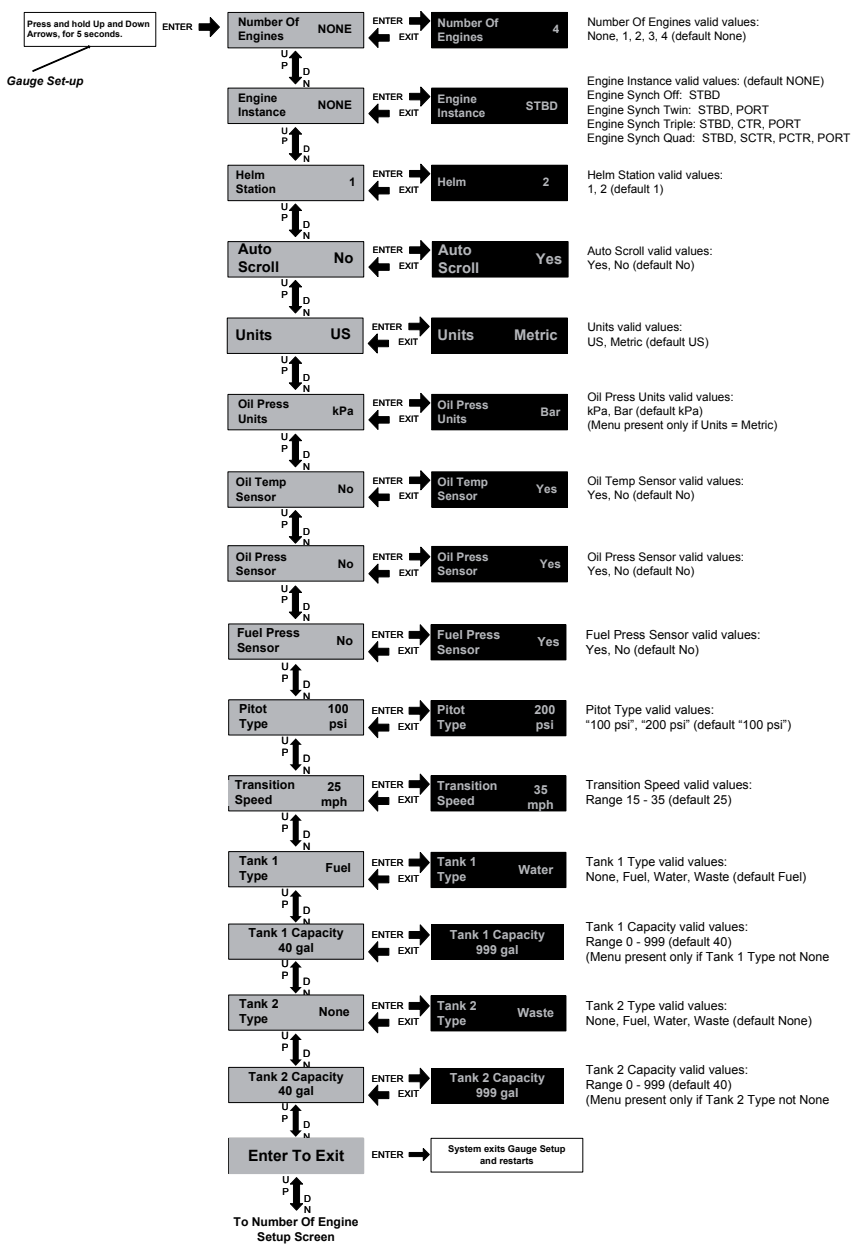


SmartCraft® Tachometer and Speedometer Menu Structure

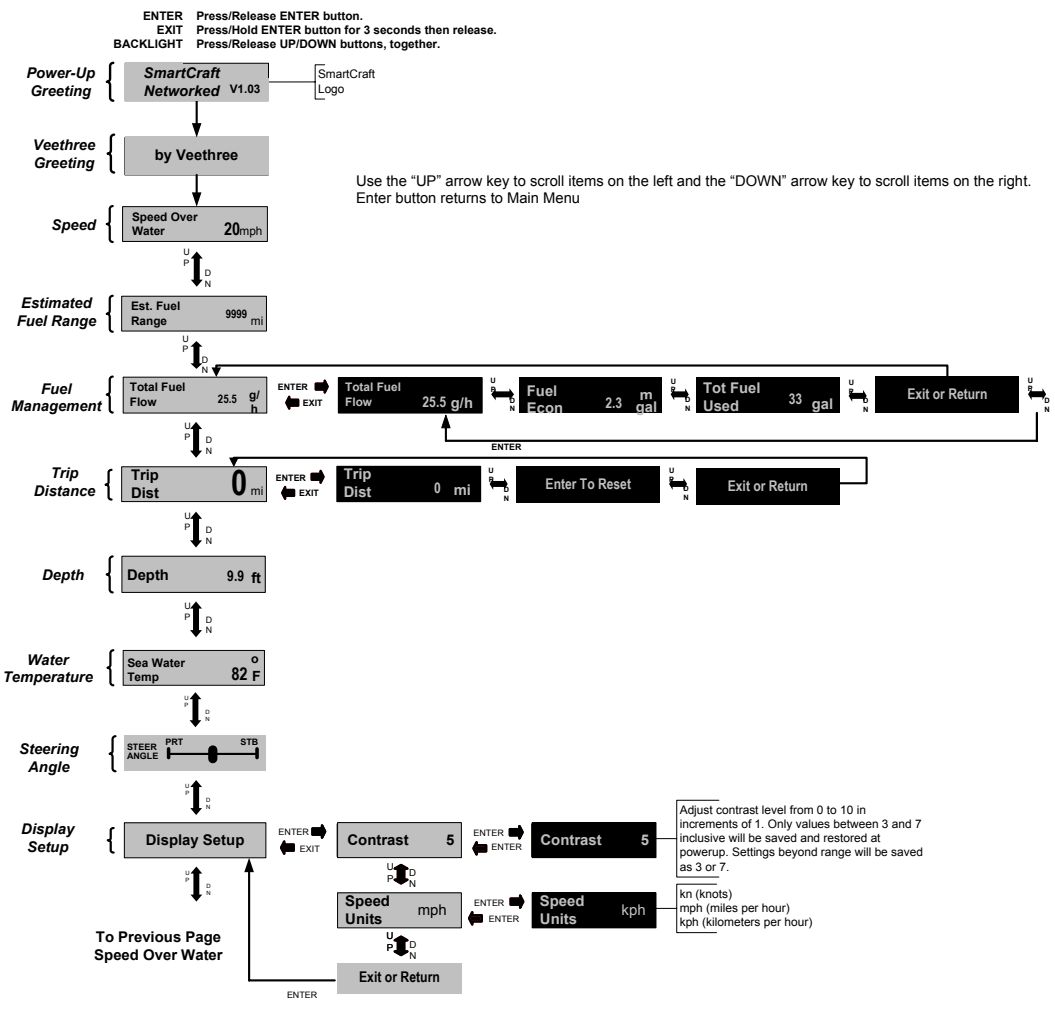
Tachometer Main Menu Structure



Tachometer Gauge Setup Menu Structure



Speedometer Main Menu Structure



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