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Brunswick HG19392020 SmartCraft Connect Gateway User Manual

Contents

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SMARTCRAFT CONNECT GATEWAY OPERATION MANUAL

IMPORTANT: This document guides our dealers, boatbuilders, and company service personnel in the proper installation or service of our products. If you have not been trained in the recommended servicing or installation procedures for these or similar Mercury Marine products, have the work performed by an authorized Mercury Marine dealer technician. Improper installation or servicing of the Mercury product could result in damage to the product or personal injury to those installing or operating the product.

Components in Kit

NOTE: The termination band on the 10-pin connector cable only applies to under cowl mounted modules.
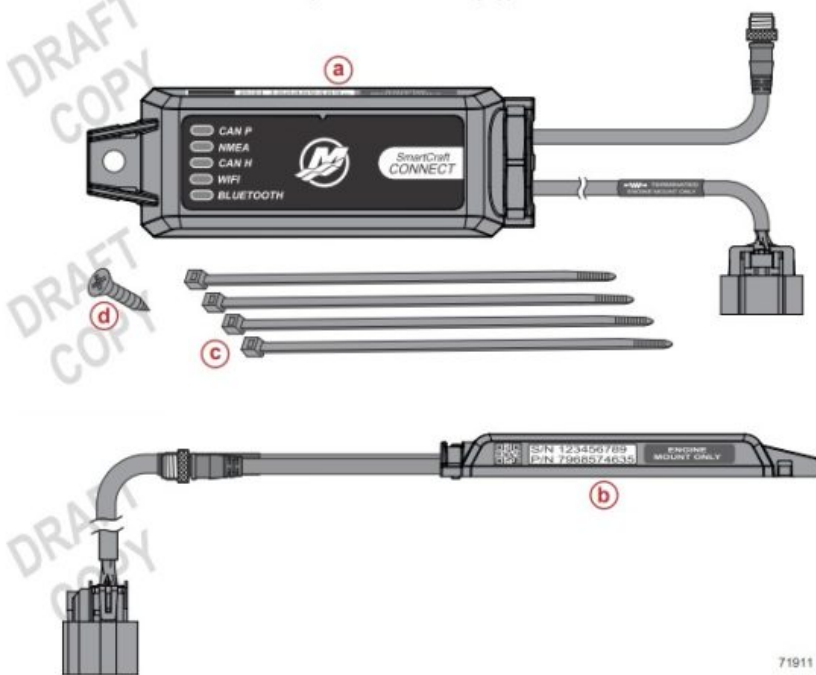
a – SmartCraft Connect module
b – SmartCraft Connect module - side view
c – Cable ties - 4
d – #10 x .88″ stainless steel wood screw

Features

The CAN light and NMEA light will turn on when data is being transmitted through the Gateway.
NOTE: This manual covers the installation of CAN P only - engine mounted module (single). The helm mount module will default out of the box to CAN P ,and must be dealer or OEM configured to use CAN H. CAN P and CAN H are applicable to single, dual, triple, and quad engines.

SmartCraft Connect Module—Single through Quad Engine

NOTE: The Connect module does not provide power for any device on the NMEA 2000 network. The NMEA 2000 network will require its own power source. The NMEA power input must have appropriate circuit protection for the devices on the NMEA 2000 network.
NOTE: The termination band on the 10-pin connector cable only applies to under cowl mounted modules.
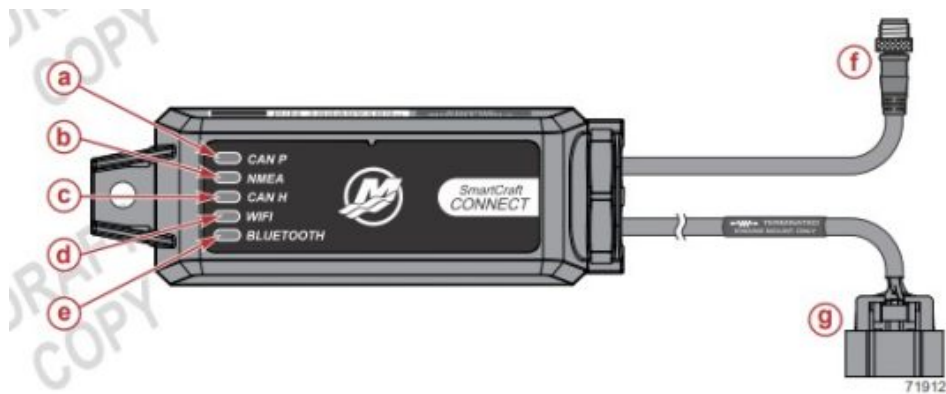
a – CAN P connection light
b – NMEA connection light
c – CAN H connection light
d – WIFI connection light
e – Bluetooth® connection light
f – NMEA 2000® connector
g – 10-pin connector

Module Harness Connections

Under Helm

1. Connect the Smart Craft Connect module in one of the two following ways:

   a. Connect the CAN 10-pin harness connector to the Smart Craft junction box. Refer to the following diagram.

   b. Connect the CAN 10-pin harness connector to the helm harness Smart Craft 10-pin connection using a male-male adapter harnes

2. Connect the module NMEA 2000 harness connector to the NMEA 2000 network.
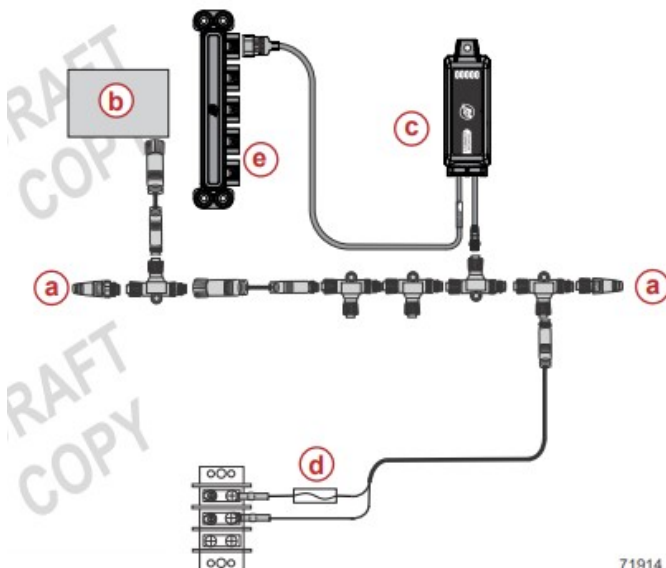
a – 120K ohm termination resistor

b – Chartplotter

c – SmartCraft Connect module

d – NMEA 2000 fused power source

e – SmartCraft junction box

Troubleshooting

LED Lighting

The device contains 5 LEDs for indicating the status of CAN P, NMEA, CAN H, WIFI, and Bluetooth.

1. CAN P

   • Flashing: The LED will flash continuously once power is applied.

   • Solid: Once the bus communication is established, the LED will remain on.

2. NMEA

   • Flashing: The LED will flash continuously once power is applied.

   • Solid: Once the bus communication is established, the LED will remain on.

3. CAN H

   NOTE: The CAN H LED will not function on engine mount models.

   • Flashing: The LED will flash continuously once power is applied.

   • Solid: Once the bus communication is established, the LED will remain on.

4. WIFI

   • Off: No connection.

   • On: WIFI connection established.

5. Bluetooth

   • Flashing: The Bluetooth LED will flash while in pairing mode, indicating it is not currently connected.

   • Solid: The Bluetooth LED will remain on continuously while connected.

SmartCraft Connect Module Protocol Description

The software is capable of transmitting (TX) information to, and receiving (RX) information from various parameter group number (PGN) products.

SmartCraft Connect Module Modes	
Transmit (TX)	**Receive (RX)**
Transmits Mercury data to NMEA 2000 display devices.	**Receives data from NMEA 2000 to display on Mercury devices.**

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Mercury Engine Data to NMEA 2000 Capable Products			
Signal	**Special Information**	**NMEA 2000 PGN**	**Mode**

Rated RPM		**127498/0x1F20A**	**TX**
Coolant pressure		**127489/0x1F201**	**TX**
Speed over water (paddle and pitot)		**128259/0x1F503**	**TX**
RPM (rapid update)		**127488/0x1F200**	**TX**
Voltage		**127489/0x1F201**	**TX**
Coolant temperature		**127489/0x1F201**	**TX**
Fuel pressure		**127489/0x1F201**	**TX**
Fuel level (percent, type)	**2 tanks per engine up to 4 engines, tank 1 for each engine is type fuel 0X00, tank 2 for each engine is data not available 0X0F, Gateway will always assign STBD engine tanks 1 and 2 to NMEA tanks 0 and 1. PORT engine tanks** **1 and 2 to NMEA tanks 2 and 3.**	**127505/0x1F211**	**TX**
Fuel tank size		**127505/0x1F211**	**TX**
Fuel flow		**127489/0x1F201**	**TX**
Oil pressure		**127489/0x1F201**	**TX**

Oil temperature		127489/0x1F201	TX
Gear temp		127493/0x1F205	TX
Gear pressure		127493/0x1F205	TX
Boost pressure		127488/0x1F200	TX
Trim position		127488/0x1F200	TX
Rudder angle		127245/0x1F10D	TX
Depth		128267/0x1F50B	TX
Depth offset		128267/0x1F50B	TX
Seawater temp		130310/0x1FD06	TX
Engine hours		127489/0x1F201	TX
Manufacturer ID	Address claim (0 x 90 = Mercury)	060928/0xEE00	TX

Alarm data	NMEA 2000 alarm data is limited and will only display "Check Engine" when an alarm is activated. Refer to the Mercury SmartCraft Gauges for descriptive fault text. Diesel engine alarms are not transmitted to NMEA 2000.	127489/0x1F201	TX
Tabs		130576/0x1FE10	TX
Course over ground		129026/0x9F802	RX/TX
Speed over ground		129026/0x9F802	RX/TX
GPS position		129025/0x1F801	RX
Product info		126996/0x1F014	TX
Gear position		127493/0x1F205	TX
Engine load (diesel)		127489/0x1F201	TX

FCC and ISED Regulatory Information

This device complies with Part 15 of the FCC Rules and Innovation, Science and Economic Development Canada License-exempt RSS standard(s). Operation is subject to the following two conditions: 1) This device may not cause harmful interference, and 2) This device must accept any interference received, including interference that may cause undesired operation.

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Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part

FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:
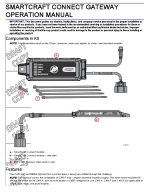
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF Exposure Considerations

To comply with FCC and Innovation, Science and Economic Development Canada RF exposure limits for general population / uncontrolled exposure, the antenna must be installed to provide a separation distance of at least 20cm from all persons and operating in conjunction with any other antenna or transmitter, except in accordance with FCC multi-transmitter product procedures.

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