



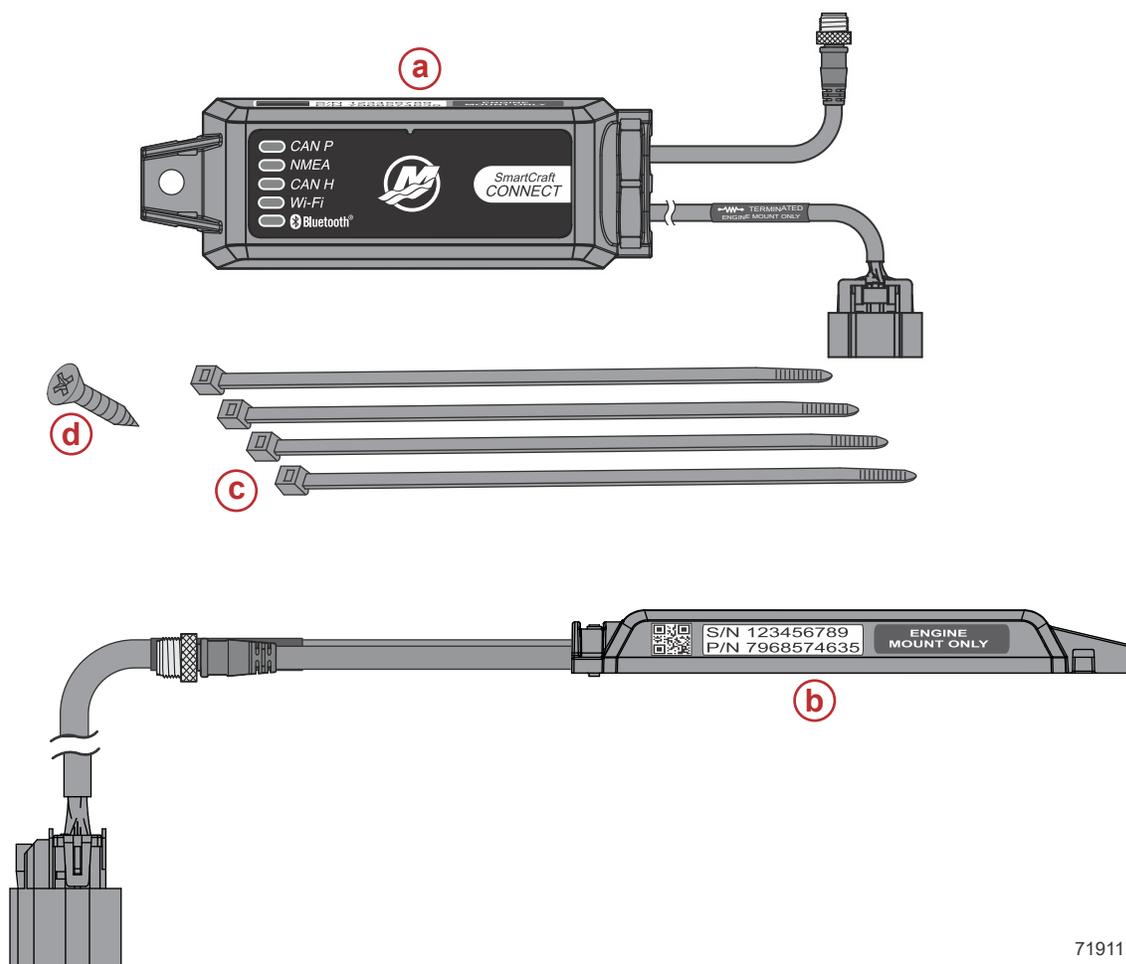
SCC-1 SMARTCRAFT CONNECT GATEWAY INSTALLATION MANUAL

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. Always refer to the appropriate Mercury Marine service manual for component removal and installation instructions.

NOTE: After completing installation, place these instructions with the product for the owner's future use.

Components in Kit

NOTE: The termination band on the 10-pin connector cable only applies to engine-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 P, CAN H, and NMEA lights will turn on when data is being transmitted through the gateway.

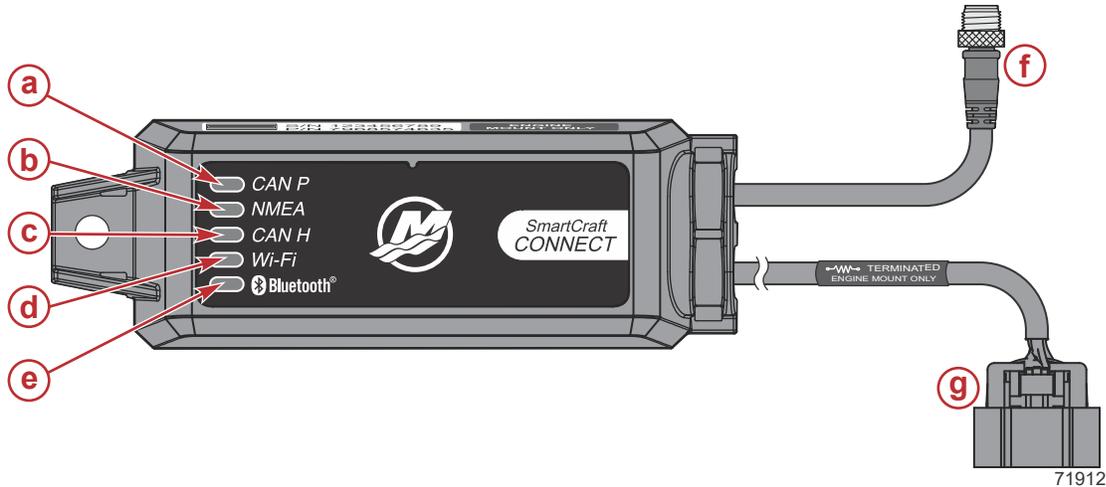
NOTE: This manual covers the installation of CAN P only - engine-mounted module (single). The helm-mounted module will default out of the box with CAN P and CAN H. CAN H is applicable to dual, triple, and quad DTS engine applications. CAN H must be turned off if issues with the analog tachometers are encountered on mechanical/non-DTS products.

NOTE: At the time of this publication, VesselView Link and SmartCraft CONNECT cannot be used together on the same network.

SmartCraft CONNECT Module—Single through Quad-Engine

NOTE: The SmartCraft 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 2000 network 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 engine-mounted modules.

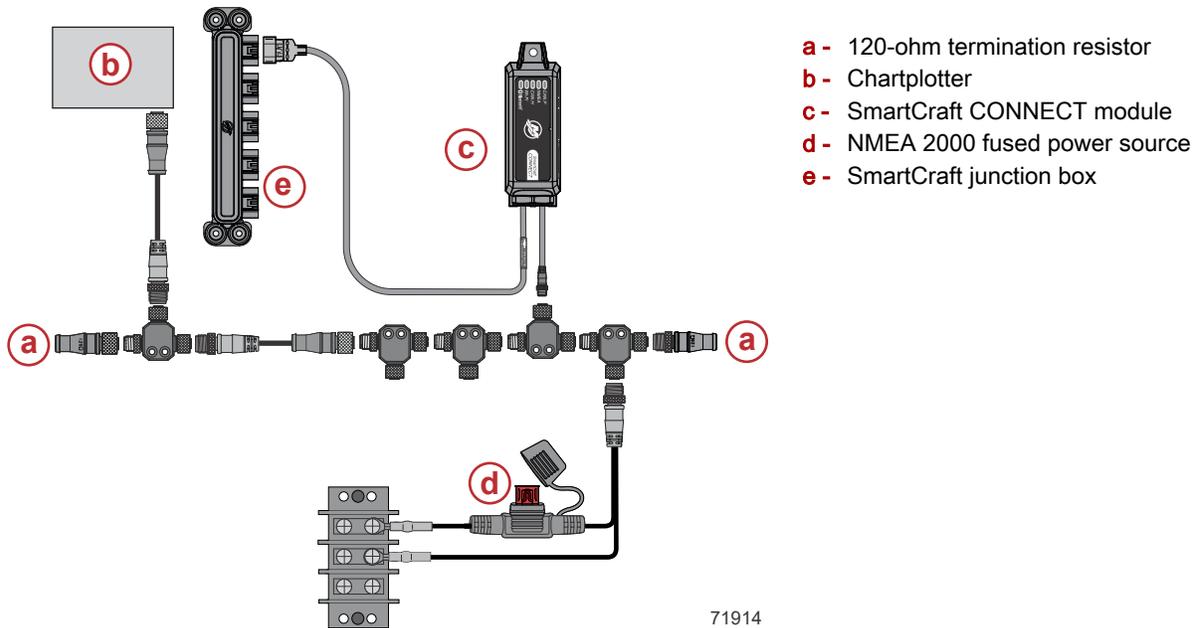


- a - CAN P connection light
- b - NMEA connection light
- c - CAN H connection light
- d - Wi-Fi connection light
- e - Bluetooth® connection light
- f - NMEA 2000® connector
- g - 10-pin connector

Module Harness Connections

1. Connect the SmartCraft CONNECT module in one of the two following ways:
 - a. Connect the CAN 10-pin harness connector to the SmartCraft junction box. Refer to the following diagram.
 - b. Connect the CAN 10-pin harness connector to the helm harness SmartCraft 10-pin connection using a male-male adapter harness.

- Connect the module NMEA 2000 harness connector to the NMEA 2000 network. A NMEA 2000 extension may be required to reach the NMEA 2000 backbone.



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On-Engine Mounting Guidelines

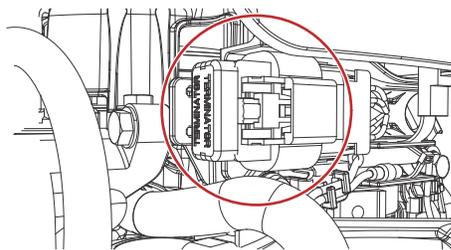
Mounting Requirements

NOTE: The 10-pin on-engine terminator must be removed from the engine harness before installation of the module.

- The SmartCraft CONNECT module must be mounted in a location that allows for connection to the 10-pin connector on the engine harness. No additional 10-pin harnessing may be used in the installation of this product.
- All routing must adhere to harness installation bend parameter specifications. The minimum bend radius of any portion of the harness must be no less than 13 mm (0.5 in.).
- Two cable ties to secure the SmartCraft CONNECT module must be used to prevent unwanted movement during normal operation of the propulsion package.
- The following locations must be **avoided** when installing the SmartCraft CONNECT module.
 - Any location which can be exposed to water
 - Any location that is subject to high heat during operation of the power package
 - Near ignition coils
 - Near spark plug wires
 - Near shift/throttle cables
 - Where harnessing could contact belts
 - Secured to fuel lines

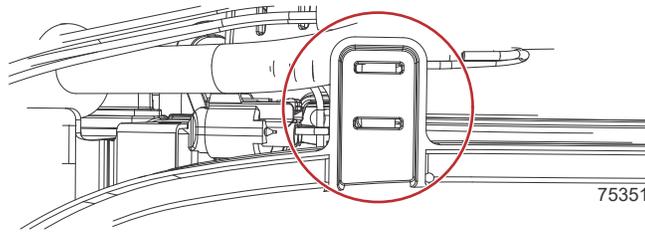
25/30 FourStroke EFI On-Engine Mounting

- Locate the SmartCraft 10-pin connector and remove the CAN termination resistor. Connect the 10-pin connector on the SmartCraft CONNECT harness. On-engine modules are internally terminated, so the termination resistor is no longer needed.

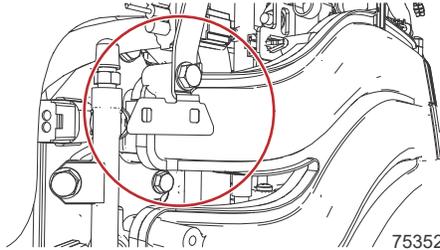


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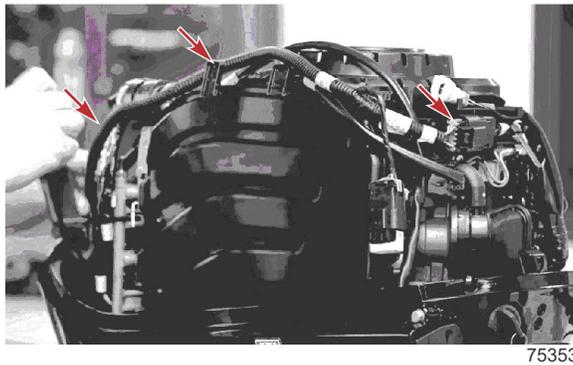
- Route the harness behind the intake runner mounting tab and secure it with a cable tie.



- Locate the module mounting bracket on the engine and secure the module with two cable ties.



- This routing will keep the harness away from moving engine components.



Typical SmartCraft harness routing path

- The NMEA 2000 connector can remain capped, if it is not intended to be used.

Mercury Avator™ 7.5e Electric On-Outboard Mounting

IMPORTANT: Mercury Marine strongly recommends that a trained and certified technician perform servicing tasks that require removing cowling, including installing the SmartCraft CONNECT.

NOTE: Cowl removal and installation instructions can be referenced in the Mercury Avator 7.5e Operation and Installation Manual.

NOTE: The following instructions are for installing the SmartCraft CONNECT on tiller models. The SmartCraft CONNECT must be mounted under the helm on remote control models.

- Record the serial number from the body of the SmartCraft CONNECT in the **SN:** space in the **SmartCraft CONNECT Serial Number** table.

SmartCraft CONNECT Serial Number

SN:

- Remove the battery from the outboard. Refer to the Mercury Avator 7.5e Operation and Installation Manual **Battery Removal**.

IMPORTANT: Remove the Mercury Avator battery from the outboard motor before performing inspections, assembly, maintenance, and repair activities.

- Only use the provided handles to carry the Mercury Avator battery.
 - Keep the Mercury Avator battery away from children.
 - Keep the Mercury Avator battery away from objects that may cause short circuits, like tools, screws, nails, watches, bracelets, necklaces, keys, or other metal objects.
 - Handle the Mercury Avator battery with care. Do not crush the Mercury Avator battery or subject it to mechanical shock.
 - Keep the Mercury Avator battery away from sources of heat and fire.
 - Do not place the Mercury Avator battery in the presence of flammable vapors or in flammable dust environments.
3. Remove the front cowl upper panel from the outboard. Refer to the Mercury Avator 7.5e Operation and Installation Manual **Front Cowl Upper Panel Removal**.
 4. Remove the front cowl lower panel from the outboard. Refer to the Mercury Avator 7.5e Operation and Installation Manual **Front Cowl Lower Panel Removal**.
 5. Remove the starboard cowl panel from the outboard. Refer to the Mercury Avator 7.5e Operation and Installation Manual **Starboard Cowl Panel Removal**.
 6. Remove and discard the weatherproof connector cover from the 10-pin data harness connection.



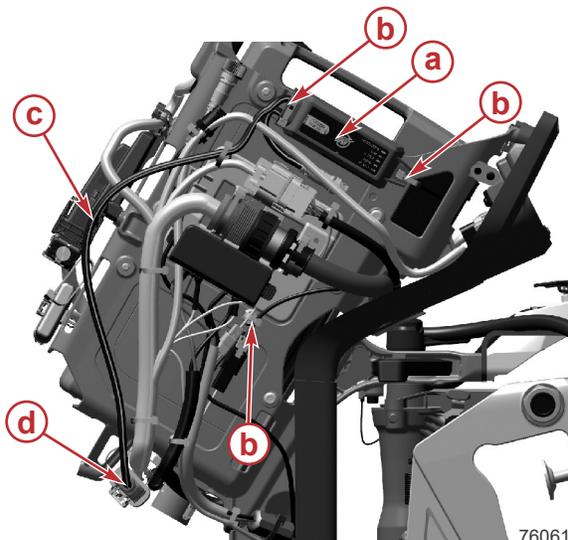
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7. Connect the 10-pin connector on the SmartCraft CONNECT to the outboard wiring harness connector.
8. Verify the connectors are connected by pulling on the connections.

NOTE: The connectors should be aligned and seated flush for a proper connection.

IMPORTANT: Do not secure the SmartCraft CONNECT to the main battery bracket assembly. The cable ties will interfere with the battery.

9. Install the SmartCraft CONNECT on the outboard and secure the SmartCraft CONNECT harness to the outboard with the cable ties.



- a - SmartCraft CONNECT
- b - Cable tie
- c - SmartCraft CONNECT harness
- d - 10-pin connector

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10. Install the starboard cowl panel on the outboard. Refer to the Mercury Avator 7.5e Operation and Installation Manual **Starboard Cowl Panel Installation**.
11. Install the front lower cowl panel on the outboard. Refer to the Mercury Avator 7.5e Operation and Installation Manual **Front Lower Cowl Panel Installation**.
12. Install the front upper cowl panel on the outboard. Refer to the Mercury Avator 7.5e Operation and Installation Manual **Front Upper Cowl Panel Installation**.
13. Install the battery in the outboard. Refer to the Mercury Avator 7.5e Operation and Installation Manual **Battery Installation**.

Module Configuration

IMPORTANT: For configuration of the SmartCraft CONNECT module, a mobile device and a Wi-Fi connection with access to the internet is required.

IMPORTANT: If using a SIMRAD® with NSX™ software, Garmin®, or a Raymarine® display, visit their websites to make sure the display is running the latest software available.

Consumer Configuration Process

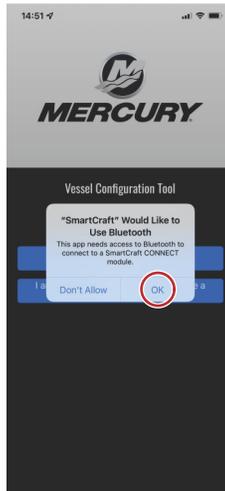
NOTE: Wireless-only SmartCraft CONNECT module versions only need to complete the firmware update, and do not need to go through the configuration steps. See **Mercury Dealer or OEM Configuration Process: Step 12**.

1. Download the **SmartCraft Manager** app from the iOS App Store or Google Play Store.



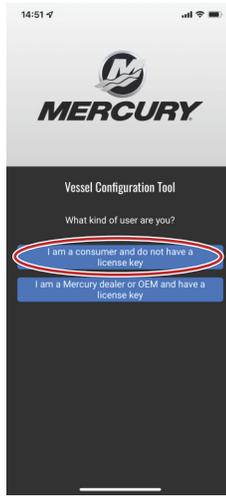
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2. After the app has been downloaded to the device, open the app to begin the configuration process.
3. Allow for Bluetooth® connectivity to use the configuration app.



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4. Select the **consumer user** option.



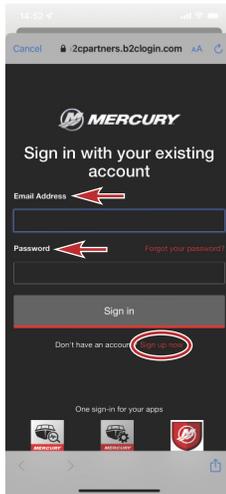
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5. Select **Continue** to begin data sharing.



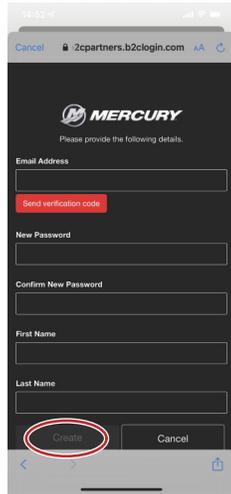
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6. Enter the email address and password. As a first time user, select the **Sign up now** option.



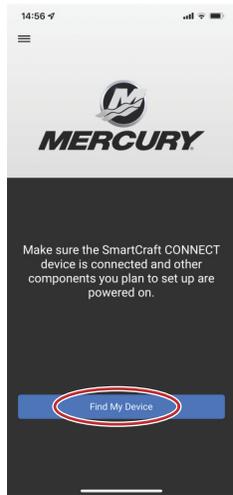
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7. Complete all of the required data fields. When finished, select the **Create** button.

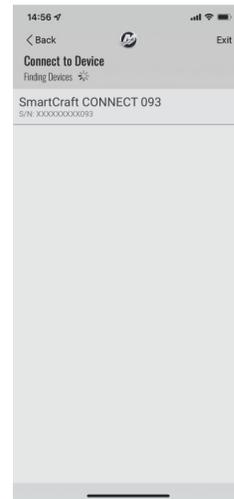


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8. Power up the SmartCraft CONNECT and all other vessel components, select **Find My Device**. Select the SmartCraft CONNECT device.



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9. Enter the SmartCraft CONNECT serial number. This can be found on the side of the module, or by querying the list of the NMEA devices on the vessel network, using an MFD display. After entering the serial number, select **Save**.



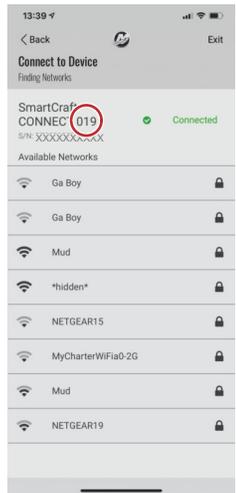
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10. Select the Wi-Fi network that will be used for communication connection.

NOTE: Networks that do not require a password are acceptable to use. Captive portal Wi-Fi networks, which require a user to interact with a web page, cannot be used to configure this module.

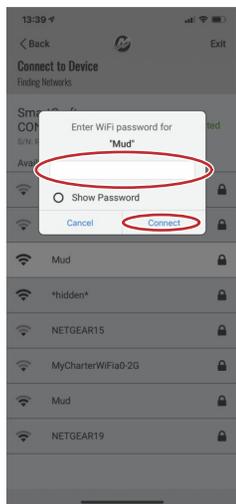
NOTE: The device name uses the last 3 digits of the module serial number for identification.

NOTE: Wi-Fi signal strength needs to be two bars to function properly.



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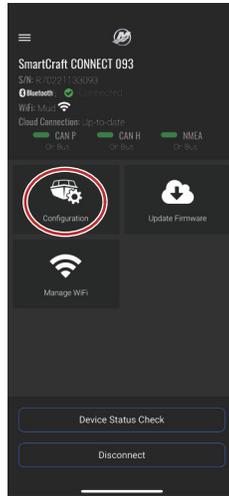
11. Enter the password needed for establishing a connection to a Wi-Fi network. Select **Connect**.



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12. After this data is entered, go to the **Mercury Dealer or OEM Configuration Process: Step 11**, to continue the configuration process instructions.

13. The SmartCraft CONNECT module can now be customized for vessel and engine data. The user input data will be stored on the NMEA network. Changes can be made at any time to the vessel and engine configuration.



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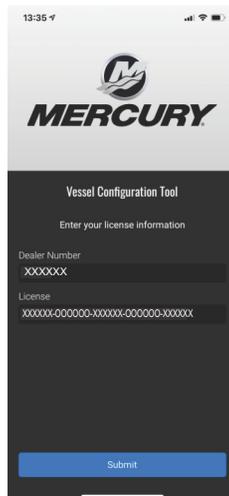
Mercury Dealer or OEM Configuration Process

1. Download the **SmartCraft Manager** app from the iOS App Store or Google Play Store.



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2. After the app has been downloaded to the device, open the app to begin the configuration process.
3. Begin by entering the dealer number and license number.

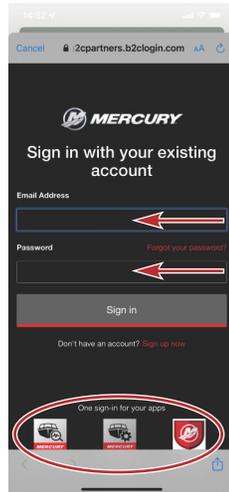


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4. Sign in to the appropriate existing account with the email and password credentials. If this is the first time setting up a SmartCraft CONNECT, an account must be created. Save the new account credentials for future use.

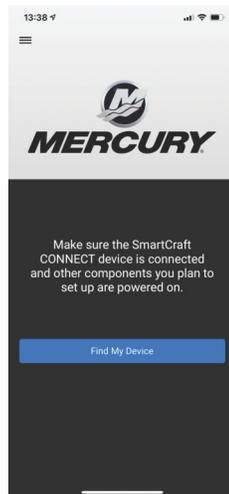
NOTE: Brunswick Corporation is moving all accounts to a single login. If you already have an account for 1st Mate, Mercury University, MDA, Harris® boats, Boston Whaler®, Sea Ray®, etc., your username and password will work here.

IMPORTANT: Android™ users need to grant the app permission to use location services when requested. This is a requirement to allow a full Bluetooth® connection to the module.



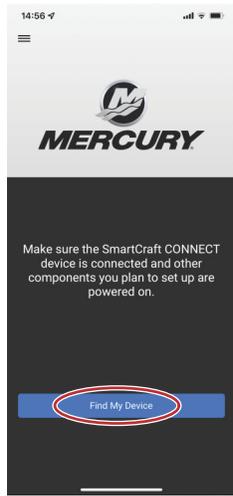
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5. Continue entering additional data on the next screen.
6. Power up the system with the key in the **ON** position.
7. Check that the SmartCraft CONNECT module and all other items on the boat are powered up. When these conditions are met, select **Find My Device**.

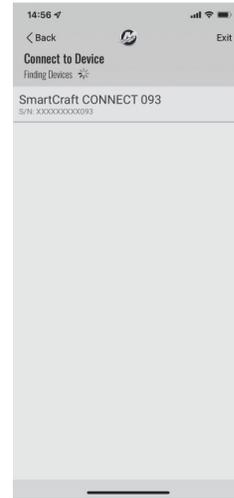


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8. The SmartCraft CONNECT module will appear on-screen along with a list of available Wi-Fi networks. Select a trusted network and connect. Power up the SmartCraft CONNECT and all other vessel components, select **Find My Device**. Select the SmartCraft CONNECT device, and select the Wi-Fi network to connect to.



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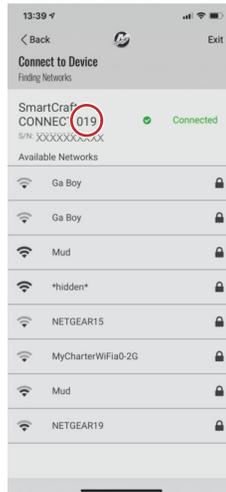


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9. **NOTE:** Networks that do not require a password are acceptable to use. Captive portal Wi-Fi networks, which require a user to interact with a web page, cannot be used to configure this module.

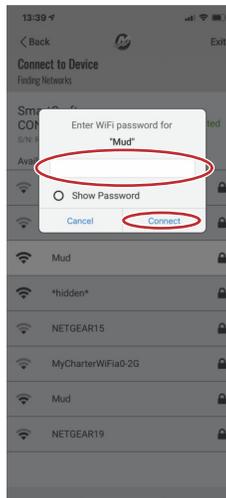
NOTE: The device name uses the last 3 digits of the module serial number for identification.

NOTE: Wi-Fi signal strength needs to be 3 bars to function properly.



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10. Enter the network password and select **Connect**.



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11. The SmartCraft CONNECT device will connect. Depending on the network strength, this may take a minute.



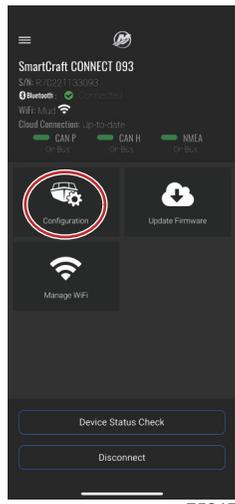
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12. The menu screen will appear. The module will automatically query the Mercury site for any updates to the firmware. If any updates are needed, there will be an exclamation point in the upper right corner of the **Update Firmware** tile. In this event, click on that tile and any updates will begin.

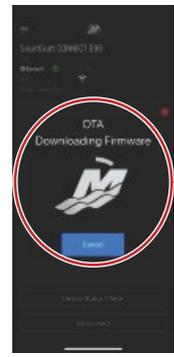
NOTE: The app will say update complete when the module reflash is downloaded to the module. It will then restart, and may take a few minutes to perform the update. Do not remove battery power during this time.

NOTE: Complete any firmware updates before beginning the configuration process.

NOTE: Wait until the Wi-Fi LED on the device is solid, or a No Updates - "Device is not ready to receive a firmware update". message will appear.

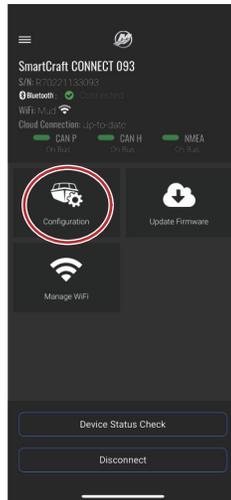


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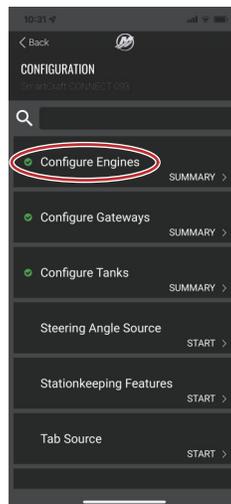
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13. Select the **Configuration** tile on the screen.



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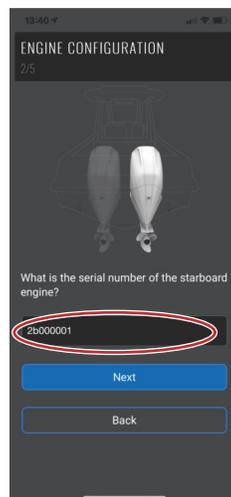
14. Select **Configure Engines**.



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15. Enter the correct information for the **Engine Type**, and **Engine Model**. Review your selections, and if everything is correct, select **Save**.

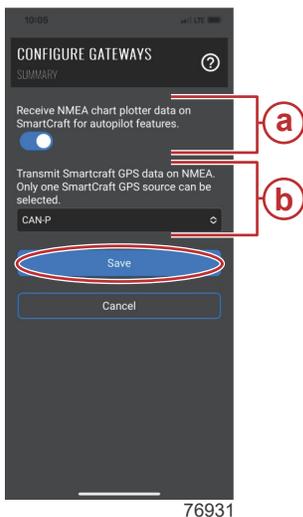
16. Continue by entering the engine serial number for the engine(s) supported by the module.



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- Next, configure the gateway functionality by following the prompts on the screen. After the desired selections are made, select **SAVE**.

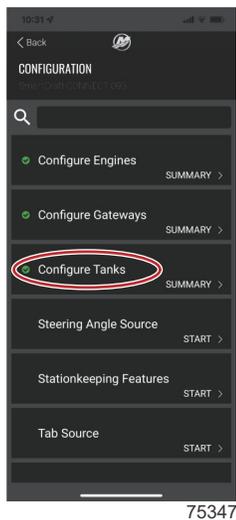
NOTE: Gateway functionality only applies to boats with steer-by-wire systems; Joystick Piloting, Outboard, Sterndrive, or Zeus. CAN H may be active on DTS or non-DTS applications depending on boat setup.



- a - Waypoint and route data only. Does not transmit GPS speed from NMEA to SmartCraft.
- b - Allows devices on the NMEA network to use the SmartCraft GPS data.

NOTE: GPS speed and position cannot be transmitted from the NMEA network, SIMRAD MFD, Garmin MFD, or Raymarine MFD to SmartCraft for the use of features such as Active Trim, speed-based cruise, and Smart Tow. A Mercury GPS must be installed to use these features.

- Verify that the Wi-Fi LED is solid, indicating that the device has completed a cloud sync. If this is not verified, there is no certainty that the configuration was delivered to the module.
- For tank configuration, return to the **CONFIGURATION** screen, and select the **Configure Tanks** option and select **START**.



20. Select the **Pencil Icon** within each tank field to edit and enter tank information.



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21. Enter tank data and descriptions by selecting each option on the screen. Select **SAVE** after all information has been entered for each tank.



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- 1- Tank type drop-down menu
- 2- NMEA instance number

NOTE: The default will be "Auto". This option will only need to be changed on vessels where there are multiple sources for tank levels on the N2K network.

- 3- Tank volume capacity number

NOTE: A tank capacity of 0.0 will not show on the NMEA data stream. The capacity must be set greater than zero to show the tank level on NMEA.

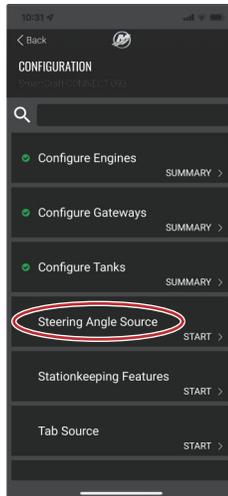
- 4- Tank volume unit drop-down menu
- 5- Customizable tank name
- 6- SAVE all current entries

22. Repeat this process for additional tanks on the vessel before navigating out of the configuration screens.

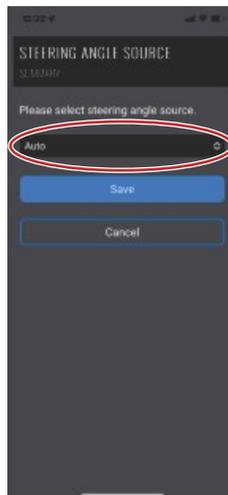


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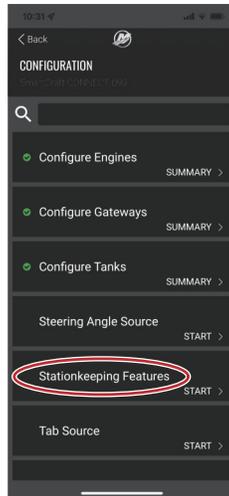
- 23. For steering angle source selection, return to the **CONFIGURATION** screen, and select the **Steering Angle Source** option and select **START**.



- 24. Select the desired steering angle source from the drop-down menu and select **SAVE**.
NOTE: This will only display steering angle on the MFD for vessels equipped with electric steering, joystick piloting, and certain MerCruiser/Diesel applications.



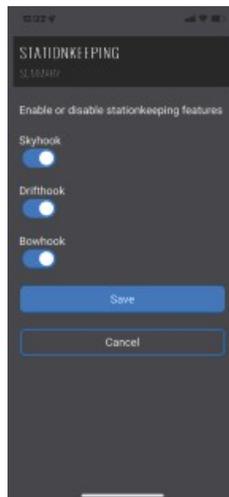
25. To enable or disable Stationkeeping features, return to the **CONFIGURATION** screen, and select the **Stationkeeping Features** option and select **START**.



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26. Using the radial slider buttons, enable or disable the desired features, and select **SAVE**.

NOTE: This will only enable control of these features through the MFD. These controls will not add the feature to a vessel if it was not equipped. Stationkeeping features should be turned off on all applications except joystick piloting.



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Features enabled in image

27. Additional configurations can be done through the app. These include:

- a. Tab data source selection
- b. Supported data selection

NOTE: Additional configuration selections will vary by engine type.

- c. Activating autopilot features

NOTE: Steer-by-wire/electric steering systems only (JPO, JPS, JPZ, single-engine electric steering outboard).

- d. Cruise control features

NOTE: These features only work on engines with digital throttle.

NOTE: Autopilot and cruise control features are activated on the MFD. These functions will not be activated on the vessel if not already equipped.

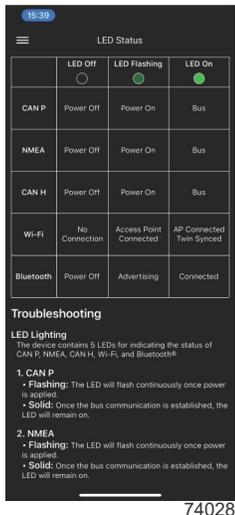
Troubleshooting

Mobile Functionality

IMPORTANT: When using the app on Android devices, fine location detail must be shared with the app for proper function.

LED Lighting

NOTE: The Wi-Fi LED status troubleshooting chart is also available in the app.



The device contains 5 LEDs for indicating the status of CAN P, NMEA, CAN H, Wi-Fi, 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**
 - **Flashing:** The LED will flash continuously once power is applied.
 - **Solid:** Once the bus communication is established, the LED will remain on.
4. **Wi-Fi**
 - **Off:** No connection.
 - **Flashing:** Connected to a Wi-Fi access point. Attempting to sync with the Mercury cloud server.
 - **On:** Connected to a Wi-Fi access point and synced with the Mercury cloud server.
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.

Firewall Information

The following web domains and ports need to be open to the SmartCraft CONNECT app and module for proper operation.

Web domains:

- azurewebsites.net
- azure-devices-provisioning.net

Port numbers:

Protocol	Port
MQTT	8883
MQTT over WebSockets	443
AMQP	5671
AMQP over WebSockets	443
HTTPS	443

Licensing Errors

- **LicensesExceeded:** You have exceeded the number of licenses issued to your dealer.

- **InactiveDealer:** This account number is no longer active with Mercury Marine.
- **InvalidDealer:** The account number entered was not found in Mercury Marine's records.
- **InvalidLicenseKey:** The license key that was entered is not a valid key—typed it in wrong.
- **LicenseKeyToAccountInvalid:** Either the account number or the license key does not match the purchase records.
- **MachineBlackListed:** Your device was black listed by Mercury.
- **LicenseKeyBlackListed:** Your license key was black listed by Mercury.
- **SubscriptionExpired:** The subscription for this license key has expired.
- **InactiveSubscription:** The subscription for this license key has been canceled by the subscriber.
- **VersionMismatch:** License key is not compatible with this version of software. Example, you tried to use a CDS G3 license key for SC Manager.
- **LicenseRegistrationFailed:** Contact Mercury Service.

SmartCraft CONNECT Module NMEA 2000 Information

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

NMEA 2000 Network Power Information		Value
NMEA 2000 Load Equivalency Number (LEN)		1

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.

Transmitted NMEA 2000 PGNs			
NMEA 2000 PGN	Special Information	Signal	Mode
59392/0xE800	–	ISO Acknowledgment	TX
59904/0xEA00	–	ISO Request	TX
60160/0xEB00	–	ISO Transport Protocol, Data Transfer	TX
60416/0xEC00	–	ISO Transport Protocol, Connection Manager	TX
60928/0xEE00	–	ISO Address Claim	TX
65280/0xFF00	–	Mercury Marine Proprietary	TX
65310/0xFF1E	–	Mercury Marine Proprietary	TX
126208/0xED00	–	NMEA Group Function	TX
126464/0xEE00	–	PGN List	TX
126720/0xEF00	–	Mercury Marine Proprietary	TX
126992/0xF010	–	System Time	TX
126993/0xF011	–	Heartbeat	TX
126996/0xF014	–	Product Information	TX
126998/0xF016	–	Configuration Information	TX
127245/0xF10D	–	Rudder	TX
127250/0xF112	–	Vessel Heading	TX
127251/0xF113	–	Rate of Turn	TX
127257/0xF119	–	Attitude	TX
127258/0xF11A	–	Magnetic Variation	TX
127488/0xF200	–	Engine Parameters, Rapid Update	TX
127489/0xF201	–	Engine Parameters, Dynamic	TX
127493/0xF205	–	Transmission Parameters, Dynamic	TX
127496/0xF208	–	Trip Fuel Consumption, Vessel	TX
127498/0xF20A	–	Engine Parameters, Static	TX
127505/0xF211	–	Fluid Level	TX
127506/0xF212	–	DC Detailed Status	TX

Transmitted NMEA 2000 PGNs			
128259/0x1F503	-	Speed, Water Reference	TX
128267/0x1F50B	-	Water Depth	TX
129025/0x1F801	-	Position, Rapid Update	TX
129026/0x1F802	-	COG & SOG, Rapid Update	TX
129029/0x1F805	-	GNSS Control Status	TX
129538/0x1FA02	-	GNSS Control Status	TX
129540/0x1FA04	-	GNSS Sats in View	TX
130060/0x1FC06	-	Label	TX
130310/0x1FD06	-	Environmental Parameters	TX
130311/0x1FD07	-	Environmental Parameters	TX
130312/0x1FD08	-	Temperature	TX
130316/0x1FD0C	-	Temperature, Extended Range	TX
130576/0x1FE10	-	Trim Tab Status	TX
130816/0x1FF00	-	Mercury Marine Proprietary	TX
130817/0x1FF01	-	Mercury Marine Proprietary	TX
130821/0x1FF05	-	Mercury Marine Proprietary	TX
130822/0x1FF06	-	Mercury Marine Proprietary	TX
130830/0x1FF0E	-	Vessel Parameters, Low Speed Proprietary	TX

Received NMEA 2000 PGNs			
NMEA 2000 PGN	Special Information	Signal	Mode
59392/0xE800	-	ISO Acknowledgment	RX
59904/0xEA00	-	ISO Request	RX
60160/0xEB00	-	ISO Transport Protocol, Data Transfer	RX
60416/0xEC00	-	ISO Transport Protocol, Connection Manager	RX
60928/0xEE00	-	ISO Address Claim	RX
65240/0xFED8	-	ISO Commanded Address	RX
65311/0xFF1F	-	SeaStar, (Mercury Marine Proprietary)	RX
126208/0x1ED00	-	NMEA Group Function	RX
126720/0x1EF00	-	MFD Capabilities, (Mercury Marine Proprietary)	RX
126992/0x1F010	-	System Time	RX
126996/0x1F014	-	Product Information	RX
126998/0x1F016	-	Configuration Information	RX
127250/0x1F112	-	Vessel Heading	RX
127251/0x1F113	-	Rate of Turn	RX
127257/0x1F119	-	Attitude	RX
127258/0x1F11A	-	Magnetic Variation	RX
128259/0x1F503	-	Speed, Water Reference	RX
128267/0x1F50B	-	Water Depth	RX
129025/0x1F801	-	Position, Rapid Update	RX
129026/0x1F802	-	COG & SOG, Rapid Update	RX
129029/0x1F805	-	GNSS Control Status	RX
129283/0x1F903	-	Cross Track Error	RX
129284/0x1F904	-	Navigational Data	RX
129538/0x1FA02	-	GNSS Control Status	RX
129540/0x1FA04	-	GNSS Sats in View	RX

Received NMEA 2000 PGNs			
130820/0x1FF04	-	Pop-up Button Command, (Mercury Marine Proprietary)	RX

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)	-	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
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.	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
Gear position	-	127493/0x1F205	TX
Engine load (diesel)	-	127489/0x1F201	TX

SmartCraft CONNECT Module to NMEA 2000 Capable Products			
Signal	Special Information	NMEA 2000 PGN	Mode
Heading	-	127250/0x1F112	RX/TX
Waypoint ID	-	129284/0x1F904	RX
Waypoint position (latitude/longitude)	-	129284/0x1F904	RX
Cross track error	-	129283/0x1F903	RX
Manufacturer ID	Address claim (0 x 90 = Mercury)	060928/0xEE00	TX
Product info	-	126996/0x1F014	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.

Cet appareil est conforme aux normes RSS exemptes de licence d'Innovation, Science et Développement économique Canada. Son fonctionnement est soumis aux deux conditions suivantes: 1) cet appareil ne doit pas provoquer d'interférences, et 2) cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

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 15 of the 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.

Pour se conformer aux limites d'exposition aux RF de la FCC et d'Industrie Canada pour la population générale / exposition non contrôlée, l'antenne(s) utilisée pour ce transmetteur doit être installé pour fournir une distance de séparation d'au moins 20cm de toutes les personnes et fonctionnant conjointement avec une autre antenne ou émetteur, sauf en conformité avec les procédures de produits multi-émetteur FCC.