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TABLE OF CONTENTS

Section 1 - Important Information

Section 2 - Installation

Section 3 - Online Tracking

Section 4 - Custom Border Configuration (GeoFence)

Section 5 - Alert Configuration

Section 6 - Frequently Asked Questions (FAQ) and Notes

Section 1 - Important Information

Table of Contents

Theft Deterrent System–Premium Disclaimer

IMPORTANT: The Mercury TDS is an aid to the operation of the vessel. It is not intended for and should not be used for navigation purposes. The performance of the system can be affected by many factors including equipment failure, environmental conditions, improper installation, handling, and use. The Mercury TDS is used at your sole risk and in no event shall Mercury Marine be liable for any costs, losses, liabilities, damages, expense, or claims of any nature caused by the use of this device.

FCC Notice

This equipment generates, uses, and can radiate radio frequency energy. Operation of this equipment is subject to the condition that this device does not cause harmful interference. Modifications or changes to this equipment not approved in writing by Faria WatchDog Inc. could violate FCC rules compliance and void the operator's authority to operate this equipment. An FCC Ship's Radio License and Operator's License are not required for the use of this theft deterrent system. The TDS has been tested and found to comply with the limits for a digital device pursuant to Parts 15 and 80 of the FCC Rules.

Registration by the Installing Dealer is Important

IMPORTANT: Access to the Internet is required to properly register the TDS for use and operation.
IMPORTANT: After opening the kit, locate the mobile transceiver unit (MTU) serial number. Verify the serial number on the MTU with the decal that has been installed on the last page of this manual. Registration activates the theft deterrent system and it cannot be activated without this serial number.

The owner must be present with the installing dealer during the registration of the product. The customer must supply a credit card number to register the product and activate the theft deterrent system. The registering dealer, along with the customer must create a user name and password. The user name and password are needed for the customer to access the consumer website. Some of the information the dealer has uploaded can be changed by the customer when the customer is logged into the consumer website. Ensure the customer information is accurate. If information is incorrectly uploaded into the website, you must contact Mercury Marine Customer Service to have the errors corrected.

Product Registration

IMPORTANT: Do not use the enter key to move to the next information field during the product registration process. Do not use the webpage BACK icon button during the registration process.

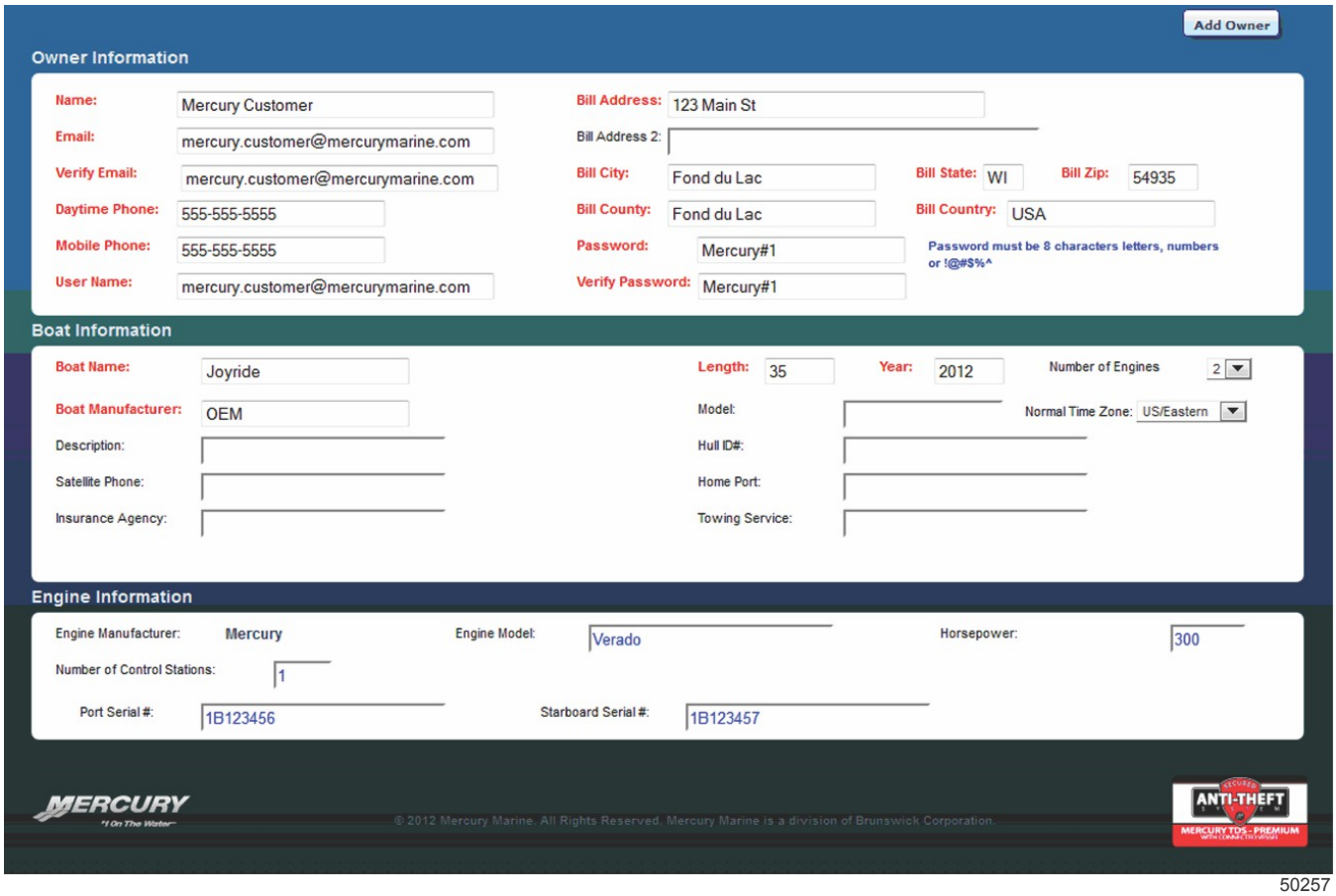
1. Log into the dealership MercNET site.
2. While in the MercNET site, go to Sales and Marketing, Mercury TDS - Premium Registration.

50305

3. All red field information is mandatory. All black field information is optional, but Mercury recommends that all fields be filled out.
4. Enter all of the owner, boat, and engine information. This information is used for confirmation of the registration. After filling out each information window, use the tab key on the keyboard to move to the next information window. When all the owner's information is entered, click on Add Owner.

   NOTE: *The user name will automatically be populated when the Verify E-mail window is filled out. You cannot change this autopopulated field without changing the e-mail address, along with the Verify E-mail window. These two addresses must be identical.*

IMPORTANT: The password you create must be a minimum of eight (8) characters. The characters can be any combination of letters, numbers, or special characters; ! @ # $ % ^.



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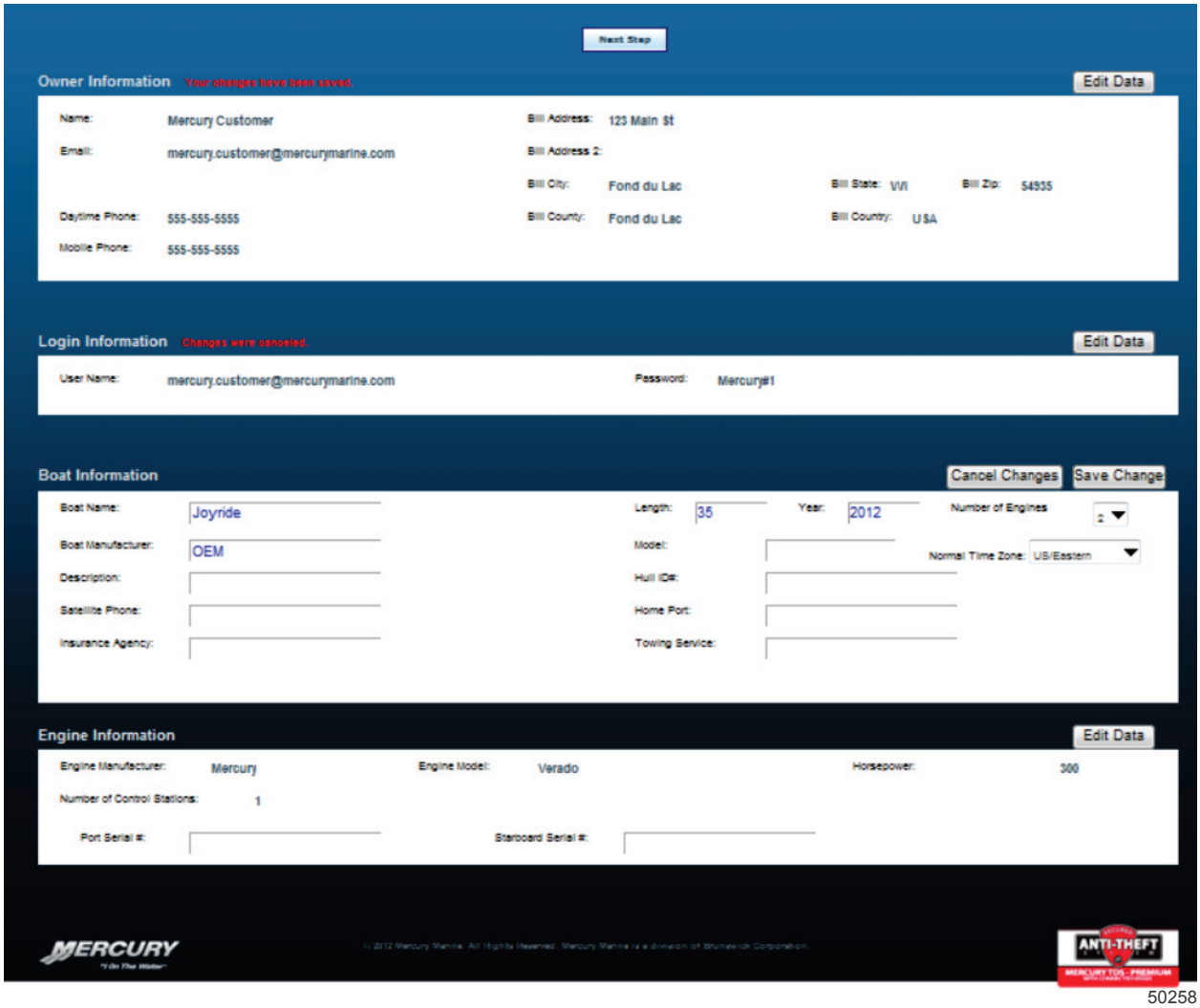
5. After clicking on Add Owner, the following window allows you to review the information. Click on Next Step.



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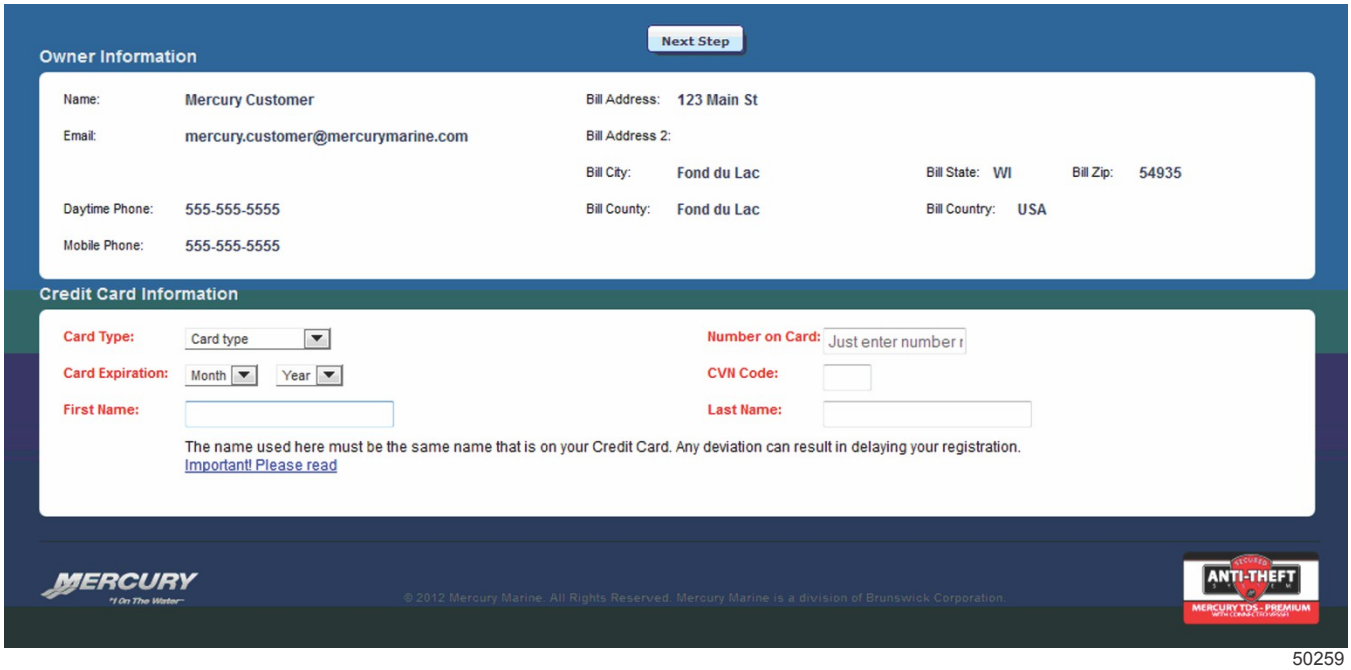
6. Enter all of the credit card information. Click on Next Step when finished.



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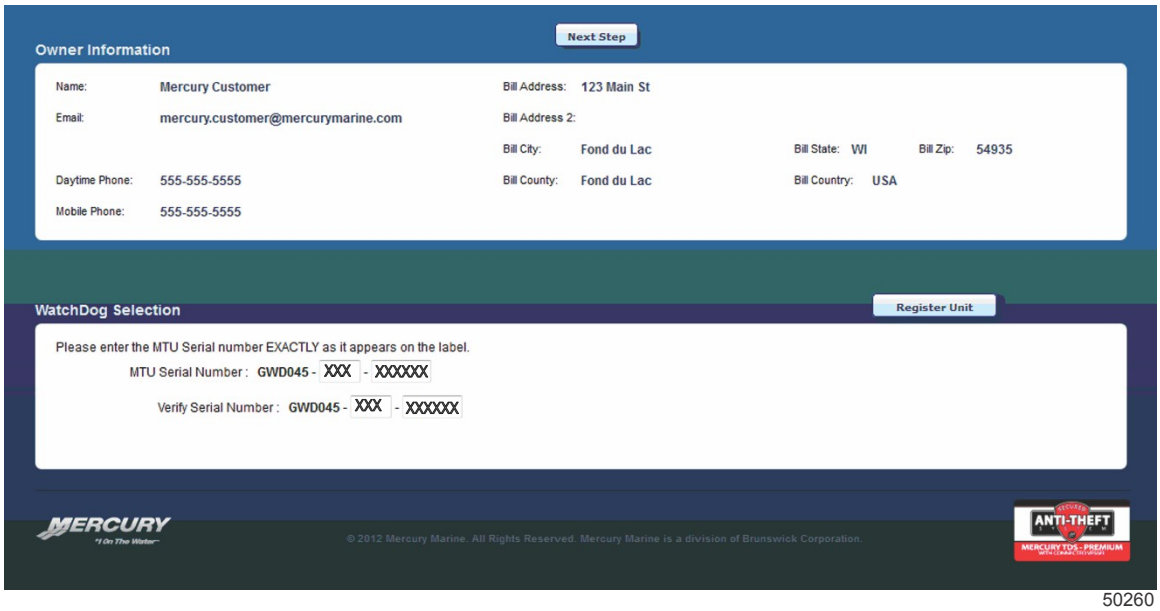
7. Enter the MTU serial number exactly as it appears on the label. The Register Unit icon will populate the window when the correct MTU serial number is verified. Click on Register Unit to submit the form to Faria WatchDog Inc.



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IMPORTANT: After the Mercury theft deterrent system has been installed, the dealer has verified the system is functional, and the registration form has been submitted to Faria WatchDog Inc., the TDS must be completely disengaged from the battery. Faria WatchDog Inc. will not recognize the TDS registration activation unless the battery is completely disengaged and then reconnected after the registration has been submitted and acknowledged. Acknowledgment of the product registration is generally less than two hours, but can take up to 24 hours.

Information Sharing Agreement

The Mercury TDS Premium System ("the System") collects data about you and your boat and motor ("the Data"). The Data may include status or information about performance, location, operation, and recommended service. The System collects the Data on a time scheduled basis. The collection of the Data is vital to the operation and functionality of the System. By clicking "Agree," and subject to applicable law, you hereby agree that Mercury Marine may use the Data for the Services provided by the System ("the Services") or notify you of boat and motor information or the Services (including sending phone, computer, or other messages to you relating to your boat and motor), to manage the Services provided by the System, or to protect the property or safety of you or another party, or to comply with any law or court order (including subpoenas). By clicking "Agree," you further agree that Mercury Marine can share the Data with any partner that Mercury Marine has engaged to assist in providing the Services, provided that said partner agrees that it shall only use the Data to provide said assistance. Mercury Marine will not otherwise disclose, sell, or rent the Data to any other third party without your consent. Notwithstanding the foregoing, you further agree that Mercury Marine may provide aggregated information derived from the Data to third parties without your consent, provided that said aggregated information shall not contain any personal identifiable information, or that Mercury Marine can provide the Data to the owner of the boat and motor without your consent. For a complete listing of the terms and conditions governing the System, your use of the System and the use of the Data by Mercury Marine, please refer to the website at www.mercurymarine.com or contact Mercury Marine for a copy. Mercury Marine may revise these Terms and Conditions without notice, and advises you to periodically review the Terms and Conditions. While Mercury Marine provides a limited warranty for the System, Mercury Marine does not guarantee that the System will prevent theft and therefore, cannot assume responsibility for a stolen boat or motor.

Mercury Theft Deterrent System (TDS) Premium with Connected Vessel

IMPORTANT: It is important that the installer of this product review the installation instructions and thoroughly understand the process before any component is connected and securely retained.

Installation Requirements

The Mercury theft deterrent system premium with connected vessel has the following installation requirements:

- Mercury theft deterrent system (basic) part number 8M0057383 must be installed and configured to a compatible Mercury SmartCraft engine before proceeding.
- A SmartCraft junction box with one available port that will provide a CAN P (propulsion) bus in the general installation area.
- A house battery, accessory battery, or battery bank that provides an uninterrupted 12 volts DC source.
  IMPORTANT: The TDS-Premium system installation will not provide continuous security when connected to a power source that can be turned off: examples of this are battery switches, accessory relays, or the ignition switch. If the power connections for the TDS-Premium system can be easily located and disconnected, the system will not provide the maximum anti-theft features.

  NOTE: Do not connect to an engine battery. The system draws approximately 150 milliamps constantly. Connecting to the engine battery could result in the engine not starting when needed. An accessory battery with a battery isolator must be installed, if necessary.
- A flat surface in a remote location for mounting the main transmitting unit (MTU). The MTU can be mounted in any orientation. However, a horizontal mount is preferred. Do not mount the system in the engine compartment or bilge.
- Access to flat surfaces on the underside of the vessel's deck or some other upper surface for mounting the two antennas. The selected locations must be made of fiberglass or composite material and have an unblocked view of the sky. Objects mounted directly above the antenna may disrupt the reception signals to and from the GPS and Iridium satellites. The antennas will not work through metal or metallic coatings.
- Digital throttle and shift (DTS) engines must have the latest command module software (version 0077).

Operation Overview

The TDS-Premium is a GPS tracking system with satellite communication. It provides the owner the opportunity to continuously monitor the location of the vessel. It integrates with the basic TDS and uses the key fob to control the operation mode of TDS-Premium. The GPS provides the position of the vessel while the satellite network provides communication between the TDS-Premium and a secure internet website. All system configuration and alert setup is performed through the consumer internet website.

The system uses GPS for coordinates to monitor the vessel's location. When the vessel crosses the security fence boundary, the satellite network will send an alert e-mail or text message to the addresses designated by the vessel owner. E-mail and text message addresses must be configured on the website. Additionally, position reports are transmitted through the satellite network every minute and are archived in the website when the vessel crosses a security fence boundary. All alert notifications are configured through a secure internet website. There are several different borders used in TDS-Premium, all of which are explained in the following information.

IMPORTANT: It is important to understand that every instance of reports or alerts transmitted through the Iridium satellite network increases the amount of data used in your data plan.

Key fob – The key fob arms and disarms the theft deterrent system and controls the frequency and type of alert messages sent while in or out of the security perimeter.

Security fence – A security fence is a virtual 152.4 m (500 ft) radius border around the last recorded GPS position when the system is armed. Vessel position reports are transmitted every four hours while the vessel remains inside the security fence. If the vessel crosses the virtual security fence, it is considered unauthorized and alerts will be transmitted as configured by the owner. When the vessel crosses the security fence, position reports are transmitted through the satellite network every minute to allow detailed tracking for a swift recovery. The security fence is not visible on the website.

Containment fence – A containment fence is a virtual predefined perimeter boundary based on GPS coordinates. This virtual containment fence is configured on the secure internet website. Position reports are provided when the vessel has exited the containment fence. The timing of the boundary crossing and the position report alert may not be synchronized. A containment fence is visible on the website with the color green.

Hazard fence – A hazard fence is a virtual predefined perimeter boundary based on GPS coordinates. All conditions for the hazard fence are identical to the containment fence with exception to the color. This would be most useful to identify areas you wish the vessel to avoid. A hazard fence is visible on the website with the color red.

Installation Details

- The overall installation should be as inconspicuous as possible since it is not meant to be seen and does not require any operator input. The installation of the parts and harnesses should blend in with the existing vessel harnesses and modules. The more difficult it is to identify and determine its function, the more secure the installation. If the system can be easily located, it could be compromised.
- The components should be held in the proposed location with tape (not included) to test the system prior to a permanent installation. This test will verify the system and antenna operation before permanent installation, for example: drilled holes, activating heat shrink, and using the adhesive pads on the antennas. Do not skip this important process.
- The antennas are specific for up and down orientation. They will not function if mounted upside down. Do not attach the adhesive pad to an antenna until you are sure where and how it will be mounted.
- The Iridium satellite antenna must be mounted far enough away from any magnetic pole sensing component so not to interfere with the operation of these types of components. Examples of these components are a compass or an internal measurement unit (IMU). The Iridium satellite antenna is manufactured with a strong internal magnet that will affect these type of components.
- Keep all system parts far away from known sources of electromagnetic interference (EMI) and radio frequency interference (RFI). Examples of these interference sources are: marine radios, radar systems, high-powered audio amplifiers and speakers, and engine ignition systems.
- Fasten and support the harness with clamps or cable ties along the routing path. A clamp or cable tie must be used within 25 cm (10 in.) of any connection and every 46 cm (18 in.) along the routing path if not housed in a rig tube.

Key Fob Use Explanation

The key fob is an important component link in the operation of the theft deterrent system.

- When the key fob is not inserted into the docking station, the TDS-Premium is armed (locked) and a virtual 152.4 m (500 ft) radius security fence around the last recorded GPS position is established. In this mode, vessel position reports are transmitted every four hours while the vessel remains inside the security fence radius. If the vessel crosses the virtual security fence boundary, it is considered unauthorized and alerts will be transmitted as designated by the owner. When the vessel crosses the security fence boundary, position reports are transmitted through the satellite network every minute to allow detailed tracking for a swift recovery. The security fence is not visible on the website.
- When the key fob is inserted into the docking station, the TDS-Premium is disarmed (unlocked) and the virtual security fence is deactivated. The system believes the owner has authorized the control of the operation of the vessel and the vessel has unrestricted travel. Position reports will continue to be transmitted through the satellite network every half hour by default.
- When the ignition is turned off with the key fob inserted, a virtual security fence 152.4 m (500 ft) radius is established. Vessel position reports are transmitted every four hours while the vessel remains inside the security fence radius. If the vessel crosses the virtual security fence boundary when trailered, towed, or has drifted out of the virtual security fence, it is considered unauthorized and alerts will be transmitted as designated by the owner. When the vessel crosses the security fence boundary, position reports are transmitted through the satellite network every minute.
- When the key fob is removed from the docking station while the ignition is in the on position and the engine is running, the theft deterrent system remains deactivated. No virtual security fence is established and the vessel can continue to operate. When the ignition is turned off with the key fob removed from the docking station, a virtual security fence boundary is quickly established. If the key fob is not inserted when the engine is started, engine operation will be limited and the virtual security fence remains armed (locked). The key fob must be inserted into the docking station to disarm the virtual security fence, allowing the engine to operate within normal parameters.

Important Information about Transporting Over Land

When transportation over land is required, it is assumed the ignition key switch and key fob are removed. When the key fob is not installed into the docking station, the TDS-Premium is armed (locked) and a virtual 152.4 m (500 ft) radius security fence around the last recorded GPS position is established. Vessel position reports are transmitted every four hours while the vessel remains inside the security fence. When the vessel crosses the virtual security fence boundary, alerts will be transmitted as configured by the owner and position reports will be made every minute while the vessel is outside the security fence while in motion. When the vessel is stationary for 15 minutes, a new security fence is established, transmitting position reports every four hours. When the vessel crosses the new security fence boundary, alerts will be transmitted and position reports will be generated every minute, which can lead to higher data usage and additional charges.

Section 2 - Installation

Table of Contents

Theft Deterrent System Kit Installation (Key Fob)

Guidelines for Installing Harnesses

Follow these guidelines when installing the harnesses:

- The maximum CAN bus length is 70 m (230 ft).
- The maximum length of a CAN bus drop (branch off the main harness) is 7 m (23 ft).
- The combined length of all drops cannot exceed 36 m (118 ft).
- Locate an appropriate path for routing the harness connections to their installation points.
- Inspect the routing path to ensure that the surfaces are free of any sharp edges or burrs that could cut the harness.
- Fasten and support the harness with clamps or cable ties along the routing path. A clamp or cable tie must be used within 25.4 cm (10 in.) from any connection and every 45.8 cm (18 in.) along the routing path if not housed in a rig tube.
- Ensure that all connections are tight and locked (if equipped with a lock mechanism).
- Seal all unused connectors with weather caps.
- Route the harness at least 1 m (3 ft 3 in.) from any device that produces electromagnetic interference (EMI), such as VHF radio and radar equipment.

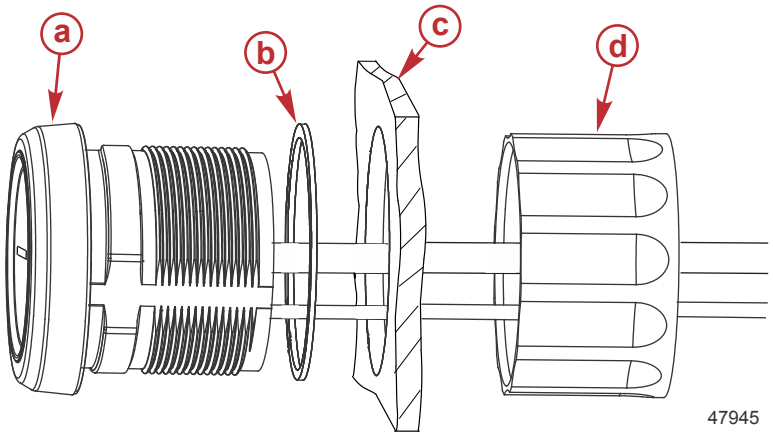
Precautions for Wiring and Harnesses

IMPORTANT: Refer to the following precautions to avoid damage to the electrical system when working on or around the electrical harness or when adding other electrical accessories.

- Do not attempt diagnostics without the proper approved service tools.
- Do not puncture wires for testing (probing).
- Do not splice wires into the harness.
- Do not connect, network, tie into, switch, or sink source voltage or current from the wiring harnesses.
- Do not connect any type of communication or navigation equipment into the wiring harnessing other than at the designated connection point.
- Install boat accessory equipment using an appropriate power source connection, such as a fuse panel or junction box circuit breaker.
- Do not tap directly into any of the electrical wiring harnesses for a source of power.

Installing the Docking Station

1. Select a mounting location for the docking station that provides the following:
   - The docking station must not be closer than 102 mm (4 in.) from any device that produces electromagnetic interference (EMI), such as VHF radio and radar equipment.
   - The docking station must be installed within 1.2 m (4 ft) of the TDS module. The docking station harness cannot be extended. Refer to **Wiring Connections**.
   - Ensure the mounting location affords accessibility from behind the dashboard.
2. Use a hole saw and cut a 54 mm (2-1/8 in.) mounting hole for the docking station.
3. Place the gasket onto the docking station.
4. Place the docking station into the mounting hole. Secure with the retainer nut.



a - Docking station
b - Gasket
c - Mounting location
d - Retainer nut

Installing the TDS Module

1. Select a mounting location for the TDS module that provides the following:
   - Mount the TDS module in an area that stays relatively dry.
   - The TDS module must be installed within 1.2 m (4 ft) of the docking station. The docking station harness cannot be extended. Refer to **Wiring Connections**.
   - If the TDS module is mounted on a vertical surface, orient the connectors towards the side or downward.
   - Allow a minimum clearance of 10 cm (4 in.) for connector installation and removal.
2. Fasten the module to a flat surface with the screws and flat washers provided.

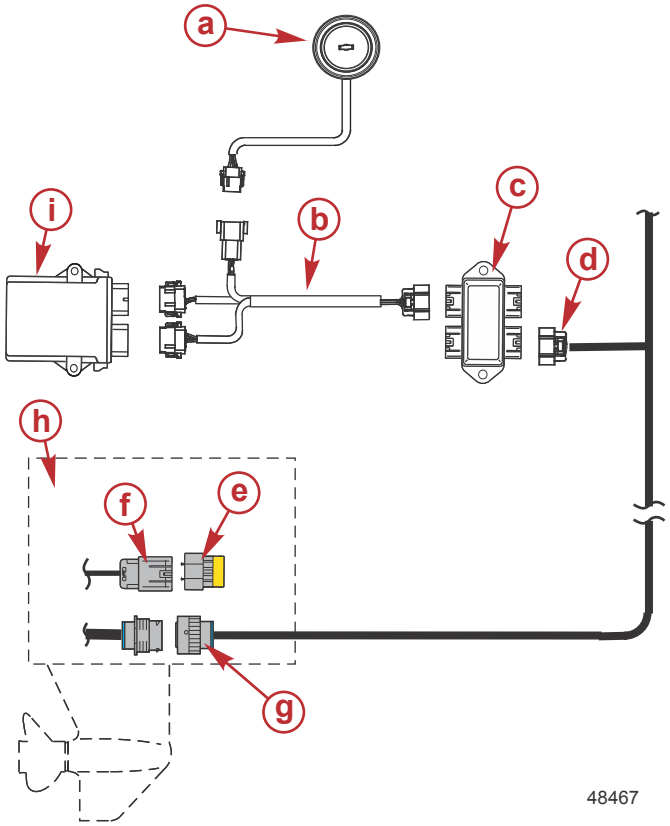
a - TDS module
b - Minimum clearance for connector installation and removal
c - Mounting screws and flat washers (2)

Wiring Connections

Boats with Existing 10 Pin Harness at the Helm

- Plug the 10 pin connector (from the TDS wiring harness) into the junction box. Refer to the following wiring diagram. For multiengine applications, it must be connected to the multiwake or VesselView display junction box.
- Plug the existing 10 pin connector (located at the helm) into the junction box. Refer to the following wiring diagram.
- Plug the 8 pin connector from the docking station into the 8 pin connector on the TDS wiring harness. Refer to the following wiring diagram.
- Plug both 12 pin connectors (from the TDS wiring harness) into the connectors on the TDS module. The connectors are keyed to ensure correct orientation. Refer to the following wiring diagram.

- Refer to the following wiring diagram for the proper wiring connections.



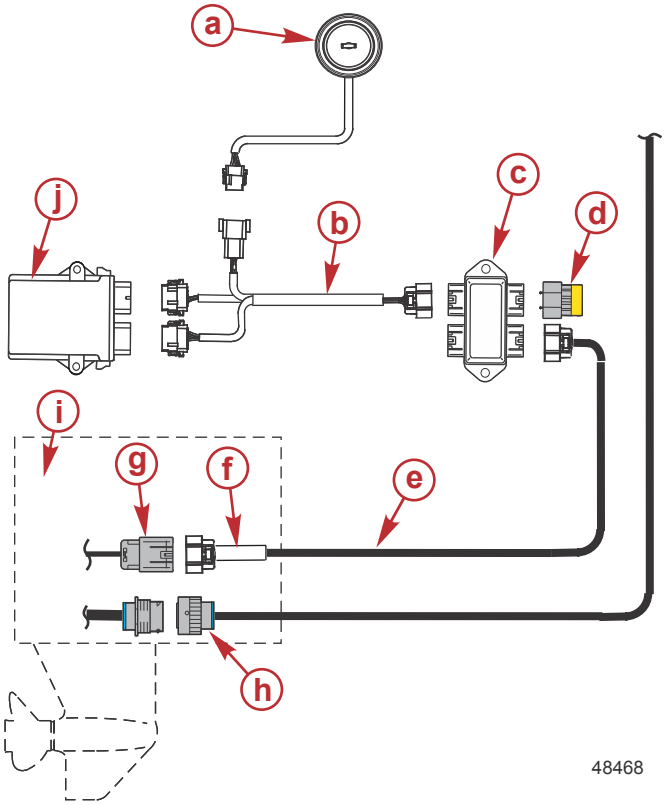
Single engine with existing 10 pin harness at the helm

a - Docking station
b - TDS wiring harness
c - Junction box
d - 10 pin existing harness
e - Termination resistor
f - 10 pin connector
g - 14 pin connector
h - Engine
i - TDS module

Boats without 10 Pin Harness at the Helm

- Plug the 10 pin connector (from the TDS wiring harness) into the junction box. Refer to the following wiring diagram. For multiengine applications, it must be connected to the multiwake or VesselView display junction box.
- Remove the termination resistor from the 10 pin connector on the engine. Connect a SmartCraft 10 pin (one resistor) data harness (blue) between the 10 pin connector on the engine and the junction box. Connect the end of the data harness (which has the resistor) to the 10 pin connector on the engine. Refer to the following wiring diagram.
- Install the termination resistor into the junction box. Refer to the following wiring diagram.
- Plug the 8 pin connector (from the TDS wiring harness) into the 8 pin connector from the docking station. Refer to the following wiring diagram.
- Plug both 12 pin connectors (from the TDS wiring harness) into the connectors on the TDS module. The connectors are keyed to ensure correct orientation. Refer to the following wiring diagram.

- Refer to the following wiring diagram for the proper wiring connections.



Single engine without 10 pin harness at the helm

a - Docking station
b - TDS wiring harness
c - Junction box
d - Termination resistor
e - SmartCraft 10 pin (one resistor) data harness (blue)
f - Resistor (in-line)
g - 10 pin connector
h - 14 pin connector
i - Engine
j - TDS module

Troubleshooting

NOTE: *The electronic code of the theft deterrent system is unique and is electronically matched to the engine. If the engine is ever removed from the boat and fitted to another craft, the engine may require reprogramming. Contact your authorized Mercury dealer.*

Theft Deterent System (TDS)–Premium Installation

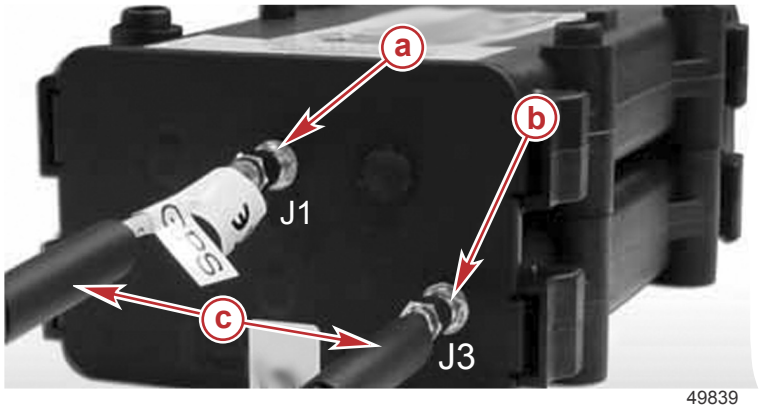
Components Contained in Kit

Ref.	Qty.	Description
a	1	Mobile transceiver unit
b	1	Parts bag
c	1	SmartCraft harness
d	1	User interface bezel
e	1	User interface
f	1	Retainer
g	1	Iridium satellite antenna
h	1	GPS antenna
i	1	Power harness

TDS-Premium Installation

IMPORTANT: TDS-Premium requires command module version 77 or greater.
IMPORTANT: It is important that the installer of this product review the installation instructions and thoroughly understand the process before any component is connected and securely retained.
IMPORTANT: Do not permanently mount any component of the theft deterrent system until advised to do so.
IMPORTANT: CDS-G3 must be used to display fault numbers and fault text when the TDS-Premium has been properly configured into the SmartCraft network. CDS will only display fault numbers.

1. Locate an area under the deck of the vessel to mount the two antennas less than 3 m (9 ft) from the mobile transceiver unit (MTU). Use tape (not included) to temporarily retain the antennas to the underside of the deck. The antennas must have an unobstructed view of the sky, and cannot be closer than 7.6 cm (3.0 in.) to each other.
2. Temporarily mount the mobile transceiver unit (MTU) in an area where there is easy access to the antenna cables, a SmartCraft junction box, and a power source or accessory battery. The power source or accessory battery connection must be uninterrupted.
3. Install the shrink tube over the GPS antenna cable and Iridium satellite antenna cable ends.
4. Connect the GPS antenna cable to the J1 connector on the MTU and tighten securely. Do not use any tools to tighten this connector. Do not apply heat to the shrink tube.
5. Connect the Iridium satellite antenna cable to the J3 connector on the MTU and tighten securely. Do not use any tools to tighten this connector. Do not apply heat to the shrink tube.



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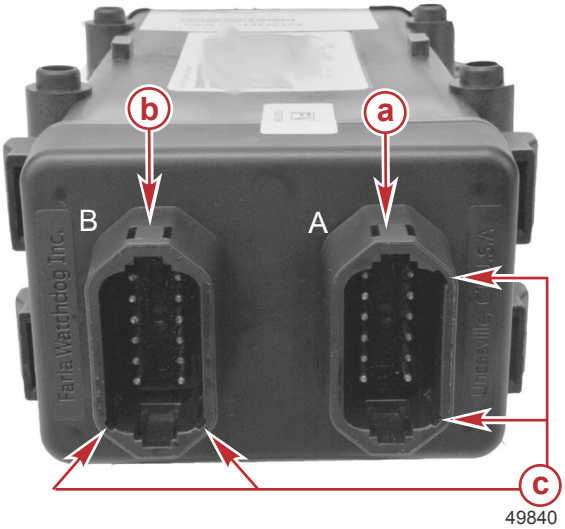
a - GPS antenna connection
b - Iridium satellite antenna connection
c - Shrink tube

6. Connect the SmartCraft harness connector to the B connector on the MTU. Connect the other end of the harness to a junction box.
7. Connect the power harness connector to the A connector on the MTU.

   NOTE: *The MTU connector ports are keyed specifically for the harness that it can accept. Do not force the harness connectors onto the MTU. If installed incorrectly, the harness connectors can be forced into the wrong MTU connector port.*



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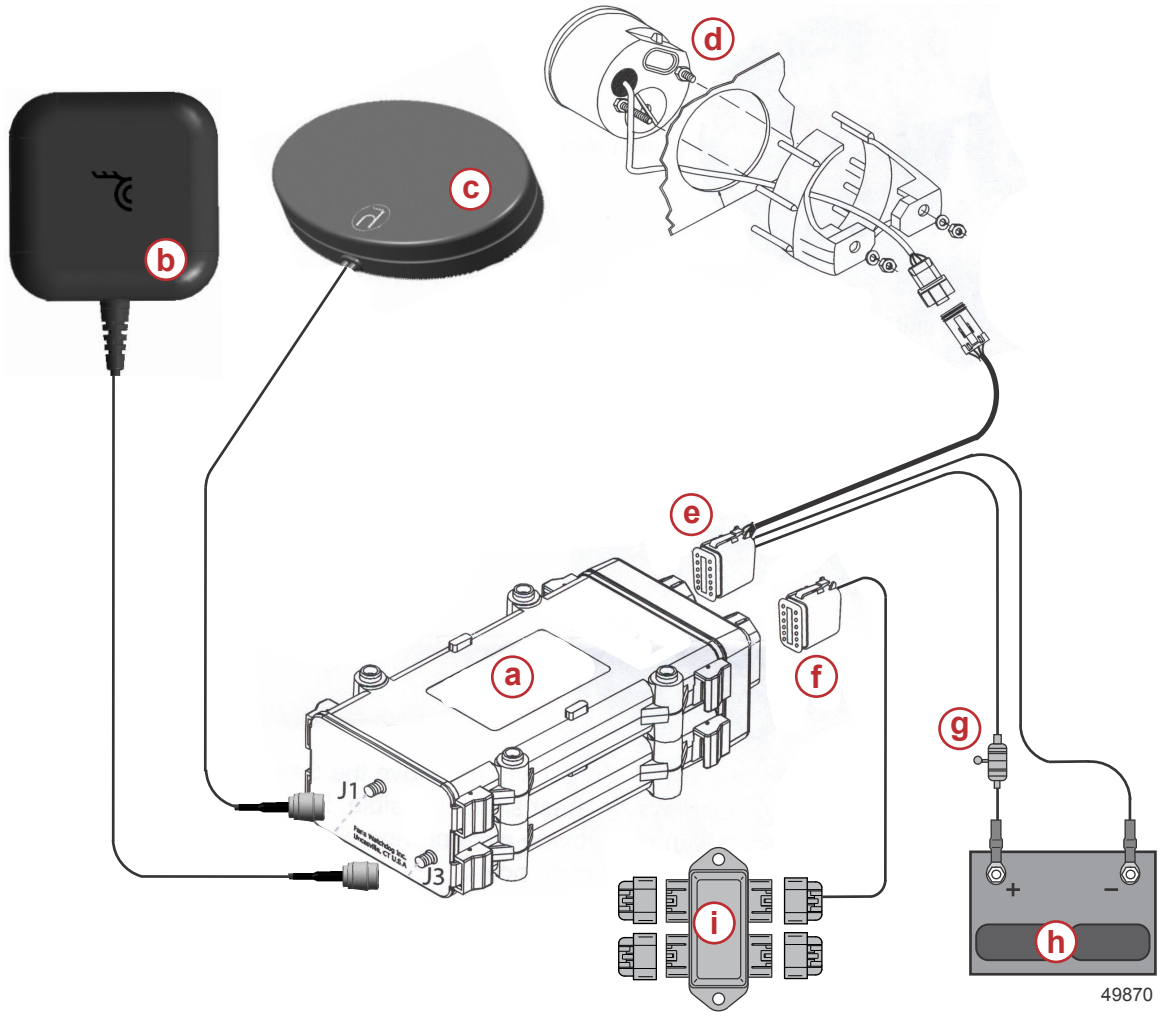
a - Power harness A connector
b - SmartCraft harness B connector
c - Harness connector key

8. Connect the power harness 4 pin connector onto the user interface connector.
9. Secure the red and black power harness terminals to an uninterrupted power source. Red is positive and black is negative.

Cable and Harness Connection Diagram



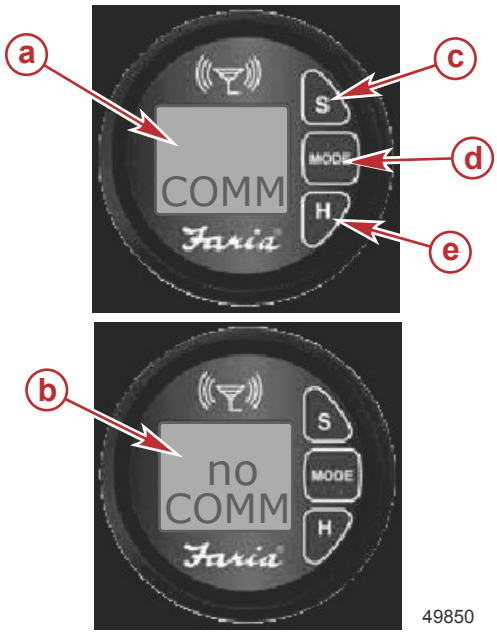
- **a -** Mobile transceiver unit (MTU)
- **b -** Iridium satellite antenna
- **c -** GPS antenna
- **d -** User interface
- **e -** Power harness
- **f -** SmartCraft harness
- **g -** 5 amp fuse
- **h -** Battery
- **i -** Junction box

System Check

1. When the power harness is connected to a battery source with the user interface connected, the display on the interface should show COMM or no COMM.

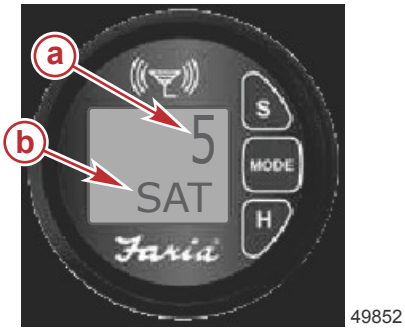
   NOTE: *The vessel must have an unblocked view of the sky. If the vessel is beneath a metal or metallic coated roof, the antenna will not be able to communicate with the satellite.*

NOTE: *The initial communication with the satellite may take a few minutes to complete the linking of the antenna with the satellite.*



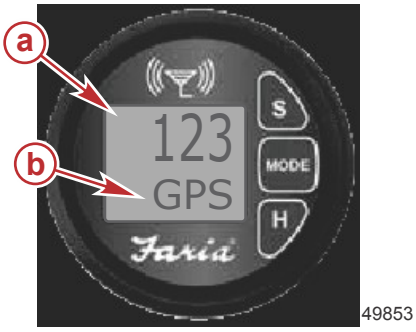
a - COMM
b - no COMM
c - Status button
d - MODE button
e - Help button

2. Press the S button to enter the status mode.
3. Press the MODE button to page through seven displays.
   a. SAT signal strength: A display between 0 and 5 indicates the signal strength of the Iridium satellite. 0 indicates the signal is not available and 5 indicates the best signal. Move the antenna to different locations to identify the best signal strength. Mark the area to permanently attach the antenna after the system check is completed.



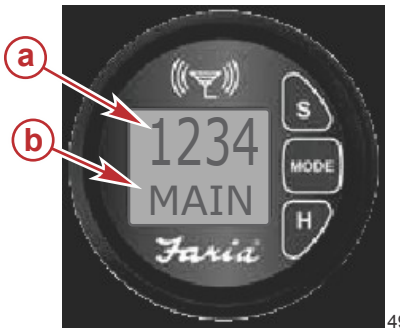
a - Signal strength 5
b - Satellite signal strength SAT

   b. GPS signal strength: This display shows the GPS signal strength up to a four digit number. A display of 9999 indicates there is no GPS signal. A display of 123 indicates the signal strength is very good. Lower numbers represent a better signal strength. Move the antenna to different locations to identify the best signal strength. Mark the area to permanently attach the antenna after the system check is completed.



a - Strength of the signal (123)
b - GPS signal

c. Main battery voltage: This display shows the main battery voltage the theft deterrent system is connected to as a four digit number. A display of 1234 indicates the battery voltage is 12.34 volts.



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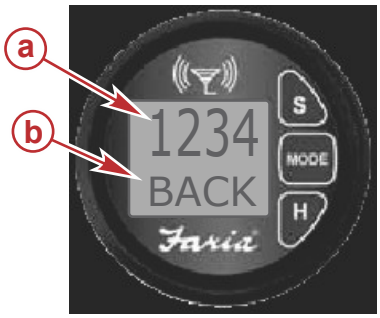
a - Battery voltage 12.34
b - Main battery

d. Backup battery voltage: A backup battery cannot be incorporated into this version of the TDS. The display shows the main battery information.



49855

a - Battery voltage 12.34
b - Backup battery

e. When the theft deterrent system is armed (locked) the display will show ALS LCKD.

50292

Alarm system locked

f. When the theft deterrent system is disarmed (unlocked), the ignition key is on and the key fob is inserted into the docking station. The docking station will show a green light and the display will show ALS UNLK. This screen confirms the TDS-Premium is properly connected.

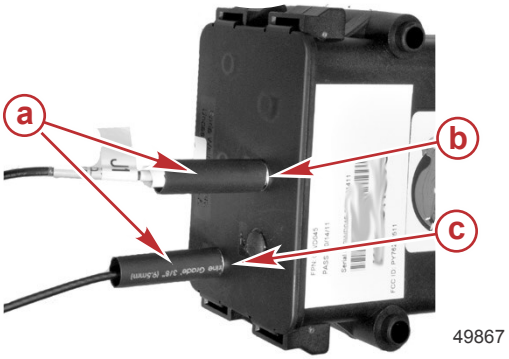
50297

Alarm system unlocked

g. Press the S button to exit the status mode and return to normal display.

Securing the Theft Deterrent System (TDS)-Premium

1. Rough the top of the antennas and mounting locations with a piece of sandpaper (not included). The top of the antenna will be identified with a logo.
2. Clean the top of the antennas and the mounting location with the supplied preparation wipe. Allow the surfaces to dry.
3. Remove the adhesive pad cover and place onto the antenna.
4. Remove the adhesive pad cover and affix the antenna to the mounting location.
5. Slide the heat shrink tube over the GPS and satellite antenna connector on the MTU. Ensure the heat shrink tube covers the antenna connector. Use a heat gun to shrink the tubing onto the antenna cable and connector.



a - Heat shrink tube
b - GPS antenna connection (J1)
c - Satellite antenna connection (J3)

6. Verify the serial number on the MTU is identical to the decal installed on the last page of this manual.
   IMPORTANT: The serial number is required when registering the product on the website.
7. Turn the MTU so the label is not seen and secure the MTU to the bulkhead with the appropriate hardware. If possible, camouflage the MTU by securing the vessel's harnesses over the MTU.
8. Mount the user interface in a location that is hidden from view.
9. Fasten and support all harnessing with clamps or cable ties along the routing path. A clamp or cable tie must be used within 25.4 cm (10.0 in.) of any connection and every 45.8 cm (18.0 in.) along the routing path if not housed in a rig tube.
   IMPORTANT: After the Mercury theft deterrent system has been installed and tested, and the registration form submitted to Faria WatchDog Inc. with an acknowledgement return e-mail, the Mercury theft deterrent system must be completely disengaged from the battery. Faria WatchDog Inc. will not recognize the TDS registration activation unless the battery is completely disengaged for more than 30 seconds and then reconnected.

Notes:

Section 3 - Online Tracking

Table of Contents

3

Online Tracking Account Log-in

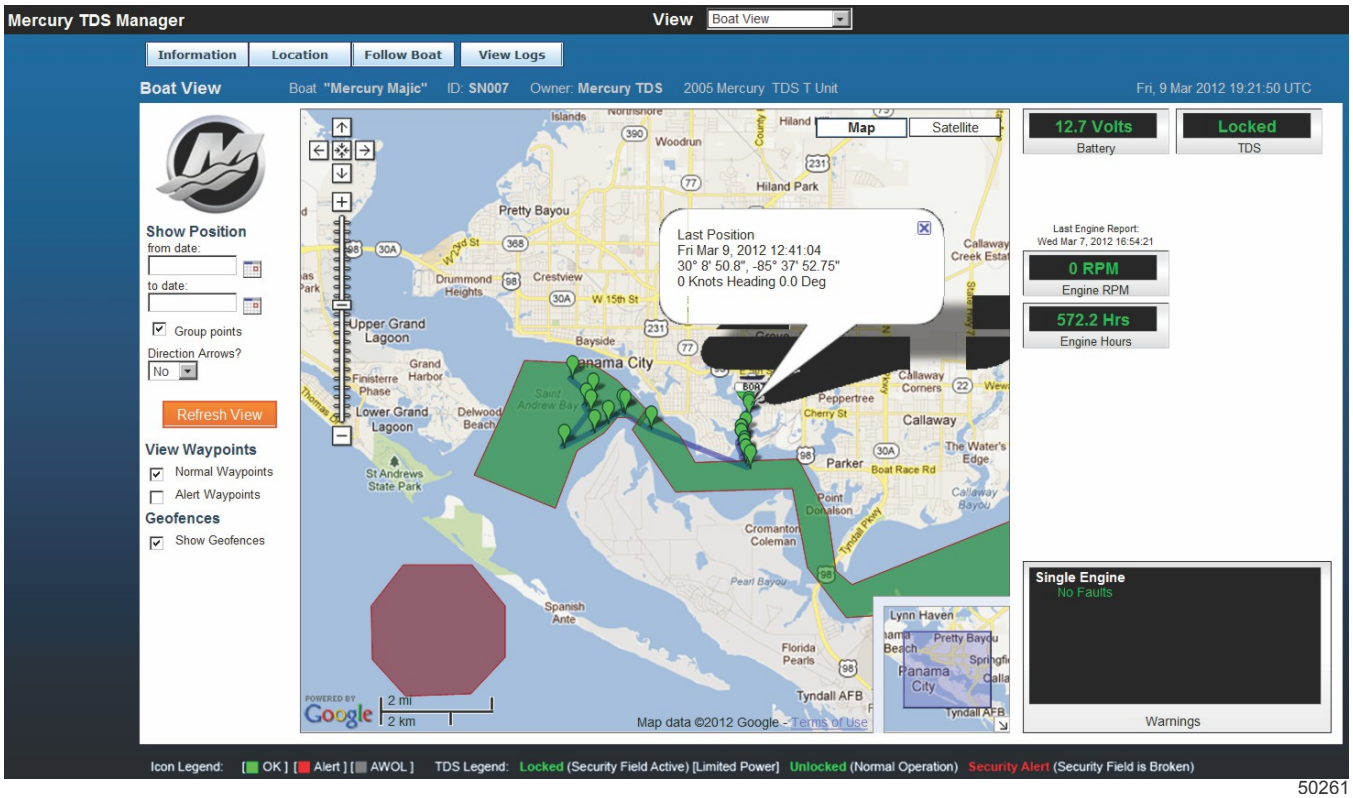
1. Go to the Mercury Marine consumer site http://www.mercmarine.com.
2. Click on Gauges and Control and open the Miscellaneous Accessories.
3. Go to the drop-down menu and select Mercury TDS–Premium.
4. The link will go to http://www.mercurytdsconnectedvessel.com. Save this site to your favorites for quick access in the future.
5. Enter the user name and password created when the theft deterrent system was registered at the installing dealership. Click on the log-in icon.

49893

Mercury TDS Manager

Boat View

After logging into the website, Mercury TDS Manager default page will appear. Boat View is an overhead view of the vessel's last position. This page has attributes that can be modified to change the appearance of the page. Click on the Boat View or Location icon to return to this default page.



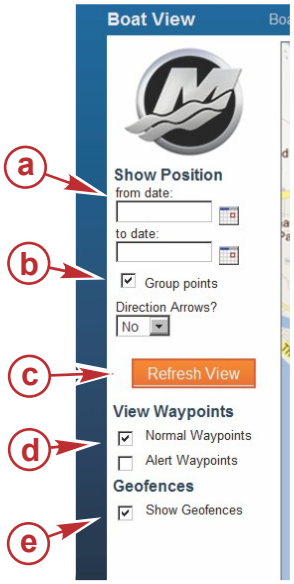
50261

Show Position: The left column is how you can review your vessel's history on the map. The Boat View page will automatically show the 25 most recent position reports on the map, you can also define a date range in this column. You may also add Directional Arrows to your vessel's map. After defining a date range, or toggling the directional arrows, click Refresh View to apply these attribute changes.

Direction Arrows: Direction Arrows is turned off (NO) by default. Turning the Direction Arrows on (YES) will show the direction of travel between each of the teardrop shape waypoint icons.

View Waypoints: Waypoints can be selected at any time while viewing the map. The types of waypoints are: Normal Waypoints, Alert Waypoints, or a combination of both. Normal Waypoints is turned on by default.

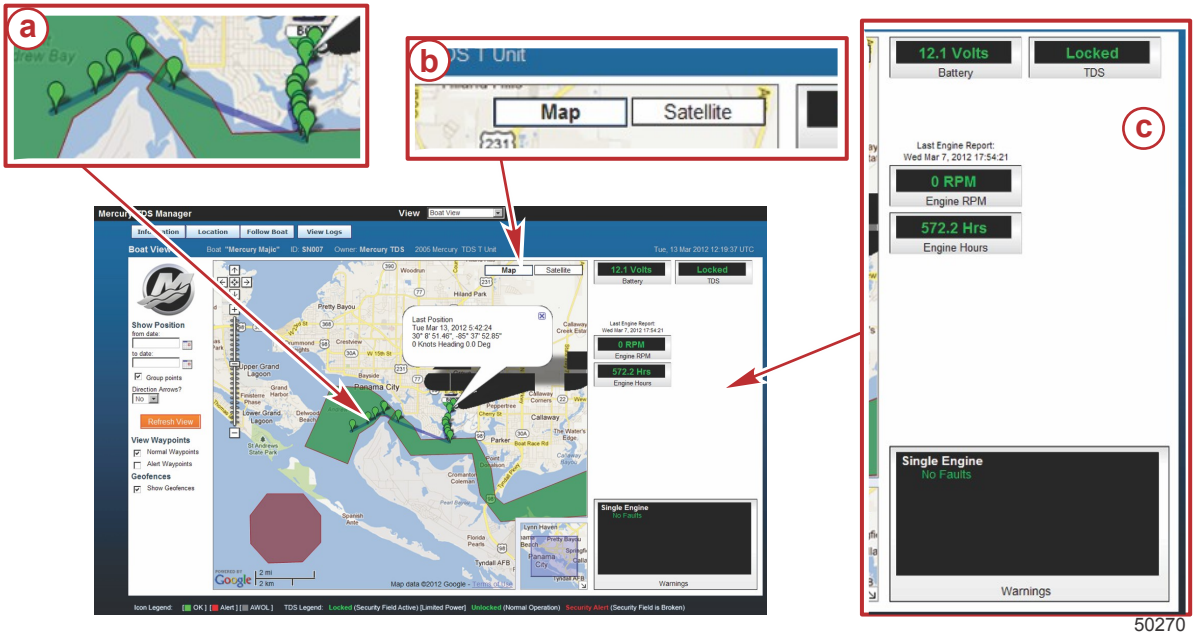
Geofences: After creating one or several Geofence boundaries, they can be made invisible by removing the checkmark in the Show Geofence. Geofence is turned on by default.



49907

a - Date range
b - Direction Arrows
c - Refresh View
d - View Waypoints
e - Show Geofences

Waypoint Icons: The vessel's current and past locations are marked with different color teardrop shape waypoint icons. The majority of the icons will be green, but red, or grey waypoints may also be seen. Green indicates the vessel location and physical condition while the vessel is armed (locked) or unarmed (unlocked). Red is an indication of unauthorized use, or the vessel has broken a security fence boundary. An alert message will be sent to the designated recipients. Grey indicates where the vessel was AWOL. AWOL status occurs when a vessel has not reported at its scheduled interval. This is rare and can be caused by the system being off, low battery voltage, blocked or loss of the GPS communication signal. At the bottom of the browser, an icon legend shows a generic description of the colors. Placing the cursor over the waypoint icon will open the information balloon, showing the time, location, speed, and heading at that waypoint. Go to the View Logs for more complete information on these waypoint updates.



50270

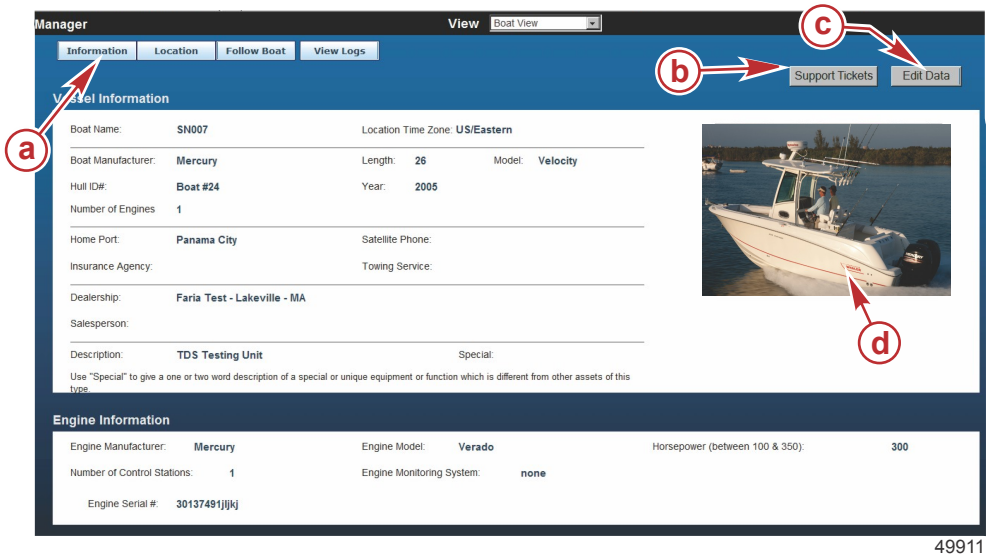
a - Waypoints
b - Map and Satellite
c - Status bar

Maps: Many functions of the map are similar to a regular Google Map. Two different map views are available: Map and Satellite. Click on one of the icons in the upper right corner of the map to change the view. Use the Zoom tool bar on the left to zoom in the map or zoom out. Click, hold, and drag the map to view other areas. Map is the default setting.

Status Bar: The right-hand column of the window shows a quick reference of the vessel's current statistics. Battery voltage, current state of the TDS, engine RPM, and engine hours are displayed. Above the engine RPM is a date/time stamp when the information was uploaded to the website. The bottom of the column shows if the vessel engines have any faults. To review the history of the engine, go to View Logs. To review the history of the engine faults, go to Fault Log.

Information (Vessel Information)

Click on the Information icon to open the page showing data about the vessel and important information the installing dealer uploaded. Not all of the fields may have been filled out by the installing dealer. Click on the Edit Data icon in the upper right-hand corner to change some of the data or upload a picture of the vessel. The Support Tickets icon allows you to submit a question, request technical support from Faria WatchDog Inc., or just write a comment.

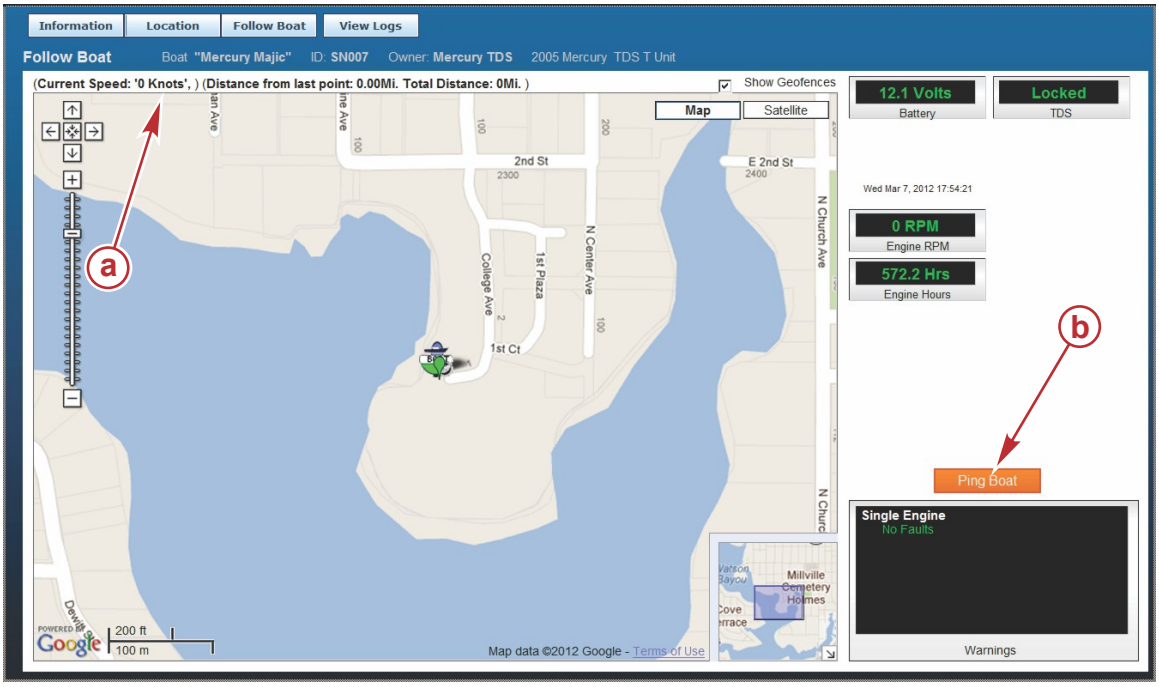


49911

a - Information icon
b - Support Ticket icon
c - Edit Data icon
d - Picture of the vessel

Follow Boat

Click on the Follow Boat icon to quickly see a map of the vessel's current location. This page shows the position data for the last recorded minute. The information will refresh every minute when the vessel has left the security fence. Engine fault locations will show as a waypoint icon on the map. Position log updates by default will continue at a rate of once every 30 minutes when the engine is running.



50271

a - Current Speed, Distance from last point, Total Distance
b - Ping Boat

In the lower right-hand corner of the page is Ping Boat. Ping Boat allows you to verify the vessel position and status.

- When the Ping Boat icon is clicked, you may see Begin Ping in the color blue. Begin Ping will only be visible until the Iridium satellite server responds and then the text will switch to Wait for System. Wait for System indicates the web server has sent a command for a status update to the data center and to the TDS. Wait for System remains visible until the web server receives acknowledgment the TDS has received the request for status update.

50264

- In the event that either the TDS is powered down or has no satellite signal, Wait for System will remain for about 3 minutes and 30 seconds and then returns to Ping Boat.

50265

- After the browser receives the signal from the server that the acknowledgment has been received, the icon changes text and color.

50274

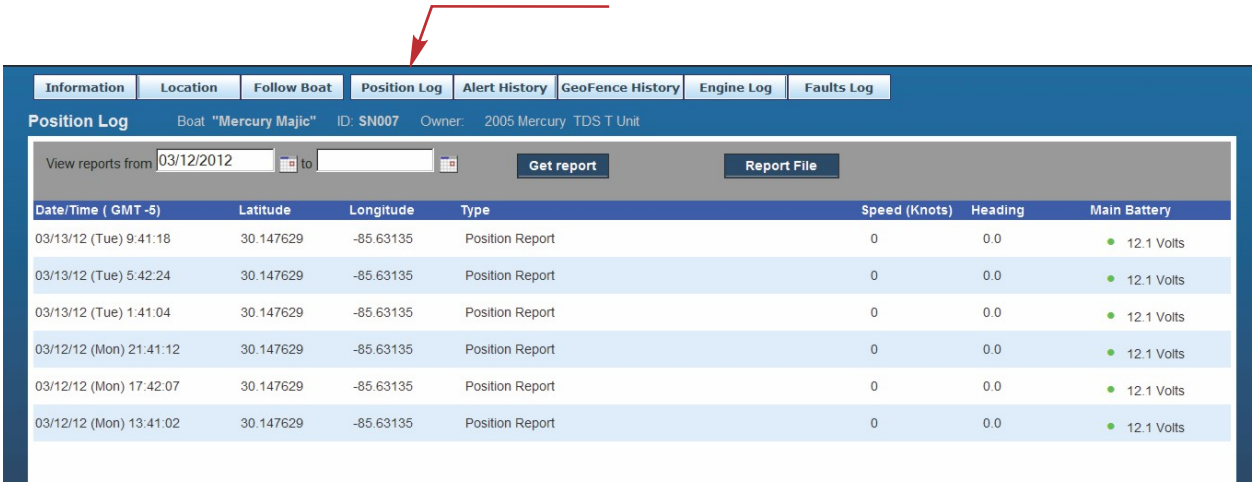
- After the browser receives the signal from the server and the status position report has been received, the icon stays green and changes the text. If the boat is moving, it is possible to see the position change before seeing the text change. This is because there are multiple processes occurring at the same time. The icon will remain the same color and text for about one minute. This allows the vessel owner enough time to see the boat has reported and then will revert back to the normal color and text (Ping Boat).

50275

NOTE: *Using the Ping Boat function will increase your data usage and could lead to additional charges. Clicking on Ping Boat repeatedly before the system has time to respond may cause the website to stop functioning.*

View Logs

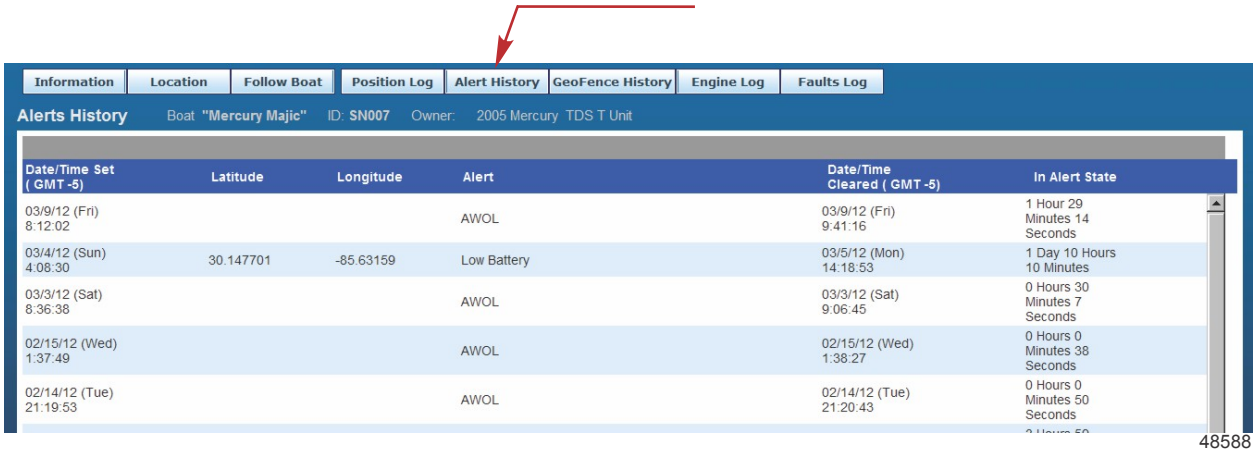
Click on the View Logs icon to open the Position Log page. The Position Log page is the archived history the theft deterrent system has uploaded to the website. You can specify a date range to receive a report of the vessel's status at all the waypoints uploaded during the dates selected.



50016

Alert History

Click on the Alert History icon to review data the TDS has uploaded into the website. The information will include the date and time the alert was set, latitude and longitude, the type of alert, the date and time the alert was cleared, and how long the TDS was in the alert state.



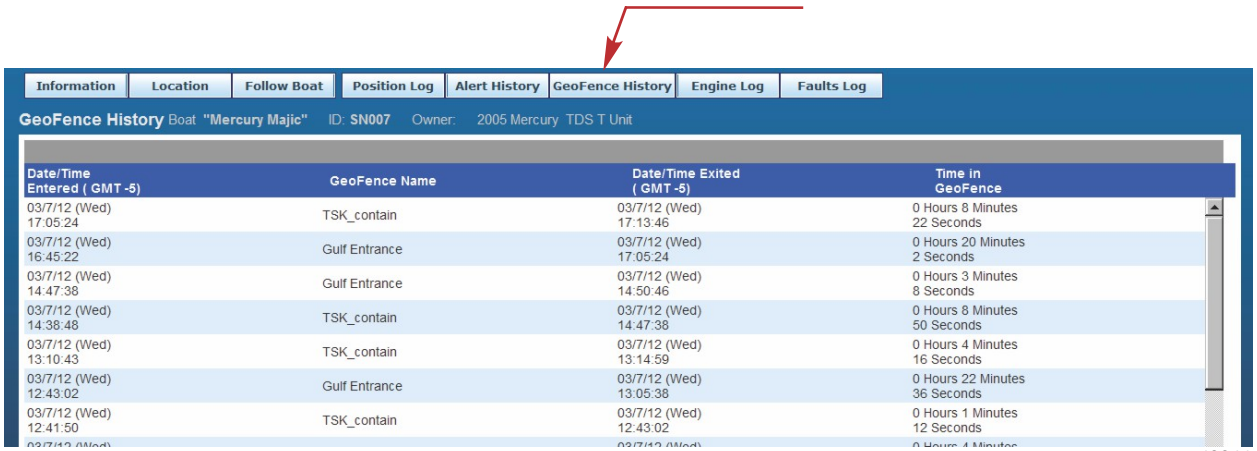
Date/Time Set (GMT -5)	Latitude	Longitude	Alert	Date/Time Cleared (GMT -5)	In Alert State
03/9/12 (Fri) 8:12:02			AWOL	03/9/12 (Fri) 9:41:16	1 Hour 29 Minutes 14 Seconds
03/4/12 (Sun) 4:08:30	30.147701	-85.63159	Low Battery	03/5/12 (Mon) 14:18:53	1 Day 10 Hours 10 Minutes
03/3/12 (Sat) 8:36:38			AWOL	03/3/12 (Sat) 9:06:45	0 Hours 30 Minutes 7 Seconds
02/15/12 (Wed) 1:37:49			AWOL	02/15/12 (Wed) 1:38:27	0 Hours 0 Minutes 38 Seconds
02/14/12 (Tue) 21:19:53			AWOL	02/14/12 (Tue) 21:20:43	0 Hours 0 Minutes 50 Seconds

48588

GeoFence History

Click on the GeoFence History icon to review data the TDS has uploaded into the website. The information will include the date and time the vessel entered a virtual fence, the name of the virtual fence, the date and time the vessel exited the virtual fence, and how much time the vessel was inside the virtual fence.

NOTE: *GeoFence History only shows the data for the containment and hazard fences. GeoFence History will not show security fence data.*

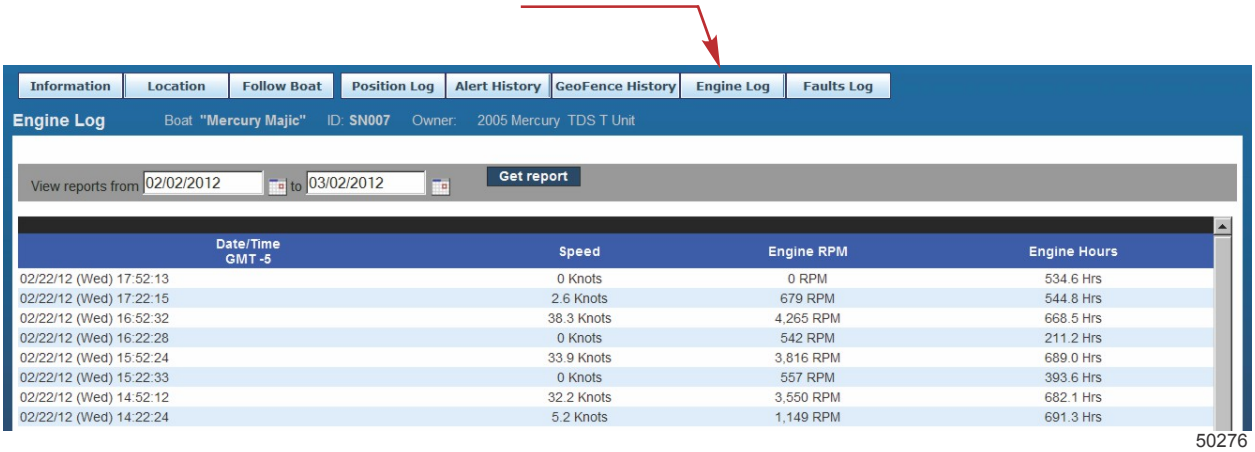


Date/Time Entered (GMT -5)	GeoFence Name	Date/Time Exited (GMT -5)	Time in GeoFence
03/7/12 (Wed) 17:05:24	TSK_contain	03/7/12 (Wed) 17:13:46	0 Hours 8 Minutes 22 Seconds
03/7/12 (Wed) 16:45:22	Gulf Entrance	03/7/12 (Wed) 17:05:24	0 Hours 20 Minutes 2 Seconds
03/7/12 (Wed) 14:47:38	Gulf Entrance	03/7/12 (Wed) 14:50:46	0 Hours 3 Minutes 8 Seconds
03/7/12 (Wed) 14:38:48	TSK_contain	03/7/12 (Wed) 14:47:38	0 Hours 8 Minutes 50 Seconds
03/7/12 (Wed) 13:10:43	TSK_contain	03/7/12 (Wed) 13:14:59	0 Hours 4 Minutes 16 Seconds
03/7/12 (Wed) 12:43:02	Gulf Entrance	03/7/12 (Wed) 13:05:38	0 Hours 22 Minutes 36 Seconds
03/7/12 (Wed) 12:41:50	TSK_contain	03/7/12 (Wed) 12:43:02	0 Hours 1 Minutes 12 Seconds

49944

Engine Log

Click on the Engine Log icon to review data the TDS has uploaded into the website. The information will include the date and time, the speed, engine RPM, and the engine hours. You can specify a date range to receive a report of the engine log during the dates selected. Vessels with multiple engines will show information windows for each engine.

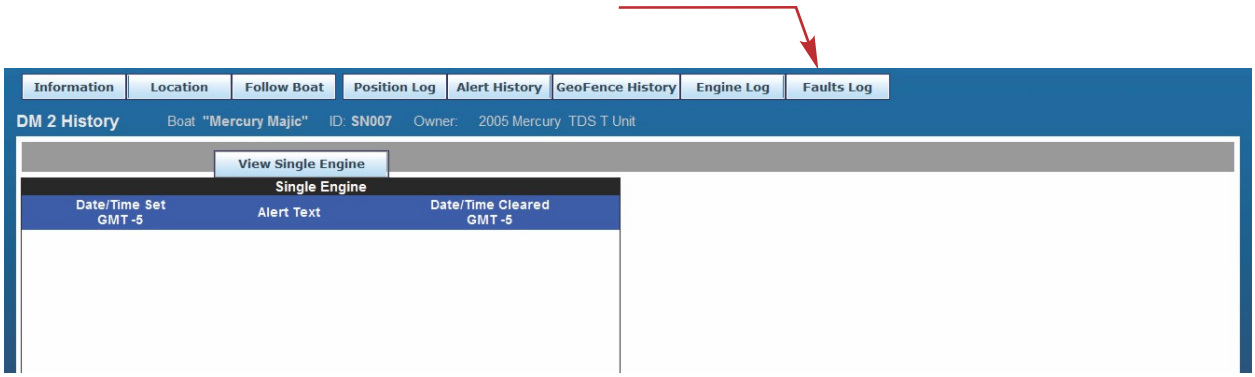


Date/Time GMT -5	Speed	Engine RPM	Engine Hours
02/22/12 (Wed) 17:52:13	0 Knots	0 RPM	534.6 Hrs
02/22/12 (Wed) 17:22:15	2.6 Knots	679 RPM	544.8 Hrs
02/22/12 (Wed) 16:52:32	38.3 Knots	4,265 RPM	668.5 Hrs
02/22/12 (Wed) 16:22:28	0 Knots	542 RPM	211.2 Hrs
02/22/12 (Wed) 15:52:24	33.9 Knots	3,816 RPM	689.0 Hrs
02/22/12 (Wed) 15:22:33	0 Knots	557 RPM	393.6 Hrs
02/22/12 (Wed) 14:52:12	32.2 Knots	3,550 RPM	682.1 Hrs
02/22/12 (Wed) 14:22:24	5.2 Knots	1,149 RPM	691.3 Hrs

50276

Fault Log

Click on the Fault Log icon to review data the TDS has uploaded into the website. The information will include the date and time the engine had a fault, alert text that was created, and the date and time the faults were cleared. Vessels with multiple engines will show information windows for each engine.



50277

Notes:

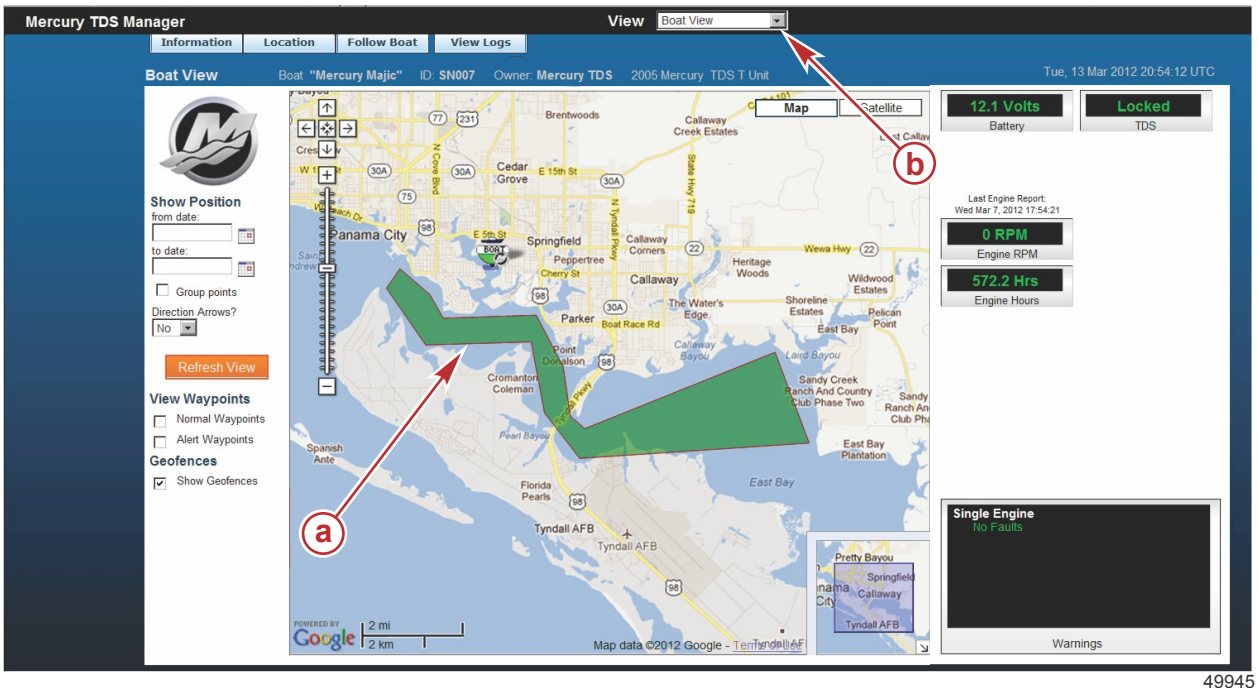
Section 4 - Custom Border Configuration (GeoFence)

Table of Contents

4

GeoFence Manager

The Mercury TDS-Premium with Connected Vessel GeoFence manager feature allows you to create virtual boundaries. The boundary latitude and longitude waypoints create a GeoFence that allows you to view the instances the vessel enters or exits this virtual boundary. Click on the View drop-down menu and select GeoFence Manager.

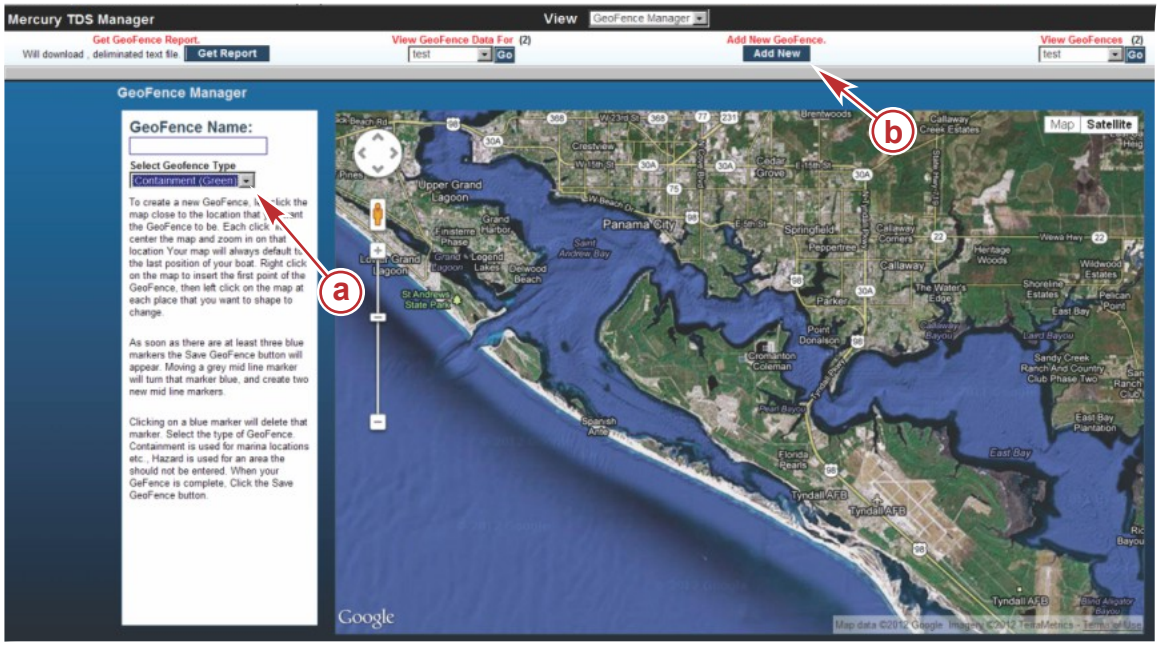


49945

a - Virtual boundary
b - View drop-down

Creating a Fence

1. Click on Add New GeoFence.

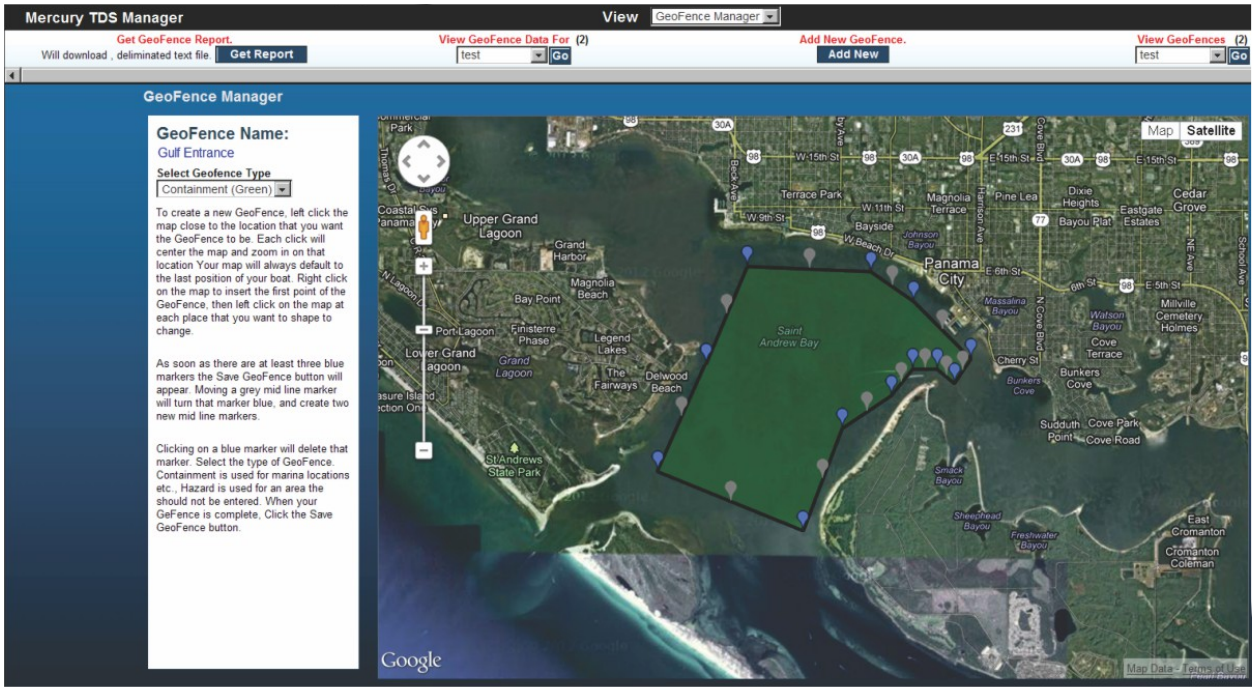


50041

a - GeoFence name and type
b - Add New GeoFence

2. A column will open to the left of the map.
3. Enter a name for the fence. Select the type of fence you will create: Containment or Hazard.
   - A containment fence is a virtual boundary the vessel is authorized to be operating within. When the containment fence is crossed over, the system will record when the vessel has left the containment boundary or is entering the boundary. This recorded information is archived on a server and can be viewed on the website. This boundary can also be used to identify unauthorized use.
   - The hazard fence is a red virtual boundary. The hazard fence can be used to identify areas the vessel should avoid.
4. Left click on the map near to the location you want a virtual fence. Each left click will center and zoom in on that location.
5. Right click to insert the first fence waypoint, then left click to set the next and following fence waypoints. When three blue waypoints appear, the Save GeoFence icon will appear.
   - Moving a grey midline waypoint will turn that waypoint blue and create two new midline waypoints.

- Clicking on the blue waypoint will delete that marker.



50057

6. When the fence is finished, click on the Save GeoFence icon.
7. To refresh the screen, click on the GeoFence Manager drop-down.

Edit, Rename, or Delete a GeoFence

1. Open the GeoFence Manager from the View drop-down.
2. Go to View GeoFences on the right-hand side of the GeoFence Manager screen.
3. Use the drop-down and highlight the GeoFence that is to be edited, renamed, or deleted. Click on the GO button.
4. A column will open to the left of the map area with the GeoFence centered on the screen.
5. To edit the fence;
   a. Click, hold, and drag the blue icon to the desired location.
   b. Click, hold, and drag the grey icon to the desired location. Moving the grey icon will turn the icon blue and two midline grey icons will appear. Click on Save GeoFence changes when done.
6. To change the name of the GeoFence, click on Edit GeoFence Name. Enter the name of the GeoFence.
7. To delete the GeoFence, click on Delete this GeoFence.
   - When deleting a GeoFence, a web page popup will appear that states Are you sure you wish to delete? Click on OK to delete or Cancel to return to the page.
8. Click on GeoFence Manager to update the view.

Section 5 - Alert Configuration

Table of Contents

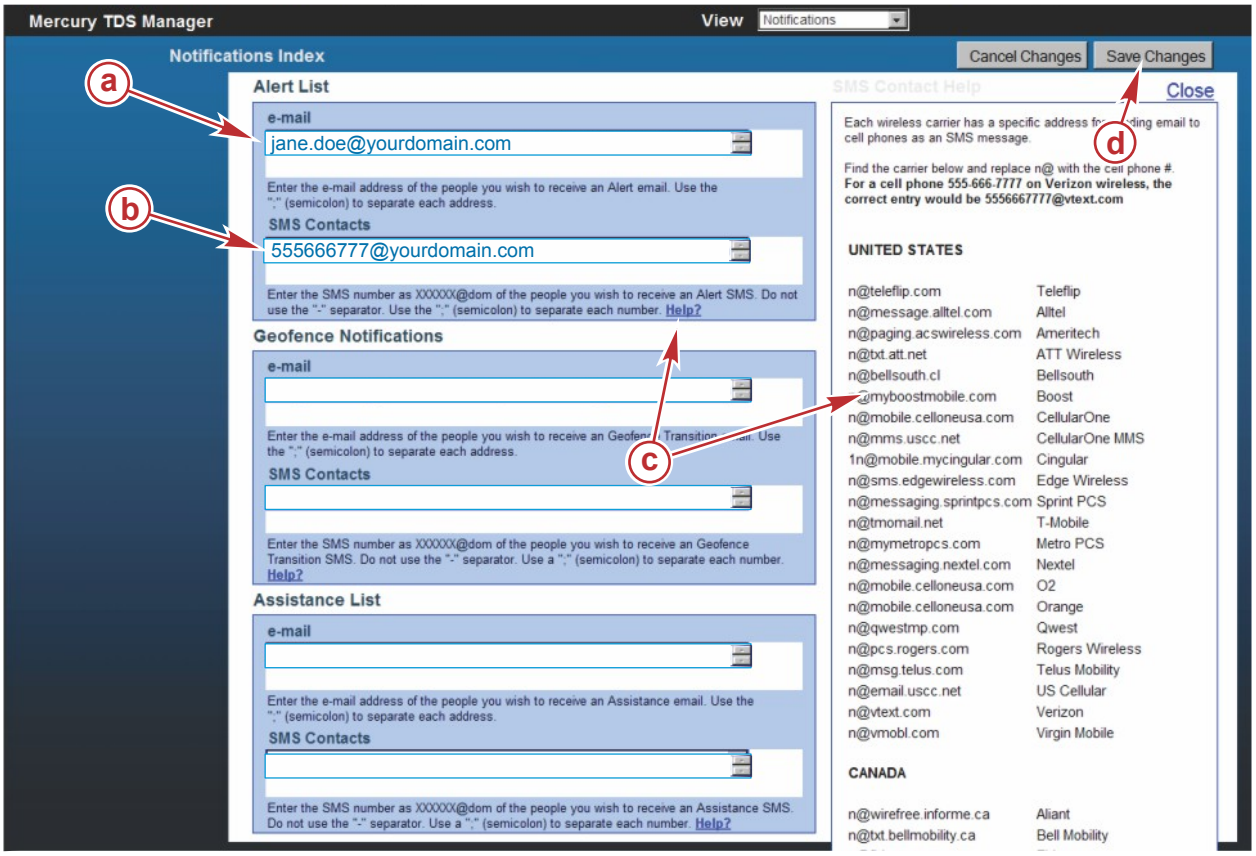
5

Alert Address Configuration

IMPORTANT: To receive the full benefits of the theft deterrent system, e-mail and cell phone (SMS) addresses must be configured.

1. Click on View to open the drop-down menu.
2. Click on Notifications to access the Notifications Index Alert List.
3. Enter the e-mail address of people in the Alert List, GeoFence Notifications, and Assistance List you wish to receive an alert e-mail. Use a semicolon (;) to separate each address.
4. Enter the SMS number of the people you wish to receive an alert message in the Alert List, GeoFence Notifications, and Assistance List. Enter the SMS address as xxxxxxxxx@*yourdomain*.com. Do not use the hyphen (-) separator. Use a semicolon (;) to separate each contact number.

   NOTE: *Click on the help hyperlink to open a SMS contact help file. The base address of the major carriers will be listed.*



50058

a - E-mail address
b - SMS number
c - Help hyper link
d - Save Changes

Alert Definition Matrix

The following information shows how an alert message is activated, what the message states, and where it is recorded.

Alert Notifications

Type of Alert	Where Initiated	Why Initiated	Message Sent	Where Recorded
Low Battery	TDS	Input battery voltage is less than 11.6 V.	Attention: Mercury TDS Premium reports the boat has detected a low battery condition on (date and time)	Alert Log

Type of Alert	Where Initiated	Why Initiated	Message Sent	Where Recorded
Low Battery Clear	TDS	Input battery voltage is greater than 11.6 V.	No message	Alert Log
AWOL	Website server	Nonreporting for more than 4 hours 5 minutes.	Attention: Mercury TDS Premium reports the boat has gone into an AWOL state as of (date and time)	Alert Log
AWOL Clear	Website server	Periodic reporting established.	Attention: Mercury TDS Premium reports the boat has AWOL state cleared as of (date and time)	Alert Log
No GPS	TDS	Signal strength greater than 9999 for five minutes.	Attention: Mercury TDS Premium reports a weak or missing GPS signal and is unable to establish a Security Field (date and time)	Alert Log *Note: sends alert every 24 hours until repaired*
Poor GPS Signal	TDS	Signal strength is between 250 and 9999 for five minutes. *Note: dependent on satellite constellation.*	Attention: Mercury TDS Premium reports a weak or missing GPS signal and is unable to establish a Security Field (date and time)	Alert Log
Diagnostic Message or Engine Fault Code	ECU or PCM	Trouble codes generated by engine faults (SmartCraft).	No message	Fault Log
TDS Locked	TDS	System is reporting Locked or no valid CAN message has been received for two minutes.	No message	Boat View page on website Security Fence established (not visible on website)
TDS Security Field	TDS	System is reporting Locked and the vessel has moved outside of Security Field.	Attention: Mercury TDS Premium has detected that your vessel has moved outside the established security field on (date and time). Please view your website for details.	Position Log Reporting rate changes to once per minute until alert is cleared or vessel stops moving for 15 minutes
TDS Unlocked	TDS	System is functional and vessel operation is normal.	No message	Boat View page on website Reporting rate changes to once per hour if moving (determined by GPS position change)
New TDS Security Field Established	TDS	System is active and vessel has moved outside of Security Fence. TDS recognizes no change in position for 15 minutes, and a new Security Fence is established.	No message	(website page under construction at the time of this printing) Reporting rate returns to once every four hours unless outside the Security Field

GeoFence Notifications

Type of Boundary	How is Message Initiated	Message Sent	Where Recorded
Containment Fence Boundary set by customer on website	Website server detection Fence boundary is crossed. Timing of alert message may not coincide with time of crossing.	Attention: Mercury TDS Premium reports the boat has entered the containment geofence (name) on (date and time)	GeoFence Log
		Attention: Mercury TDS Premium reports the boat has exited the containment geofence (name) on (date and time)	
Hazard Fence Boundary set by customer on website	Website server detection Fence boundary is crossed. Timing of alert message may not coincide with time of crossing.	Attention: Mercury TDS Premium reports the boat has entered the hazard geofence (name) on (date and time)	GeoFence Log
		Attention: Mercury TDS Premium reports the boat has exited the hazard geofence (name) on (date and time)	

Assistance Notification

Type of Assistance	Description of Action	How Activated	Message Sent	Where Recorded
Emergency Assistance	Emergency notification requested by vessel	Press and hold the H button for six seconds on Operator Interface	Attention: Mercury TDS Premium reports the boat has detected Assistance Requested on (date, time latitude, longitude). That location is approximately (xxx) miles from address.	Alert Log
Emergency Assistance Clear	Emergency notification clear requested by vessel	Press and hold the H button for six seconds on Operator Interface	Attention: Mercury TDS Premium reports the boat has detected Assistance Requested Clear on (date, time latitude, longitude). That location is approximately (xxx) miles from address.	

Help Button

The user interface has a help button that can activate a request for assistance. The address location (e-mail or sms [text]) to receive the request for assistance must be configured and assigned on the website in the Assistance List section.

Help Button Function

- Hold the H (help) button for six seconds to activate a request for assistance. The screen will display HELP SEND indicating the TDS has requested assistance.
- When the request has been sent, the screen will change to HELP SENT.
- When the request for assistance is received by the Iridium satellite server, the server will send out an e-mail or a sms (text) alert message to all addresses listed on the Assistance List. The server will send a response message to the user interface to indicate the request for assistance has been received and is logged into the server. The server will send the response message (HELP RECV) to the user interface even if no address or sms is configured in the Assistance List. E-mail addresses must be configured on the Notifications page to support this function.

IMPORTANT: HELP RECV does not indicate the addresses in the Alert List have been notified. It does not indicate a connection has been made with any individual. In the case of an emergency, contact the United States Coast Guard on channel 16 on your VHF radio.

50017

a - Help send
b - Help sent
c - Help received
d - Help button

- Hold the H (help) button for six seconds to close the request for assistance mode and return to the normal mode of operation on the user interface.

Notes:

Section 6 - Frequently Asked Questions (FAQ) and Notes

Table of Contents

6

FAQ Mercury TDS Premium

1. What is the monthly charge and what does it include?
   - The fee is approximately $45.00 per month and it covers the Iridium data fees. This is similar to other fees that cover data and text information. Keep in mind that excessive use of the Ping Boat button could result in additional data charges over and above these standard monthly charges. Ping Boat located in Follow Boat, will allow you to get the most current position. The system will display different text and color once Ping Boat is pressed. Be aware that this could take up to two minutes to receive information from the satellite communication.
   - You may also incur additional charges if you trailer your boat for long distances when the TDS is locked.
   - There may be insurance premium savings available on your boat insurance policy. Contact your agent to discuss this possible savings when purchasing and installing the Mercury Theft Deterrent System Premium.
2. What is the security fence?
   - The security fence is a unique field with a 152.4 m (500 ft) radius that is automatically created around your boat when the boat has stopped moving and the engine is turned off. When the boat moves out of the security fence, an alert will be sent (e-mail or text within one to three minutes when broken) and the position will update every minute to notify you that the boat is moving and is outside this security fence.
   - The GeoFence is created by the user. It allows you to create boundaries based on latitude and longitude waypoints, and will allow you to view the instances your vessel enters and exits these boundaries. Containment and hazard fences are the two different types and are different colors to help distinguish one from the other. There may be time delays to receive an alert that is sent when one message is sent inside the fence and the other is sent from outside the fence.
3. What different information and alerts are there?
   - Security connections, voltage, RPM, engine hours, and SmartCraft faults are displayed on your web page. The fob connection in the docking station is monitored and is displayed on the web in the lock/unlock box. When the system is locked; the engines will have limited power. When the system is unlocked, the engine and system has normal operation. Any time you see the Security Alert, the boat is outside the security fence. To reset this message, you will need to turn the key to the off position, then turn the key to the on position.
   - Always use your SmartCraft gauges and displays to monitor engine issues when driving your boat.
4. How long is the agreement and what would happen if I wanted to cancel it?
   - You sign up for 12 months, similar to cell phone service. There is a disconnect charge if you want to cancel during this time period. The insurance company may also charge back premium discounts if you cancel the service.
5. Who do I call if I have issues or questions?
   - Contact Mercury Customer Service at 920-929-5040.
6. Why do I get different looks on the website?
   - The type of web browser you use can make an impact on how the site and pages are displayed. We recommend the following web browsers for best display. Use Firefox, Internet Explorer (newer versions), Chrome, or Safari for best results.
7. Why do I see variation in the voltage and get alerts from time to time?
   - Long periods of time in storage with the battery connected could draw your battery power down. Changes to voltage can also occur from temperature changes in and around the boat.
8. What happens when I push the assistance button on the 2 inch interface gauge?
   - This button sends an alert when held for six seconds. Pressing it again will clear the message and reset it. The message sent will be a help request and include GPS coordinates. The person listed in the notification index will receive this message.
   - When you register your boat and fill in the notification contacts, verify that you get approval from whomever you are sending the alert to. It is important that you make every effort to accurately define any e-mail or phone numbers entered on the notification index. Incorrect addresses and numbers will result in no alert messages being received.
9. How can I change the time zone to reflect the correct time? What about changing the password?
   - Go to the Information window and select Edit Data and update the information.
10. Why do I get alerts when my boat is in storage on land?
    - All antennas need a clear signal to accurately communicate position. When the boat is in dry dock, obstruction such as a metal roof above the boat can cause a distorted, poor signal to the satellite or GPS. The only time you can be confident you are getting accurate readings is when there is an unblocked view of the sky.
11. When will I get changes to information that is displayed on the web such as engine RPM or engine hours?
    - This information will be updated after 30 minutes of running. Old data is time stamped to show when it was last recorded. Keep in mind that the data will only be updated when you run for over one half hour. You must use the Follow Boat page to see more data update information.

12. How long will it take to activate my system after I have completed my registration?
    - The system will be connected within 24 hours after the completion of the registration. The system looks for the power to be connected once the registration is complete. An automatic restart to check for power will occur if the battery was connected prior to registration.

Notes:

Important Numbers	
Theft deterrent system serial number	
Vessel hull identification	
Drive	
Transom	
Engine	
Selling dealer	
Sales person	
Insurance company	
Satellite phone	
Towing service	
Coast Guard	
Police	

Important Names	
Vessel	
Owner	
Captain	
Mechanic	
Selling dealer	
Sales person	
Insurance agent	