

INFORMATION CENTER (GAUGE)

SERVICE TOOLS

Description	Part Number	Page
DIAGNOSTIC HARNESS	529 036 188	49, 52–53
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SERVICE PRODUCTS

Description	Part Number	Page
DIELECTRIC GREASE	293 550 004	43, 56, 60

GENERAL

INFORMATION CENTER (GAUGE) (GTS)



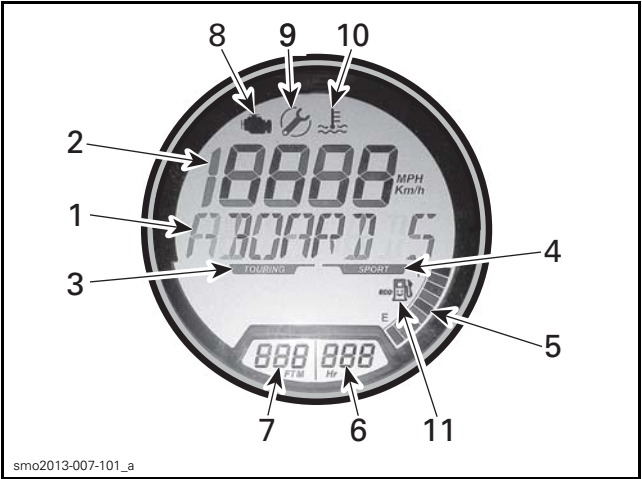
WARNING

Do not adjust the display while riding, you could lose control.



TYPICAL - GTS MODELS
1. Multifunction gauge

Multifunction Gauge Description



1) Multifunction Display

The multifunction display is used to:

- Display the WELCOME message on power up
- Display the KEY recognition message
- Display the engine RPM
- Display fault messages.

NOTE: If a fault occurs, it will periodically scroll the applicable fault message in the display and revert to the RPM indication depending on the severity of the fault detected.

2) Numerical Display

The numerical display provides an indication of estimated watercraft speed.

3) Touring Mode Indicator

When the TOURING mode indicator is ON, the default TOURING mode is active.

Refer to *OPERATING MODES* subsection for details.

4) Sport Mode Indicator

The SPORT mode indicator is normally off.

When sport mode of operation is selected, the SPORT mode indicator will come on and stay on until sport mode is deactivated, or the watercraft is shut down.

NOTE: Sport mode is not the default riding mode. To be active, it must be selected on after starting the engine.

Refer to *OPERATING MODES* subsection for detailed instructions.

5) Fuel Level Indication

A bar gauge located in the bottom RH side of the multifunction display continuously indicates the amount of fuel in the fuel tank while riding.

When the fuel tank is full, 8 segments (bars) of the indicator are turned on. The top segment is not used.

When there is only 2 segments of fuel indicated (approximately 25% fuel tank capacity or 14 L (3.7 U.S. gal.)), the following indications will come ON to advise you that a low fuel condition exists.

LOW FUEL LEVEL INDICATIONS	
Last 2 fuel gauge segments	Flashing
Fuel tank symbol	
Audible advisory (one long beep)	Periodically
Scrolling LOW FUEL advisory message	

6) Hour Meter Display

Continuously displays the accumulated engine hours.

7) Water Depth Display

The water depth display provides an indication of the lake water depth.

The system is capable of indicating water depth under the hull in single increments up to 50 m (164 ft).

NOTE: Under certain conditions, the display may stop indicating. The display's ability to provide an indication of the water's depth depends on the conditions of use.

NOTE: The water depth indication is only available when a depth sounder is installed and detected.

⚠ WARNING

Never use the depth sounder as a warning device to ride in shallow water.

8) Check Engine Light

The check engine light comes ON when a fault is detected by the engine management system.

The check engine light may be accompanied by the applicable scrolling fault message in the multifunction display.

When the check engine light comes on, contact your authorized Sea-Doo dealer.

9) Maintenance Reminder Indicator

The maintenance reminder indicator comes ON when required maintenance is due.

When this indicator comes on, bring your watercraft to your authorized Sea-Doo dealer to have it serviced and to have the maintenance reminder indicator reset.

10) High Temperature Indicator

The high temperature indicator comes ON when a high engine temperature or a high exhaust system temperature is detected. Refer to *TROUBLESHOOTING* section.

11) ECO Indicator

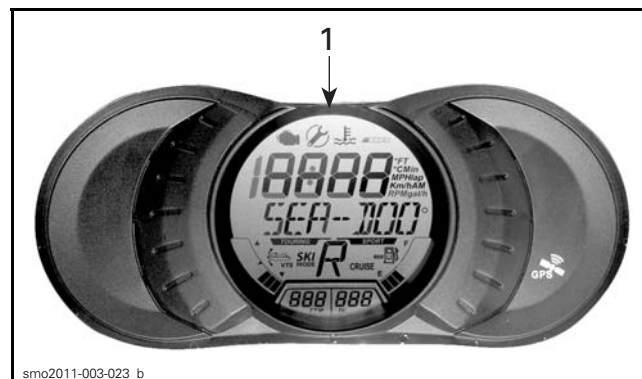
The ECO indicator and a smile in the fuel tank symbol comes ON when **FUEL ECONOMY MODE** is activated.

Refer to *OPERATING MODES* subsection for detailed instructions.

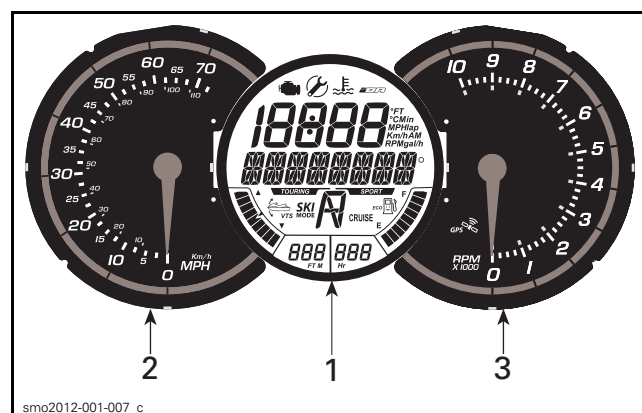
INFORMATION CENTER (GAUGES) (GTI/GTR/WAKE)

⚠ WARNING

Do not adjust the display while riding, you could lose control.



smo2011-003-023_b
TYPICAL - GTI AND GTI SE MODELS
1. Multifunction gauge



smo2012-001-007_c
TYPICAL - GTI LIMITED, GTR AND WAKE MODELS
1. Multifunction gauge
2. Analog speedometer
3. Analog tachometer

Analog Speedometer Description

The speedometer, located in the LH side of the information center, provides an analog indication of the speed of the watercraft in miles per hour (MPH) and kilometers per hour (km/h).

The speed indication is based on a GPS (Global Positioning System) incorporated within the information center.

If for some reason the GPS signal is lost, a default mode is used whereby, the speed is calculated using information received from other systems to provide an estimated watercraft speed.

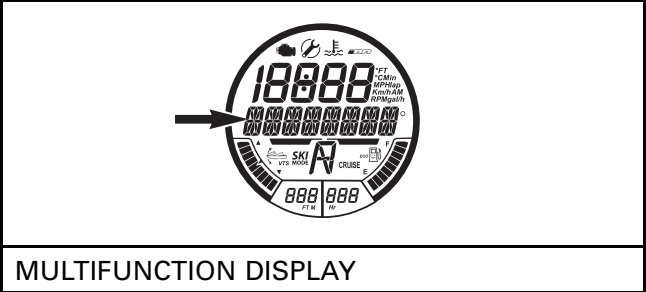
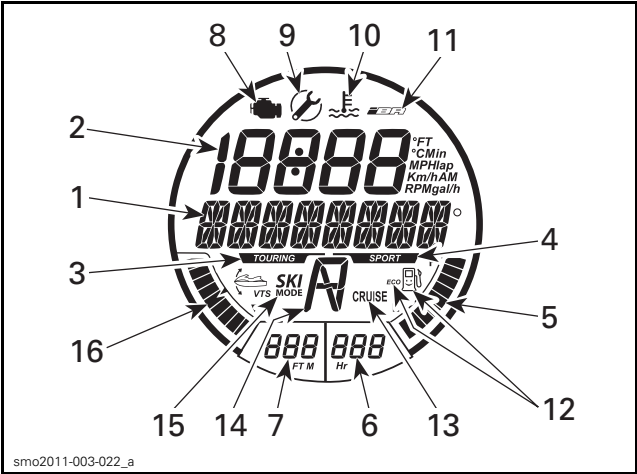
Analog Tachometer Description

The tachometer provides an analog indication of the revolutions per minute (RPM) of the engine. Multiply the indicated number by 1000 to obtain the actual engine RPM.

Multifunction Gauge Features

	GTI	GTI SE	GTI LIMITED	GTR	WAKE
Touring mode indicator	X	X	X	X	X
Sport mode indicator	X	X	X	X	X
Fuel level indication	X	X	X	X	X
Hour meter display	X	X	X	X	X
Water depth indication	Opt	Opt	Opt	Opt	Opt
ECO mode indicator	X	X	X	X	X
CRUISE mode indicator	Opt	Opt	X	Opt	X
iBR position indicator	X	X	X	X	X
SKI mode indicator	Opt	Opt	Opt	Opt	X
VTs position indication	Opt	X	X	X	X
X = Indicates a standard feature Opt = Indicates a feature available as an option					

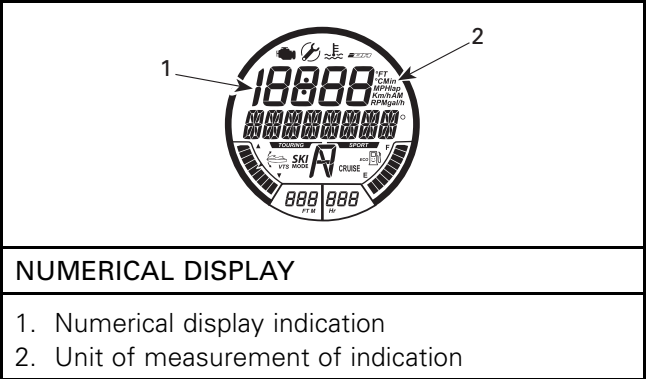
Multifunction Gauge Description



NOTE: The default indication in the multifunction display is the compass direction.

2) Numerical Display

The numerical display is used to provide a variety of indications as selected by the operator using the DISPLAY function in the multifunction display.



1) Multifunction Display

The multifunction display is used to:

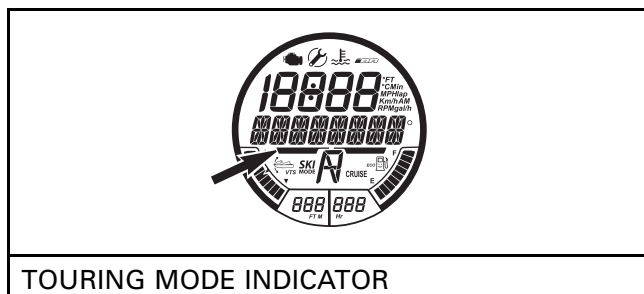
- Display the WELCOME message on power up
- Display the KEY recognition message
- Provide various indications as selected by the operator
- Activating or changing various functions or modes of operation
- Display scrolling messages of function activation or system faults
- Display fault codes.

AVAILABLE INDICATIONS IN NUMERICAL DISPLAY					
	GTI	GTI SE	GTI Limited	GTR	WAKE
Watercraft speed	Indication by default				
Engine RPM	X	X	X	X	X
Engine temperature	Opt	Opt	Opt	Opt	Opt
Clock	N.A.	X	X	X	X
Learning key settings	X	X	X	X	X
CRUISE SPEED setting	Opt	Opt	X	Opt	X
SLOW SPEED MODE setting	Opt	Opt	X	Opt	X
VTS preset	Opt	Opt	X	Opt	Opt
VTS settings	Opt	X	N.A.	X	X
SKI MODE settings	Opt	Opt	Opt	Opt	X
Fuel consumption (instant and average)	Opt	X	X	X	X
Fuel autonomy (distance and time to empty)	Opt	Opt	X	Opt	Opt
Lap timer	Opt	Opt	Opt	Opt	Opt
Top speed/RPM Average speed/RPM	Opt	Opt	Opt	Opt	Opt
Altitude	N.A.	N.A.	X	N.A.	N.A.
X = An X indicates a standard feature Opt = Feature available as an option N.A. = Not Available					

When the information center is first powered up, the numerical display defaults to the last selected indication.

3) Touring Mode Indicator

When the TOURING mode indicator is ON, the default TOURING mode of operation is active.

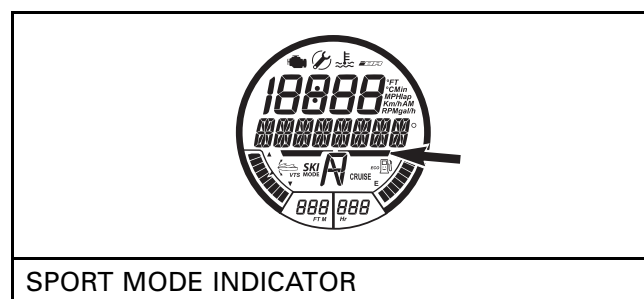


Refer to *OPERATING MODES* subsection for detailed instructions.

4) Sport Mode Indicator

The sport mode indicator is normally off.

When sport mode of operation is selected, the SPORT mode indicator will come on and stay on until sport mode is deactivated, or the watercraft is shut down.



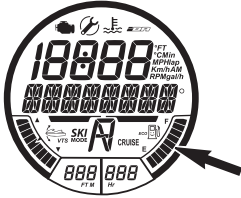
NOTE: Sport mode is not the default riding mode. To be active, it must be selected after starting the engine.

Refer to *OPERATING MODES* subsection for detailed instructions.

5) Fuel Level Indication

A bar gauge located in the bottom RH side of the multifunction display continuously indicates the amount of fuel in the fuel tank while riding.

Subsection XX (INFORMATION CENTER (GAUGE))



FUEL LEVEL INDICATION

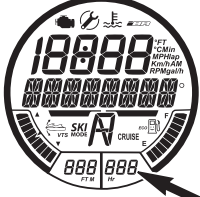
When the fuel tank is full, 8 segments (bars) of the indicator are turned on. The top segment is not used.

When there is only 2 segments of fuel indicated (approximately 25% fuel tank capacity or 14 L (3.7 U.S. gal.), the following warnings will be ON.

LOW FUEL LEVEL WARNING	
Last 2 fuel gauge segments	Flashing
Fuel tank symbol	
Audible warning (one long beep)	Periodically
Scrolling LOW FUEL WARNING message	

6) Hour Meter Display (HR)

Continuously displays the accumulated engine hours.



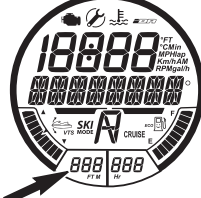
HOUR METER DISPLAY

7) Water Depth Display

The water depth display provides an indication of the lake water depth.

The system is capable of indicating water depth under the hull in single increments up to 50 m (164 ft).

NOTE: Under certain conditions, the display may stop indicating. The display's ability to provide and indication of the water's depth depends on the conditions of use.



WATER DEPTH DISPLAY

NOTE: The water depth indication is only available when a depth sounder is installed and detected.

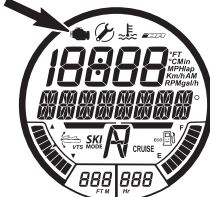


WARNING

Never use the depth sounder as a warning device to ride in shallow water.

8) Check Engine Light

The check engine light comes ON when a fault is detected by the engine management system.

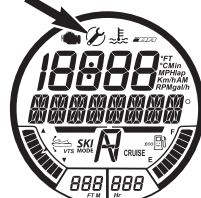


CHECK ENGINE LIGHT

When the check engine light comes on, contact your authorized Sea-Doo dealer.

9) Maintenance Reminder Indicator

The maintenance reminder indicator comes ON when required maintenance is due.

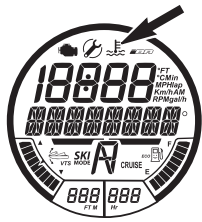


MAINTENANCE REMINDER INDICATOR

When this indicator comes on, bring your watercraft to your authorized Sea-Doo dealer to have it serviced and to have the maintenance reminder indicator reset.

10) High Temperature Indicator

The high temperature indicator comes ON when a high engine temperature or a high exhaust system temperature is detected.

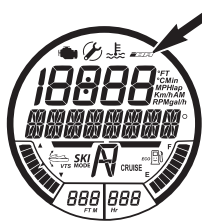


HIGH TEMPERATURE INDICATOR

Refer to *TROUBLESHOOTING* subsection for details.

11) iBR Fault Indicator

The iBR fault indicator comes ON when a fault in the iBR system has been detected.



iBR FAULT INDICATOR

Refer to *TROUBLESHOOTING* subsection for details.

12) ECO Indicator

The ECO indicator and a smile in the fuel tank symbol comes ON when **FUEL ECONOMY MODE** is activated.



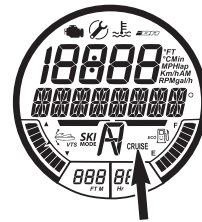
ECO MODE INDICATOR
(Fuel Economy Mode)

Refer to *OPERATING MODES* subsection for detailed instructions.

13) CRUISE Mode Indicator

The cruise mode indicator comes ON when:

- CRUISE MODE has been activated.
- SLOW SPEED MODE has been activated.



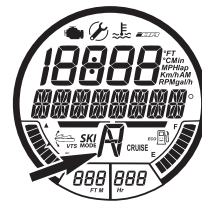
CRUISE MODE INDICATOR

Refer to *OPERATING MODES* subsection for detailed instructions.

14) iBR Position Indicator

Provides an indication of the iBR gate position.

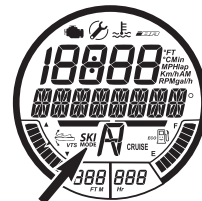
- N (neutral)
- F (forward)
- R (reverse).



iBR POSITION INDICATOR

15) SKI MODE Indicator

The ski mode indicator is ON when SKI MODE is active.



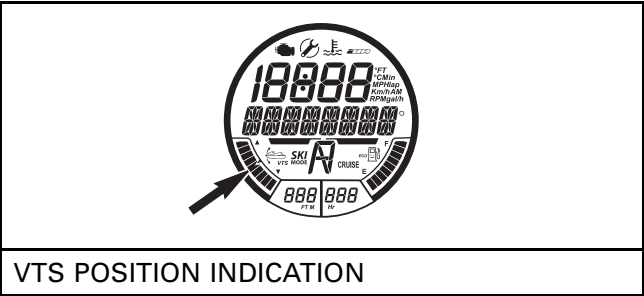
SKI MODE INDICATOR

Refer to *OPERATING MODES* subsection for detailed instructions.

16) VTS Position Indication

The VTS position indication provides an indication of the pump nozzle position.

A single segment of a bar gauge type indicator is turned on to indicate the relative position of the watercraft bow.



Refer to *OPERATING INSTRUCTIONS* subsection for detailed instructions.

Navigating the Multifunction Display

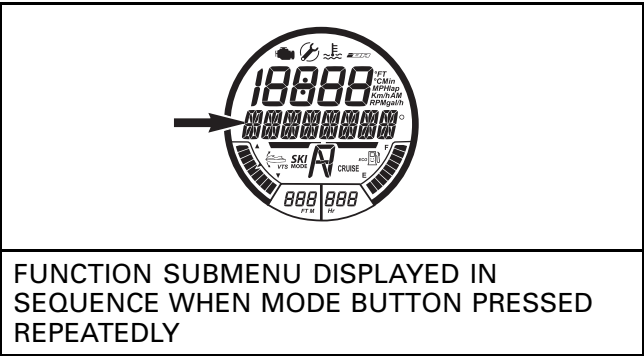
**WARNING**

Do not adjust display while riding, you could lose control.

Selecting Functions

When operating at speed, the multifunction display provides an indication of the compass direction and azimuth of the watercraft is traveling by default.

- To select the various functions available through the multifunction display, press the MODE button repeatedly until the desired function is visible:
 - LAP TIMER
 - SKI MODE
 - FUEL ECONOMY MODE
 - FUEL CONSUMPTION
 - VTS MODE
 - DISPLAY
 - FAULT CODES
 - KEY MODE
 - SETTINGS.



- Then press the SET button to enter that function.

NOTE: The available functions and the order in which they appear depends on the watercraft model. The fault code function is only available when there is an active fault. The settings function is only available when the engine is shut off. The key mode function is only available with a normal key.

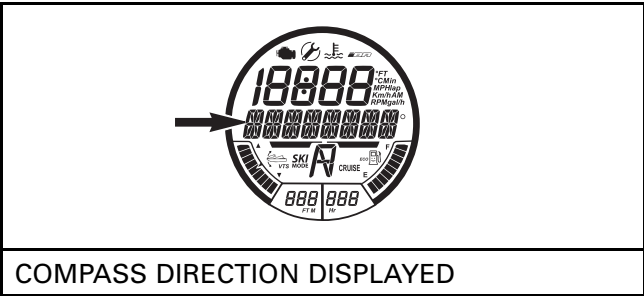
Function Description

Compass

A GPS incorporated in the information center provides the indication in the multifunction display.

The cardinal points, intermediate cardinal points, as well as the azimuth the watercraft is travelling are displayed in the multifunction display by default when the watercraft is moving.

For a compass indication to be displayed, the GPS must have a good link with the navigation satellites.



NOTE: The compass indication is only available above 5 km/h (3 MPH).

**WARNING**

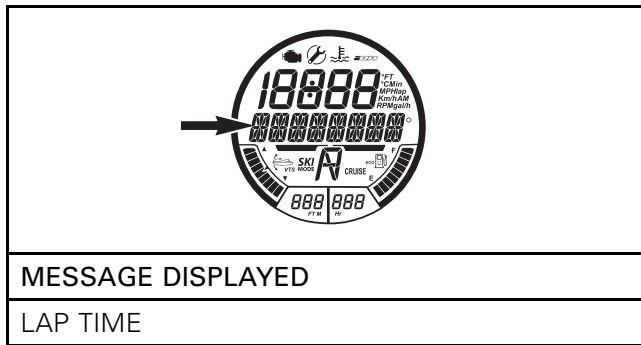
Use the compass as a guide only. Not to be used for precision navigation purposes.

Lap Timer

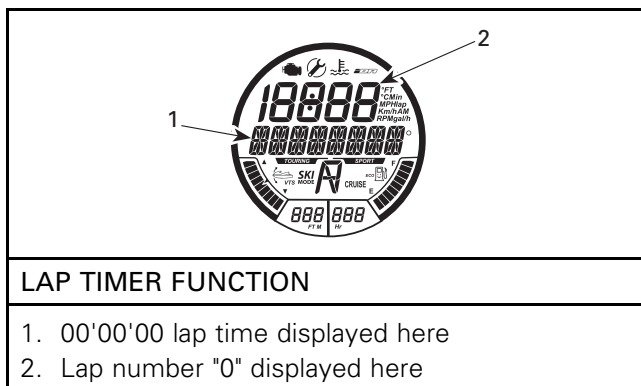
The lap timer can be used to record up to 50 individual lap times.

To activate and use the lap timer, carry out the following:

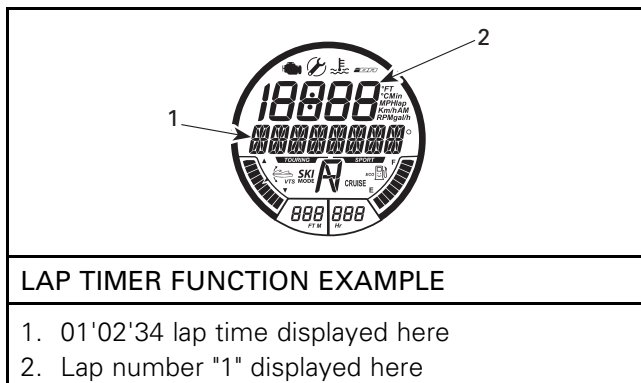
- Press the MODE button repeatedly until LAP TIME is visible in the multifunction display.



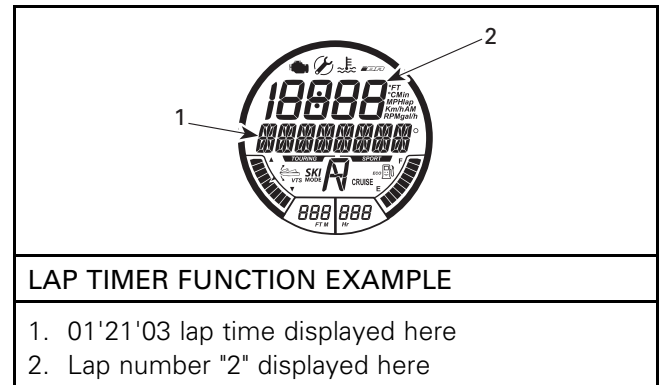
2. Press the SET button to enter the function, the lap timer will be activated and visible in the display.



3. To start the timer, press the SET button.
- NOTE:** The timer starts immediately when pressing the SET button.
4. To record each lap time, press the SET button at the start of each lap.
- NOTE:** The lap time will be recorded, the lap counter in the numerical display will count the number of laps recorded, and the timer will continue to run.

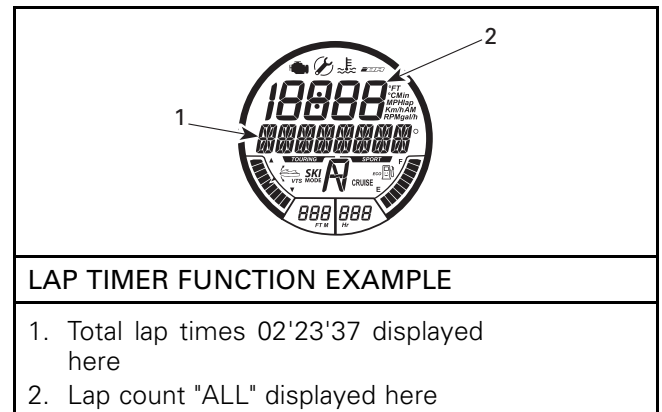


5. To save the last lap and stop the timer, press the MODE button.



To view each lap time, use the UP/DOWN button. The lap counter will indicate which lap is indicated.

To view the cumulative lap time of all laps recorded, use the UP/DOWN button until ALL is visible in the lap counter.



To reset the lap timer and lap counter, press and hold the SET button until the timer and counter are reset to 0 (zero).

Ski Mode

Ski mode is used for repeated controlled launches when towing a skier or wakeboarder. Refer to *OPERATING MODES* for more details.

ECO Mode

ECO mode is a function by which engine fuel consumption is reduced. Refer to *OPERATING MODES* subsection for detailed instructions.

Fuel Consumption

The FUEL CONSUMPTION function is used to display the watercraft fuel consumption four different ways:

- Instant fuel flow per hour (gal/h or L/h)
- Average fuel flow per hour (gal/h or L/h)
- Distance to empty (Mi or Km)
- Time to empty (h or min).

The fuel consumption functions are not continuously active.

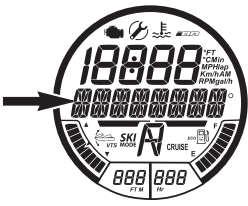
Subsection XX (INFORMATION CENTER (GAUGE))

The fuel consumption function selected becomes active only when selected as the indication in the numerical display.

When the LOW FUEL indications come on in the multifunction gauge, the "TIME TO EMPTY" and "DISTANCE TO EMPTY" functions will indicate "0" (zero) if they are the selected indication.

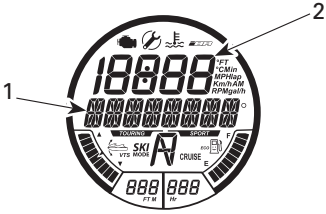
To display the watercraft fuel consumption, carry out the following:

- 1. Press the MODE button repeatedly until FUEL CONSUMPTION is visible in the multifunction display.



MESSAGE DISPLAYED
FUEL CONSUMPTION

- 2. Press the UP/DOWN button to toggle to the desired fuel consumption display mode.



FUEL CONSUMPTION DISPLAY MODE
1. INSTANT FUEL CONSUMPTION message
2. Applicable value

- 3. Press the SET button to save the setting and return to the main display.

NOTE: The fuel consumption value selected will be displayed in the numerical display. Double click the SET button to reset the average fuel consumption indication. The display will momentarily indicate zero (0).

VTS Mode

The VTS MODE function is used to manually set the VTS or change VTS PRESET settings.

Refer to *OPERATING INSTRUCTIONS* subsection for detailed instructions.

Display

The DISPLAY function is used to change the indication in the numerical display. Refer to *CHANGING NUMERICAL DISPLAY INDICATION*.

Fault Codes

The FAULT CODES function is used to display active fault codes.

Refer to *MONITORING SYSTEM* subsection for details.

Key Mode

The KEY MODE function is used for changing LEARNING key settings.

Refer to *OPERATING MODES* subsection for detailed instructions.

Settings

The SETTINGS function is used for:

- Changing the clock setting, refer to *MULTIFUNCTION GAUGE SETUP*.
- Activating the iBR override function, refer to *SPECIAL PROCEDURES*.

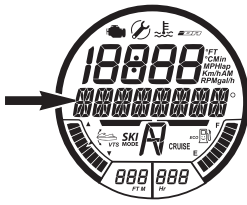
Multifunction Display Messages

For a list of usual messages that may be displayed in the multifunction display, refer to *MULTIFUNCTION DISPLAY MESSAGES* in this section.

Changing Numerical Display Indication

To change the indication in the numerical display, carry out the following:

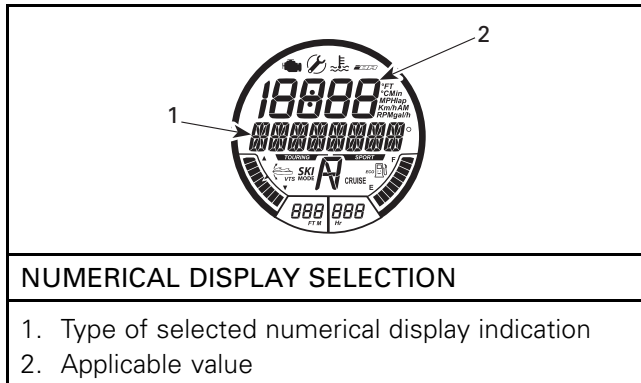
- 1. Press the MODE button on the RH handlebar repeatedly until DISPLAY is visible in the multifunction display.



MESSAGE DISPLAYED
DISPLAY

- 2. Press the SET button to enter the DISPLAY function.
- 3. Press the UP/DOWN button until the preferred indication is visible in the multifunction display (as applicable to model).
 - RPM
 - SPEED

- CLOCK
- ENGINE TEMP
- ALTITUDE
- TOP SPEED
- AVG SPEED
- TOP RPM
- AVG RPM.



4. Press the SET button to select and save the preferred indication, or wait for the display function to time out. The last indication visible will be automatically saved.

Resetting Numerical Display Indication

The following numerical display indications can be reset when selected:

- Average fuel consumption
- Top speed
- Average speed
- Top RPM
- Average RPM.

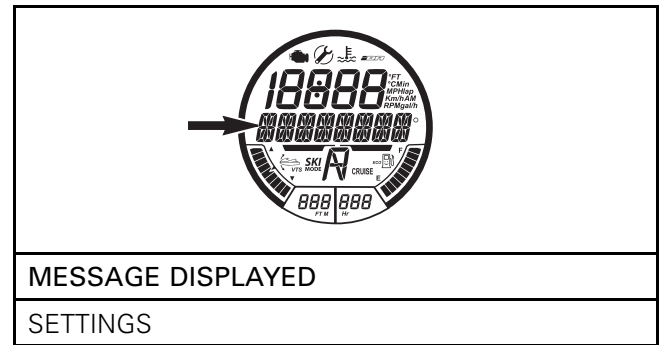
To reset the indication, double click the SET button. The numerical display will momentarily indicate zero (0).

NOTE: Each of these functions become active **ONLY** when selected as the numerical display indication.

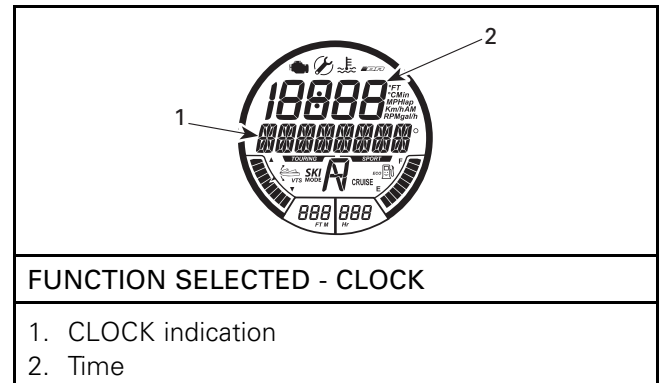
Multifunction Gauge Setup

Clock Setting

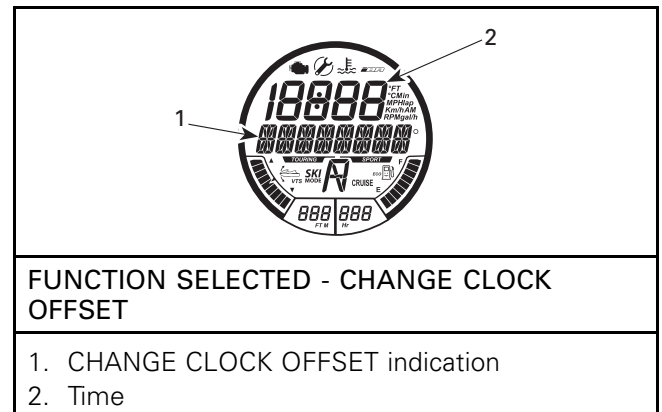
1. Press the MODE button repeatedly until SETTINGS is visible in the multifunction display.



2. Press the UP/DOWN button repeatedly until CLOCK is visible.



3. Press the SET button to enter the function. CHANGE CLOCK OFFSET message will be displayed.



4. Press the UP/DOWN button to adjust the clock to the correct local time.
5. Press the SET button to save the setting and return to the main display.

NOTE: The clock uses the GPS signal to maintain the appropriate time referenced to Greenwich Mean Time (GMT). When setting the clock, only the hour indication may be changed.

Subsection XX (INFORMATION CENTER (GAUGE))

Units of Measurement and Language Setting

The multifunction gauge is capable of displaying information in metric or imperial units and in various languages.

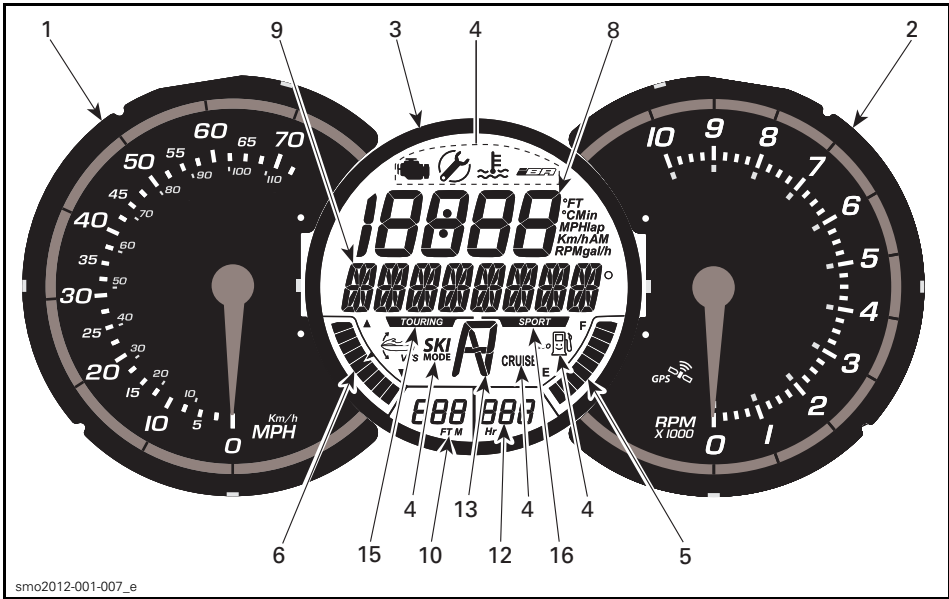
To change the units of measurement or to change the language displayed in the multifunction gauge, see your authorized Sea-Doo dealer.

INFORMATION CENTER (GTX, RXT, WAKE PRO)

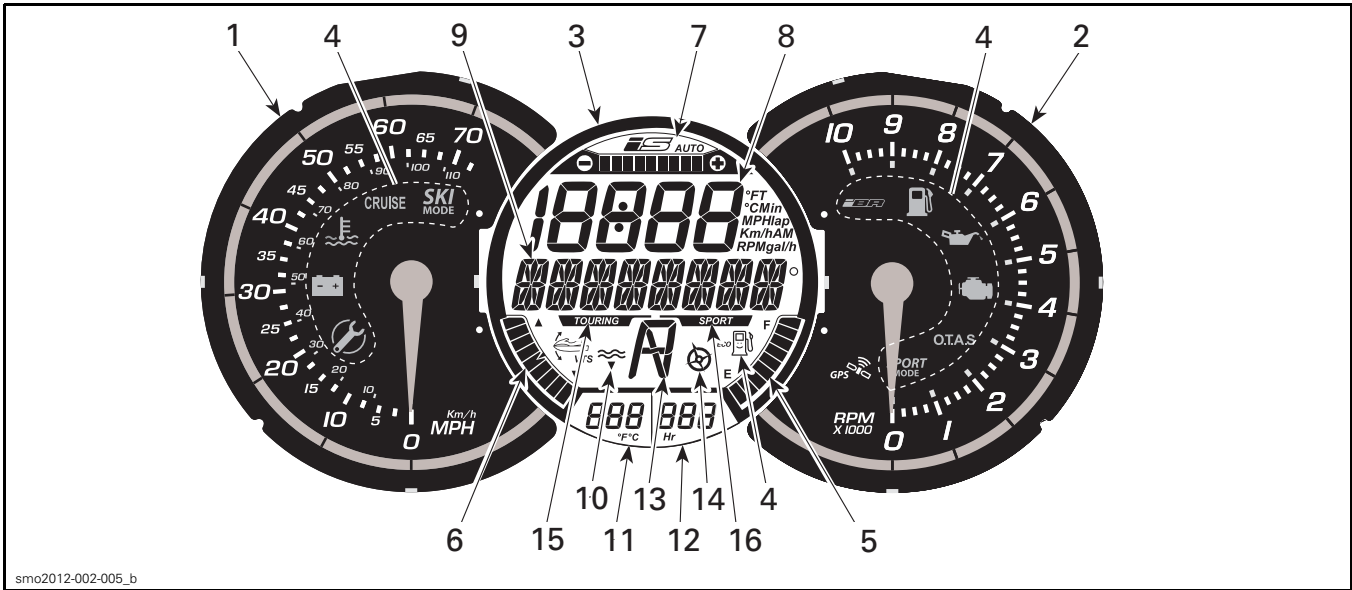
WARNING

Do not adjust the display while riding, you could lose control.

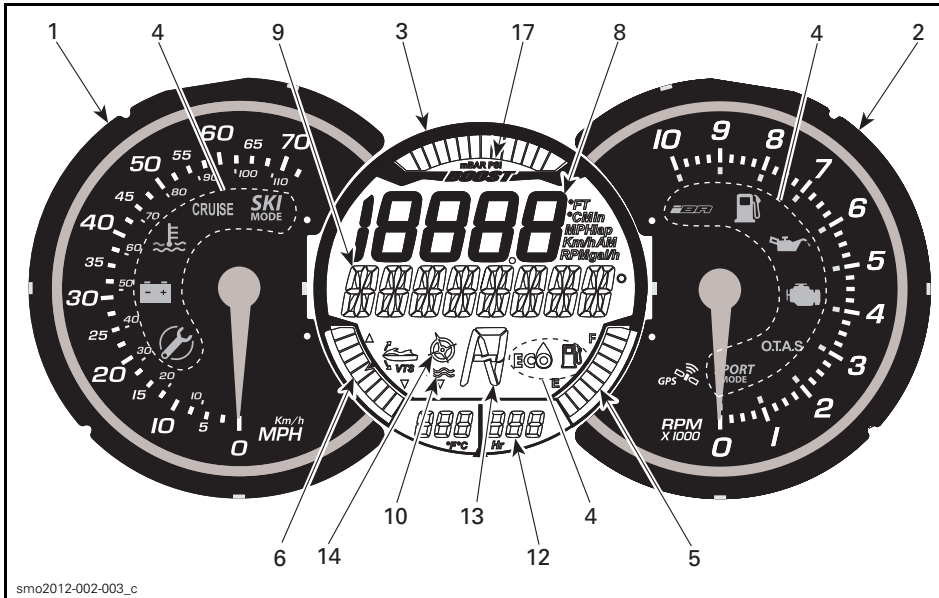
Information Center Description



GTX 155/GTX S 155



GTX 215/GTX iS LTD/WAKE PRO



RXT-X/RXT-X aS

1) Speedometer

The speedometer, located in the LH side of the information center, provides an analog indication of the speed of the watercraft in miles per hour (MPH) and kilometers per hour (km/h).

The speed indication is based on a GPS (Global Positioning System) incorporated within the information center.

If for some reason the GPS signal is lost, a default mode is used whereby, the speed is calculated using information received from other systems to provide an estimated watercraft speed.

2) Tachometer

The tachometer provides an analog indication of the revolutions per minute (RPM) of the engine. Multiply the indicated number by 1000 to obtain the actual engine RPM.

3) Multifunction Gauge

The multifunction gauge, located in the center of the information center, is capable of displaying different indications simultaneously.

Numerical and multifunction displays in the digital screen indicator can be used to display various indications, or for selecting modes of operation and changing settings as explained in their respective sections.

Subsection XX (INFORMATION CENTER (GAUGE))

Multifunction Gauge Features

	GTX 155 GTX S 155	GTX LTD iS 260	GTX 215	RXT	RXT-X/ RXT-X aS	WAKE PRO
TOURING mode indicator	X	X	X	X	N.A.	X
SPORT mode indicator	X	X	X	X	N.A.	X
Fuel level indication	X	X	X	X	X	X
Hour meter display	X	X	X	X	X	X
Water depth indication	Opt	X	Opt	Opt	Opt	Opt
ECO mode indicator	X	X	X	X	X	X
CRUISE mode indicator	X	N.A.	N.A.	N.A.	N.A.	N.A.
iBR position indicator	X	X	X	X	X	X
SKI mode indicator	Opt	N.A.	N.A.	N.A.	N.A.	N.A.
VTs position indication	X	X	X	X	X	X
Boost gauge	N.A.	N.A.	N.A.	N.A.	X	N.A.
iS indicator	N.A.	X	N.A.	N.A.	N.A.	N.A.
X = Indicates a standard feature Opt = Feature available as an option N.A. = Not Available or Not Active						

4) Indicator Lights

Indicator lights (pilot lamps), inform you of a selected function or a system anomaly.

An indicator light may be accompanied by a scrolling message in the multifunction display.

See the following table for information on the usual pilot lamps. Refer to *MONITORING SYSTEM* for details on malfunction pilot lamps.

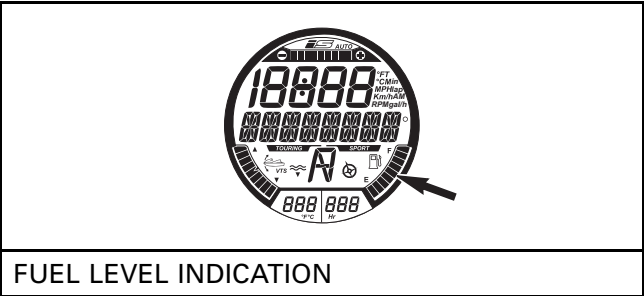
PILOT LAMPS (ON)	MESSAGE DISPLAY	DESCRIPTION
	MAINTENANCE REMINDER	Maintenance required. Bring your watercraft to your Sea-Doo dealer to have it serviced and to have the maintenance required indicator reset.
	LOW-FUEL	Low fuel level, approx. 25% tank capacity, 14 L (3.7 U.S. gal.) or fuel level sensor disconnected.
	Scrolling SLOW SPEED MODE message	CRUISE mode or SLOW SPEED MODE engaged. Refer to <i>OPERATING MODES</i> subsection.
	Scrolling SKI MODE messages	Ski Mode activated. Refer to <i>OPERATING MODES</i> subsection.
	Scrolling SPORT MODE messages	Sport Mode activated. Refer to <i>OPERATING MODES</i> subsection.
ALL MODELS EXCEPT RXT-X/RXT-X aS MODELS		

Subsection XX (INFORMATION CENTER (GAUGE))

PILOT LAMPS (ON)	MESSAGE DISPLAY	DESCRIPTION
	FUEL ECO	Fuel Economy Mode activated. Refer to <i>OPERATING MODES</i> subsection.
RXT-X/RXT-X aS		
	FUEL ECO	Fuel Economy Mode activated. Refer to <i>OPERATING MODES</i> subsection.

5) Fuel Level Indication

A bar gauge located in the bottom RH side of the multifunction display continuously indicates the amount of fuel in the fuel tank while riding.



When the fuel tank is full, 8 segments (bars) of the indicator are turned on. The top segment is not used.

Low Fuel Level Warning

It is active when there is only 2 segments of fuel indicated (approximately 25% fuel tank capacity or 14 L (3.7 U.S. gal.).

All Models Except GTX 155 and GTX S 155

LOW FUEL LEVEL WARNING		
Last 2 fuel gauge segments	ON	
Fuel tank symbol (LED)		
Audible warning (one long beep)	Periodically	
Scrolling LOW FUEL WARNING message		

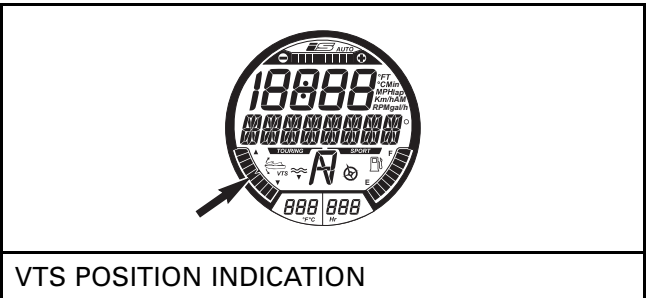
GTX 155 and GTX S 155 Models

LOW FUEL LEVEL WARNING		
Last 2 fuel gauge segments	Flashing	
Fuel tank symbol (LCD)		
Audible warning (one long beep)	Periodically	
Scrolling LOW FUEL WARNING message		

6) VTS Position

The VTS position indication located in the bottom LH side of the digital screen shows the riding attitude of the watercraft.

A single segment of a bar gauge type indicator is turned on to indicate the relative position of the watercraft bow.



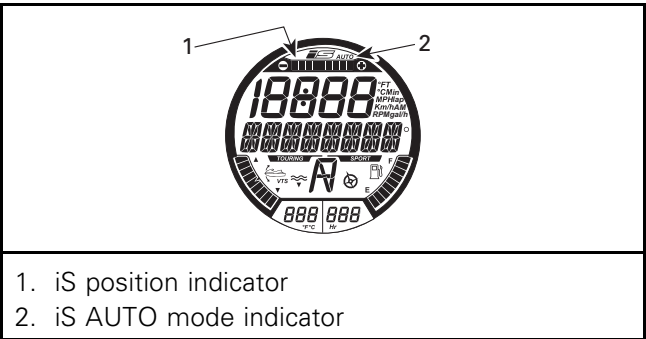
Refer to *OPERATING INSTRUCTIONS* for more details on using the VTS.

7) iS Position

GTX Ltd iS

The iS display (intelligent Suspension) provides a visual indication of the relative height of the suspension.

It also indicates if the suspension is in AUTO mode of operation.



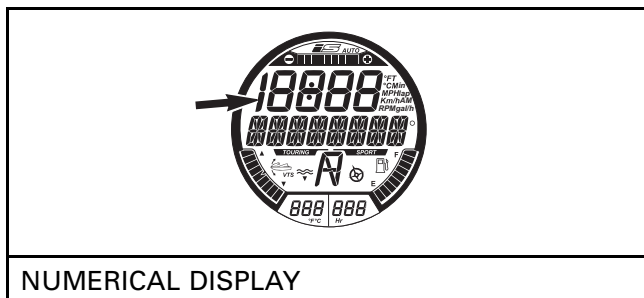
When the suspension system is operating in AUTO mode, the AUTO indicator and all bar segments of the position indicator will be on.

When the suspension height is adjusted manually using the UP/DOWN buttons (while in IS mode), the system switches to MANUAL mode of operation. The AUTO indication disappears and only one bar segment of the position indicator will be on.

Refer to *OPERATING INSTRUCTIONS* for more information on using the suspension.

8) Numerical Display

The numerical display is used to provide a variety of indications as selected by the operator using the DISPLAY function in the multifunction display.



The available indications are dependent on the watercraft model or option installed.

AVAILABLE INDICATIONS IN NUMERICAL DISPLAY	GTX 155, GTX S 155	GTX 215	GTX LTD iS		RXT	RXT-X aS, RXT-X	WAKE PRO
Watercraft speed	Indication by default						
Engine RPM	X	X	X		X	X	X
Engine temperature	Opt	Opt	Opt		Opt	X	Opt
Lake water temperature	N.A.	N.A.	X		N.A.	N.A.	N.A.
Clock	X	X	X		X	X	X
Learning key settings	X	X	X		X	X	X
CRUISE SPEED setting	X	X	X		X	Opt	X
SLOW SPEED MODE setting	X	X	X		X	Opt	X
VTS preset	Opt	Opt	X		X	X	X
VTS settings (through gauge)	X	X	N.A.		N.A.	N.A.	N.A.
SKI MODE settings	Opt	Opt	Opt		Opt	Opt	X
Fuel consumption (instant and average)	X	X	X		X	X	X
Fuel autonomy (distance and time to empty)	Opt	Opt	X		Opt	X	Opt
Lap timer	Opt	Opt	Opt		Opt	X	Opt
Top speed/RPM Average speed/RPM	Opt	Opt	Opt		Opt	X	Opt
Altitude	N.A.	N.A.	X		N.A.	N.A.	N.A.
X = An X indicates a standard feature Opt = Feature available as an option N.A. = Not Available							

When the information center is first powered up, the numerical display defaults to the last selected indication.

9) Multifunction Display

- The multifunction display is used to:
- Display the WELCOME message on power up.
 - Display the KEY recognition message.
 - Provide various indications as selected by the operator.
 - Activating and setting various functions and modes of operation.
 - Display scrolling messages of function activation or system faults.
 - Display fault codes.

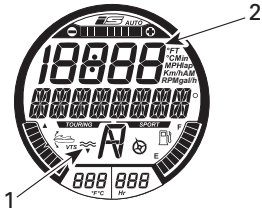
NOTE: The default indication in the multifunction display is the compass direction.

10) Water Depth Display

The water depth display provides an indication of the lake water depth.

The system is capable of indicating water depth under the hull in single increments up to 50 m (164 ft).

NOTE: Under certain conditions, the display may stop indicating. The display ability to provide an indication of the water depth depends on the conditions of use.



WATER DEPTH DISPLAY

1. Depth finder indicator
2. Water depth indication

NOTE: The water depth indication is only available when a depth sounder is installed and detected.



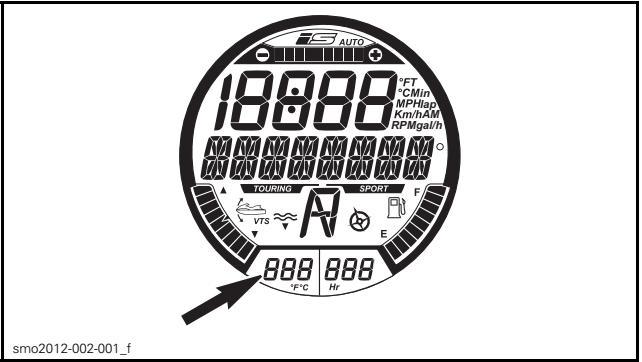
WARNING

Never use the depth sounder as a warning device to ride in shallow water.

11) Lake Water Temperature Display

GTX Limited iS Only

Continuously displays surface water temperature.

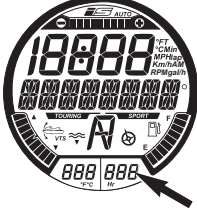


The numerical display may also be selected to display water temperature. See *NUMERICAL DISPLAY* in this section.

To change the unit of measurement (°C or °F), see your authorized Sea-Doo dealer.

12) Hour Meter Display (HR)

Continuously displays the accumulated engine hours.



HR

13) iBR Position

- Provides an indication of the iBR gate position.
- N (neutral)
 - F (forward)
 - R (reverse).



iBR

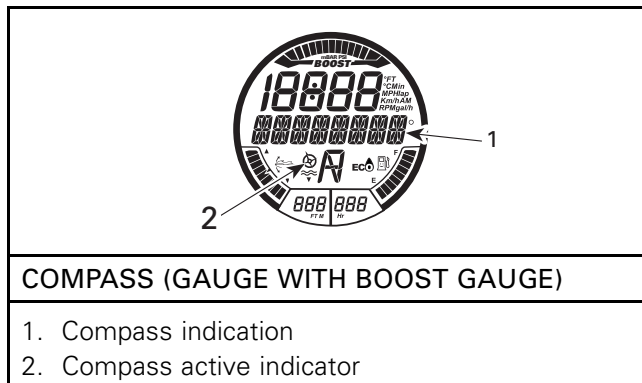
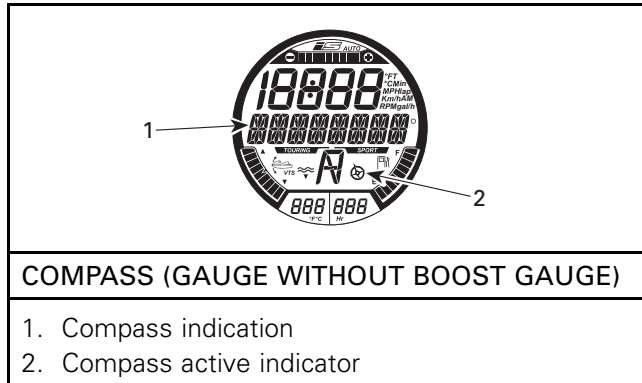
14) Compass

A GPS incorporated in the information center provides the indication in the multifunction display.

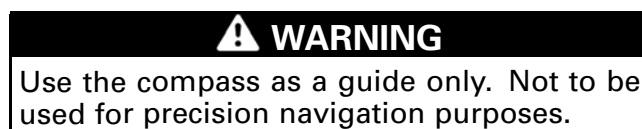
The cardinal points, intermediate cardinal points, as well as the azimuth the watercraft is travelling are displayed in the multifunction display by default when the watercraft is moving.

For a compass indication to be displayed, the GPS must have a good link with the navigation satellites.

This is confirmed when the COMPASS active indicator is visible in the digital screen.



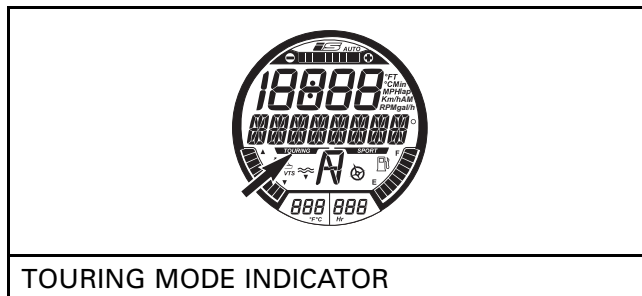
NOTE: The compass indication is only available above 5 km/h (3 MPH).



15) Touring Mode Indicator

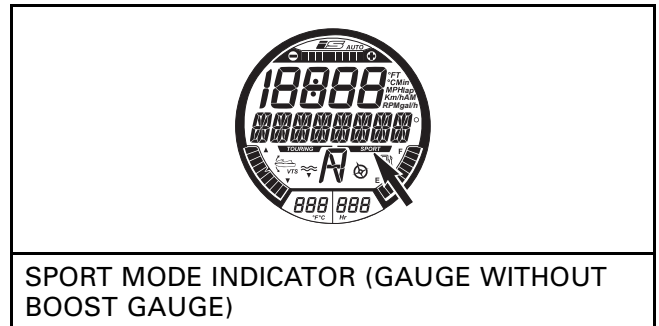
All Models Except RXT-X/RXT-X aS.

When the TOURING mode indicator is ON, the default TOURING mode is active.



For more information on the touring mode, refer to *OPERATING MODES* subsection.

16) Sport Mode Indicator



When sport mode of operation is selected, the sport mode indicator will come on and stay on until sport mode is deactivated, or the watercraft is shut down.

NOTE: The sport mode is not the default riding mode. To be active, it must be selected after starting the engine.

For instructions on how to engage sport mode, refer to *OPERATING MODES* subsection.

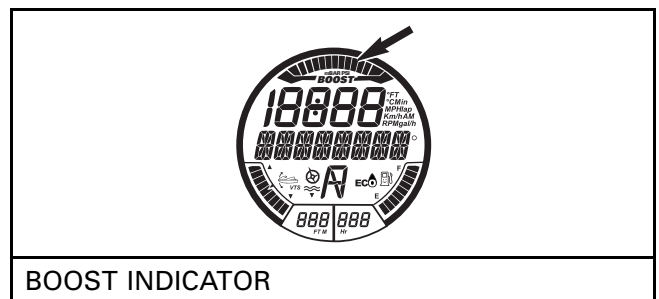
GTX LTD iS/RXT/WAKE PRO

In addition to the sport mode indicator in the multifunction display, a SPORT MODE indicator light turns ON in the tachometer.

RXT-X/RXT-X aS

There is no sport mode indicator in the multifunction display, only a SPORT MODE indicator light turns ON in the tachometer.

17) Boost Gauge



The boost gauge indicates the manifold pressure of the engine provided by the supercharger.

Navigating the Multifunction Display

When the electrical system is powered up and the cluster has completed its self test function, a WELCOME ABOARD SEA-DOO scrolling message will appear for a few seconds. After the welcome message, nothing will appear in the display until the watercraft is operated.

Subsection XX (INFORMATION CENTER (GAUGE))

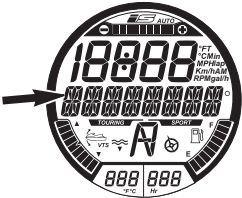
When the watercraft is being operated, the multi-function display provides an indication of compass heading or scrolling messages from the monitoring system.

The multifunction display is also used to display a menu for the selection of various functions which, permit changing the numerical display indication, system modes of operation, settings, active system fault codes, and a lap timer.



WARNING

Selecting various numerical displays, system modes of operation or changing settings should only be carried out with the watercraft stopped. Selecting these various functions while operating the watercraft at speed is not recommended as it deters your attention from situational awareness.



MULTIFUNCTION DISPLAY

NOTE: To change the unit of measurement or the language displayed, see your authorized Sea-Doo dealer.

Selecting Functions

When operating at speed, the multifunction display normally provides an indication of the compass direction and azimuth the watercraft is traveling.

To select the various functions available through the multifunction display, press the MODE button repeatedly until the desired function is visible:

- LAP TIME
- SKI MODE
- LAP TIME
- FUEL CONSUMPTION
- VTS MODE
- DISPLAY
- FAULT CODES
- KEY MODE
- SETTINGS.

Then press the SET button to enter that function.

NOTE: The fault code function is only available when there is an active fault. The settings and key mode functions are only available when the engine is shut off. The key mode function is only available with a normal key.

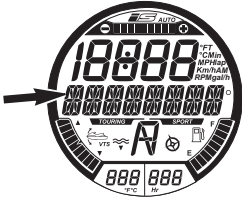
Function Description

Lap Timer

The lap timer can be used to record up to 50 individual lap times.

To activate and use the lap timer, carry out the following:

1. Press the MODE button repeatedly until LAP TIME is visible in the multifunction display.



MESSAGE DISPLAYED

LAP TIME

2. Press the SET button to enter the function, the lap timer will be activated and visible in the display.



FUNCTION SELECTED: LAP TIMER

1. Lap time
2. Lap count

3. To start the timer, press the SET button.

NOTE: The timer starts immediately when pressing the SET button.

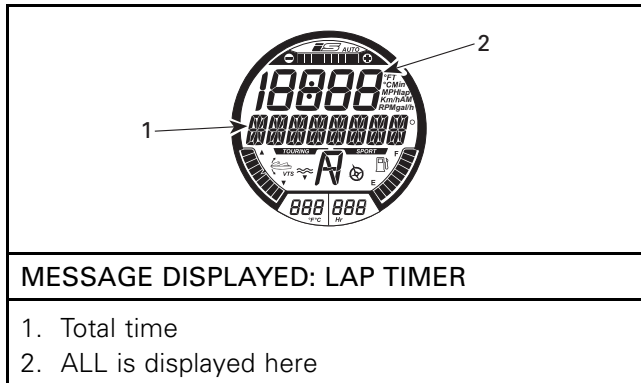
4. To record each lap time, press the SET button at the start of each lap.

NOTE: The lap time will be recorded, the lap counter in the numerical display will count the number of laps recorded, and the timer will continue to run.

5. To save the last lap and stop the timer, press the MODE button.

To view each lap time, use the UP or DOWN button. The lap counter will indicate which lap is indicated.

To view the cumulative lap time of all laps recorded, use the UP or DOWN button until ALL is visible in the lap counter.



To reset the lap timer and lap counter, press and hold the SET button until the timer and counter are reset to 0 (zero).

Ski Mode

Ski mode is used for repeated controlled launches when towing a skier or wakeboarder. Refer to *OPERATING MODES* for more details.

Fuel Consumption

The FUEL CONSUMPTION function is used to display the watercrafts fuel consumption in four different ways.

- Instant fuel flow per hour (gal/h or l/h)
- Average fuel flow per hour (gal/h or l/h)
- Distance to empty (Mi or Km)
- Time to empty (h or min).

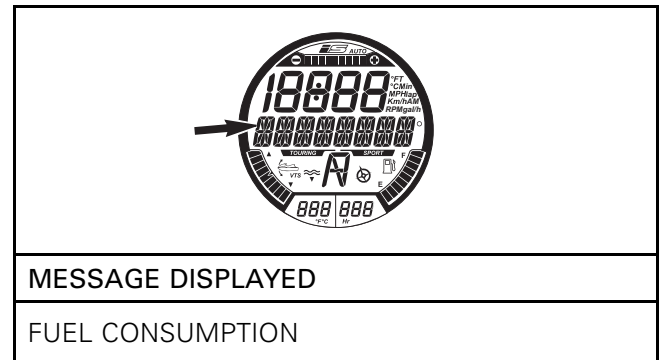
The fuel consumption functions are not continuously active.

A fuel consumption function becomes active only when selected as the indication in the numerical display.

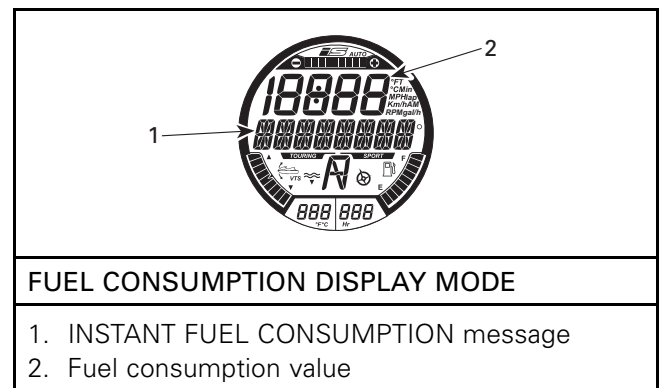
When the LOW FUEL indications come on in the multifunction gauge, the "TIME TO EMPTY" and "DISTANCE TO EMPTY" functions will indicate "0" (zero) if they are the selected indication.

To display the watercraft fuel consumption, carry out the following:

1. Press the MODE button repeatedly until FUEL CONSUMPTION is visible in the multifunction display.



2. Press the UP or DOWN button to toggle to the desired fuel consumption display mode.



3. Press the SET button to save the setting and return to the main display.

NOTE: The fuel consumption value will be displayed in the numerical display. Double click the SET button to reset the average fuel consumption indication. The display will momentarily indicate zero (0).

VTS Mode

The VTS MODE function is used to manually set the VTS or change VTS PRESET settings. Refer to *OPERATING INSTRUCTIONS* subsection for details.

Display

The DISPLAY function is used to change the indication in the numerical display. Refer to *CHANGING NUMERICAL DISPLAY INDICATION*.

Fault Codes

The FAULT CODES function is used to display active fault codes. Refer to *MONITORING SYSTEM* subsection.

Key Mode

The KEY MODE function is used for changing LEARNING key settings. Refer to *OPERATING MODES* subsection for details.

Subsection XX (INFORMATION CENTER (GAUGE))

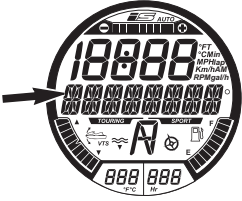
Settings

- The SETTINGS function is used for:
- Clock setting. Refer to *MULTIFUNCTION GAUGE SETUP*
 - Dock mode setting. Refer to iS (INTELLIGENT SUSPENSION) in the *SUSPENSIONS* subsection
 - iBR override function for maintenance.

Changing Numerical Display Indication

To change the indication in the numerical display, carry out the following:

1. Press the MODE button on the RH handlebar repeatedly until DISPLAY is visible in the multi-function display.



MESSAGE DISPLAYED
DISPLAY

2. Press the SET button to enter the DISPLAY function.
3. Press the UP or DOWN button until the preferred available indication appears.
 - RPM
 - SPEED
 - LAKE TEMPERATURE (only on model GTX Limited iS 260)
 - DEPTH
 - ENGINE TEMP
 - ALTITUDE (only on model Limited models only)
 - TOP SPEED
 - AVG SPEED
 - TOP RPM
 - AVG RPM
 - CLOCK.



NUMERICAL DISPLAY SELECTION
1. Type of selected numerical display indication
2. Applicable value

4. Press the SET button to select and save the preferred indication, or wait for the display function to time out. The last indication visible will be automatically saved.

The following abbreviations are used in the numerical display:

- FT or M
- RPM
- MPH or Km/h
- °F or °C
- AM or PM
- Gal/h or l/h.

Resetting Numerical Display Indication

The following numerical display indications can be reset:

- Average fuel consumption
- Top speed
- Average speed
- Top RPM
- Average RPM.

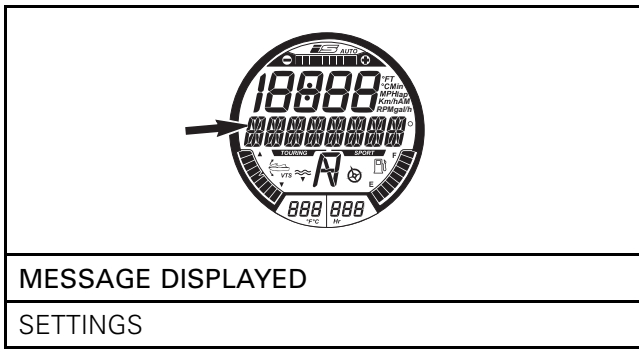
To reset indications, double click the SET button. The numerical display will momentarily indicate zero (0).

NOTE: Each of these functions become active ONLY when selected as the numerical display indication.

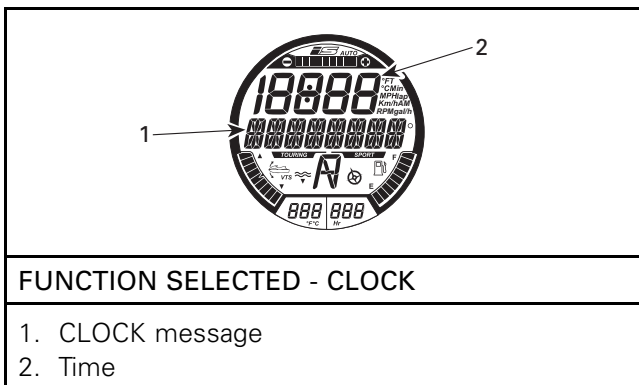
Multifunction Gauge Setup

Changing Clock Setting

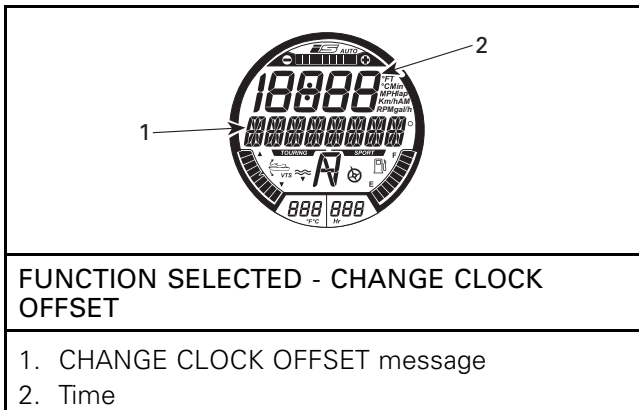
1. Press the MODE button repeatedly until SETTINGS is visible in the multifunction display.



2. Press the UP or DOWN button repeatedly until CLOCK is visible.



3. Press the SET button to enter the function. CHANGE CLOCK OFFSET message will be displayed.



4. Press the UP or DOWN button to adjust the clock to the correct local time.
5. Press the SET button to save the setting and return to the main display.

NOTE: The clock uses the GPS signal to maintain the appropriate time referenced to Greenwich Mean Time (GMT). When setting the clock, only the hour indication may be changed.

Units of Measurement and Language Setting

The multifunction gauge is capable of displaying information in metric or imperial units and in various languages.

To change the units of measurement or to change the language displayed in the multifunction gauge, see your authorized Sea-Doo dealer.

Multifunction Display Messages

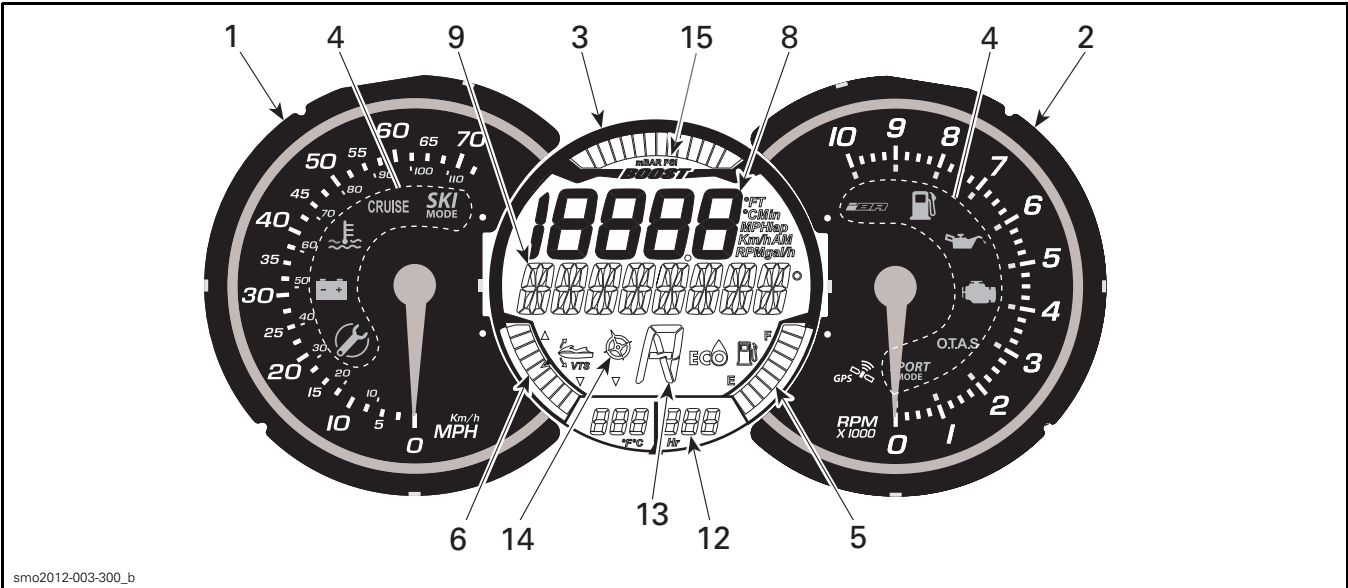
For a list of usual messages that may be displayed in the multifunction display, refer to *MULTIFUNCTION DISPLAY MESSAGES* in this section.

INFORMATION CENTER (RXP-X)

⚠ WARNING

Do not adjust the display while riding, you could lose control.

Information Center Description



RXP-X

1) Speedometer

The speedometer, located in the LH side of the information center, provides an analog indication of the speed of the watercraft in miles per hour (MPH) and kilometers per hour (km/h).

The speed indication is based on a GPS (Global Positioning System) incorporated within the information center.

If for some reason the GPS signal is lost, a default mode is used whereby, the speed is calculated using information received from other systems to provide an estimated watercraft speed.

2) Tachometer

The tachometer provides an analog indication of the revolutions per minute (RPM) of the engine. Multiply the indicated number by 1000 to obtain the actual engine RPM.

3) Multifunction Gauge

The multifunction gauge, located in the center of the information center, is capable of displaying different indications simultaneously.

Numerical and multifunction displays in the digital screen indicator can be used to display various indications, or for selecting modes of operation and changing settings as explained in their respective sections.

Multifunction Gauge Features

	RXP-X
Fuel level indication	X
Hour meter display	X
Water depth indication	Opt
ECO mode indicator	X
VTS position indication	X
Compass	X
Boost Gauge	X
X = An X indicates a standard feature Opt = Feature available as an option	

4) Indicator Lights

Indicator lights (pilot lamps), inform you of a selected function or a system anomaly.

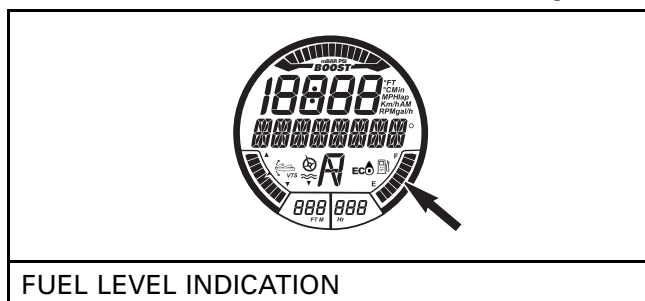
An indicator light may be accompanied by a scrolling message in the multifunction display.

See the following table for information on the usual pilot lamps. Refer to *MONITORING SYSTEM* for details on malfunction pilot lamps.

PILOT LAMPS (ON)	MESSAGE DISPLAY	DESCRIPTION
	MAINTENANCE REMINDER	Maintenance required. Bring your watercraft to your Sea-Doo dealer to have it serviced and to have the maintenance required indicator reset.
	LOW-FUEL	Low fuel level, approx. 25% tank capacity, 14 L (3.7 U.S. gal.) or fuel level sensor disconnected.
	No message	Feature not active on this model.
	No message	Feature not active on this model.
	Scrolling SPORT MODE messages	Sport Mode activated. Refer to <i>OPERATING MODES</i> subsection.

5) Fuel Level Indication

A bar gauge located in the bottom RH side of the multifunction display continuously indicates the amount of fuel in the fuel tank while riding.



When the fuel tank is full, 8 segments (bars) of the indicator are turned on. The top segment is not used.

Low Fuel Level Warning

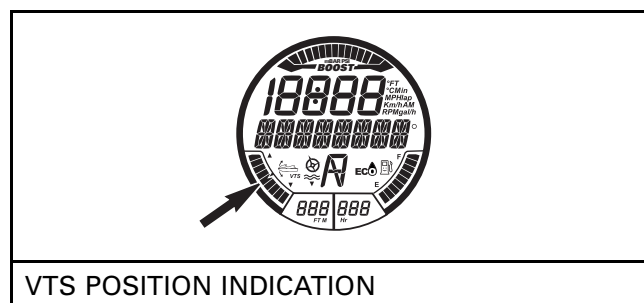
It is active when there is only 2 segments of fuel indicated (approximately 25% fuel tank capacity or 14 L (3.7 U.S. gal.).

LOW FUEL LEVEL WARNING	
Last 2 fuel gauge segments	Flashing
Fuel tank symbol (LCD)	
Audible warning (one long beep)	Periodically
Scrolling LOW FUEL WARNING message	

6) VTS Position

The VTS position indication located in the bottom LH side of the digital screen shows the riding attitude of the watercraft.

A single segment of a bar gauge type indicator is turned on to indicate the relative position of the watercraft bow.



Refer to *OPERATING INSTRUCTIONS* for more details on using the VTS.

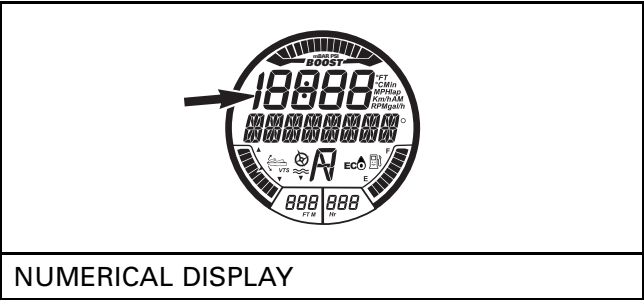
7) iS Position

Not available for this model.

8) Numerical Display

The numerical display is used to provide a variety of indications as selected by the operator using the DISPLAY function in the multifunction display.

Subsection XX (INFORMATION CENTER (GAUGE))



The available indications are dependent on the watercraft model or option installed.

AVAILABLE INDICATIONS IN NUMERICAL DISPLAY	RXP-X
Watercraft speed	Indication by default
Engine RPM	X
Engine temperature	X
Lake water temperature	N.A.
Clock	X
Learning key settings	X
CRUISE SPEED setting	Opt
SLOW SPEED MODE setting	Opt
VTS preset	X
VTS settings (through gauge)	N.A.
SKI MODE settings	N.A.
Fuel consumption (instant and average)	X
Fuel autonomy (distance and time to empty)	X
Lap timer	X
Top speed/RPM Average speed/RPM	X
Altitude	N.A.
X = An X indicates a standard feature Opt = Feature available as an option N.A. = Not Available	

When the information center is first powered up, the numerical display defaults to the last selected indication.

9) Multifunction Display

The multifunction display is used to:

- Display the WELCOME message on power up.
- Display the KEY recognition message.
- Provide various indications as selected by the operator.

- Activating and setting various functions and modes of operation.
- Display scrolling messages of function activation or system faults.
- Display fault codes.

NOTE: The default indication in the multifunction display is the compass direction.

10) Water Depth Display

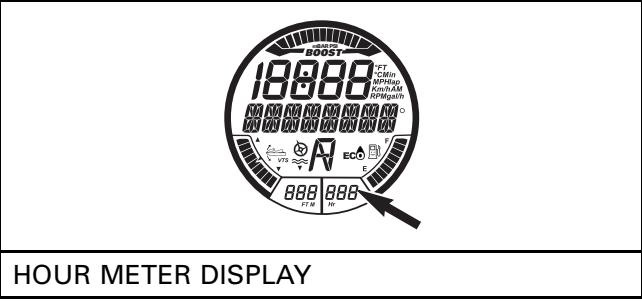
Not available for this model.

11) Water Temperature Display

Not available for this model.

12) Hour Meter Display (HR)

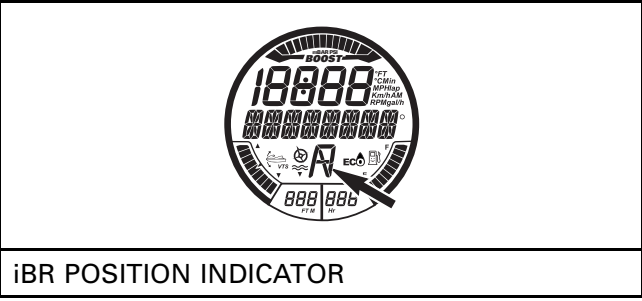
Continuously displays the accumulated engine hours.



13) iBR Position

Provides an indication of the iBR gate position.

- N (neutral)
- F (forward)
- R (reverse).



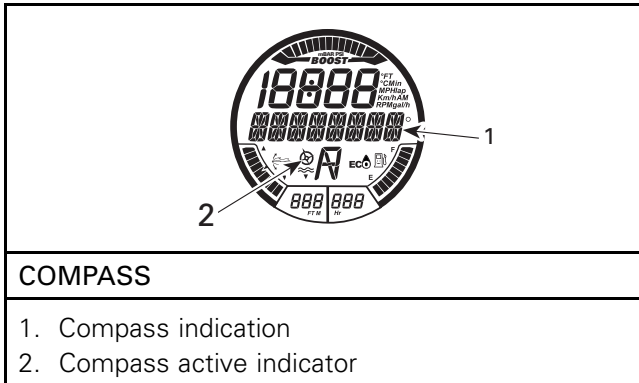
14) Compass

A GPS incorporated in the information center provides the indication in the multifunction display.

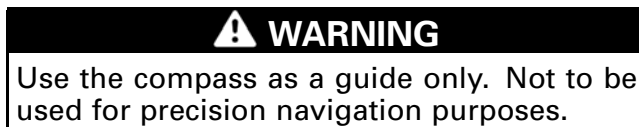
The cardinal points, intermediate cardinal points, as well as the azimuth the watercraft is travelling are displayed in the multifunction display by default when the watercraft is moving.

For a compass indication to be displayed, the GPS must have a good link with the navigation satellites.

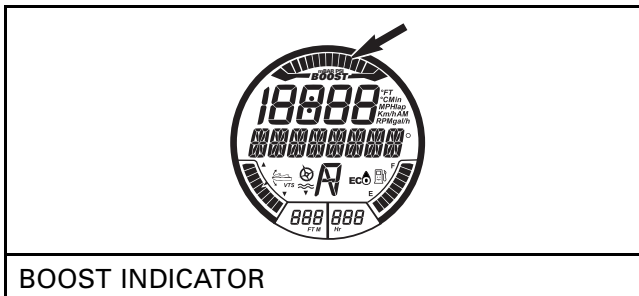
This is confirmed when the COMPASS active indicator is visible in the digital screen.



NOTE: The compass indication is only available above 5 km/h (3 MPH).



15) Boost Gauge



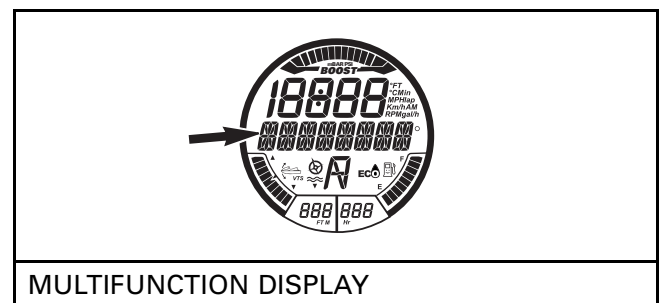
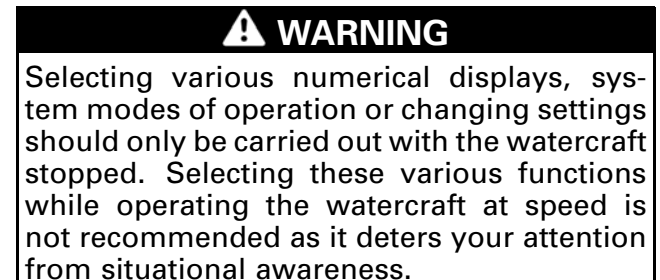
The boost gauge indicates the manifold pressure of the engine provided by the supercharger.

Navigating the Multifunction Display

When the electrical system is powered up and the cluster has completed its self test function, a WELCOME ABOARD SEA-DOO scrolling message will appear for a few seconds. After the welcome message, nothing will appear in the display until the watercraft is operated.

When the watercraft is being operated, the multifunction display provides an indication of compass heading or scrolling messages from the monitoring system.

The multifunction display is also used to display a menu for the selection of various functions which, permit changing the numerical display indication, system modes of operation, settings, active system fault codes, and a lap timer.



NOTE: To change the unit of measurement or the language displayed, see your authorized Sea-Doo dealer.

Selecting Functions

When operating at speed, the multifunction display normally provides an indication of the compass direction and azimuth the watercraft is traveling.

To select the various functions available through the multifunction display, press the MODE button repeatedly until the desired function is visible:

- LAP TIME
- FUEL CONSUMPTION
- VTS MODE
- DISPLAY
- FAULT CODES
- KEY MODE
- SETTINGS.

Then press the SET button to enter that function.

NOTE: The fault code function is only available when there is an active fault. The settings function is only available when the engine is shut off. The key mode function is only available with a normal key.

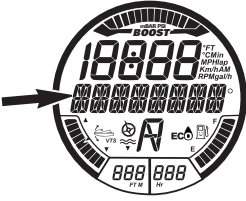
Function Description

Lap Timer

The lap timer can be used to record up to 50 individual lap times.

To activate and use the lap timer, carry out the following:

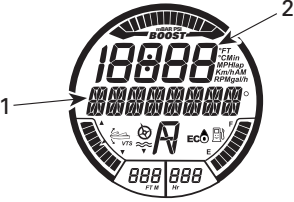
- 1. Press the MODE button repeatedly until LAP TIME is visible in the multifunction display.



MESSAGE DISPLAYED

LAP TIME

- 2. Press the SET button to enter the function, the lap timer will be activated and visible in the display.



FUNCTION SELECTED: LAP TIMER

1. Lap time
2. Lap count

- 3. To start the timer, press the SET button.

NOTE: The timer starts immediately when pressing the SET button.

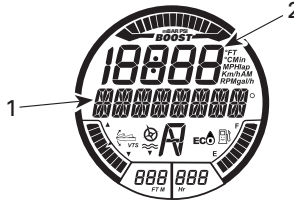
- 4. To record each lap time, press the SET button at the start of each lap.

NOTE: The lap time will be recorded, the lap counter in the numerical display will count the number of laps recorded, and the timer will continue to run.

- 5. To save the last lap and stop the timer, press the MODE button.

To view each lap time, use the UP or DOWN button. The lap counter will indicate which lap is indicated.

To view the cumulative lap time of all laps recorded, use the UP or DOWN button until ALL is visible in the lap counter.



MESSAGE DISPLAYED: LAP TIMER

1. Total time
2. ALL is displayed here

To reset the lap timer and lap counter, press and hold the SET button until the timer and counter are reset to 0 (zero).

Fuel Consumption

The FUEL CONSUMPTION function is used to display the watercrafts fuel consumption in four different ways.

- Instant fuel flow per hour (gal/h or l/h)
- Average fuel flow per hour (gal/h or l/h)
- Distance to empty (Mi or Km)
- Time to empty (h or min).

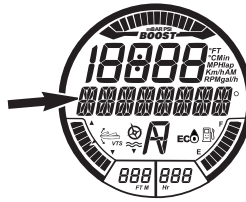
The fuel consumption functions are not continuously active.

A fuel consumption function becomes active only when selected as the indication in the numerical display.

When the LOW FUEL indications come on in the multifunction gauge, the "TIME TO EMPTY" and "DISTANCE TO EMPTY" functions will indicate "0" (zero) if they are the selected indication.

To display the watercraft fuel consumption, carry out the following:

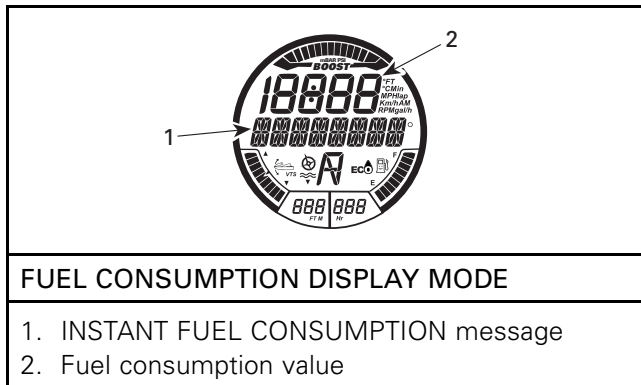
- 1. Press the MODE button repeatedly until FUEL CONSUMPTION is visible in the multifunction display.



MESSAGE DISPLAYED

FUEL CONSUMPTION

- 2. Press the UP or DOWN button to toggle to the desired fuel consumption display mode.



3. Press the SET button to save the setting and return to the main display.

NOTE: The fuel consumption value will be displayed in the numerical display. Double click the SET button to reset the average fuel consumption indication. The display will momentarily indicate zero (0).

VTS Mode

The VTS MODE function is used to manually set the VTS or change VTS PRESET settings. Refer to *OPERATING INSTRUCTIONS* subsection for details.

Display

The DISPLAY function is used to change the indication in the numerical display. Refer to *CHANGING NUMERICAL DISPLAY INDICATION*.

Fault Codes

The FAULT CODES function is used to display active fault codes. Refer to *MONITORING SYSTEM* subsection.

Key Mode

The KEY MODE function is used for changing LEARNING key settings. Refer to *OPERATING MODES* subsection for details.

Settings

The SETTINGS function is used for:

- Clock setting. Refer to *MULTIFUNCTION GAUGE SETUP*
- iBR override function for maintenance.

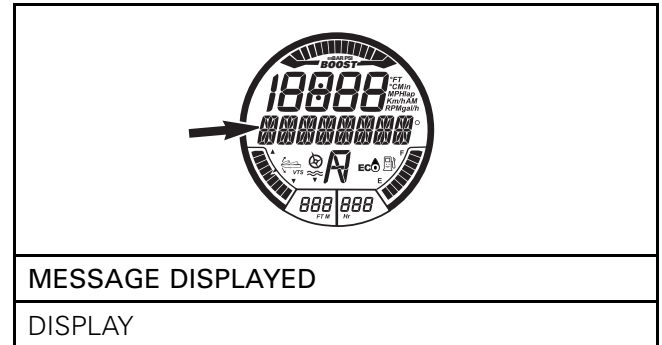
Multifunction Display Messages

For a list of usual messages that may be displayed in the multifunction display, refer to *MULTIFUNCTION DISPLAY MESSAGES* in this section.

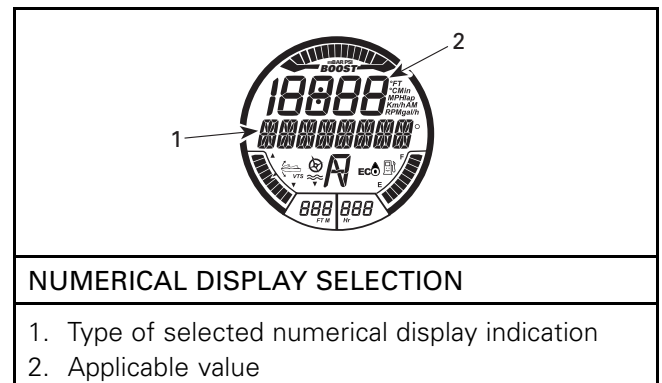
Changing Numerical Display Indication

To change the indication in the numerical display, carry out the following:

1. Press the MODE button on the RH handlebar repeatedly until DISPLAY is visible in the multifunction display.



2. Press the SET button to enter the DISPLAY function.
3. Press the UP or DOWN button until the preferred indication appears.
 - RPM
 - SPEED
 - ENGINE TEMP
 - TOP SPEED
 - AVG SPEED
 - TOP RPM
 - AVG RPM
 - CLOCK.



4. Press the SET button to select and save the preferred indication, or wait for the display function to time out. The last indication visible will be automatically saved.

The following abbreviations are used in the numerical display:

- FT or M
- RPM
- MPH or Km/h
- °F or °C

Subsection XX (INFORMATION CENTER (GAUGE))

- AM or PM
- Gal/h or l/h.

Resetting Numerical Display Indication

The following numerical display indications can be reset:

- Average fuel consumption
- Top speed
- Average speed
- Top RPM
- Average RPM.

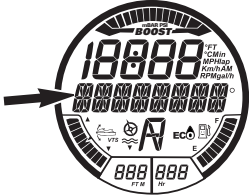
To reset indications, double click the SET button. The numerical display will momentarily indicate zero (0).

NOTE: Each of these functions become active ONLY when selected as the numerical display indication.

Multifunction Gauge Setup

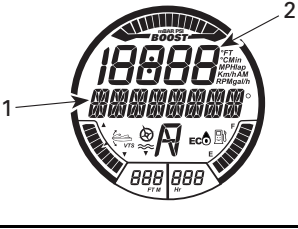
Changing Clock Setting

1. Press the MODE button repeatedly until SETTINGS is visible in the multifunction display.



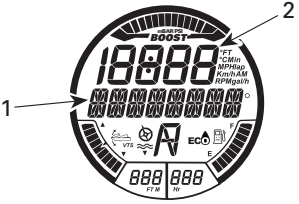
MESSAGE DISPLAYED
SETTINGS

2. Press the UP or DOWN button repeatedly until CLOCK is visible.



FUNCTION SELECTED - CLOCK
1. CLOCK message
2. Time

3. Press the SET button to enter the function. CHANGE CLOCK OFFSET message will be displayed.



FUNCTION SELECTED - CHANGE CLOCK OFFSET
1. CHANGE CLOCK OFFSET message
2. Time

4. Press the UP or DOWN button to adjust the clock to the correct local time.
5. Press the SET button to save the setting and return to the main display.

NOTE: The clock uses the GPS signal to maintain the appropriate time referenced to Greenwich Mean Time (GMT). When setting the clock, only the hour indication may be changed.

Units of Measurement and Language Setting

The multifunction gauge is capable of displaying information in metric or imperial units and in various languages.

To change the units of measurement or to change the language displayed in the multifunction gauge, see your authorized Sea-Doo dealer.

OPERATING MODES

Touring Mode

By default, the watercraft is in TOURING mode of operation when first started.

A TOURING mode indicator is ON in the multifunction gauge to confirm the active mode of operation.

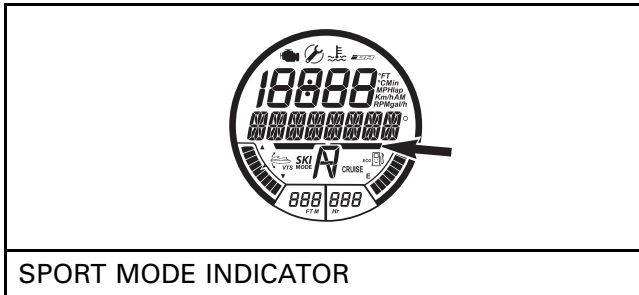


TOURING MODE INDICATOR

Sport Mode

When selected, SPORT MODE provides for instant throttle response and more rapid accelerations than TOURING MODE.

A SPORT mode indicator is ON in the multifunction gauge to confirm the active mode of operation.



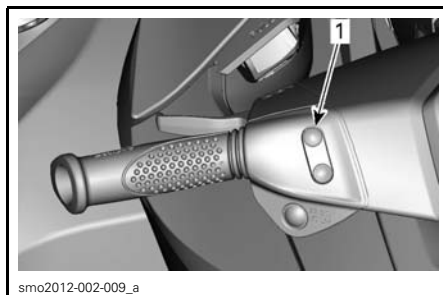
Once activated, SPORT MODE will remain active until it is deactivated by the operator, or the engine is shut down whereby it defaults back to TOURING MODE.

Activating Sport Mode

To activate sport mode while riding at speed, carry out the following:

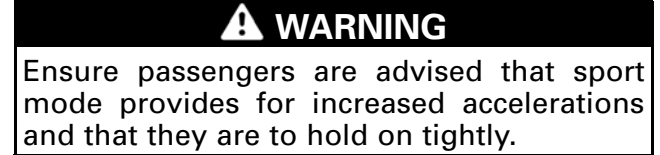
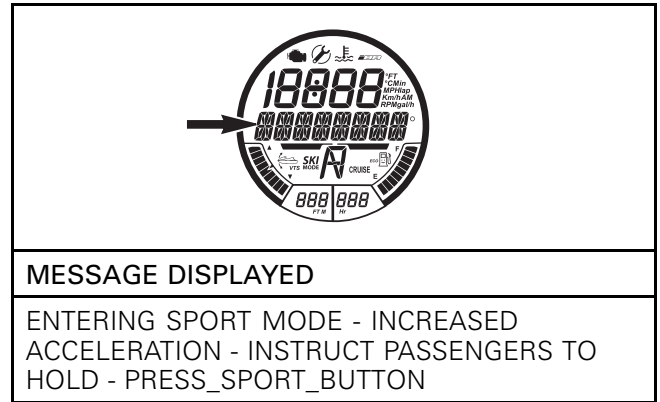


1. Depress and hold the SPORT button for at least 3 seconds.



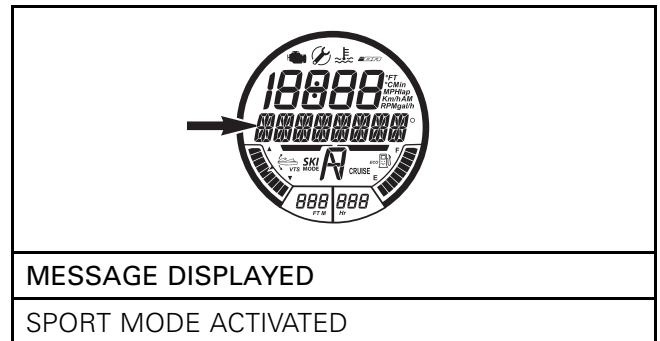
TYPICAL
1. Sport button

NOTE: The following important message will scroll across the multifunction display:



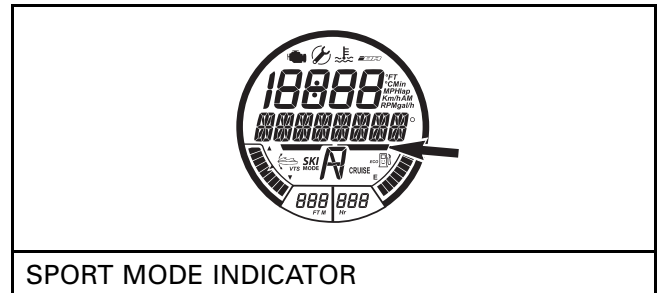
2. Press the SPORT button again to activate sport mode.

A scrolling SPORT MODE ACTIVATED message will momentarily confirm that sport mode has been activated.



NOTE: After a few seconds, the gauge will revert to its normal display.

3. Ensure the SPORT mode indicator is turned on.



NOTE: The SPORT mode indicator will come on and stay on as long as sport mode is active.

Deactivating Sport Mode

To deactivate sport mode while riding at speed, carry out the following:

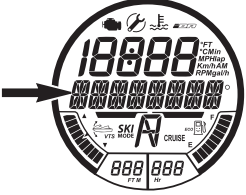


WARNING

When deactivating sport mode, be sure to maintain situational awareness of other watercraft, obstacles, or persons in the water.

1. Depress and hold the SPORT button for at least 3 seconds.

NOTE: The following message will scroll in the multifunction display: SPORT MODE DEACTIVATED.

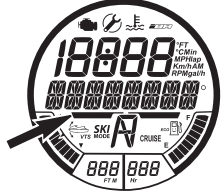


MESSAGE DISPLAYED

SPORT MODE DEACTIVATED

NOTE: After a few seconds, the gauge will revert to its normal display.

2. Ensure the TOURING mode indicator is on.

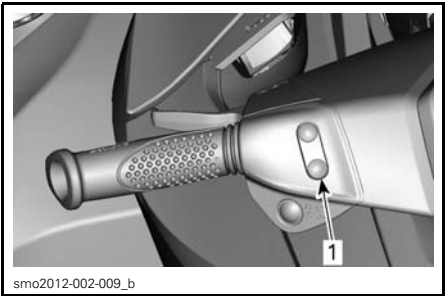


TOURING MODE INDICATOR

ECO Mode
(Fuel Economy Mode)

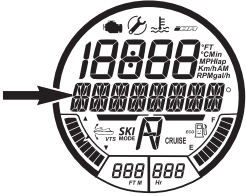
How to Activate ECO Mode

1. Depress the Eco button for at least 3 seconds.



TYPICAL
1. ECO button

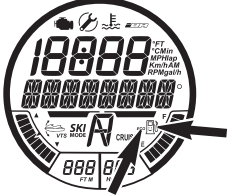
The following message will be displayed on the multifunction display:



MESSAGE DISPLAYED

ECO MODE

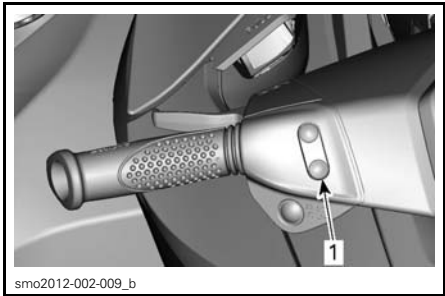
The ECO mode indicator will also be activated.



ECO MODE INDICATORS
(Fuel Economy Mode)

How to Deactivate ECO Mode

1. Depress the Eco button for at least 3 seconds.



TYPICAL
1. Eco button

The ECO mode indicator will be deactivated.

Cruise Mode

Cruise mode is a function of iTC (intelligent Throttle Control) system that allows the operator to set the desired maximum watercraft speed.

This is useful when cruising for long distances, operating in limited speed zones, or towing a tuber, skier or wake boarder.

Cruise mode only limits forward speed, the operator must keep the throttle depressed to maintain forward speed.

Once the maximum cruise speed is set, the operator can vary the watercraft speed from idle speed up to the set cruise speed using the throttle lever. The set cruise speed will not be exceeded even if the throttle lever is fully depressed.

As you proceed under a constant cruising speed setting, keep your attention level up to maintain good situational awareness.

Slowing down is a matter of releasing the throttle lever further than the set point, or by pulling the iBR lever in.

If the iBR lever is pulled in for braking, CRUISE mode is overridden but **not deactivated**.

Once the iBR lever is released and the throttle is pulled in to engage forward position, the cruise function will reengage to limit the watercraft speed as it was set before.

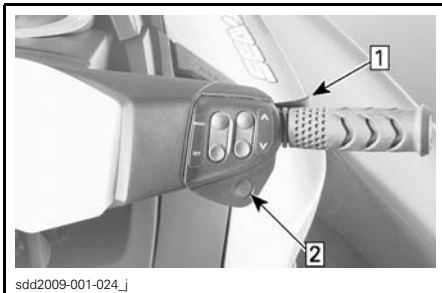
NOTE: Cruise mode is **not** available if slow speed mode or ski mode mode is engaged.

Cruise Mode Activation at Idle Speed

NOTE: This function is available up to approximately 10 km/h (6 MPH).

To activate and preset CRUISE MODE at idle speed, carry out the following:

1. Tap the throttle lever to move the iBR to the forward position.
2. Press and hold the cruise button.

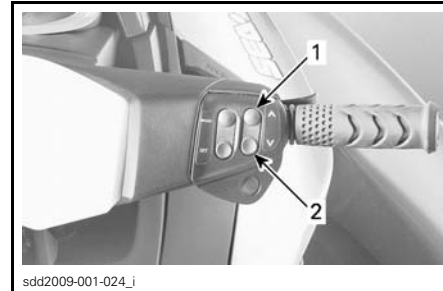


ENGAGING CRUISE AT IDLE
Step 1: Tap throttle to engage FORWARD
Step 2: Press cruise button

The following message will appear in the multi-function display.

MESSAGE DISPLAYED
CRUISE MODE _ SELECT SPEED _ PRESS SET TO ACCEPT OR MODE TO EXIT

3. Press the UP button until the desired cruise speed is indicated in the numerical display.



1. UP button
2. DOWN button

The following will be displayed in the multifunction gauge.

FUNCTION SELECTED - CRUISE MODE
1. CRUISE MODE _ SPEED ADJUSTING
2. Cruise speed set point indication

4. Press the SET button to save the cruise speed selected and engage cruise mode. The following scrolling message will appear in the multi-function display.

MESSAGE DISPLAYED
CRUISE MODE ACTIVE

A beep indicating that you are now in cruise mode will sound, and a CRUISE indicator will come on in the multifunction gauge.

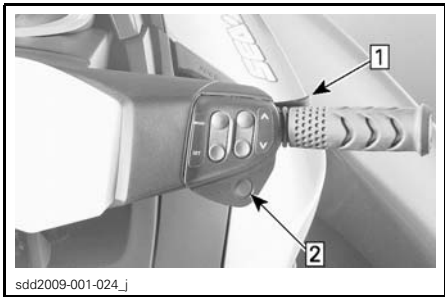
CRUISE MODE INDICATOR

Subsection XX (INFORMATION CENTER (GAUGE))

Cruise Mode Activation Above Idle Speed

To activate cruise mode above idle speed (10 km/h (6 MPH)):

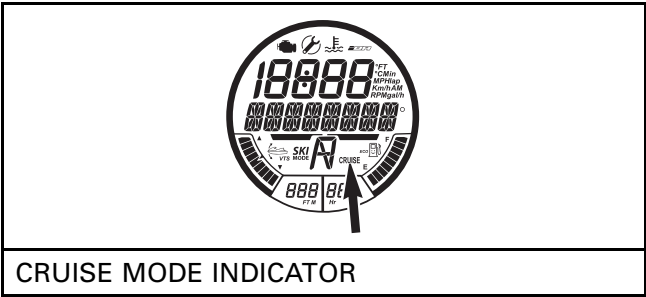
- 1. Accelerate to the desired watercraft speed and hold throttle lever steady.
- 2. Press and hold the cruise button for approximately 1 second.



ENGAGING CRUISE AT SPEED

Step 1: Accelerate to desired speed and hold throttle steady
Step 2: Press cruise button

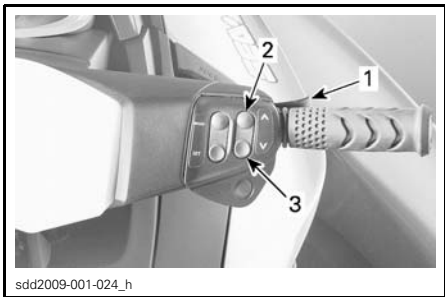
A beep indicating that you are now in cruise mode will sound, and a CRUISE indicator will come on in the multifunction gauge.



Changing Set Cruise Speed

To **increase** or **decrease** the set cruise speed:

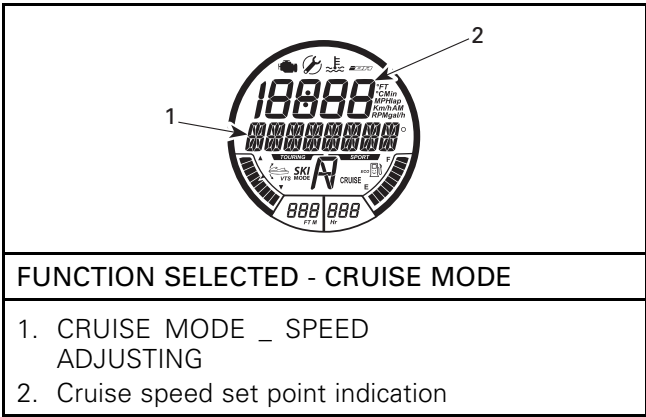
- 1. Hold the throttle lever all the way in to the handlebar.
- 2. On the RH handlebar, press UP/DOWN button.



CHANGING SET CRUISE SPEED

- 1. Throttle lever
- 2. UP button
- 3. DOWN button

While the UP/Down is being pressed to change the speed setting, the following will appear in the multifunction gauge.



NOTE: Pressing the UP/DOWN button repeatedly will change the cruise set speed in single increments. Pressing and holding the button will increase or decrease the speed until the button is released.

Deactivating Cruise Mode

To deactivate cruise mode:

- 1. Release the throttle lever.
- 2. Press the cruise button.

Deactivation of cruise mode is indicated by:

- The CRUISE indicator will turn off.
- A BEEP will be heard.

NOTE: If the throttle lever is not fully released when the cruise button is pressed to deactivate cruise mode, the BEEP will not be heard and the cruise indicator will remain on. The speed limiting function of cruise mode will stay active until the throttle is fully released, then the BEEP will be heard and the cruise indicator will go out.

Slow Speed Mode

The Intelligent Throttle Control also allows for a Slow Speed Mode where the driver can adjust and set idle speed. This is useful when operating in slow speed zones where the driver must be especially attentive to possible obstacle avoidance.

The operator can select an idle speed set point (slow speed) between 1 and 5 (1.6 km/h to 11 km/h (1 MPH to 7 MPH)).

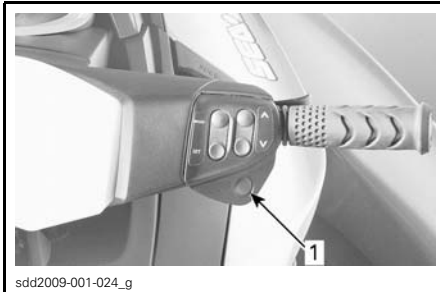
If you accelerate above approximately 14 km/h (9 MPH), Slow Speed Mode will be deactivated and the engine will return to its normal idle RPM when the throttle is released.

Should a situation arise where the operator must stop or accelerate quickly away from a hazardous situation, pull in the iBR lever, or pull in on the throttle lever to deactivate slow speed mode and regain normal control of the watercraft.

Activating Slow Speed Mode

To activate slow speed mode of operation:

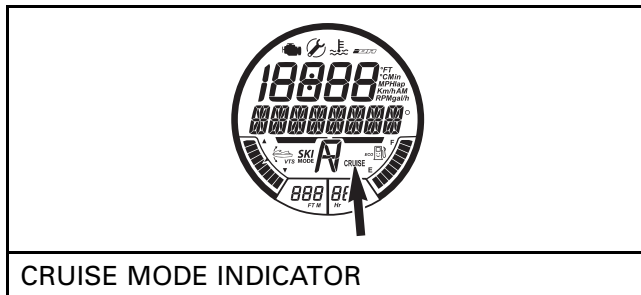
1. Release the throttle lever to idle RPM.
2. Pull in and release the iBR lever to engage neutral.
3. Press and hold the cruise button for approximately 1 second.



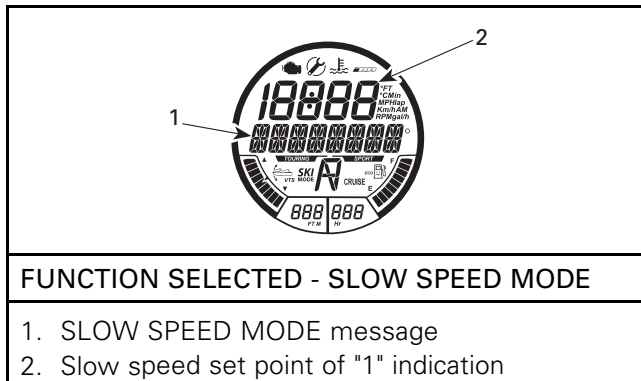
TYPICAL

1. CRUISE button

The CRUISE indicator will come on in the multifunction gauge to indicate cruise activation.



A scrolling message will appear in the multifunction display to specify that you are now in slow speed mode. The default slow speed set point of 1 will also come on for a few seconds in the numerical display.

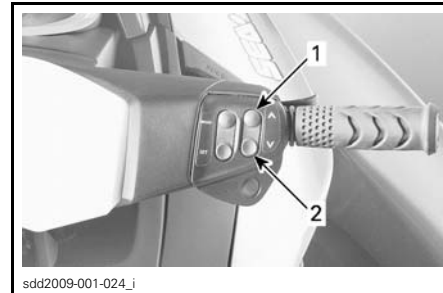


NOTE: The scrolling SLOW SPEED MODE message repeats itself as long as slow speed mode is activated. The numerical display reverts back to the previous indication after a few seconds.

Changing Set Slow Speed

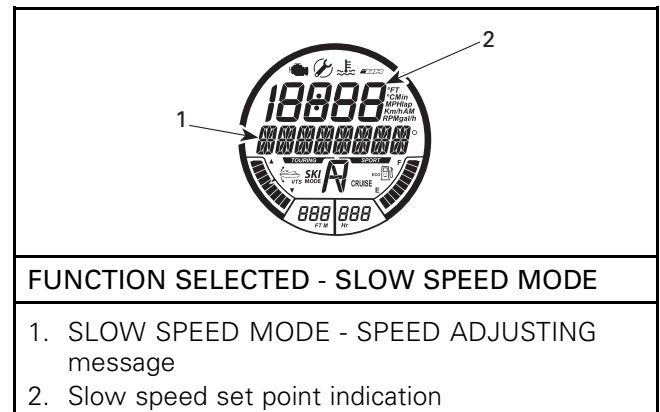
There are 5 slow speed set points available (1 through 5), 1 being the slowest.

To **increase** or **decrease** the slow speed set point, press the UP/DOWN button on the RH handlebar once, or repeatedly.



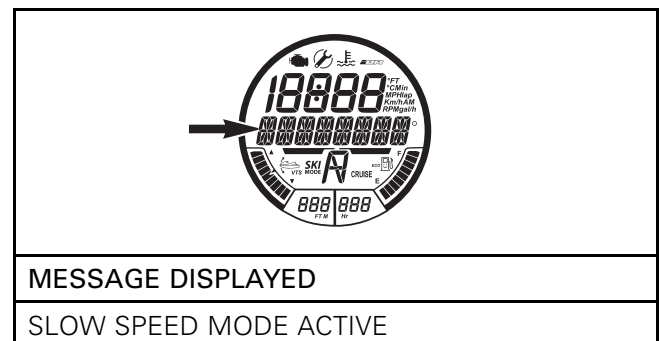
1. UP button to increase speed
2. DOWN button to decrease speed

While the UP/DOWN is being pressed to change the slow speed set point, the following will appear in the multifunction gauge.



The displays will revert back to their previous indication a few seconds after the last activation of the UP/DOWN button.

NOTE: As a reminder, the following message will scroll across the multifunction display periodically.



Subsection XX (INFORMATION CENTER (GAUGE))

Deactivating Slow Speed Mode

Slow speed mode can be deactivated using any of the following methods:

- Pressing the cruise button.
- Depressing the iBR lever.
- Accelerating above the highest slow speed that can be set (approximately 14 km/h (9 MPH)).

When deactivating SLOW SPEED MODE:

- By pressing the cruise button, the iBR system maintains forward position.
- By pressing the iBR lever, the iBR system will shift to neutral position.

SLOW SPEED MODE deactivation will be indicated in the following manner:

1. The CRUISE indicator will go out
2. The scrolling SLOW SPEED MODE ACTIVE message will cease.

Ski Mode

Ski mode allows for repeated and precisely controlled launches, and a set towing speed, specifically for towing a skier or wake boarder.

Ski mode is not available if using a LEARNING key or a RENTAL key.

RAMP Function

The RAMP function offers a pre-programmed setting for launching and accelerating the PWC.

RAMP 1 provides:

- Slowest launch (smoothest)
- Slowest acceleration rate
- Slowest TARGET SPEED range.

RAMP 5 provides:

- Quickest launch
- Quickest acceleration rate
- Highest TARGET SPEED range.

TARGET SPEED Function

The TARGET SPEED function limits the maximum towing speed.

Once the RAMP has been selected, an average PWC target speed for that RAMP will be visible in the numerical display.

The average speed displayed and the speed range available is dependent on the RAMP selected. The higher the RAMP number, the higher the speed range.

The operator may increase or decrease the target speed to any value within the selected RAMP speed range.

NOTE: If the desired target speed cannot be set in the selected RAMP, you must exit then reengage SKI MODE, and select a different RAMP.

Engaging and Using Ski Mode

To engage ski mode, carry out the following steps:

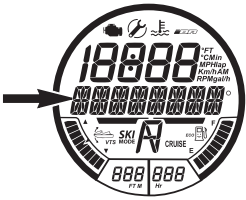
1. Release throttle lever.

NOTE: Ski mode cannot be engaged if the throttle lever is not fully released, and if CRUISE or SLOW SPEED mode is engaged. A message will appear in the multifunction display advising you of the situation. Follow the instructions in the display.

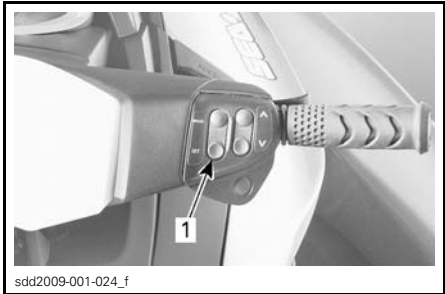
2. Press the MODE button repeatedly until SKI MODE is visible in the multifunction display.



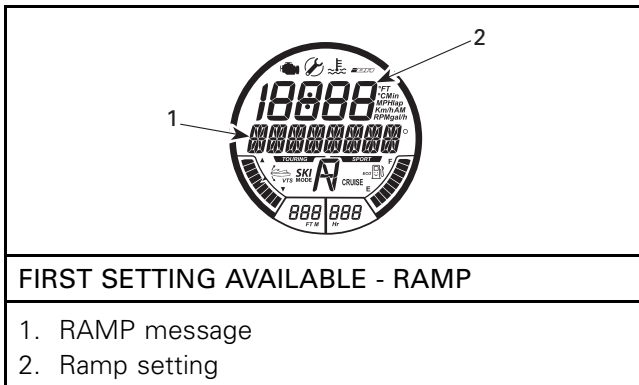
TYPICAL
1. MODE button


MESSAGE DISPLAYED
SKI MODE

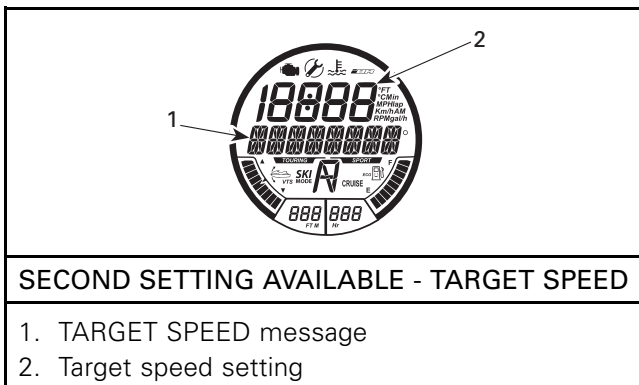
3. Press SET to enter the function. The multifunction gauge message will change to RAMP. The RAMP setting number will be visible in the numerical display.



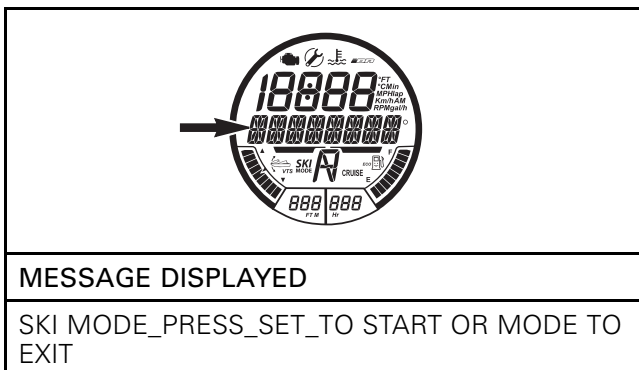
1. SET button



4. To change the RAMP setting, press the UP/DOWN button until the desired ramp number is visible in the numerical display.
5. Press SET to lock in the ramp setting; the multifunction display will change to the TARGET SPEED setting function.

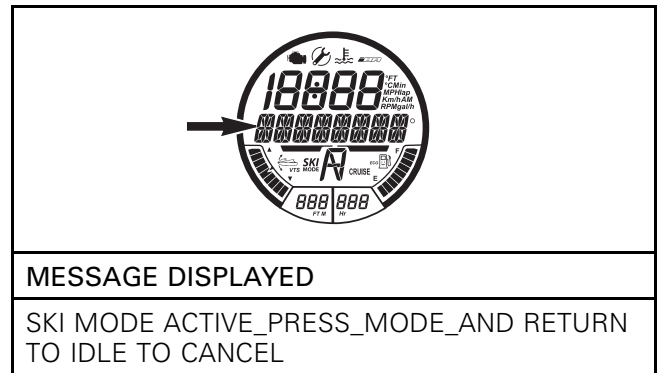


6. Press the UP/DOWN button to increase or decrease the target speed.
7. Press SET to lock in the target speed; the display will switch to the following scrolling message.

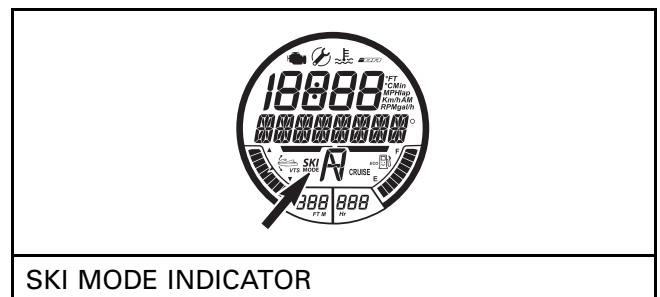


NOTE: A BEEP will be heard every 5 seconds as a SKI MODE engaged reminder.

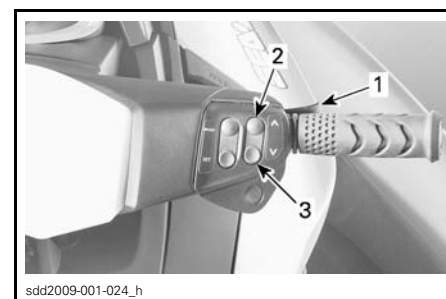
8. Press SET again; the following confirmation message will appear.



NOTE: The SKI MODE indicator will also come ON and blink when ski mode becomes active. It will be ON steady when the operator pulls and holds the throttle lever all the way in to the handlebar.



9. To launch the PWC in ski mode, pull in and hold the throttle lever all the way to the handlebar grip. The PWC will accelerate to the set TARGET SPEED and the SKI MODE indicator will be on steady.
10. To increase or decrease the TARGET SPEED during a ski run, press the UP/DOWN button, **do not** release the throttle lever.



1. Hold throttle lever in
2. Press UP button to increase speed
3. Press DOWN button to decrease speed

NOTE: If the throttle is partly released during a ski run, the SKI MODE indicator light will start to blink and the speed adjust function using the UP/DOWN arrow button will be deactivated.

11. To end a ski run or to pick up a fallen skier or wakeboarder, fully release the throttle to regain normal throttle control.

Subsection XX (INFORMATION CENTER (GAUGE))

NOTE: When the throttle is fully released during ski mode operation, the system returns to ski mode engaged status. The SKI MODE indicator light will go out but, ski mode will remain engaged and a message to that effect will reappear in the multifunction display.

12. Press SET to reactivate ski mode and fully pull in the throttle lever to start another ski run.

Deactivating Ski Mode

To exit ski mode at any given point during the ski mode setting process, press the MODE button.

To end a ski run and completely deactivate ski mode, release the throttle to idle, then press the MODE button.

Learning Key and Rental Key Modes

Both learning and rental keys provide a mode of operation whereby engine power and speed is limited.

There are 5 speed settings available for the learning key mode. By default, the key modes are pre-set to the speed setting (3).

NOTE: Changing key settings is only available when the engine is not running.

Changing Learning Key Speed Settings

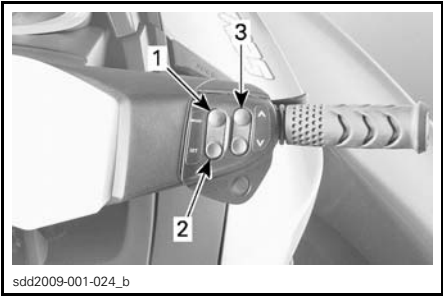
GTS Models

The default learning key setting is 74 km/h (46 MPH) and cannot be changed on these models.

All Models Except GTS

To change learning or rental key settings, carry out the following:

- 1. Press the START/STOP button to wake up the electrical system and install the NORMAL key on the engine cut-off switch.
- 2. Wait for the information center to complete its self-test and display the key recognition message.
- 3. Press the MODE button repeatedly until KEY MODE is visible in the digital screen of the information center.



TYPICAL - GAUGE CONTROL BUTTONS

- 1. MODE button
- 2. SET button
- 3. UP/DOWN button

MESSAGE DISPLAYED
KEY MODE

4. Press the SET button once to enable learning key mode setting function. The display will change to L-Key.

FUNCTION SELECTED - LEARNING KEY
1. L-KEY message 2. Learning key setting

- 5. Press the UP/DOWN button to toggle the key setting between 1 and 5. See table for speed limitations according to setting.
- 6. Press the SET button once to save the setting, twice to exit the function, or simply wait for the function to time-out. The change in key setting will automatically be saved.

NOTE: The key speed setting is applicable to any key of the same type used on a specific watercraft. The same key type used on a different watercraft may therefore have a different key speed setting.

D.E.S.S. KEY TYPE	KEY SPEED SETTING	APPROX. MAX. SPEED
Learning key	5	80 km/h (50 MPH)
	4	74 km/h (46 MPH)
	3	68 km/h (42 MPH)
	2	58 km/h (36 MPH)
	1	51 km/h (32 MPH)

MULTIFUNCTION DISPLAY MESSAGES

Displayed messages are subject to the functions as applicable to watercraft model.

USUAL MESSAGES	
WELCOME ABOARD SEA-DOO	Power up display
READING KEY	Key reading indication
NORMAL KEY	Normal key detected
LEARNING KEY	Learning key detected
RENTAL KEY	Rental key detected
DISPLAY	Display menu for numerical display indication
DEPTH	Water depth indication selection
RPM	RPM indication selection
SPEED	Watercraft speed indication selection
ENGINE TEMP	Engine temp selection
ALTITUDE	Altitude selection (from GPS)
TOP SPEED	Top speed selection
AVG SPEED	Average speed selection
TOP RPM	Maximum RPM selection
AVG RPM	Average RPM selection
FUNCTION CANNOT BE ENGAGED	Message when system cannot enter a specific function
CLOCK	Clock function
CHANGE CLOCK OFFSET	Clock setting function
FUEL CONSUMPTION	Menu for selecting fuel consumption display
INSTANT FUEL FLOW	Used to display instantaneous fuel consumption
AVERAGE FUEL FLOW	Used to display average fuel consumption since last reset
DISTANCE TO EMPTY	Display distance available based on fuel remaining in tank and instant fuel consumption
TIME TO EMPTY	Display time to empty based on fuel remaining in tank and instant fuel consumption
VTS MODE	VTS preset menu
PRESET 1	For changing PRESET 1
PRESET 2	For changing PRESET 2
FAULT CODE	Fault code menu for viewing codes
NO ACTIVE FAULT CODE	No fault codes are active.
KEY MODE	KEY mode menu
L-KEY	For changing learning key setting
SETTINGS	For accessing DOCK mode, iBR-OVR, and CLOCK settings
DOCK MODE	DOCK mode function menu
DOCK MODE OFF	DOCK mode disable
DOCK MODE AUTO	DOCK mode enable

USUAL MESSAGES	
DOCK MODE ON	Suspension moving to DOCK position
DOUBLE CLICK DOWN FOR DOCK MODE	Message scrolling while in DOCK mode menu
iBR-OVR	iBR mode function menu
OVR OFF	iBR-OVR function disable
OVR ON	iBR-OVR function enable
SLOW SPEED MODE ACTIVE	Slow speed mode acknowledgement
IS MODE	IS mode function
PRESS UP OR DOWN TO SET SUSPENSION	Message scrolling when adjusting suspension setting
PRESS UP OR DOWN TO ADJUST SUSPENSION	Message when selecting suspension setting
DOUBLE CLICK UP FOR AUTO MODE	Message scrolling when activating auto MODE
ENTERING SPORT MODE - INCREASED ACCELERATION - INSTRUCT PASSENGERS TO HOLD - PRESS SPORT BUTTON	Message when SPORT mode is selected
SPORT MODE ACTIVATED	Message when SPORT mode is activated
SPORT MODE - RETURN TO IDLE TO ACTIVATE	Message when SPORT mode cannot be activated, engine not at idle
SPORT MODE ACTIVE - RETURN TO IDLE TO CANCEL	Message when SPORT mode is in use
SPORT MODE DEACTIVATED	Message when user first returns to TOURING mode
SKI MODE	WAKE and SKI function
PLEASE EXIT SLOW SPEED MODE FIRST	Message when a rider attempts to enter SKI mode when already in SLOW SPEED mode
RAMP	Ramp curve or level of acceleration from 1 to 5
TARGET SPEED	Speed requested for SKI mode
SKI MODE - PRESS SET TO START OR MODE TO EXIT	SKI mode is unarmed but ready, the PWC is at idle
SKI MODE ARMED - RETURN TO IDLE OR PRESS MODE TO CANCEL	SKI mode is ready but the PWC is not at idle, the system is at standby
SKI MODE ACTIVE - PRESS MODE AND RETURN TO IDLE TO CANCEL	Message scrolling when SKI mode is active
SKI MODE - SPEED ADJUSTING	Message scrolling when adjusting SKI mode speed setting
SKI MODE ACTIVE - RETURN TO IDLE TO CANCEL	Message scrolling when the user pressed MODE to disengage but didn't return to idle
LAP TIME	Lap timer function
ECO MODE	Menu option for selecting FUEL ECONOMY MODE
ECO MODE ACTIVE - RETURN TO IDLE TO CANCEL	FUEL ECONOMY MODE is active, scrolling instruction for deactivation
SLOW SPEED MODE ACTIVE	Message when SLOW SPEED mode is in operation

Subsection XX (INFORMATION CENTER (GAUGE))

USUAL MESSAGES	
SLOW SPEED MODE ACTIVATED	Message when SLOW SPEED mode is selected
SLOW SPEED MODE - SPEED ADJUSTING	Message scrolling when adjusting slow speed TARGET speed setting
PLEASE EXIT SLOW SPEED MODE FIRST	Message scrolling if SLOW SPEED mode is still active when trying to engage CRUISE mode
CRUISE MODE ACTIVE	Message when CRUISE mode is in operation
CRUISE MODE ACTIVATED	Message when CRUISE mode is selected
CRUISE MODE - SPEED ADJUSTING	Message scrolling when adjusting cruise TARGET speed setting
CRUISE MODE - SELECT SPEED - PRESS SET TO ACCEPT OR MODE TO EXIT	Message scrolling when selecting speed.
PLEASE EXIT CRUISE MODE FIRST	Message scrolling if CRUISE mode still active when trying to engage SLOW SPEED mode
LOW FUEL	Message when approximately 25% fuel remaining
NEUTRAL ADJUSTMENT	Neutral adjustment

FAULT MESSAGES	
WRONG KEY	Wrong key selected for model
RIGHT KEYPAD ERROR	MODE/SET, UP/DOWN arrow button malfunction
LOW OIL PRESSURE	Engine low oil pressure detected
HIGH EXHAUST TEMPERATURE	High exhaust temperature detected
HIGH ENGINE TEMPERATURE	High engine temperature detected
CHECK ENGINE	Engine system malfunction or maintenance required
HIGH BATTERY VOLTAGE	High battery voltage detected
LOW BATTERY VOLTAGE	Low battery voltage detected
LIMP HOME MODE	Major fault detected, engine power limited
FUEL SENSOR DEFECTIVE	Fuel level sensor fault
CALIBRATION CHECKSUM ERROR	Cluster programming corrupted, need to be re-flashed using B.U.D.S.
MAINTENANCE REQUIRED	Watercraft maintenance required
DEPTH SOUNDER MODULE COMMUNICATION PROBLEM	Error message if depth sounder is disconnected while riding
iS MODULE COMMUNICATION PROBLEM	Error message if communication with the suspension module is lost while riding
iBR MODULE ERROR	Error message if communication with the iBR module is lost while riding
OTAS DEFECTIVE – MAINTENANCE REQUIRED	OTAS is not correctly adjusted

TROUBLESHOOTING

DIAGNOSTIC TIPS

NOTE: It is a good practice to check for fault codes using B.U.D.S. software as a first troubleshooting step. Refer to *COMMUNICATION TOOLS AND B.U.D.S.* subsection.

IMPORTANT: When troubleshooting an electrical system fault, check battery condition, cables and connections first.

Electrical System Activation

1. Press the START/STOP button.

NOTE: Pressing the START/STOP button without the tether cord (D.E.S.S. key) installed on the engine cut-off switch will turn on electrical power without starting the engine; the information center will cycle through a self-test function and shut off its display after a few seconds. However, the electrical system will stay powered up for approximately three minutes after the START button was pressed.

2. Install the tether cord on the engine cut-off switch to activate ECM and Information Center when testing procedures require a component or system to be supplied with electrical power.

IMPORTANT: When B.U.D.S. is being used, the ECM will stop communicating with B.U.D.S. approximately 3 minutes after the START button is pressed. Therefore, operations with B.U.D.S. will be interrupted. To reestablish communication, briefly press the START button. **Do not hold** the START button to avoid engine starting.

Circuit Testing

Check the related-circuit fuse condition with a fuse tester or ohmmeter (a visual inspection could lead to a wrong conclusion).

Electrical Connection Inspection

When replacing an electric or electronic component, always check electrical connections. Make sure they are tight, make good contact, and are corrosion-free. Dirty, loose or corroded contacts are poor conductors and are often the source of a system or component malfunction.

Pay particular attention to ensure that pins are not bent or pushed out of their connectors.

Ensure all wire terminals are properly crimped on wires, and connector housings are properly fastened.

Check for signs of moisture, corrosion or dullness. Clean pins properly and coat them with DIELECTRIC GREASE (P/N 293 550 004) or other appropriate lubricant when reassembling them, except if otherwise specified such as for the ECM connectors.

Pay attention to ground wires.

TROUBLESHOOTING GUIDELINES

Press the START/STOP button and install the tether cord on the engine cut-off switch.

NOTE: Information center should come on, cycle through its self test function, and stay on for approximately 3 minutes after which all electrical power will turn off.

Briefly press the START/STOP button every 3 minutes to reenergize the electrical system. Do not hold the START/STOP button to avoid engine starting.

NOTE: When troubleshooting using the following guidelines, it is important to remember that some indications, functions and features described may not apply to every PWC model, or may be available as an option.

Information Center “Does Not Turn ON”

If the information center does not turn ON when the START/STOP button is pressed, the power circuit or ground circuit to the information center is probably open.

iS Models

Double click the iS button to move the suspension to the up position. If the suspension does not move to the up position, the problem is related to the electrical power system. Refer to *POWER DISTRIBUTION AND GROUNDS* subsection.

If the suspension moves to the up position, the electrical power system is functioning normally.

All Models

Test the 3 A GAUGE/OTAS/CAPS fuse (fuse 12) in fuse box 1 (FB1).

If the fuse tests good, carry out an *INFORMATION CENTER INPUT VOLTAGE TEST*.

If the information center input voltage test is good, test for continuity of the gauge ground circuit (gauge connector pin 11 (BLACK wire) to the ground bus-bar (pin H7) in FB1.

Refer to *WIRING DIAGRAM* for circuit details.

Subsection XX (INFORMATION CENTER (GAUGE))

Information Center Turns ON with Some Indications Missing

1. Connect to the latest applicable B.U.D.S. version, refer to *COMMUNICATION TOOLS AND B.U.D.S.* subsection.
2. Read the fault codes, refer to *DIAGNOSTIC AND FAULT CODES* subsection.

If a fault code is related to a communication problem, carry out a continuity test of the CAN bus wires between the applicable module and the CAN bus-bars in FB1. Refer to *WIRING DIAGRAM* and *CONTROLLER AREA NETWORK (CAN)* subsections.

NOTE: The information center, ECM, iS module, iBR module, and the diagnostic connector are linked together through CAN bus-bars in fuse box 1. If one wire of the two wire CAN bus system is open, communication will be slower than normal. Multiple fault codes may be generated and the ECM will put the watercraft in LIMP HOME mode.

If one module cannot be seen in B.U.D.S., the fault may be the wires that link the module to the CAN bus bars, or a problem internal to that module. Test the CAN bus wires from the faulty module to the CAN bus-bars in FB1 for continuity before assuming the problem is the module.

Information Center Goes Blank Except for:

- GPS indicator ON
- Compass ON (if watercraft moving)
- Fuel level ON
- iBR fault indicator light ON
- Indicated speed
- No other indications visible.

NOTE: GPS, compass and iBR indications are not applicable to GTS models.

There is no communication between the information center and all other modules (ECM, iS, iBR).

Carry out a continuity check of the CAN bus wires from the CAN bus-bars in FB1 to the information center (pins 2 and 3). Refer to the *WIRING DIAGRAM* and *CONTROLLER AREA NETWORK (CAN)* subsections for details.

If an open circuit is detected, carry out same test from the pin steering connector (pins 8 and 20).

All Indications ON Except for:

All Models Except GTS

- LAKE WATER TEMP indication

- VTS indication
- iBR position indication
- CHECK ENGINE light is on.

NOTE: The lake water temperature indication is only available for the GTX Limited iS 260 model.

The iBR CAN bus circuit is open or the iBR module is at fault.

NOTE: The ECM will generate several fault codes and engage LIMP HOME mode.

Carry out a continuity check of the CAN bus wires from the CAN bus-bars in FB1 to the iBR module (pins 2 and 3). Refer to the *WIRING DIAGRAM* and *CONTROLLER AREA NETWORK (CAN)* subsections for details.

NO RPM Indication and NO Engine Hour Display

If there is NO RPM indication and NO engine hour display, and the watercraft is in LIMP HOME mode, the CAN bus to the ECM is open.

Carry out a continuity check of the CAN bus wires from the CAN bus-bars in FB1 to the ECM module, connector "B" pins C1 and C2 (B-C1 and B-C2). Refer to the *WIRING DIAGRAM* and *CONTROLLER AREA NETWORK (CAN)* subsections for details.

NO iS Position Display

If there is no iS position display (suspension position), the iS module is at fault, or its CAN bus circuit is open.

Carry out a continuity check of the CAN bus wires from the CAN bus-bars in FB1 to the iS module (pins 2 and 3). Refer to the *WIRING DIAGRAM* for details.

NOTE: If communication with the iS module cannot be established when electrical power is first applied, the monitoring system assumes this is a normal situation (PWC not equipped with iS) and will not display an error message.

NO Fuel Level Indication

If there is no fuel level indication, test the fuel level sensor and its wiring circuit to the information center. Refer to *FUEL TANK AND FUEL PUMP* subsection.

NO Depth Gauge Indication

If there is no depth gauge indication available and the depth sounder active indicator is not on, refer to *DEPTH GAUGE* in this subsection.

NOTE: If communication with the depth sounder cannot be established when electrical power is first applied, the monitoring system assumes this is a normal situation (PWC not equipped with depth finder) and will not display an error message.

NO Speed or Compass Indication

All Models Except GTS

To obtain a speed or compass reading and to turn on the GPS indicator, the GPS requires a good uplink to at least three navigation satellites.

If there is no speed or compass indication, look for the GPS indicator icon. If the GPS indicator is off, either the GPS cannot uplink with the satellites, or the GPS system in the information center is at fault.

If another watercraft nearby displays a good GPS uplink (GPS indicator light on in cluster), the information center may need to be replaced.

NOTE: If the GPS uplink is lost while navigating at speed, the speedometer will provide an estimated speed indication based on other parameters. The compass indication will not be available until a good satellite uplink is reestablished.

Speed and Compass Indication Slow to Come ON

All Models Except GTS

When initially powering up the watercraft and driving away, the speed and compass indications may be slow to come on. This is normal as the GPS requires time to establish an uplink with the navigation satellites (cold start).

If the watercraft was run long enough to display the compass and speed indications, shut down for a short period of time and then restarted (hot start), the speed and compass indications should not take more than 30 seconds to come on.

If the speed and compass indications take more than 30 seconds to come on, test for the following:

- GPS fuse 4 in FB1
- Battery voltage at pin 1 of the information center
- Continuity of wire between information center (pin 1) and contact A5 of FB1.

NOTE: This circuit provides 12 Vdc to the GPS in the information center so that it memorizes the satellites it was linked to for a period of two hours. This allows the indications to be available within a few seconds of restarting the watercraft (hot start). After a two hour period, the GPS will have to reestablish new satellite links.

Beeper Does Not Function

The beeper is incorporated within the information center.

If no beep code is heard when installing the tether cord, first ensure ECM is powered. Refer to *ELECTRONIC FUEL INJECTION (EFI)* subsection.

In B.U.D.S., carry out the following:

- **Cluster Buzzer Test** on the cluster activation page
- Check for fault codes. Carry out service actions as applicable.

If the **Cluster Buzzer Test** failed, the ECM is powered, and the ECM and information center are communicating properly through the CAN bus, replace the information center.

PROCEDURES

INFORMATION CENTER

Information Center Self Test Function

When the START/STOP button is pressed momentarily and the vehicle powers up, all LCD segments and indicator lights in the information center will turn **ON for 3 seconds** (self test function). This self test function allows the driver time to ensure that all indications are functioning properly.

It also validates the information centers internal circuits, however, this does not validate proper operation of the individual external circuits and sensors that provide inputs to the information center.

If a system fault is detected by the ECM, the applicable message and/or indicator light will be displayed, and a beep code may be heard.

If the tether cord is not installed, the indications in the information center will shut off a few seconds after the self test function, but the electrical system power stays on for approximately 3 minutes. Installing the tether cord on the engine cut-off switch will turn the indications back on.

If the tether cord is installed, the cluster will stay on for approximately 3 minutes.

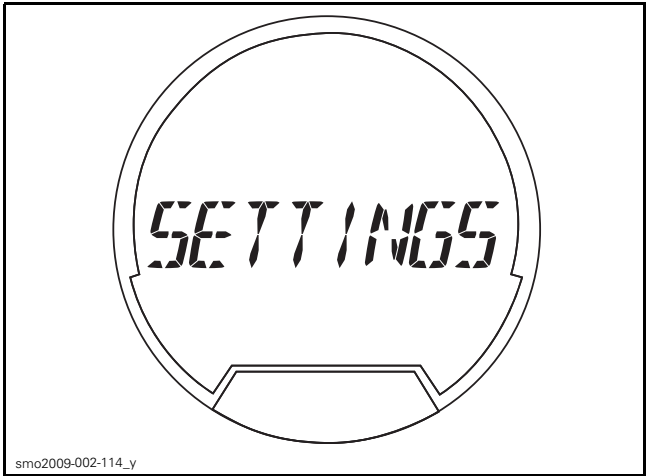
NOTE: If the START/STOP button is pressed and held without the tether cord installed, the information center will stay on as long as the START button is held.

Multifunction Gauge Setup

Clock Setting

All Models Except GTS

- 1. Press the MODE button repeatedly until SETTINGS is visible in the multifunction display.



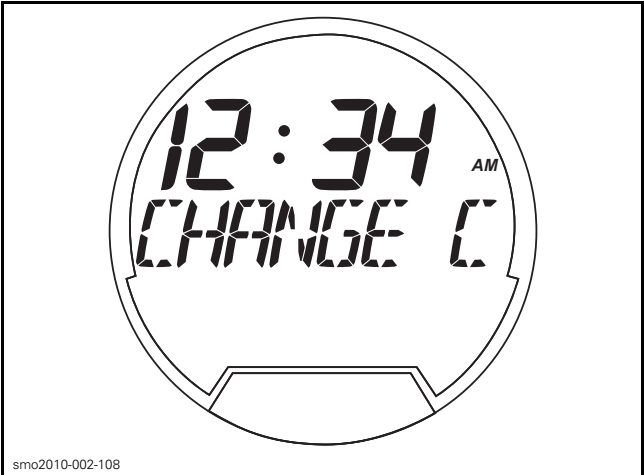
FUNCTION SELECTED: SETTINGS

- 2. Press the UP or DOWN arrow button repeatedly until CLOCK is visible.



FUNCTION SELECTED: CLOCK

- 3. Press the SET button to enter the function. CHANGE CLOCK OFFSET message will be displayed.



FUNCTION SELECTED: CHANGE CLOCK OFFSET

- 4. Press the UP or DOWN arrow button to adjust the clock to the correct local time.
- 5. Press the SET button to save the setting and return to the main display.

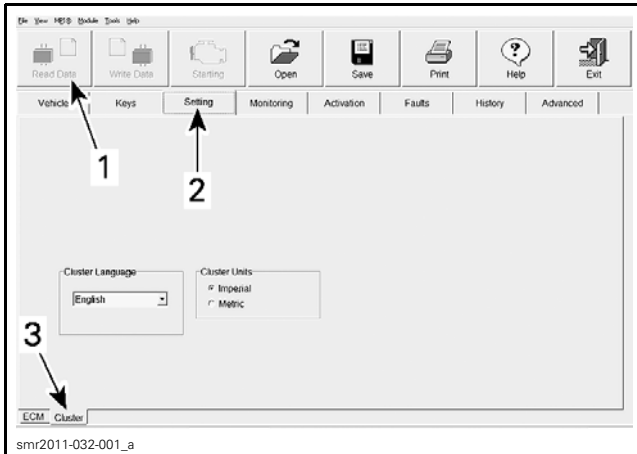
NOTE: The clock uses the GPS signal to maintain the appropriate time referenced to Greenwich Mean Time (GMT). When setting the clock, only the hour digits may be changed. For the clock to function, the GPS requires a good satellite uplink.

Units of Measurement and Language Setting

- 1. Connect vehicle to the latest applicable B.U.D.S. version, refer to the COMMUNICATION TOOLS AND B.U.D.S. subsection.
- 2. Press the START/STOP button to energize the electrical system.

NOTE: You will need to press the START button every three minutes or the electrical system will shut off.

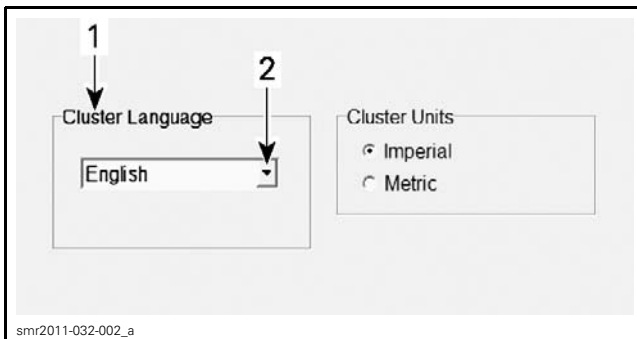
- 3. Select the Read Data button.
- 4. Choose the Setting tab at the top of the page. At the bottom LH side of the setting page, select the Cluster tab.



TYPICAL

1. Read Data
2. Setting tab
3. Cluster tab

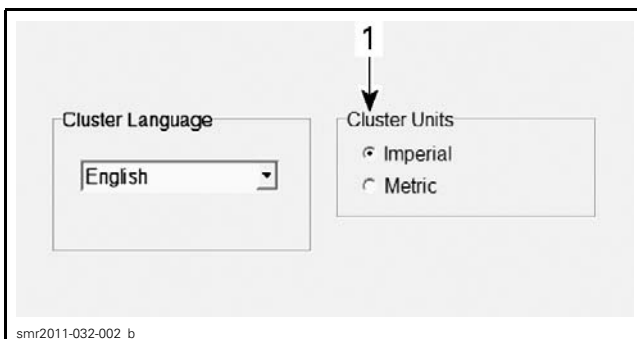
In the **Cluster Language** field, choose the desired unit of language.



TYPICAL

1. Cluster Language field
2. Click on this arrow to expand list of available languages

In the **Cluster Units** field, choose the desired unit of measurement, **Imperial** or **Metric**.



TYPICAL

1. Cluster Units field

Clearing the Maintenance Reminder Indicators

When the watercraft, engine or supercharger are due for maintenance, the maintenance reminder indicator will come on, and a scrolling **MAINTENANCE REQUIRED** or **SUPERCHARGER**

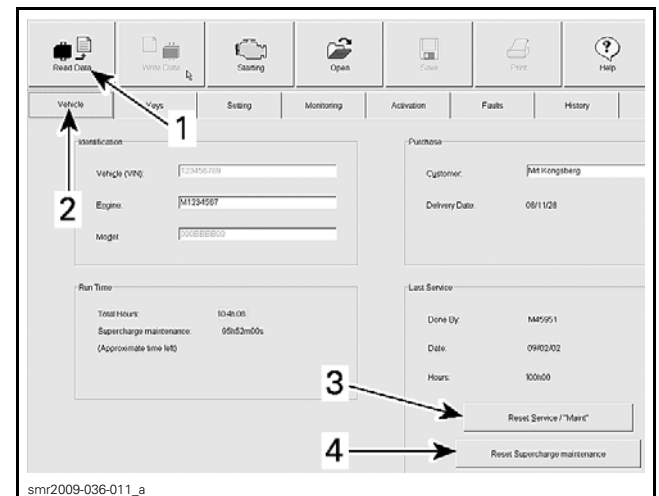
MAINTENANCE REQUIRED message will scroll in the digital screen. These maintenance reminders must be cleared using B.U.D.S.

1. Connect vehicle to the latest applicable B.U.D.S. version, refer to the *COMMUNICATION TOOLS AND B.U.D.S.* subsection.
2. Press the START/STOP button to energize the electrical system.

NOTE: You will need to press the START button every three minutes or the electrical system will shut off.

3. Select the **Read Data** button.
4. Choose the **Vehicle** tab at the top of the page.
5. At the bottom RH side of the vehicle page in the **Last Service** field, choose **Reset Service/"Maint"** or **Reset Supercharger Maintenance** button as applicable.

NOTE: If the supercharger maintenance was carried out before the reminder appeared in the information center, the supercharger maintenance reminder must be reset in order to reset the supercharger maintenance hour counter and prevent the reminder from appearing prematurely.



TYPICAL

1. Read Data
2. Vehicle tab
3. Reset Service/"Maint" button
4. Reset Supercharger Maintenance button

Information Center Pin-Out

NOTE: Depending on watercraft model and installed accessories, some multifunction gauge connector pins may not be used.

Subsection XX (INFORMATION CENTER (GAUGE))

INFORMATION CENTER PIN-OUT	
PIN NO.	FUNCTION
1	GPS back-up power
2	CAN HI
3	CAN LOW
4	Spare (buzzer external GND)
5	Spare (buzzer external GND)
6	Not used
7	Cruise switch signal Vdc (SET switch for GTS models)
8	Spare (digital input)
9	Not used
10	Cruise switch ground (SET switch for GTS models)
11	Gauge GND
12	Gauge input Vdc power
13	VTS switch signal (UP or DOWN)
14	ECO/SPORT switch signal (ECO or SPORT)
15	VTS switch common
16	UP or DOWN arrow switch signal
17	MODE and SET switch signal
18	MODE/SET, UP/DOWN arrow switch common
19	Fuel level sensor VDC signal
20	Fuel level sensor GND

Information Center Input Voltage Test (at Gauge Connector)

GTS, GTI and WAKE

1. Remove the gauge bezel, refer to *BODY* sub-section.

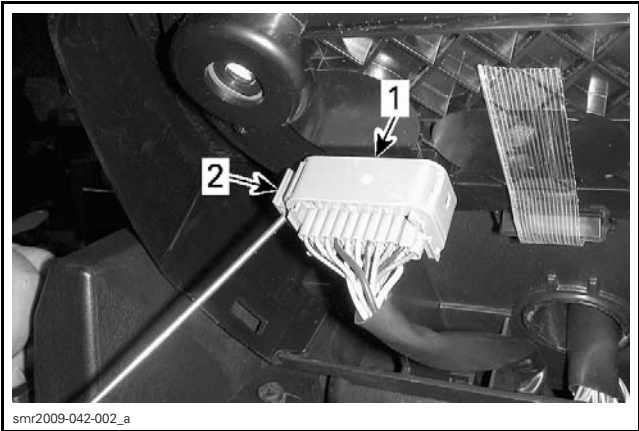
RXT, GTX and WAKE Pro

2. Remove the gauge support cover, refer to *INFORMATION CENTER REMOVAL* in this sub-section.

All Models

3. Disconnect the gauge connector.

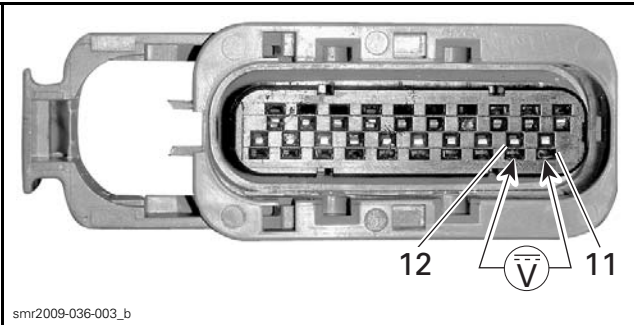
NOTICE Pull on connector with your hand as you pull the connector lock out with the screwdriver. Do not twist the screwdriver.



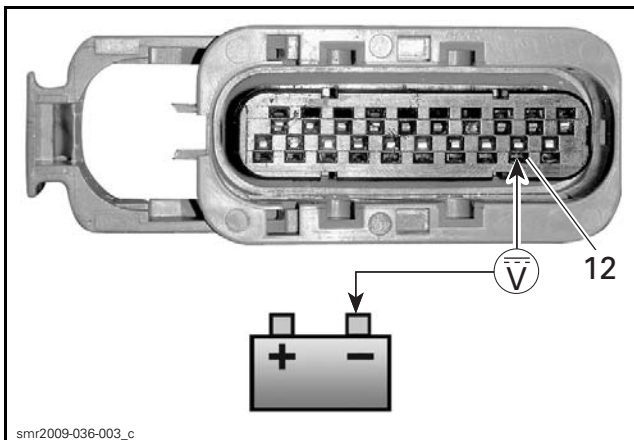
TYPICAL
1. Gauge connector
2. Pull out to unlock connector

4. Set the FLUKE 115 MULTIMETER (P/N 529 035 868) to Vdc.
5. Press the START button and install the tether cord on the engine cut-off switch.
6. Measure the information center input voltage as per following table.

PROBE		VOLTAGE
Pin 12 (VIOLET)	Pin 11 (BLACK)	Battery voltage
Pin 12 (VIOLET)	Battery ground	



INPUT VOLTAGE TEST AT GAUGE CONNECTOR (PINS 12 TO 11)



INPUT VOLTAGE TEST AT GAUGE CONNECTOR (PIN 12 TO BATTERY GROUND)

If battery voltage is measured as specified, replace the information center.

If battery voltage is measured to battery ground but not to pin 11, carry out a *CONTINUITY TEST OF GAUGE GROUND WIRE* circuit from the gauge connector to the ground bus-bar contact in FB1 as described further in this subsection.

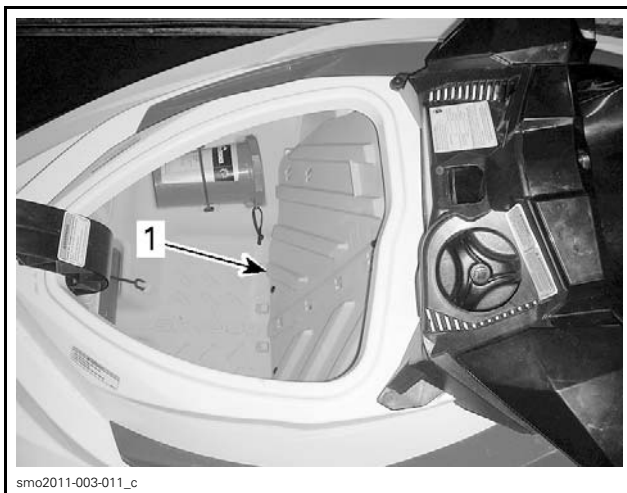
7. If battery voltage is not measured at the gauge connector, carry out a *INFORMATION CENTER INPUT VOLTAGE TEST (AT STEERING CONNECTOR)*.

Information Center Input Voltage Test (at Steering Connector)

1. Open front storage compartment cover.

GTS, GTI and Wake

2. Remove battery access panels.



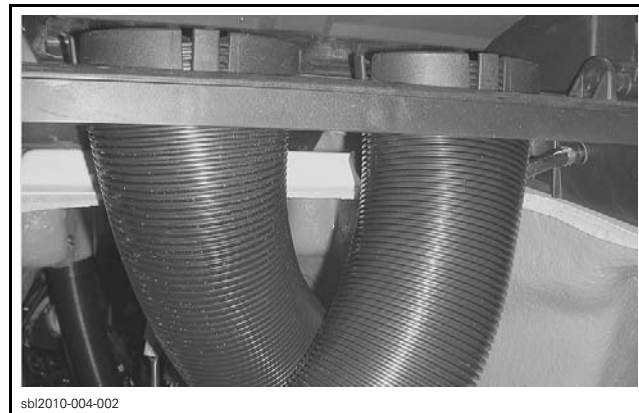
1. Battery access panels

RXT, GTX and WAKE Pro

3. Remove front storage bin.

RXT and GTX Models Without Suspension

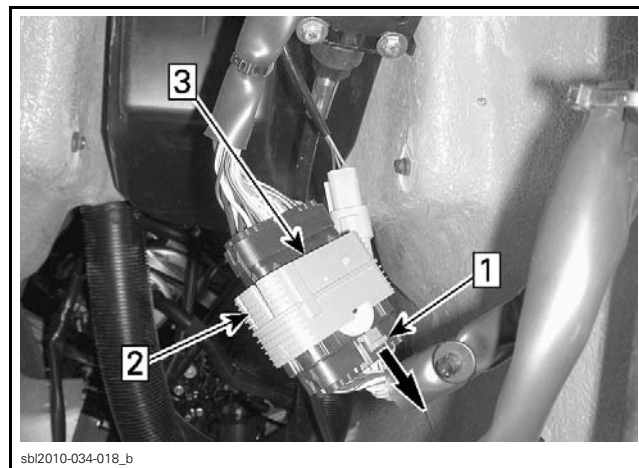
4. Reach into the front storage compartment and remove the front air ventilation hoses.



FRONT AIR VENTILATION HOSES

All Models

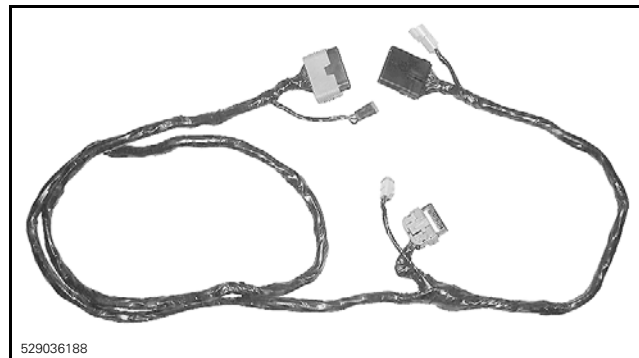
5. From under the steering support area, disconnect the 24-pin steering connector.



TYPICAL - DISCONNECT 24-PIN STEERING CONNECTOR

Step 1: Pull out safety lock
Step 2: Press in on release tab
Step 3: Pull locking collar down

6. Connect the DIAGNOSTIC HARNESS (P/N 529 036 188) to make an in-line connection between the disconnected connectors.



Subsection XX (INFORMATION CENTER (GAUGE))

- 7. Press the START/STOP switch and install the tether cord on the engine cut-off switch.
- 8. Carry out an input voltage test at the steering connector (vehicle harness side) as per following table.

INFORMATION CENTER INPUT VOLTAGE TEST (STEERING CONNECTOR)		
TEST CONNECTOR ON DIAGNOSTIC HARNESS		VOLTAGE
Pin 24 (VIOLET)	Pin 1 (BLACK)	Battery voltage
Pin 24 (VIOLET)	Battery ground	



BATTERY AND FUSE ACCESS, FRONT STORAGE COMPARTMENT
1. Battery access panel

RXT and GTX Models with Suspension

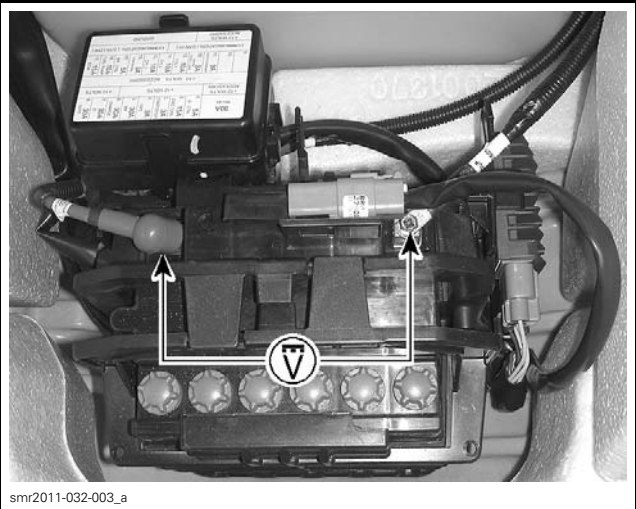
- 10. Open the boarding platform and remove the RH storage bin.

RXT, GTX (Without Suspension) and Wake Pro Models

- 11. Remove the RH access panel on the boarding platform.

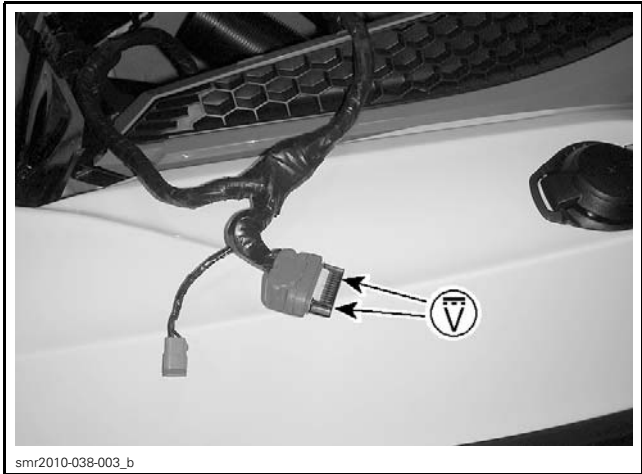
All Models

- 12. Using the FLUKE 115 MULTIMETER (P/N 529 035 868) set to Vdc, measure battery voltage at the battery terminals.



TYPICAL - BATTERY VOLTAGE TEST

- 13. Remove fuse box cover.



TEST CONNECTOR OF DIAGNOSTIC HARNESS

If battery voltage is read at steering connector (vehicle harness side) as specified in previous table, but was not measured to pin 11 at the gauge connector (gauge ground wire), repair or replace the BLACK ground wire between the gauge connector and the steering connector.

If battery voltage is measured to battery ground but not to pin 1, carry out a *CONTINUITY TEST OF GAUGE GROUND WIRE* described further in this subsection.

If no voltage is measured, carry out the following steps.

GTS, GTI and WAKE Models

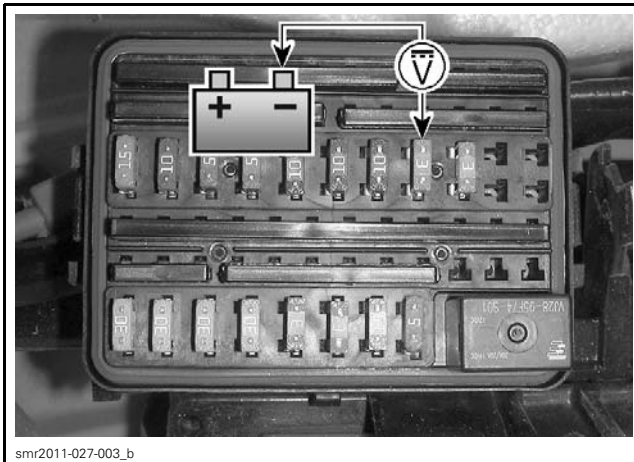
- 9. Remove the battery access panel at the back of the storage compartment.



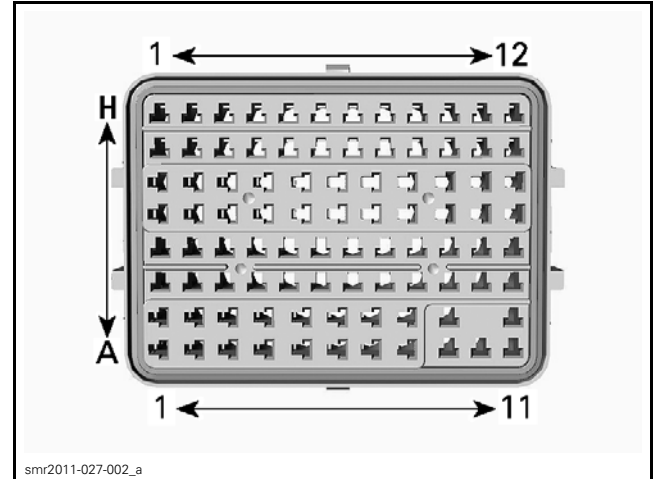
1. Fuse box cover

14. Press the START/STOP button to energize electrical system and install the tether cord.
15. Test for battery voltage between each of the terminals atop the GAUGE/OTAS/CAPS fuse (12) and battery ground as per following table.

VOLTAGE TEST AT FB1			
GAUGE FUSE	TEST PROBES		READING
Fuse pin numbers	E8	Battery (-) post	Battery Vdc
	F8		



VOLTAGE TEST AT FUSE CONTACTS



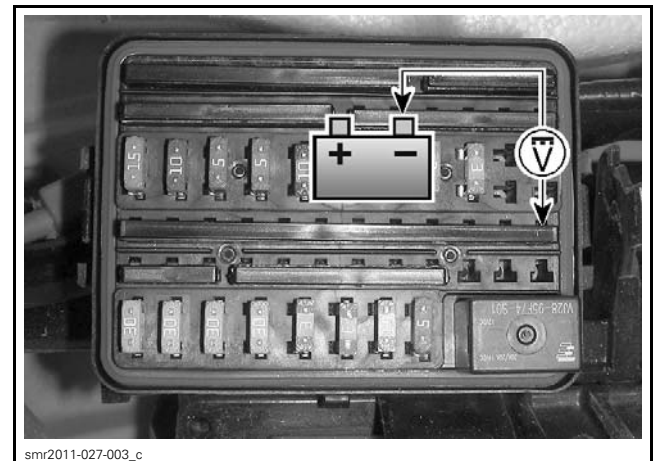
TYPICAL - CONTACT COORDINATES (FRONT VIEW FB1)

If battery voltage is measured at E8 but not at F8 (with fuse installed), replace the fuse.

If battery voltage is measured at fuse contact E8, refer to *CONTINUITY TEST OF GAUGE POWER WIRE* in this subsection.

If no voltage is measured at fuse contact E8, slightly lift one corner of the long bus-bar (12 contacts long).

16. Measure for battery Vdc between the bus-bar and battery ground.



VOLTAGE TEST AT LONG BUS-BAR

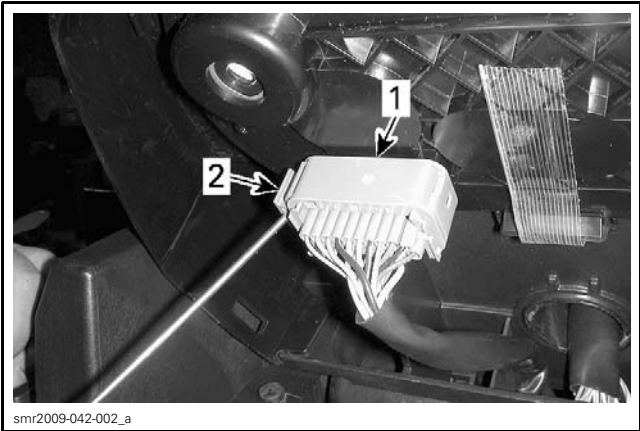
If battery voltage is measured at the long bus-bar, repair or replace the wire jumper D8 to E8 (behind fuse box).

Continuity Test of Gauge Power Wire

1. Remove tether cord from engine cut-off switch.
2. Disconnect gauge connector.

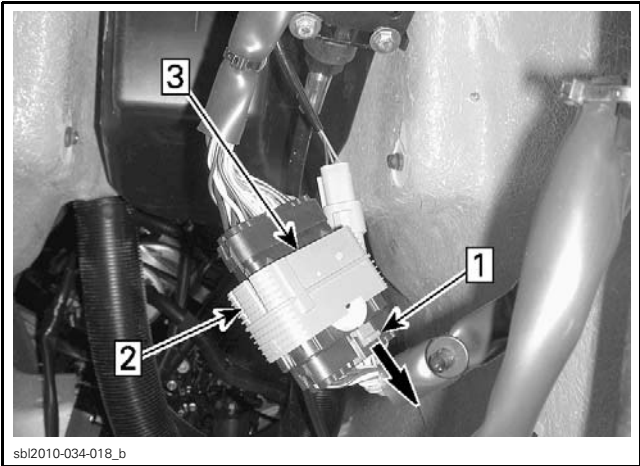
NOTICE Pull connector lock out sideways. Do not twist the screwdriver.

Subsection XX (INFORMATION CENTER (GAUGE))



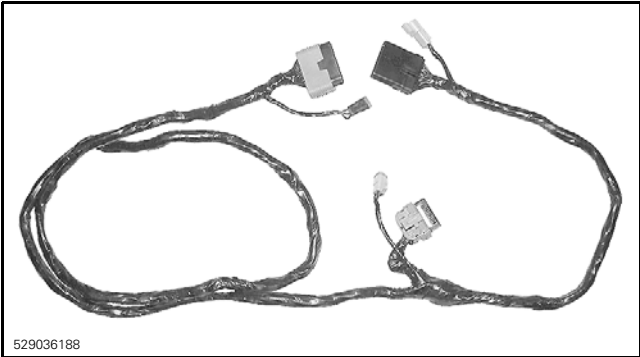
TYPICAL
1. Gauge connector
2. Pull out to unlock connector

3. Disconnect 24-pin steering connector.

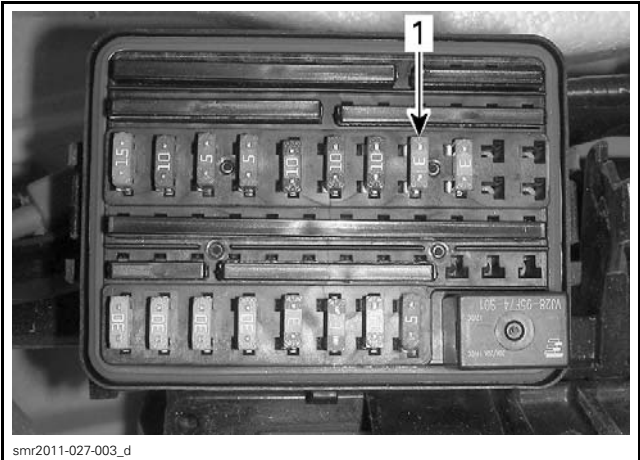


TYPICAL - 24-PIN STEERING CONNECTOR DISCONNECT
Step 1: Pull out safety lock
Step 2: Press in on release tab
Step 3: Pull locking collar down

4. Connect the DIAGNOSTIC HARNESS (P/N 529 036 188) to make an in-line connection between the disconnected connectors.



5. Remove the gauge fuse in FB1.



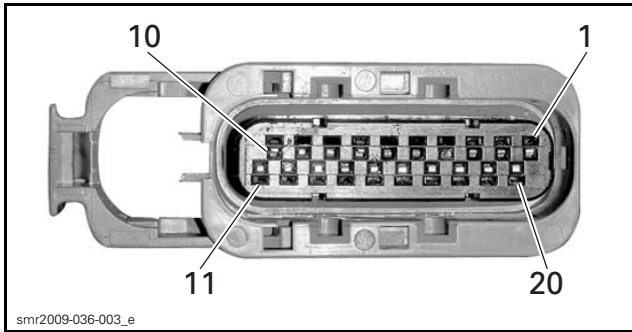
FB1
1. Remove gauge fuse (F1)

6. Set FLUKE 115 MULTIMETER (P/N 529 035 868) to Ω setting.



7. Test the information center power wire continuity as per following table.

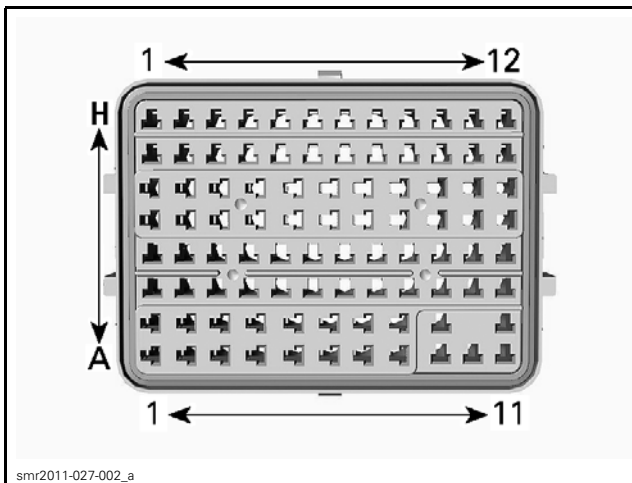
CONTINUITY TEST OF GAUGE POWER WIRE			
GAUGE CONNECTOR	TEST CONNECTOR ON DIAGNOSTIC HARNESS	FUSE BOX 1	READING
Pin 12 (VIOLET)	Pin 24 (VIOLET)	—	Close to 0 Ω
Pin 12 (VIOLET)	—	F8	
—	Pin 24 (VIOLET)	F8	



GAUGE CONNECTOR PIN-OUT



TYPICAL - TEST CONNECTOR OF DIAGNOSTIC HARNESS



TYPICAL - CONTACT COORDINATES (FRONT VIEW FB1)

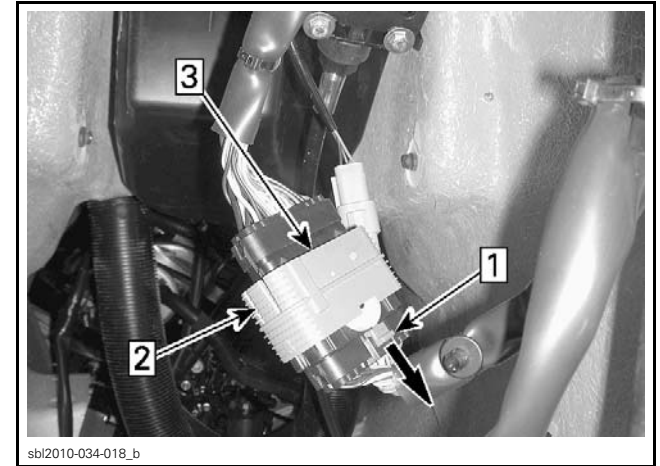
8. If an open circuit is measured, test the following:

CONTINUITY TEST OF GAUGE POWER WIRE		
FUSE BOX 1	TEST CONNECTOR ON DIAGNOSTIC HARNESS	READING
F8 to H9	—	Close to 0 Ω
H9 to H11	—	
H11	Pin 24 (VIOLET)	

9. Repair or replace wiring/connectors as required.

Continuity Test of Gauge Ground Wire

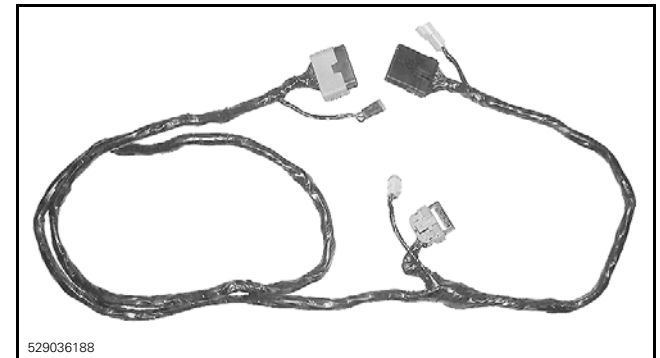
1. Disconnect the 24-pin steering connector.



TYPICAL - 24-PIN STEERING CONNECTOR DISCONNECT

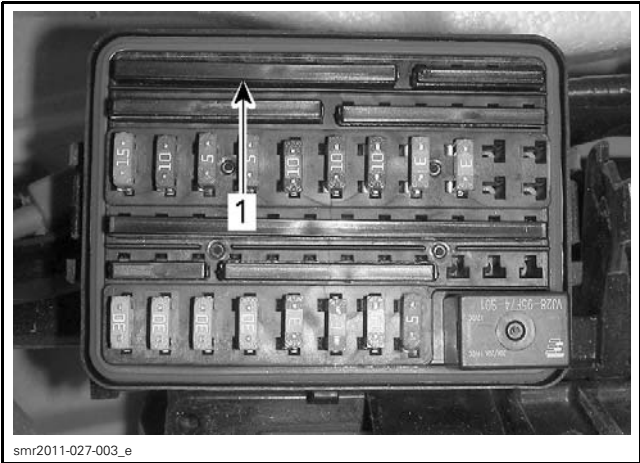
Step 1: Pull out safety lock
Step 2: Press in on release tab
Step 3: Pull locking collar down

2. Connect the DIAGNOSTIC HARNESS (P/N 529 036 188) to make an in-line connection between the disconnected connectors.



3. Remove the ground bus-bar in the fuse box.

Subsection XX (INFORMATION CENTER (GAUGE))

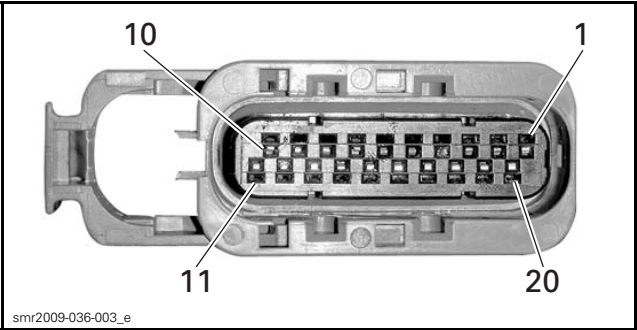


TYPICAL
1. Ground bus bar

4. Set FLUKE 115 MULTIMETER (P/N 529 035 868) to Ω selection and carry out a continuity test as per following table. Refer to the *WIRING DIAGRAM* for circuit details.



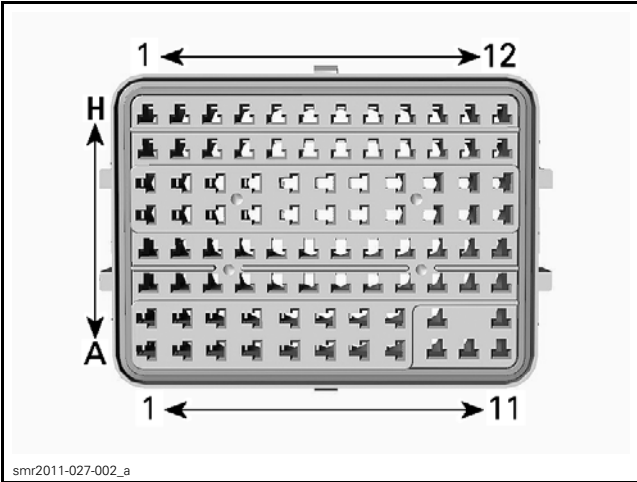
CONTINUITY TEST OF GAUGE GROUND WIRE			
MULTIMETER PROBES			READING
GAUGE CONNECTOR	TEST CONNECTOR ON DIAGNOSTIC HARNESS	FUSE BOX	
Pin 11 (BLACK)	—	H7	Close to 0 Ω
Pin 11 (BLACK)	Pin 1 (BLACK)	—	
—	Pin 1 (BLACK)	H7	



GAUGE CONNECTOR PIN-OUT



TEST CONNECTOR OF DIAGNOSTIC HARNESS



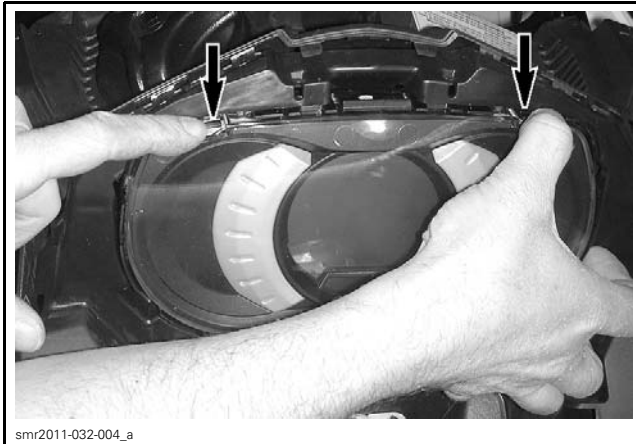
TYPICAL - CONTACT COORDINATES (FRONT VIEW FB1)

5. Repair wiring and connectors as required.

Information Center Removal

GTS, GTI, RXP-X and WAKE

1. Remove the bezel that covers the information center and mirrors, refer to *BODY* subsection.
2. Press in on the two retaining tabs at the top of the information center.

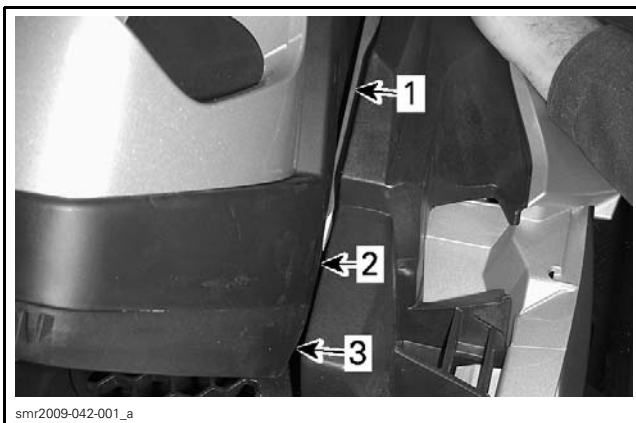


RETAINING TABS AT TOP OF INFORMATION CENTER

3. Pull information center out of console.

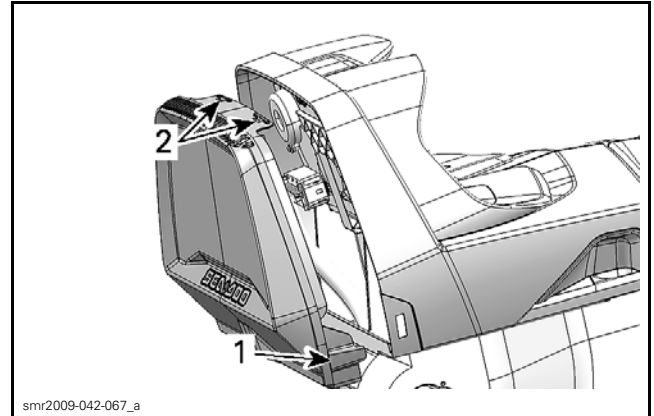
GTX, RTX and Wake Pro

1. Open the front storage compartment cover.
2. Move the steering to its highest position, refer to *BODY* subsection.
3. Using a long flat screwdriver, insert the blade between the lower locking tabs (one each side) of the gauge support cover, and carefully pry the tabs outwards to release them from the gauge support.



1. Long flat screwdriver
2. Locking tab
3. Gauge support cover

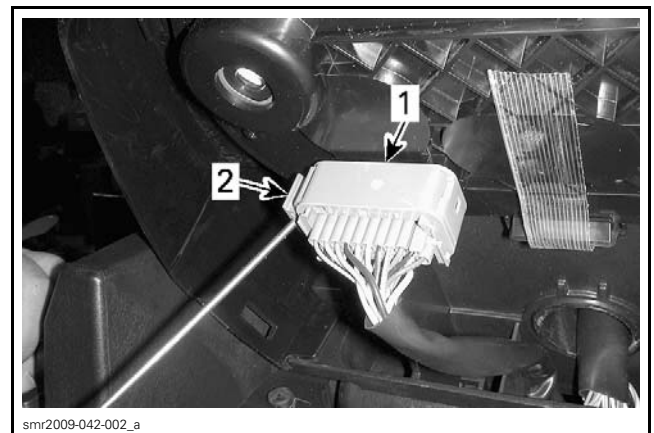
4. Pull the bottom of the panel outwards to remove it from the gauge support.



1. LH side tab
2. Upper retaining tabs

5. Disconnect the gauge connector.

NOTICE Pull connector lock out sideways. Do not twist the screwdriver.



1. Gauge connector
2. Pull out to unlock

6. Insert a flat screwdriver between the upper gauge locking tab and gauge support.



GAUGE REMOVAL

1. Insert screwdriver here

7. Hold back of the gauge with one hand and carefully compress the retaining tab to release the information center from the gauge support.

Subsection XX (INFORMATION CENTER (GAUGE))

Information Center Installation

Installation of the information center is the reverse of the removal procedure. However, pay attention to the following.

1. Apply a small amount of DIELECTRIC GREASE (P/N 293 550 004) to the gauge connector pins.
2. Reconnect gauge connector and ensure proper operation of gauge.
3. Insert and align the bottom of the gauge into the support first, then push the top into the support and ensure it properly locks into the retaining tab.

GTX, RTX and Wake Pro

4. When reinstalling the gauge support cover, first insert the top of the cover into the support. Then align the bottom of the cover with the locking tabs on the outside of the gauge support and push it in until it snaps back in place.

All Models

NOTE: If you are installing a replacement information center, refer to *INFORMATION CENTER REPLACEMENT* in this subsection.

Information Center Replacement

All Models

NOTE: Replacement information centers are delivered already programmed.

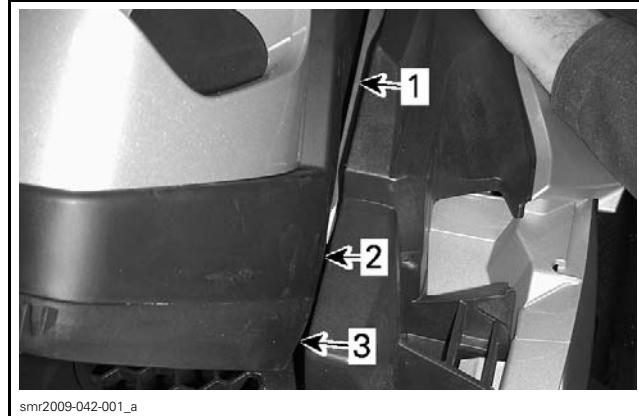
After the information center has been replaced, connect the watercraft to the latest applicable B.U.D.S. version and carry out any updates (if required). Refer to *COMMUNICATION TOOLS AND B.U.D.S.* subsection.

Once the information center has been updated (if required), select the applicable settings as described in *SETTING LANGUAGE AND UNITS OF MEASUREMENT* in this subsection.

GAUGE SUPPORT (RXT, GTX AND WAKE PRO)

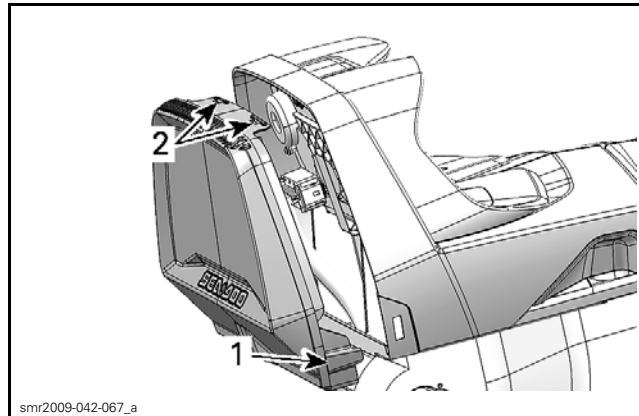
Gauge Support Removal

1. Move steering to its upper most position.
2. Using a long flat screwdriver, unlatch both sides of gauge support cover.



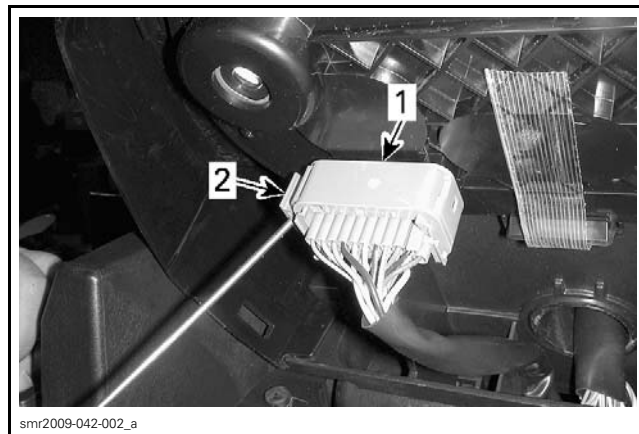
1. Long screwdriver
2. Locking tab
3. Gauge support cover

3. Remove the cover.



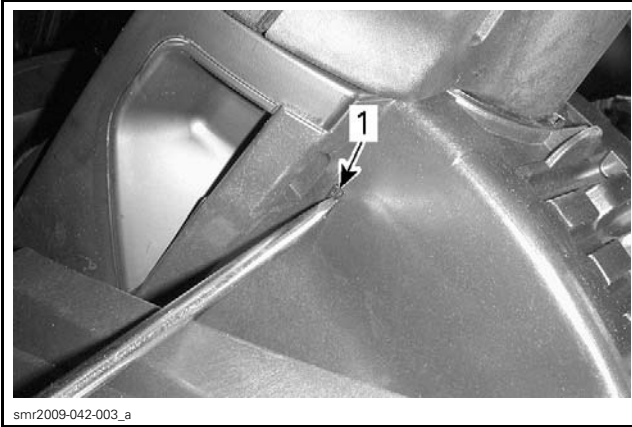
1. LH side tab
2. Upper retaining latches

4. Disconnect the gauge connector.



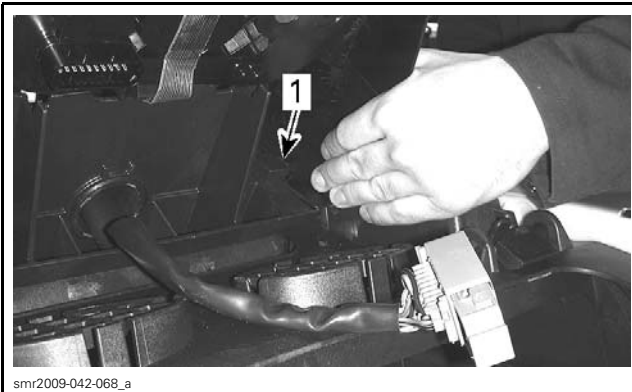
1. Gauge connector
2. Slide out gauge connector tab to unlock

5. Using a small screwdriver, unlock back end of gauge support by pushing on tabs on each side of the steering column.



1. Inner latches

6. Remove gauge support by pulling out its forward tabs (one on each side), then pulling up on the support.



1. Pull out locking tab

Gauge Support Installation

1. Reverse the removal procedure.
2. Ensure proper operation of gauge once reconnected.

MODE/SET AND UP/DOWN ARROW BUTTONS

Overview

The MODE/SET and UP/DOWN arrow buttons assembly contains a series of 4 diodes for the MODE and SET switches, and another 4 diodes for the UP/DOWN arrow switches. Refer to *WIRING DIAGRAM* for simplified diagram of switches.

The center wire to the switches (pin C), is common to both sides of the switch assembly (somewhat like a ground wire). The other two wires (pins A and B), act as signal wires to the information center for each set of switches. They actually each form one branch of an electronic circuit within the information center.

Each diode (in circuit) drops a nominal 0.6 Vdc when conducting electricity. If the circuit current passes through all four diodes (say MODE and SET switches open), a drop of 2.4 Vdc would be measured across the 4 the diodes (pin B to pin C). This voltage drop of 2.4 Vdc measured at pin B tells the gauge the MODE and SET switches are open.

If the MODE switch is pressed, 2 diodes are bypassed. The remaining two diodes in the circuit drop 1.2 Vdc (at pin B).

If the SET switch is pressed, 1 diode is bypassed. The remaining three diodes in the circuit drop 1.8 Vdc (at pin B).

The gauge senses these voltages through pin 17 of the gauge connector, and interprets them as signals that tell it which switch is activated.

If the command signal generated by the closure of a switch concerns another module, a circuit within the gauge will translate it to CAN protocol and transmit it through the CAN bus. The applicable module will react to the command, carry out the function, and transmit the result back through the CAN bus.

The information center will use the signals from the switches and the transmitted information from the other modules, convert them to an indication, and cancel the command signal it sent out once the function has been carried out.

Command signals from the MODE and SET switches are used by the information center only.

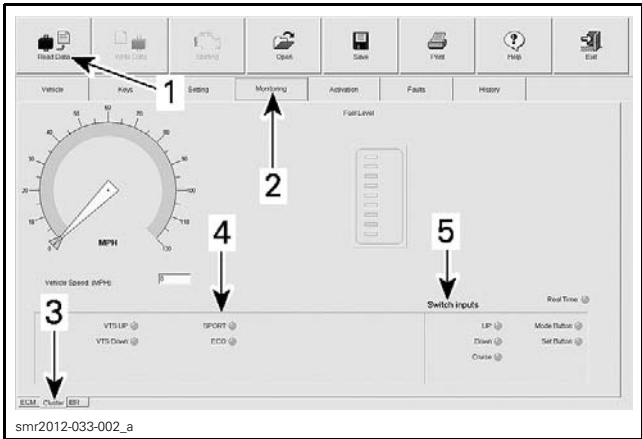
The UP/DOWN arrow switch commands are used by the gauge for certain functions and settings. They will also be translated and sent out through the CAN bus to be used by the ECM for the CRUISE, SKI mode and SLOW SPEED functions for increasing or decreasing speed when the functions are active, and by the iBR for iBR gate positioning in SLOW SPEED mode of operation.

The UP/DOWN switches are also used for VTS trim on RXT 215, GTX 155, GTI SE 130 and 155, and WAKE models.

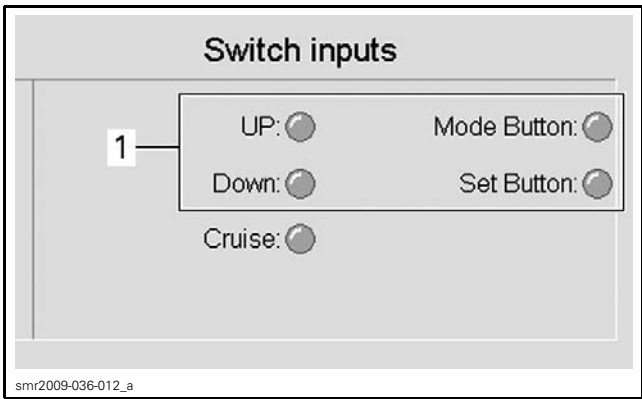
NOTE: The voltages stated previously vary slightly depending on the actual voltage applied to the circuit and the current flow through the diodes. When using a Fluke 115 multimeter for testing in diode test mode, the voltage and current applied by the multimeter are lower than in circuit. The quality of probe contact, the actual probes and leads, and the precision of the meter calibration will all affect the results, which will most likely be slightly lower than nominal values stated.

MODE/SET and UP/DOWN Arrow Buttons Test Using B.U.D.S.

- 1. Connect the watercraft to the latest applicable B.U.D.S. version. Refer to *COMMUNICATION TOOLS AND B.U.D.S.*
 - 2. Press the START/STOP button to energize the electrical system.
- NOTE:** You will need to press the START button every three minutes or the electrical system will shut off.
- 3. Select the **Read Data** button.
 - 4. Choose the **Monitoring** tab at the top of the page.
 - 5. At the bottom LH side of the monitoring page, select the **Cluster** tab.



- 1. Read Data button
 - 2. Monitoring tab
 - 3. Cluster tab
 - 4. LH switch inputs field
 - 5. RH switch inputs field
- 6. Press each of the MODE/SET and UP/DOWN arrow buttons and look for the applicable indicator light to come on in the **Switch inputs** field on lower RH side of the cluster page (Mode, Set, Up or Down).



SWITCH INPUTS

- 1. MODE/SET and UP/DOWN arrow button indicator lights

If each of the gauge button indicator lights come on when the applicable switch is pressed, the problem may be related to the information center. If one or all of the indicator lights does not come on, refer to *MODE/SET AND UP/DOWN ARROW SWITCH TEST USING A MULTIMETER.*

MODE/SET and UP/DOWN Switch Test Using a Multimeter

GTI and WAKE

- 1. Remove the information center from the console, refer to *INFORMATION CENTER REMOVAL (GTI AND WAKE)* in this subsection.

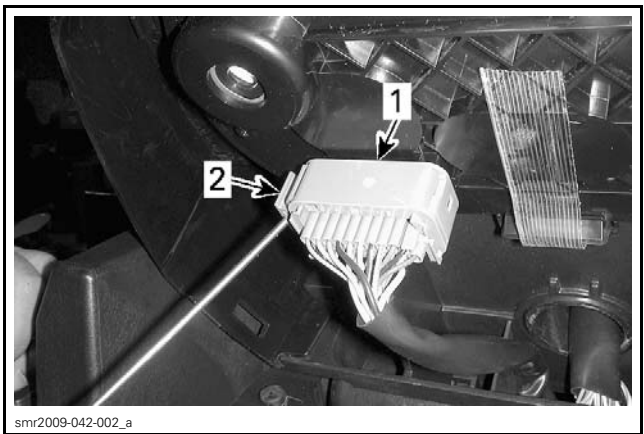
RXT, GTX and WAKE PRO

- 2. Remove the gauge support cover, refer to *INFORMATION CENTER REMOVAL (RXT, GTX AND WAKE PRO)* in this subsection.

All Models

- 3. Disconnect the gauge connector.

NOTICE Pull connector lock out. Do not twist the screwdriver.



- 1. Gauge connector
- 2. Pull out to unlock connector

- 4. Set the FLUKE 115 MULTIMETER (P/N 529 035 868) to the diode test function.

NOTE: It is important to set the multimeter to the diode check function when testing the MODE/SET and UP/DOWN arrow switches as it contain diodes.



5. Test the MODE/SET and UP/DOWN arrow switches as per following tables.

MODE/SET SWITCH TEST			
SWITCH POSITION	FLUKE 115	GAUGE CONNECTOR	VOLTAGE
Switch released	RED lead BLACK lead	Pin 17 Pin 18	Approx. 2 Vdc
	BLACK lead RED lead	Pin 17 Pin 18	OL
MODE depressed	RED lead BLACK lead	Pin 17 Pin 18	Approx. 1.1 Vdc
	BLACK lead RED lead	Pin 17 Pin 18	OL
SET depressed	BLACK lead RED lead	Pin 17 Pin 18	Approx. 1.6 Vdc
	BLACK lead RED lead	Pin 17 Pin 18	OL

UP/DOWN ARROW SWITCH TEST			
SWITCH POSITION	FLUKE 115	GAUGE CONNECTOR	VOLTAGE
Switch released	RED lead BLACK lead	Pin 16 Pin 18	Approx. 2 Vdc
	BLACK lead RED lead	Pin 16 Pin 18	OL
UP depressed	RED lead BLACK lead	Pin 16 Pin 18	Approx. 1.1 Vdc
	BLACK lead RED lead	Pin 16 Pin 18	OL
DOWN depressed	RED lead BLACK lead	Pin 16 Pin 18	Approx. 1.6 Vdc
	BLACK lead RED lead	Pin 16 Pin 18	OL

NOTE: Remember that each diode should drop approximately 0.6 Vdc when positively biased, and read as an OL (open circuit) when negatively biased (leads reversed).

When measuring between pins 17 and 18, or 16 and 18, if an OL is obtained with both positive and negative diode biasing, test the continuity of each wire between the gauge and switch assembly. If continuity is good, replace the switch assembly.

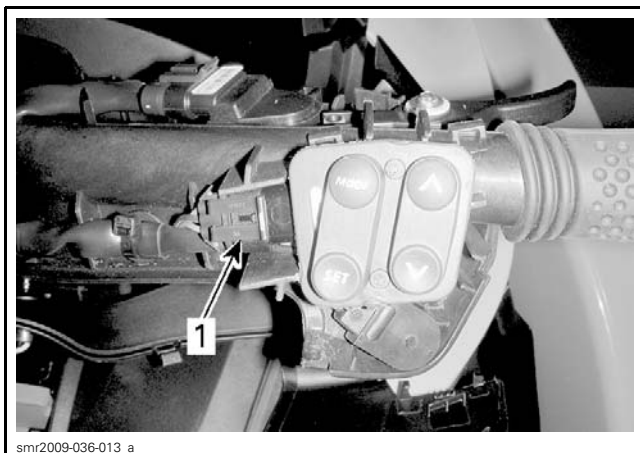
If any reading is significantly different than specified, carry out the same test at the switch connector, refer to the wiring diagram. If you obtain the same results, replace the switch assembly.

If voltages measured on every switch are as specified (or very close to it), the switches and the wiring harness are good. The fault may be within the gauge. Replace the gauge and carry out a new *MODE/SET AND UP/DOWN TEST USING B.U.D.S.* to ensure the problem is solved.

MODE/SET and UP/DOWN Switch Assembly Replacement (Except X Package)

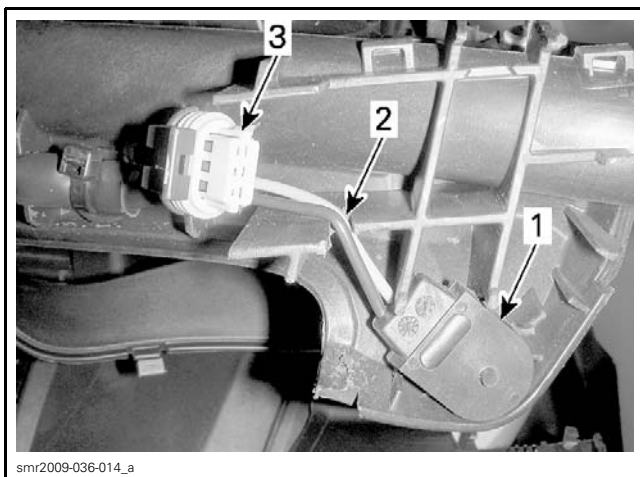
1. Remove steering cover, refer to *STEERING AND O.T.A.S.* subsection.
2. Disconnect connector from switch assembly.

Subsection XX (INFORMATION CENTER (GAUGE))



TYPICAL - GTX LIMITED IS ILLUSTRATED
1. MODE/SET and UP/DOWN switch connector

3. Remove switch assembly from support by lifting it off the support.
4. As applicable, ensure wiring from cruise switch is properly inserted in slot provided before installing MODE/SET and UP/DOWN arrow switch assembly.



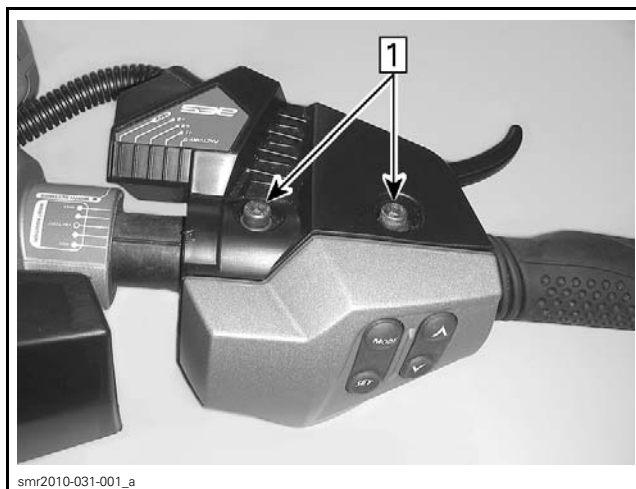
TYPICAL - GTX LIMITED IS ILLUSTRATED
1. Cruise switch
2. Wiring in slot provided in support
3. MODE/SET and UP/DOWN arrow switch connector

5. Apply a small amount of DIELECTRIC GREASE (P/N 293 550 004) on switch contact pins.
6. Install connector on new switch assembly.
7. Insert switch assembly in switch support.
8. Install steering cover, refer to *STEERING AND O.T.A.S.*

MODE/SET and UP/DOWN Switch Assembly Replacement (X Package Only)

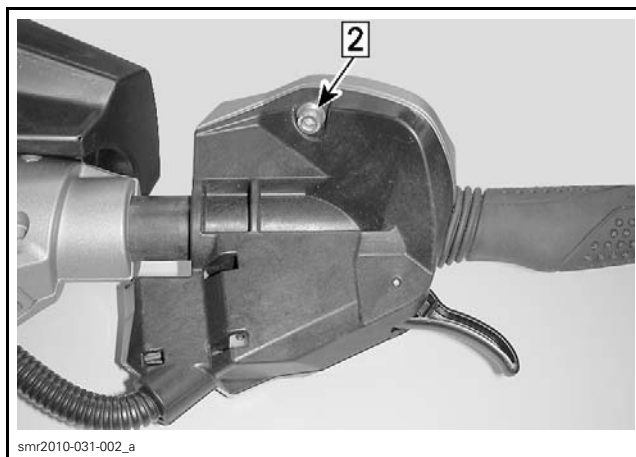
Switch Removal

1. Remove the 2 screws in the front of the upper handlebar housing.



Step 1: Remove these two screws

2. Remove the screw at back of the handlebar.

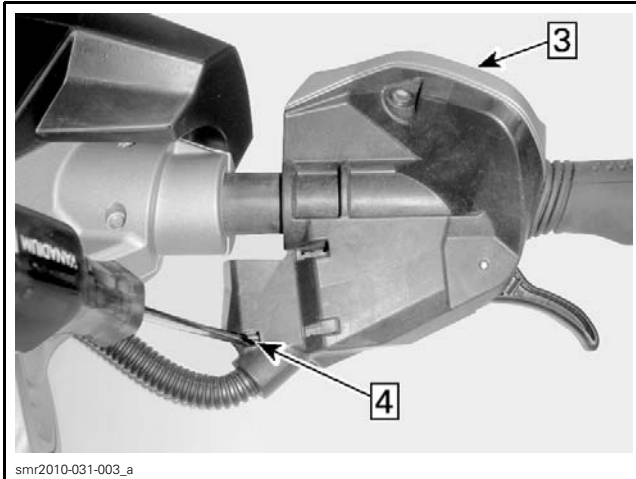


Step 2: Remove this screw

NOTICE Do not try to pull the cover off the housing at this time or damage to the cover will occur.

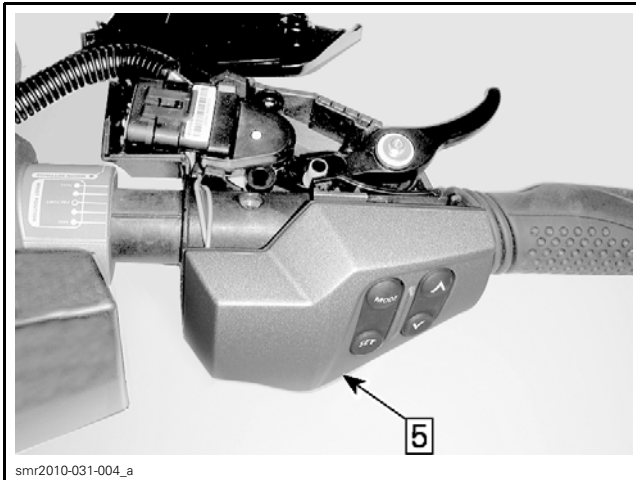
3. Take hold of the housing cover to prevent it from falling off the handlebar when unlocking the upper housing in the following step.
4. Using a small screwdriver, unlock the tab that retains the upper housing and pull the upper housing off.

NOTICE As you remove the upper housing, hold on to the housing cover to prevent it from falling off the handlebar.



Step 3: Hold on to this housing cover
Step 4: Unlock this tab

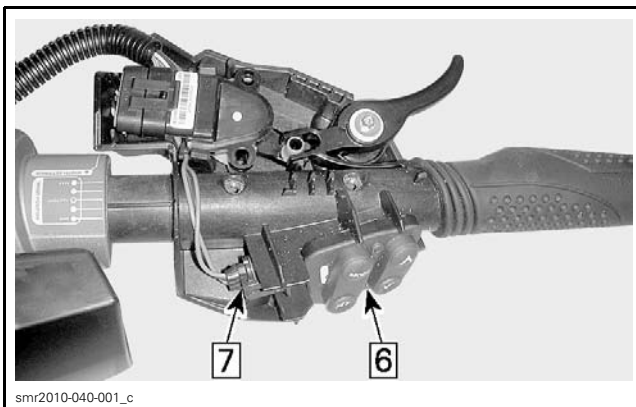
5. Remove the housing cover from the handlebar.



Step 5: Remove housing cover

6. Remove switch from handlebar housing.

7. Remove connector from switch.

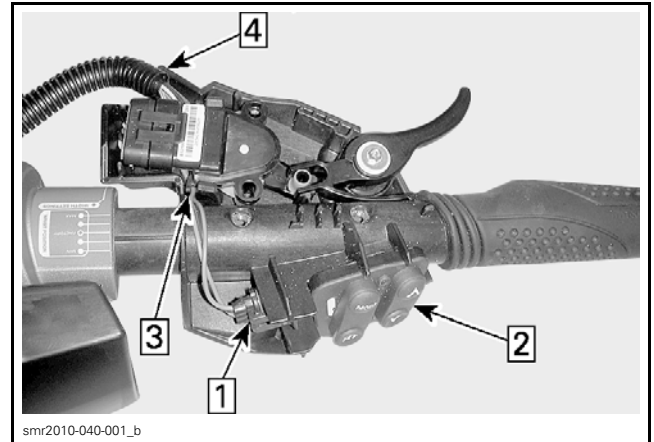


Step 6: Remove switch
Step 7: Remove connector

Switch Installation

Installation is the reverse of the removal procedure however, pay attention to the following.

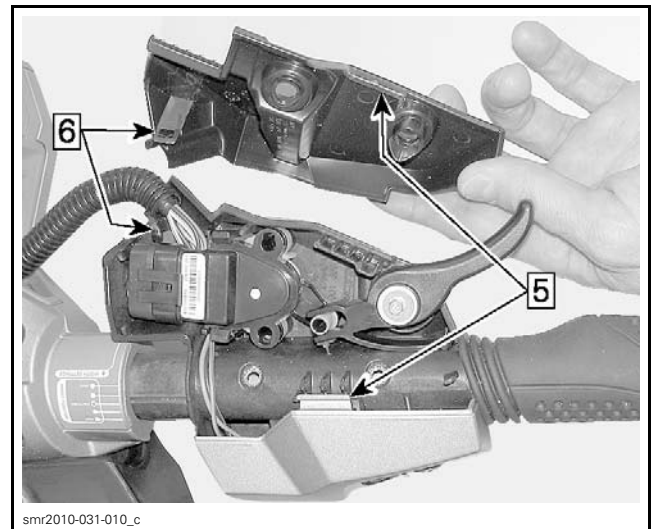
1. Install connector on switch assembly.
2. Insert switch assembly in handlebar housing.
3. Ensure proper wire routing.
4. Ensure proper positioning of corrugated conduit.



Step 1: Install connector
Step 2: Insert switch in handlebar housing
Step 3: Ensure proper wire routing
Step 4: Ensure proper positioning of corrugated conduit

5. Ensure engagement of housing cover retaining tabs.

6. Ensure engagement of upper housing locking tabs.



Step 5: Ensure engagement of housing cover retaining tabs
Step 6: Ensure engagement of upper housing locking tabs

7. Position the upper housing on the handlebar housing.

8. Ensure proper engagement of the upper housing and cover tabs.

Subsection XX (INFORMATION CENTER (GAUGE))

9. Install the three retaining screws for the upper housing and tighten them as specified.

UPPER SWITCH HOUSING SCREW TORQUE
2 N•m (18 lbf•in)

10. Connect watercraft to the latest applicable B.U.D.S. version, refer to *COMMUNICATION TOOLS AND B.U.D.S.* subsection.
11. Ensure there are no fault codes, refer to *DIAGNOSTIC AND FAULT CODES* subsection.
12. Ensure proper operation of throttle lever and switch assembly.

WATER TEMPERATURE SENSOR

The water temperature sensor is connected to the ECM

Water from the jet pump passes through the intercooler inlet hose where the sensor measures its temperature, generating a signal that is interpreted by the ECM module. The ECM module then sends the information through the can-bus to the information center that translates it into a temperature indication.

If the temperature display is 0 degrees, water temperature sensor might be defective. Verify water temperature sensor and replace if necessary. r.

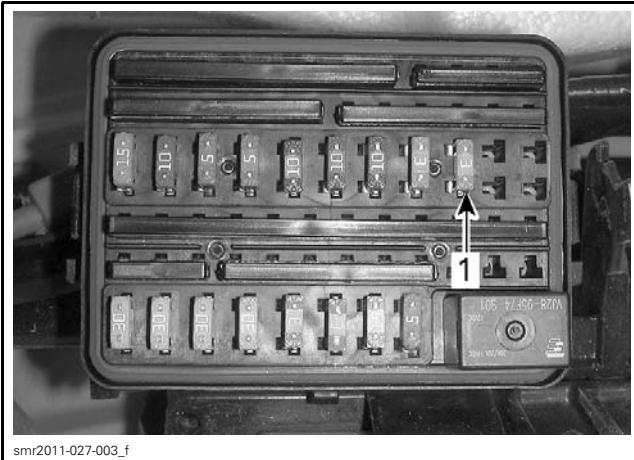
DEPTH SOUNDER

 **WARNING**

Never use the depth gauge as a warning device to ride in shallow water. Use it as a navigation guide only. Not to be used to get precise navigation data.

Depth Sounder Troubleshooting

DEPTH SOUNDER TROUBLESHOOTING		
SYMPTOM	POSSIBLE CAUSE	REMEDY
Nothing is displayed in the information center	Depth sounder not connected.	Properly connect depth sounder.
	Depth sounder not properly installed.	Make sure depth sounder is properly installed in battery holder base. There must be no air gap between hull and silicone pad(s).
	12 Vdc wire or ground wire to depth sounder open.	Check fuse 3 in FB1 and wiring harnesses.
	Problem with communication link wires.	Check WHITE/BLACK and WHITE/RED wires to CAN bus-bars in FB1.
- - - - (ft or m) is displayed	Watercraft is not in water.	Launch watercraft in water and recheck.
	There is air between silicone pad and depth sounder or between depth sounder and battery holder base.	Remove depth sounder. Replace silicone pad.
	Depth sounder is defective.	Try a new depth sounder.

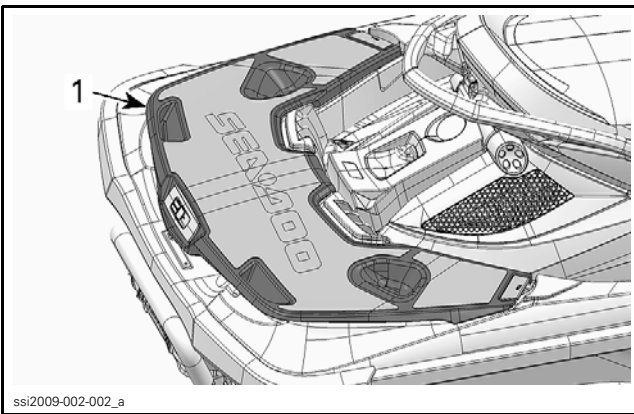


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1. Depth sounder 3A fuse (FB1)

Depth Sounder Removal

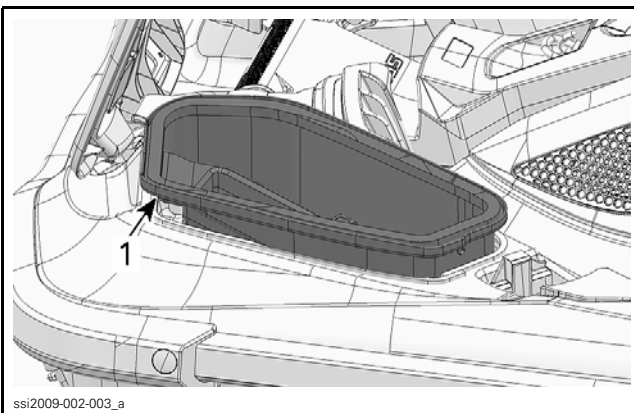
1. Open the boarding platform.



ssi2009-002-002_a

1. Re-boarding platform

2. Remove the starboard (RH) storage bin.



ssi2009-002-003_a

1. Starboard storage bin

3. Disconnect the diagnostic connector from its holder.



smr2011-032-003_c

TYPICAL

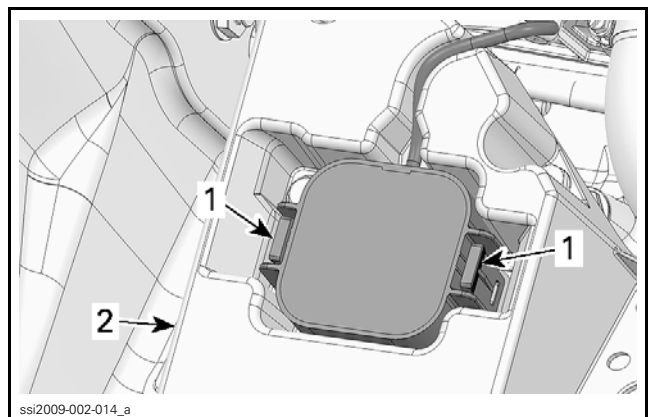
1. Diagnostic connector

4. Remove the electrical component support from the battery holder, refer to *CHARGING SYSTEM*.
5. Remove the battery (with holder) from the watercraft, refer to *CHARGING SYSTEM*.

⚠ WARNING

Always disconnect the battery cables exactly in the specified order, BLACK (-) battery cable first then the RED (+) cable last.

6. Unlock the depth sounder clocking tabs from the battery holder base and pull the depth sounder out from the base.



ssi2009-002-014_a

1. Locking tabs
2. Battery holder base

7. Disconnect the depth sounder connector from the wiring harness.

Depth Sounder Inspection

Ensure the silicone pad is in good condition.

Subsection XX (INFORMATION CENTER (GAUGE))

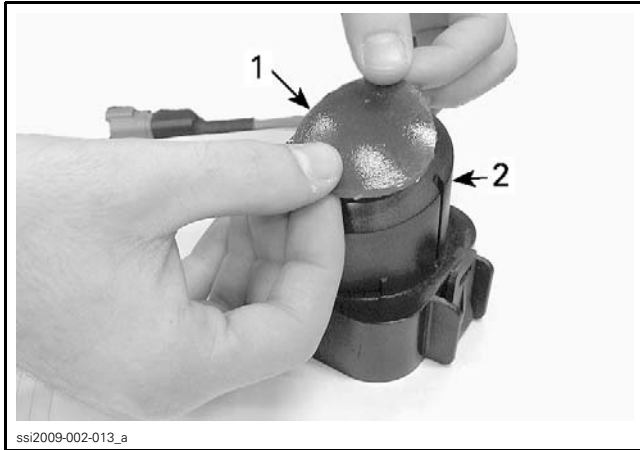
NOTE: There must not be any air trapped between the bottom of the depth sounder and the bilge. Otherwise, the sounder will not function correctly.

If the silicone pad is damaged, replace it.

Depth Sounder Silicone Pad Replacement

1. Place the flat side of the depth sounder on a level surface.
2. Remove the old silicone pad from the bottom of the depth sounder.
3. Clean the concave surface of depth sounder.
4. Remove both protectors from the silicone pad.
5. Apply silicone pad on depth sounder.

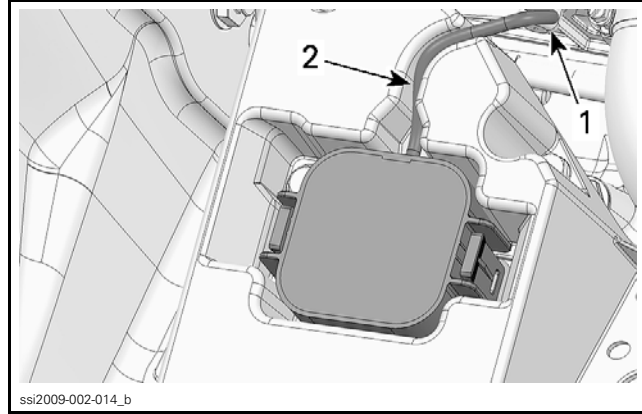
NOTICE Make sure to not trap air between silicone pad and depth sounder. Otherwise, the device will not work.



1. Silicone pad
2. Depth sounder

Depth Sounder Installation

1. Insert the depth sounder in the battery holder base while paying attention to the position of the wiring on the sounder with the groove in the battery holder base.
2. Press firmly on the depth sounder until both locking tabs are locked into the base.
3. Connect the sounder connector to the wiring harness and route the wiring in the groove provided in the battery holder base.



1. Depth sounder connector
2. Wiring harness

4. After installation:
 - 4.1 Try pulling the sounder out to ensure it is properly locked in the battery support base.
 - 4.2 Try pushing on depth sounder. You must feel a resistance (no air gap).

NOTE: An air gap can be eliminated by adding an additional silicone pad.

5. Install the battery and electrical component support in the reverse order of removal, refer to *CHARGING SYSTEM*.
6. Install the diagnostic connector in its holder.
7. Carry out the following procedure: *TESTING DEPTH SOUNDER OPERATION*.

Testing Depth Sounder Operation

1. Press START/STOP button to activate gauge.
2. Confirm the depth sounder icon is active in gauge.



TYPICAL
1. Depth sounder icon

3. If icon is not active, check in BUDS that icon box is checked.

NOTE: When watercraft is not in water, the icon is active but there is no reading. To verify proper operation, launch watercraft in water and compare depth indication with actual depth.