

**ski-doo**



## COMPACT DIGITAL DISPLAY

Operator's Guide



520002726

Original  
Instructions

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# INTRODUCTION

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## *INTRODUCTION*

If your vehicle is equipped with a Compact Digital Display, this guide is a complement to the vehicle operator guide. It covers the display functions and the vehicle functionality related to the display.

Keep this guide in the vehicle at all time.

# **COMPACT DIGITAL DISPLAY**

 **WARNING**

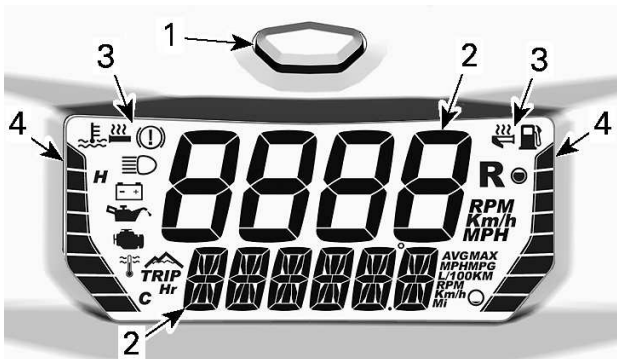
**Reading the digital display can distract from the operation of the vehicle, particularly from constantly scanning the environment.**

**NOTE:**

The digital display is factory preset in Imperial units and in English. To change units or language, contact an authorized BRP snowmobile dealer.



## DISPLAY FEATURES



### COMPACT DIGITAL DISPLAY

1. Mode button
2. Digits
3. Icons
4. Bar gauges

The digital display also has a built-in beeper.

### Digital Display

#### WARNING

Never adjust or set functions on the digital display while riding the vehicle.

To set the displays to your preference, refer to *Display Combination Selection*.

#### **Upper Display**

The upper display is used to display:

- Vehicle speed.
- Engine speed (RPM).



1. Upper Display

### Lower Display

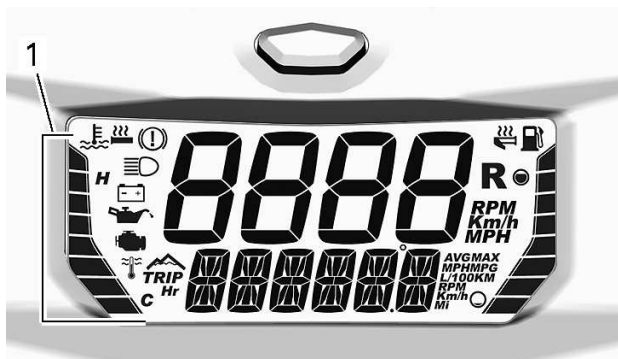
The lower display is used to display

- Various information (in combination with the upper display)
- Messages, refer to *Icons and Messages and Monitoring System* for details.
- Fault codes, refer to *Monitoring System* for details.



1. Lower display

## LH side Bar Gauge



1. LH bar gauge

## LH Bar Gauge Information

Engine coolant temperature

Heated grips level

Lap (in lap record mode)

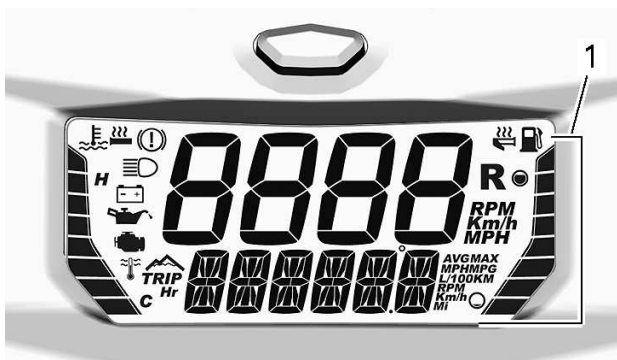
The LH side bar gauge displays the engine coolant temperature except while adjusting the heating elements.

**NOTICE**

**If engine overheats, stop vehicle in a safe place. Refer to TROUBLESHOOTING.**

For details on heated grips operation, refer to *Heated Grips and Throttle Lever Switch* in *Secondary Controls*.

## RH Side Bar Gauge



1. RH bar gauge

### RH Bar Gauge Information

Fuel level

Heated throttle lever level

Record or playback telltale (in lap record mode)

The RH side bar gauge displays the fuel level except while adjusting the heated throttle lever.

For details on heated throttle lever operation, refer to *Heated Grips and Throttle Lever Switch* in *Secondary Controls*.

## Display Combination Selection

The upper and lower displays can be set as combination only. They cannot be set separately.



To scroll through the information options, press and release the mode button repeatedly until the desired information is displayed.



1. Gauge mode button

## DISPLAY FEATURES

refer to the following table for available combinations.

Available Display Combinations				
	Upper Display	Icon/ Specific information	Lower Display	Icon/ Specific information
1	Vehicle speed OR Engine RPM	<b>Km/h or MPH OR RPM</b>	Vehicle speed OR Engine speed	<b>Km/h or MPH OR RPM</b>
	Engine RPM	<b>RPM</b>	Altitude	 <b>M or F</b>
2	Vehicle speed	<b>Km/h or MPH</b>	Altitude	 <b>M or F</b>
3			Odometer	<b>Km or MI</b>
			Trip odometer A(1)	<b>TRIP</b>  <b>Km or MI</b>
4			Trip odometer B (1) (2)	<b>TRIP</b>  <b>Km or MI</b>
5				<b>Km or MI</b>
6			Trip hour (1)	<b>TRIP Hr</b>
7			Top speed (1)	<b>MAX</b>  <b>Km/h or MPH</b>

			Average speed (1)	<b>AVG</b>
8				Km/h or MPH
9	Vehicle speed	Km/h or MPH	Top RPM (1)	<b>MAX</b> RPM
10			Average fuel consumption	<b>AVG</b> L/100Km or MPG
11				
12			Engine coolant temperature	E and C or F
(1) Press and hold the mode button to reset (2) Resetting the trip odometer B also resets the average fuel consumption				




**NOTE:**

Make sure to display the vehicle speed whenever this information is necessary.


## Icons and Messages

See table below for usual icons and messages.

For details on malfunction pilot lamps and messages, refer to *Monitoring System*.

Icon	Beeper	Message Lower Display	Description
—	2 short beeps	GOOD KEY	At power up, with a good key. Vehicle ready for use.
—	—	BREAK-IN	Displayed during break-in period. Refer to <i>Break-in Period</i>
	4 short beeps every 5 minutes	LOW OIL	Injection oil level is low. Stop vehicle in a safe place then, replenish injection oil reservoir.
 (blinking)	—	—	Low fuel level. No bar left in fuel level display. Replenish fuel tank as soon as possible.
	Long beeps repeating slowly	REVERSE	Reverse is selected.
	3 short beeps	REV. FAIL	Reverse did not engage, try again.



Icon	Beeper	Message Lower Display	Description
	—	—	High beam headlights are selected.
—	—	WARM UP	Engine and/or injection oil need to warm-up before normal operation. The engine's RPM is limited until desired temperature is reached (up to 10 minutes when driving). Warm-up period may occur after a restart in very cold weather.

**NOTE:**

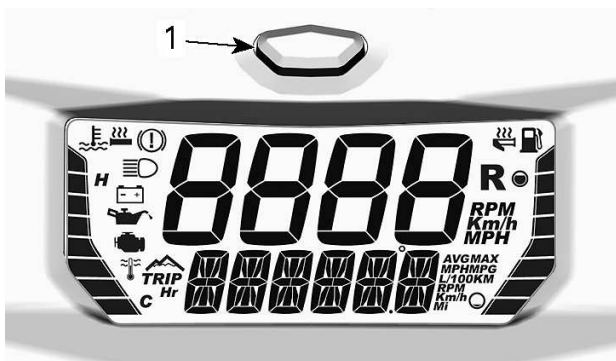
Additional function may be available for your vehicle, see the appropriate Ski-Doo accessory catalog.

## Lap Record Mode

### Entering Lap Record Mode

To enter the lap record mode:

- Select the odometer. Refer to *Display Combination Selection*.
- Press and HOLD the mode button.

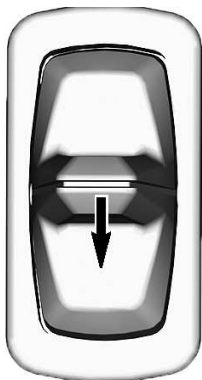


1. Gauge mode button

To navigate through the functions (RECORD, PLAY or SELECT), repeatedly push DOWN on the heating elements (heated grips and throttle lever) switch.

### NOTE:

It is not possible to adjust the heating elements level while in **Lap Record Mode**.



### ***PUSH DOWN TO NAVIGATE THROUGH FUNCTIONS***

#### ***Exiting Lap Record Mode***

To exit the lap record mode, press the mode button.

#### ***Selecting Information on Lower Display (SELECT)***

The information recorded by default are:

- Engine speed (RPM) on the upper display
- Vehicle speed on the lower display.

The upper display always records the engine speed (RPM) but the lower display can record one of the following:

- Odometer (resets to 0 at each new recording)
- Vehicle speed
- Top speed (resets to 0 at each new recording)
- Top RPM (resets to 0 at each new recording)
- Engine coolant temperature (if equipped).

To change the information to be recorded on the lower display:

- Enter the lap record mode
- Choose the SELECT function, by repeatedly pushing DOWN the heating elements switch.
- Push the heating elements switch UP once to activate the SELECT mode.
- To choose the information to be recorded, repeatedly push DOWN the heating elements switch.
- To confirm the selection, push UP the heating elements switch (the word "SELECT" will be displayed to confirm the selection).

**NOTE:**

Once the selection is made, you have 15 seconds to confirm it. Otherwise, the selection will be cancelled.

You can now record the selected information.

***Recording Information (RECORD)***

To record information:

- Enter the lap record mode
- Enter the RECORD function, by repeatedly pushing DOWN the heating elements switch
- To start recording, push UP the heating elements switch
- To pass to the following lap (following recording), push UP the heating elements switch
- To stop recording, push DOWN the heating elements switch.

While recording, one bar of the RH bar gauge constantly moves upwards to indicate the gauge is currently recording.

The LH bar gauge acts as a lap counter. One bar means first lap, two bars means second lap, and so on. A maximum of 8 laps can be recorded.

If the memory reaches its maximum capacity, the recording will stop by itself.

***Playing Back a Recorded Lap (PLAY)***

To playback a recording:

- Enter the lap record mode
- Enter the PLAY function, by repeatedly pushing DOWN the heating elements switch
- To start a playback, push UP the heating elements switch
- To pass to the following lap (following recording), push UP the heating elements switch
- To stop a playback, push DOWN the heating elements switch.

If no action is taken during playback, each turn will be displayed one after the other until the end of the recordings.

While playing back, one empty bar of the RH bar gauge constantly move upwards to indicate the gauge is currently playing back.

The LH bar gauge acts as a lap counter. One bar means first lap, two bars means second lap, and so on.

# **E-TEC ENGINE STORAGE PROCEDURE**

## E-TEC ENGINE

To engage procedure, do the following:

1. Place the vehicle in a well ventilated area.
2. Start the engine and let it run at idle speed until it reaches its operating temperature (watch the coolant temperature on the display or verify the rear heat exchanger becomes warm).
3. Press and release the mode button on the gauge until the odometer is displayed on the lower display.



1. Gauge mode button

### NOTE:

The storage mode does not function in other modes (trip A, trip B and hr trip).

4. While holding the mode button on the gauge, rapidly switch from HIGH to LOW beam until the gauge displays **PRESS/HOLD BUTTON FOR OIL INJECTION**.
5. Release all buttons.
6. Again, press and hold the mode button for 2 - 3 seconds.
7. When gauge displays **OIL**, release button and wait for the lubrication function to end.

Do not touch anything during engine lubrication cycle.

The engine lubrication function takes approximately 1 minute. During this time the engine RPM will increase slightly to approximately 1600 RPM and the oil pump will "oil flood" the engine.

At the end of engine lubrication procedure, the ECM will turn the engine off.

Remove tether cord cap from engine cut-off switch.

***NOTICE***

**Do not start the engine during storage period.**

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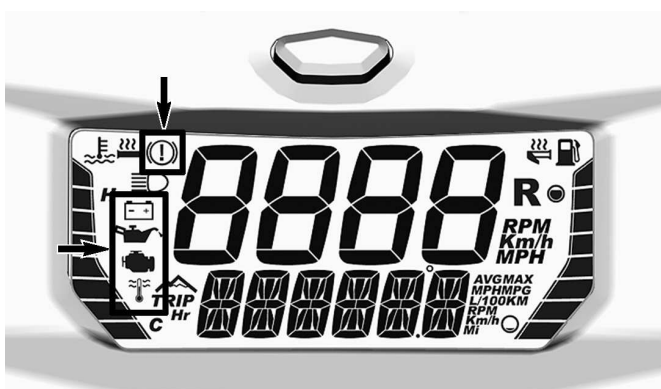


# **MONITORING SYSTEM**

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## PILOT LAMPS, MESSAGES AND BEEPER CODES

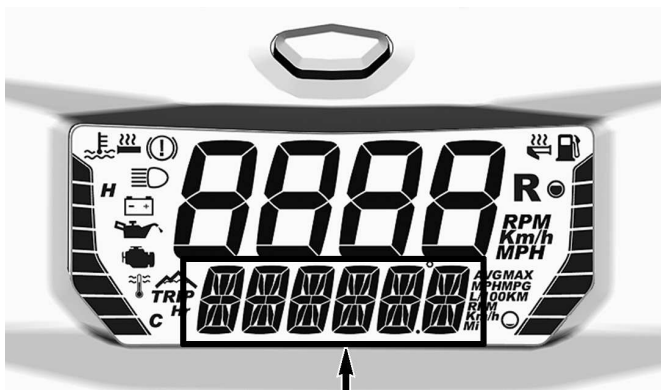
Gauge pilot lamps will inform you if an anomaly occurs or to inform you of a particular condition.



### PILOT LAMPS

Pilot lamp can flash alone or in combination with another lamp.

The lower display is used to give you a brief description if an anomaly occurs or to inform you of a particular condition.



### LOWER DISPLAY



Messages will be displayed with a beep code and pilot lamp(s).




Beeper codes will be heard, and messages will be displayed to catch your attention.

Refer to following table for details.


**NOTE:**

Some of the listed pilot lamps and messages do not apply to all models.

Pilot Lamp ON	Beeper	Message Display	Description
	4 short beeps every 30 seconds	HIGH ENGINE TEMPERATURE	Engine is overheating, reduce snowmobile speed and run in loose snow or stop engine immediately and let engine cool down. Check coolant level, refer to <i>Maintenance</i> . If coolant level is correct and overheating persists, contact an authorized BRP snowmobile dealer. Do not run the engine if condition persists.
		MUFFLER OVERHEAT	Reduce speed or stop engine. Let engine cool down and restart. If overheating persists, contact an authorized BRP snowmobile dealer. Do not run the engine if condition persists.
	Short beeps repeating rapidly	HIGH ENGINE TEMPERATURE	Critical overheat. Stop engine immediately and let engine cool down. Check coolant level, refer to <i>Maintenance</i> . If coolant level is correct and overheating

Pilot Lamp ON	Beeper	Message Display	Description
			persists, contact an authorized BRP snowmobile dealer. Do not run the engine if condition persists.
		MUFFLER OVERHEAT	Critical overheat. Stop engine immediately and let engine cool down. If overheating persists, contact an authorized BRP snowmobile dealer. Do not run the engine if condition persists.
		ECM OVERHEAT	
	4 short beeps every 5 minutes	BATT VOLT	Indicate a low or high battery voltage condition. Visit an authorized BRP snowmobile dealer as soon as possible.
	4 short beeps	CHECK ENGINE	Engine fault, see an authorized BRP snowmobile dealer, repair shop or person of your own choosing as soon as possible.
	—	—	Displayed when brake is applied for more than 15 seconds while throttle lever is squeezed and vehicle is moving at more than 5 km/h (3 mph).

Pilot Lamp ON	Beeper	Message Display	Description
—	4 short beeps every 5 minutes	KNOCK	<p>Engine detonation (RPM is limited when this condition occurs).</p> <ul style="list-style-type: none"> <li>– Ensure recommended fuel is used.</li> <li>– Check fuel quality, replace if necessary.</li> <li>– If fault still occurs, contact an authorized BRP snowmobile dealer, repair shop, or person of your own choosing.</li> </ul>
—	4 short beeps every 5 minutes	REV LIMIT	Engine RPM limited for protection when certain faults occur.
—	—	OVER REV	Indicates that maximum engine RPM is reached. Check clutch calibration.
—	Short beeps repeating rapidly	SHUTDOWN	Shutdown procedure in force due to engine overheating or fuel pump problem.
—	2 short beeps every 10 seconds	BELT OVERHEAT	The belt temperature reaches 75 C 167 F. Message and beeps disappears when the temperature drops below 75 C 167 F.
—	2 short beeps	BELT OVERLOAD	If a critical condition is detected over 1 minute.

Pilot Lamp ON	Beeper	Message Display	Description
	every 15 seconds		Message and beeps disappears if the driver reduces critical style of riding.
—	2 short beeps every 10 seconds	BELT OVERLOAD	If it stills in critical condition over 10 minutes. Message will not disappear until the engine shutdown.
DESS	2 short beeps	—	Good key, vehicle ready to operate.
	Short beeps, repeating slowly	WRONG KEY	Unable to read key (bad connection). Make sure the key is clean and correctly snapped on post.
	Short beeps repeating rapidly	BAD KEY	Invalid key or key not programmed. Use the proper key for the vehicle or have the programmed.
 (blinking)	—	—	Fuel level sensor problem.

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