

# can-am®



## 2015 ROADSTER OPERATOR'S GUIDE

Includes Safety, Vehicle  
and Maintenance Information

# SPYDER® RT™

### WARNING

**Learn how the Spyder roadster is different.**

**Read** this operator's guide and watch the safety DVD.

**Complete** a training course (if available), practice and become proficient with the controls.

**Consult** local laws - license requirements vary by location.

**Keep** this guide in the front storage compartment.

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Original Instructions





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# FOREWORD

|            |   |
|------------|---|
| Deutsch    | Dieses Handbuch ist möglicherweise in Ihrer Landessprache verfügbar. Bitte wenden Sie sich an Ihren Händler oder besuchen Sie: <a href="http://www.operatorsguide.brp.com">www.operatorsguide.brp.com</a> . |
| English    | This guide may be available in your language. Check with your dealer or go to: <a href="http://www.operatorsguide.brp.com">www.operatorsguide.brp.com</a> .   |
| Español    | Es posible que este manual esté disponible en su idioma. Consulte a su distribuidor o visite: <a href="http://www.operatorsguide.brp.com">www.operatorsguide.brp.com</a> .                                  |
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| Português  | Este manual pode estar disponível em seu idioma. Fale com sua concessionária ou visite o site: <a href="http://www.operatorsguide.brp.com">www.operatorsguide.brp.com</a> .                                 |
| Suomi      | Käyttöohjekirja voi olla saatavissa omalla kielelläsi. Tarkista jälleenmyyjältä tai käy osoitteessa: <a href="http://www.operatorsguide.brp.com">www.operatorsguide.brp.com</a>                             |
| Svenska    | Denna bok kan finnas tillgänglig på ditt språk. Kontakta din återförsäljare eller gå till: <a href="http://www.operatorsguide.brp.com">www.operatorsguide.brp.com</a> .                                     |

Congratulations on your purchase of a new Can-Am™ Roadster. It is backed by the Bombardier Recreational Products Inc. (BRP) warranty and a network of authorized dealers ready to provide the parts, service or accessories you may require.

Your dealer is committed to your satisfaction. He has taken training to perform the initial set-up and inspection of your roadster before you took possession.

At delivery, you were informed of the warranty coverage and signed the *PREDELIVERY CHECK LIST* to ensure your new vehicle was prepared to your entire satisfaction.

## Know Before you Go


For your safety and the safety of passengers and bystanders, read the following sections before you operate the Spyder™ roadster:


- *GENERAL PRECAUTIONS*
- *VEHICLE INFORMATION*
- *SAFE OPERATING INSTRUCTIONS*
- *PRE-RIDE INSPECTION.*


Experienced motorcyclists should pay special attention to the *WHAT'S DIFFERENT ABOUT THE SPYDER ROADSTER* subsection.

## Safety Messages

The types of safety messages, what they look like and how they are used in this guide are explained as follows:

The safety alert symbol  indicates a potential injury hazard.

|  |
|--|
|  <b>WARNING</b> |
| Indicates a potential hazard, if not avoided, could result in serious injury or death.           |

 **CAUTION** Indicates a hazard situation which, if not avoided, could result in minor or moderate injury.

**NOTICE** Indicates an instruction which, if not followed, could severely damage vehicle components or other property.

## About this Operator's Guide

This Operator's Guide was written in North America in a right-lane driving environment. Please adapt your application of these maneuvers to your jurisdiction and rules of the road.

In this Operator's Guide, the word motorcycle typically refers to a two-wheeled motorcycle.

Keep this Operator's Guide in the front storage compartment so that you can refer to it for things such as maintenance, troubleshooting and instructing others.

If you want to view and/or print an extra copy of your Operator's Guide, simply visit the following website [www.operatorsguide.brp.com](http://www.operatorsguide.brp.com).

The informations contained in this document are correct at the time of publication. BRP, however, maintains a policy of continuous improvement of its products without imposing upon itself any obligation to install them on products previously manufactured. Due to late changes, some differences between the manufactured product and the descriptions and/or specifications in this guide may occur. BRP reserves

the right at any time to discontinue or change specifications, designs, features, models or equipment without incurring any obligation upon itself.

This Operator's Guide and the *SAFETY DVD* video should remain with the vehicle when it is sold.

## Refer to Other Sources of Information

In addition to reading this Operator's Guide, you should read the Safety Card on the vehicle and watch the *SAFETY DVD* video.

If possible, take a training course that is specifically designed for the Spyder roadster. Check our website at [www.can-am.brp.com](http://www.can-am.brp.com) for more information about upcoming training course availability. If you cannot take a training course specifically designed for the Spyder roadster, it is a good idea to take a motorcycle training course, since some of the skills required are similar and information about managing risk on the road is taught and similarly applies to riding your Spyder roadster.

## Acknowledgment

BRP wishes to thank the Motorcycle Safety Foundation (MSF) for giving permission to BRP to use their material related to street motorcycle safety found in this Operator's Guide.

The MSF is an internationally recognized not for profit foundation and is supported by motorcycle manufacturers. It provides training, tools and partnerships to the motorcycle safety community. Visit its website at [www.msf-usa.org](http://www.msf-usa.org).

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# GENERAL PRECAUTIONS

## Avoid Carbon Monoxide Poisoning

All engine exhaust contains carbon monoxide, a deadly gas. Breathing carbon monoxide can cause headaches, dizziness, drowsiness, nausea, confusion and eventually death.

Carbon monoxide is a colorless, odorless, tasteless gas that may be present even if you do not see or smell any engine exhaust. Deadly levels of carbon monoxide can collect rapidly, and you can quickly be overcome and unable to save yourself. Also, deadly levels of carbon monoxide can linger for hours or days in enclosed or poorly ventilated areas. If you experience any symptoms of carbon monoxide poisoning, leave the area immediately, get fresh air and seek medical treatment.

To prevent serious injury or death from carbon monoxide:

- Never run the vehicle in poorly ventilated or partially enclosed areas such as garages, carports or barns. Even if you try to ventilate engine exhaust with fans or open windows and doors, carbon monoxide can rapidly reach dangerous levels.
- Never run the vehicle outdoors where engine exhaust can be drawn into a building through openings such as windows and doors.

## Avoid Gasoline Fires and Other Hazards

Gasoline is extremely flammable and highly explosive. Fuel vapors can spread and be ignited by a spark or flame many feet away from the engine. To reduce the risk of fire or explosion, follow these instructions:

- Refuel outdoors in a well ventilated area away from flames, sparks, lit cigarettes and other sources of ignition.
- Never add fuel with engine running.

- Never top off the fuel tank. Leave some room for the fuel to expand with temperature changes.
- Wipe up any spilled fuel.
- Never start or operate the engine with the fuel cap removed.
- Use only an approved red gasoline container to store fuel.
- Do not carry gasoline containers in the front storage compartment or anywhere else on the vehicle.

Gasoline is poisonous and can cause injury or death.

- Never siphon gasoline by mouth.
- If you swallow gasoline, get any in your eye or inhale gasoline vapor, see your doctor immediately.

If gasoline spills on you, wash with soap and water and change your clothes.

## Avoid Burns from Hot Parts

The exhaust, oil and cooling systems, and engine become hot during operation. Avoid contact during and shortly after operation to avoid burns.

## Accessories and Modifications

Do not make unauthorized modifications, or use attachments or accessories that are not approved by BRP. Since these changes have not been tested by BRP, they may increase the risk of crashes on the road or injuries, and they can make the vehicle illegal for use on the road.

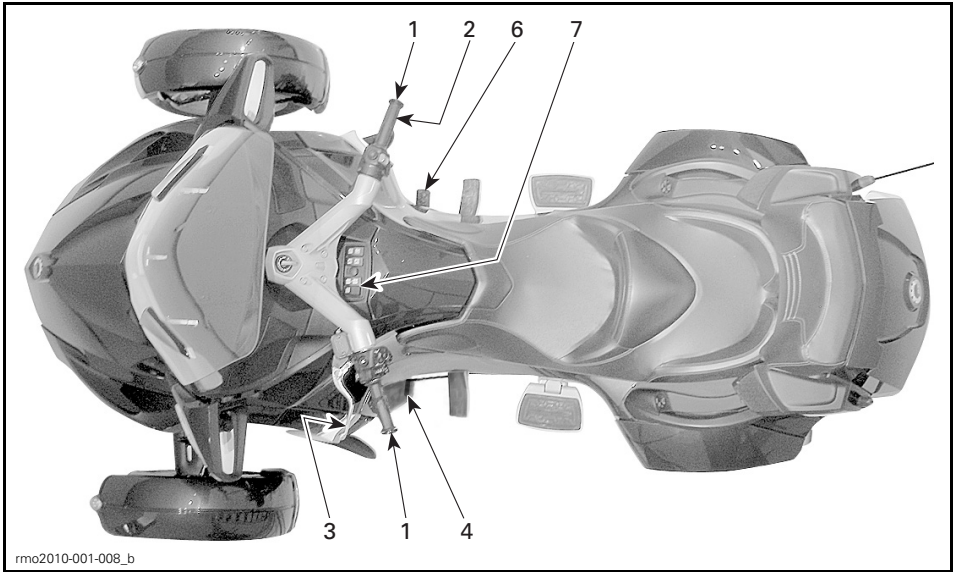
Unlike most motorcycles, the Spyder roadster is equipped with a Vehicle Stability System (VSS), which is calibrated for the vehicle normal configuration. VSS may not function properly if the vehicle is modified, such as changing weight distribution, wheelbase, tires, suspension, brakes or steering.

See your authorized Can-Am roadster dealer for available accessories for your vehicle.

# ***VEHICLE INFORMATION***

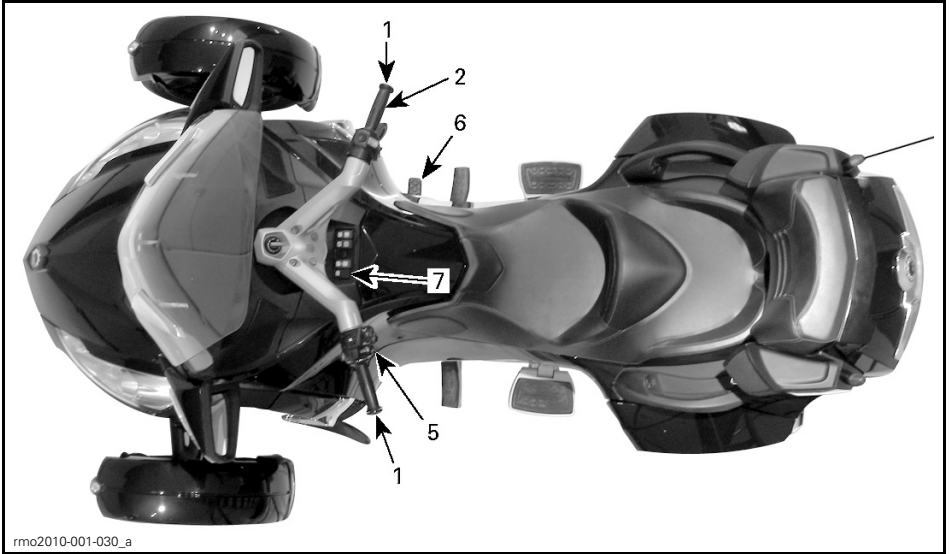
# PRIMARY CONTROLS

It is important to know the location and operation of all controls, and to develop and practice smooth and coordinated use of them.



*TYPICAL — SM6 MODEL*

|   |                      |
|---|----------------------|
| 1 | Handlebar            |
| 2 | Throttle             |
| 3 | Clutch Lever         |
| 4 | Gearshift Lever      |
| 6 | Brake Pedal          |
| 7 | Parking Brake Switch |



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TYPICAL — SE6 MODEL

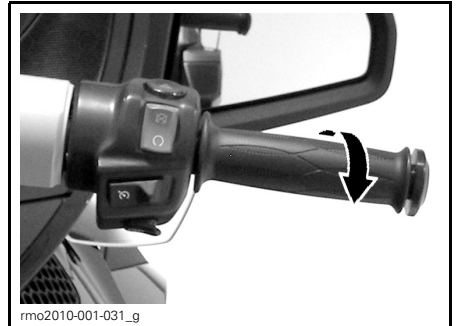
|   |                      |
|---|----------------------|
| 1 | Handlebar            |
| 2 | Throttle             |
| 5 | Gearshift Selector   |
| 6 | Brake Pedal          |
| 7 | Parking Brake Switch |

## 1) Handlebar

Grip the handlebar with both hands. Steer the handlebar in the direction you want to go.

## 2) Throttle

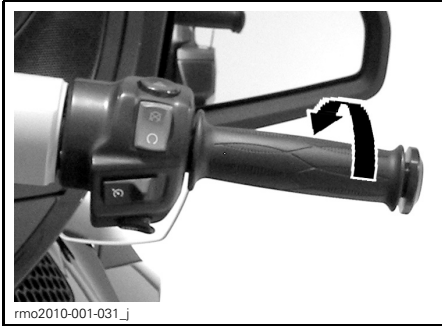
The throttle is the right handgrip, and it controls engine speed. To increase engine speed, roll the throttle as shown (lower your wrist).



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TO INCREASE SPEED

To decrease engine speed, roll the throttle as shown (raise your wrist).



TO DECREASE SPEED

The throttle is spring loaded and should return to idle when you release your grip.

**NOTE:** This vehicle is equipped with an ETC (Electronic Throttle Control). The throttle plates in the throttle body are controlled electronically and can be opened or closed irrespective of the throttle twist grip position when necessary. It may happen that when you accelerate, the VSS (Vehicle Stability System) prevents engine acceleration in order to maintain vehicle stability. Then, when the vehicle is stabilized, the engine RPM would increase as requested if the throttle was maintained. This would be felt as a "delayed" acceleration.

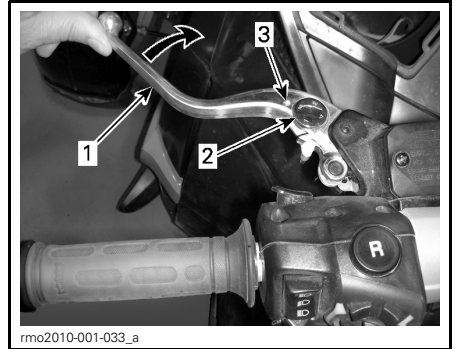
### 3) Clutch Lever (SM6 Model)

The clutch lever is in front of the left handgrip. The clutch controls the transmission of power from the engine to the rear wheel. The lever is squeezed in to disengage power and eased out to engage power.

### Clutch Lever Position Adjustment

The distance between the clutch lever and handgrip can be adjusted from position 1 (greatest distance) to position 4 (smallest distance).

1. Push the clutch lever forward to release the adjuster dial. Hold in position.
2. Turn the adjuster dial to the desired position aligning the dial number with the dot on the lever.
3. Release the clutch lever.



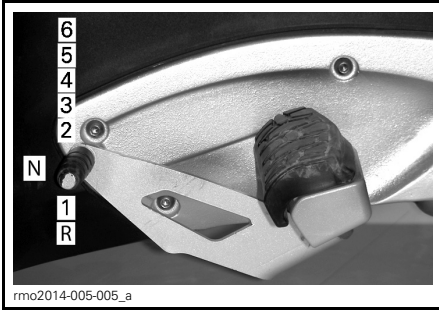
#### CLUTCH LEVER ADJUSTMENT

1. Clutch lever
2. Adjuster dial
3. Dot

### 4) Gearshift Lever (SM6 Model)

The gearshift lever is in front of the left footrest.

The gear pattern is Reverse-1-Neutral-2-3-4-5-6.



TYPICAL

Lift or press fully to move sequentially from one gear to the next. When the lever is released, it returns to center where the mechanism resets for the next shift UP or DOWN. Neutral (N) is selected by either a half lift from first gear or a half press from second gear.

**NOTE:** To shift from neutral to first gear, press the brake and shift up.

To shift into reverse, refer to *OPERATING IN REVERSE* in the *BASIC PROCEDURES* subsection for detailed instructions.

## 5) Gearshift Selector (SE6 Model)

The gearshift selector is below the left handgrip.

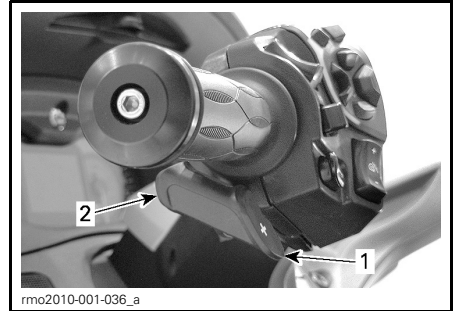


TYPICAL

1. Gearshift selector

The gear pattern is Reverse-Neutral-1-2-3-4-5-6.

Press selector forward to upshift. Pull selector toward you to downshift.



1. Upshift
2. Downshift

This shifts sequentially from one gear to the next. Release the selector after shifting.

To shift through multiple gears, use the selector multiple times.

To shift into neutral from first gear or reverse, briefly press or pull the gear selector. A longer activation will shift over neutral.

**NOTE:** To shift out of reverse into 1st gear, press the brake pedal and shift up.

**NOTE:** To shift from neutral to first gear, press the brake pedal and shift up.

When the gearshift selector is released, the mechanism resets for the next shift UP or DOWN.

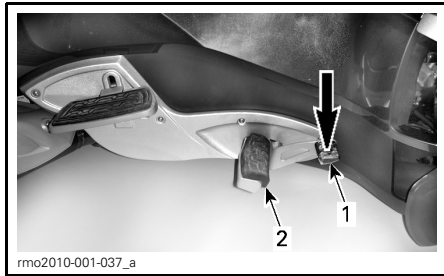
If operator does not downshift when slowing down and engine RPM drops below a threshold value, the gearbox will automatically downshift to the next available gear.

If the engine is started with gearbox in gear, it will automatically shift to neutral position.

## 6) Brake Pedal

The brake pedal is in front of the right footrest. Press it down to operate. This pedal brakes all three wheels.

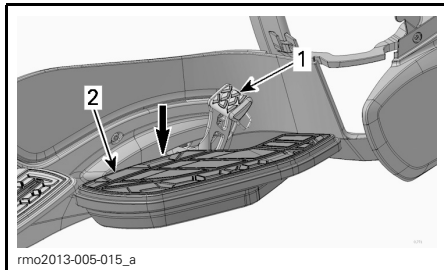
**SM6 Models and SE6 Base Model**



- 1. Brake pedal
- 2. Footrest

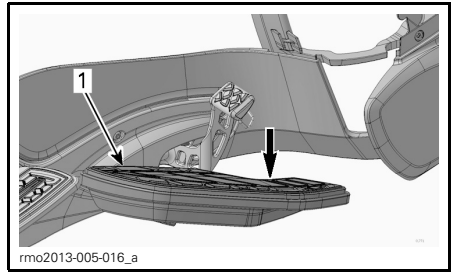
**NOTE:** When riding, make sure not to lean your foot on brake pedal. Otherwise, the engine management will activate the limp home mode to protect the braking system.

**RT-S and RT LTD SE6 Models**



- NORMAL CONDITION**
- 1. Brake pedal
  - 2. Floorboard

A mechanism allows the floorboard to lower if the pedal needs to be pressed more than normal. If that occurs, push on the rear portion of the floorboard until it clicks and test the braking system.



- LOWERED FLOORBOARD**
- 1. Floorboard

If this condition persists or if you find any braking system problems, refer to an authorized Can-Am roadster dealer.

**7) Parking Brake Switch**

The parking brake switch is located above the glove box. It allows to engage or release the electric parking brake.



- 1. Parking brake switch

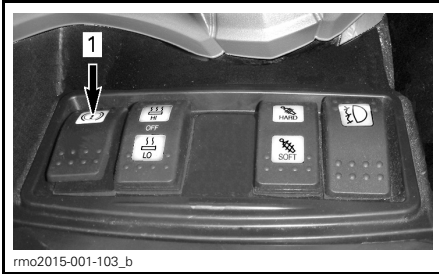
**NOTE:** To apply or release the parking brake, the ignition key must be turned ON.

**NOTE:** The battery voltage must be at 10.5 V minimum to activate the parking brake. If voltage is below 10.5 V, the parking brake indicator lamp will turn ON and the cluster will display a parking brake failure message.

**Applying Parking Brake**

With the vehicle stopped, press switch to apply the parking brake. The brake indicator lamp will flash.





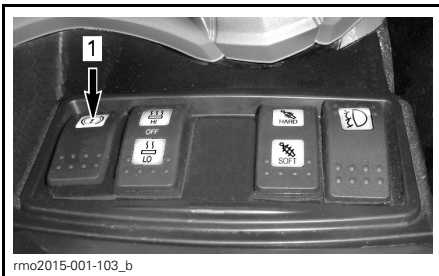
1. Press here

**NOTE:** The parking brake cannot be activated when the vehicle is above 10 km/h (6 MPH).

Check that the parking brake is fully engaged. Hold the clutch (on SM6 model) and rock the vehicle back and forth.

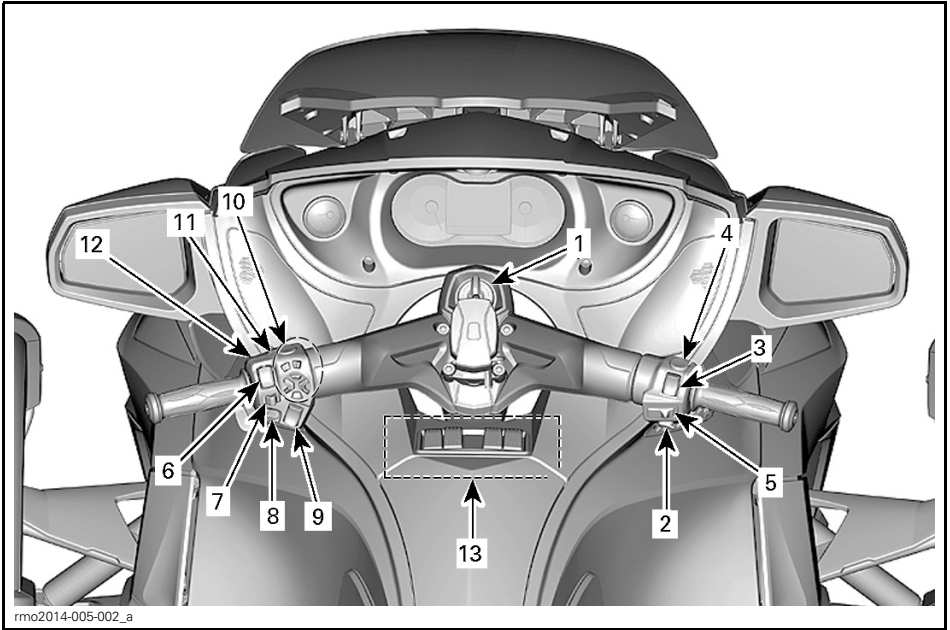
### Releasing Parking Brake

To release parking brake, press and release switch and make sure brake indicator lamp turns OFF.



1. Press here

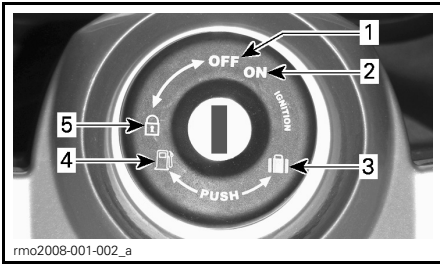
# SECONDARY CONTROLS



TYPICAL

|   |                       |    |   |
|---|-----------------------|----|---|
| 1 | Ignition switch       | 8  | Horn button                               |
| 2 | Engine start button   | 9  | Windshield adjustment button              |
| 3 | Engine stop switch    | 10 | RECC (Roadster Electronic Command Center) |
| 4 | Hazard warning switch | 11 | Reverse button                            |
| 5 | Cruise control switch | 12 | PTT (Push To Talk) button                 |
| 6 | Headlight switch      | 13 | Switch cluster                            |
| 7 | Turn signal button    |    |   |

## 1) Ignition Switch



### IGNITION SWITCH

1. OFF
2. ON
3. Front storage compartment opening
4. Seat opening/fuel tank access
5. Steering/glove box lock position

The ignition switch is located in the center of the handlebar. It controls:

- Engine ignition
- Seat opening mechanism to access:
  - Fuel tank cap
  - Brake fluid reservoirs
- Front storage compartment opening mechanism to access:
  - Fuses
  - Battery terminals.
- Steering/glove box lock mechanism.

**NOTICE** If the key does not turn easily, do not force it. Pull it out and reinsert.

### **⚠ WARNING**

If you turn the ignition switch to OFF, it shuts off the engine and all the electrical systems including the VSS and DPS. If you do this while the vehicle is moving, you could lose control and crash.

Two keys are provided with your vehicle. Each Spyder key contains a transponder chip specifically pre-programmed that is read via radio frequency by the immobilizer system to allow starting the engine. The Spyder keys do not contain batteries.

Do not take the key apart. If the immobilizer system cannot read the key, the engine will not start. For the conditions that can lead to the immobilizer system failing to read the key, refer to the *DIAGNOSTIC GUIDELINES*. Store the spare key in a safe place because you **must** have your spare key to have another one made by an authorized Can-Am roadster dealer.

**NOTE:** A key barrel is supplied in the glove box to use with the BRP optional trailer. This allows to use the vehicle key for the trailer.

## Ignition Function

### OFF

The key can be inserted or removed in this position.

In the OFF position, the electrical system of the vehicle is disabled.

The engine is shut down by turning the ignition switch to the OFF position.

### ON

When the key is turned to this position, the electrical system of the vehicle is activated.

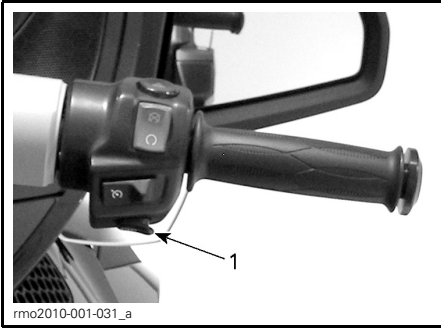
The gauge should wake-up.

The vehicle lights are turned on.

The engine can be started.

## 2) Engine Start Button

The engine start button is near the right handgrip.

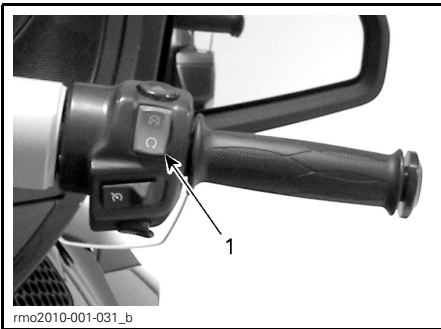


1. Engine start button

When depressed and held, it starts the engine.

### 3) Engine Stop Switch

The engine stop switch is near the right handgrip.

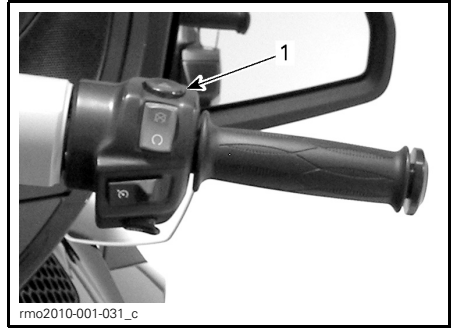


1. Engine stop switch

The switch has two positions and must be set to the run position before you can start the engine. It allows you to stop the engine anytime without removing your hand from the handlebar.

### 4) Hazard Warning Switch

The hazard warning switch is near the right handgrip.

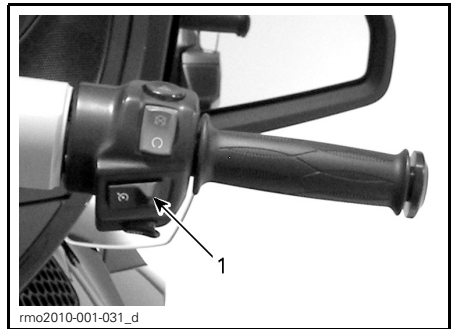


1. Hazard warning switch

Push the button to turn on the hazard warning lights.

### 5) Cruise Control Switch

The cruise control switch is near the right handgrip.



1. Cruise control switch

The switch is a multifunction switch. It allows to activate, set and stop the function of the cruise control.

**⚠ WARNING**  
It is not recommended to use the cruise control when towing a trailer.

When set, the cruise control allows to maintain a steady speed while riding the vehicle. It will increase or reduce engine speed as necessary.

**NOTE:** The vehicle torque may vary slightly depending on the road conditions such as the wind, going downhill or uphill.

The cruise control is designed to be used for prolonged drives on low traffic highways. Never ride the vehicle with the cruise control activated in city streets, winding roads, in adverse weather or in any circumstances when you need the throttle control.

### Cruise Control Limitations

The cruise control is not an automatic pilot, it will not drive the vehicle.

The cruise control is not aware of what is going on the road and it does not steer or apply the brakes for you.

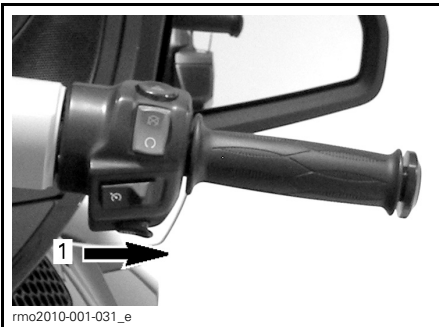
### **⚠ WARNING**

Improper use of the cruise control can lead the vehicle to a loss of control.

### Setting the Cruise Control

To use the cruise control, the vehicle speed must be above approximately 40 km/h (25 MPH).

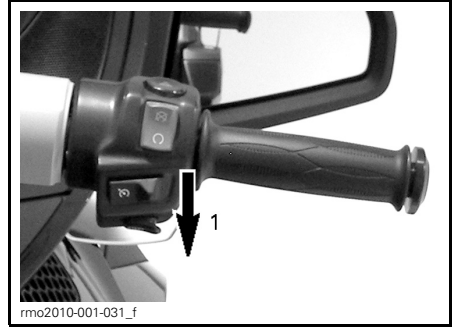
Turn the cruise control to ON by sliding the cruise control button to the right.



1. Slide button to the right

**NOTE:** The cruise control status will show CRUISE ON in the digital display.

Bring the vehicle at the speed you want to maintain then press the cruise button downward to SET the speed.



1. Push button downward to SET

**NOTE:** The cruise control status will show CRUISE SET in the digital display.

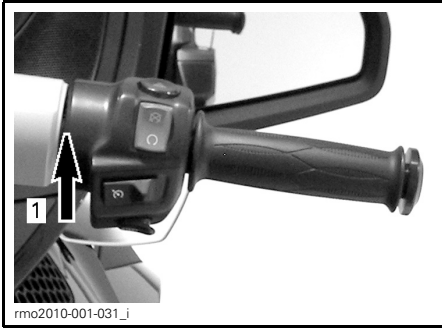
You can now release the throttle.

### **⚠ WARNING**

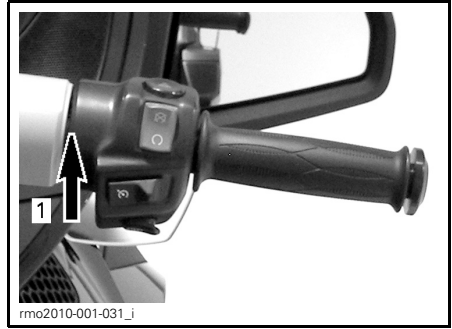
Always keep both hands on the handlebar while riding. Otherwise, this could cause a vehicle loss of control.

**NOTE:** You can increase engine speed using the throttle grip if you need to go faster than the set speed. Releasing the throttle will allow the cruise control to recover the set speed.

Once the cruise control has been set, the speed setting may be increased or reduced by pushing the button UP or DOWN. Each press of the button will change the speed setting by increments of 1.6 km/h (1 MPH). Holding the button will change the speed setting until released or the operating limit has been reached.



**CRUISE CONTROL PREVIOUSLY SET**  
 1. Push up button to increase the speed setting

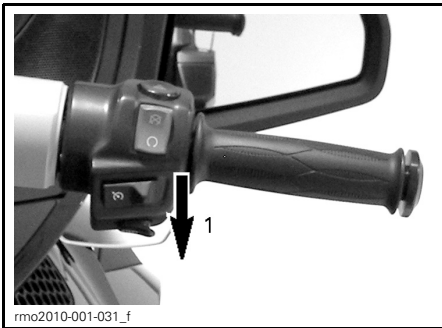


**CRUISE CONTROL PREVIOUSLY CANCELLED**  
 1. Push up button to RESUME

**NOTE:** The cruise control status will show CRUISE SET in the digital display.

### Stopping the Cruise Control

To completely stop the cruise control operation, slide the cruise control button to the left.



**CRUISE CONTROL PREVIOUSLY SET**  
 1. Push down button to reduce the speed setting

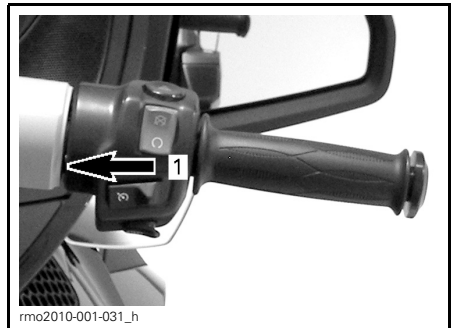
### Cancelling the Cruise Control

Any of the following event will cancel the cruise control.

- Pressing the brake pedal.
- Squeezing the clutch lever or if clutch slippage occurs (SM6 models).
- Gear change (SE6 model).
- Any vehicle stability system intervention.

### Resuming the Cruise Control

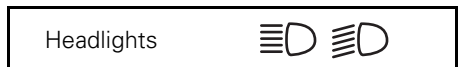
If the cruise control was cancelled and the cruise control switch is still at the ON position, the cruise control operation can be resumed by pushing the cruise control button up. The cruise control will then recover the previous set speed.



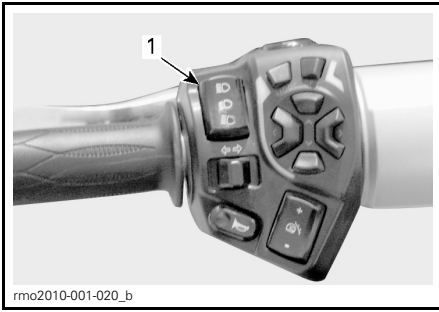
1. Slide button to OFF

**NOTE:** The CRUISE ON status will disappear in the digital display.

## 6) Headlight Switch



The switch is near the left handgrip.



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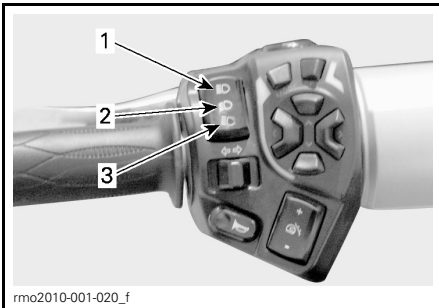
**TYPICAL**

1. Headlight switch

The switch is used to select high or low beam for the headlight. The headlights automatically turn on when the engine reaches 800 RPM and turn off after approximately 20 seconds when engine has been stopped.

To select high beams, push the switch to the front position. To select low beams, push the switch to the back position.

To flash the high beams, press the switch to the down position, then release it. The high beams will stay on as long as you hold down the switch.



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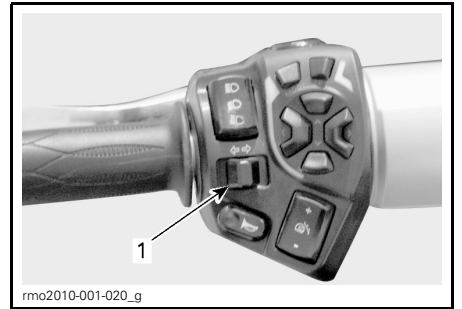
**TYPICAL**

1. High beams
2. Low beams
3. Flash high beams

## 7) Turn Signal Button

|                        |  |
|------------------------|--|
| Left side turn signal  |  |
| Right side turn signal |  |

The turn signal button is located near the left handgrip.



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**TYPICAL**

1. Turn signal button

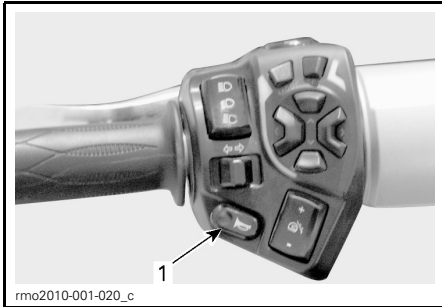
The turn signal button turns off automatically after a normal turn, but you may have to turn it off manually after a shallow turn or lane change.

To turn the signal off, press the button in.

Turn signals will automatically turn off after 30 seconds while the vehicle is moving.

## 8) Horn Button

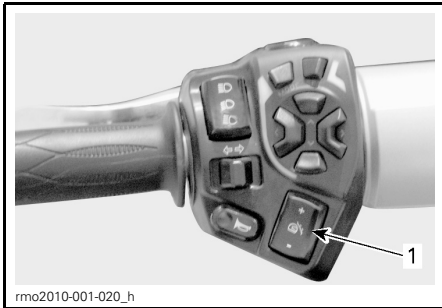
The horn button is located near the left handgrip.



TYPICAL  
1. Horn button

## 9) Windshield Adjustment Button

The windshield adjustment button is located near the left handgrip.



TYPICAL  
1. Windshield adjustment button

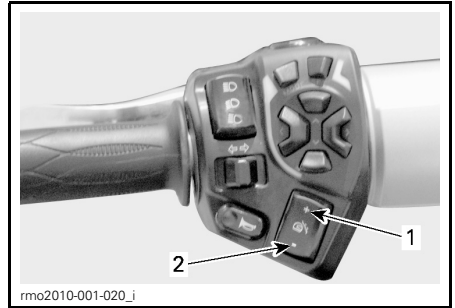
The button allows to raise or lower the height of the windshield to your convenience.

**⚠ CAUTION** Ensure there is no object or anyone hand in the windshield area before adjusting the windshield height. It could damage the vehicle or cause injuries.

**NOTE:** Engine must be turned on to adjust the windshield.

To raise the windshield, press the button (+ sign). Release the button when the desired height is reached.

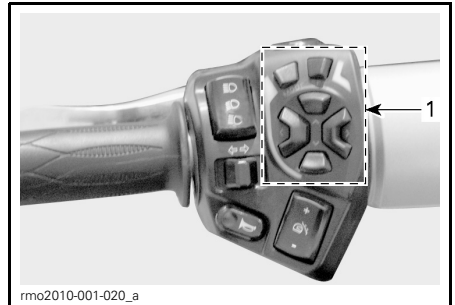
To lower the windshield, press the button (- sign). Release the button when the desired height is reached.



TYPICAL  
1. To raise windshield  
2. To lower windshield

## 10) RECC (Roadster Electronic Command Center)

The RECC is located near the left handgrip.



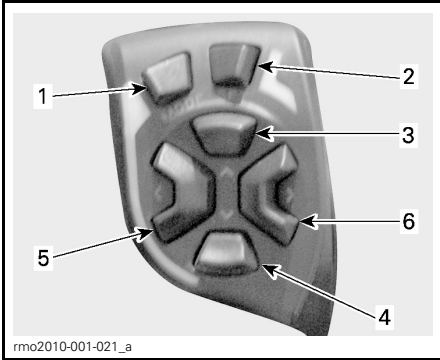
TYPICAL  
1. RECC

The RECC is a multifunction switch.

The RECC allows the control of numerous functions of the multifunction gauge.



**NOTE:** Inputs given to the RECC may be halted for a short delay as the vehicle electronic modules prioritize vehicle main functions. This should not be considered a malfunction.



#### RECC BUTTONS

- MODE button:** Navigate through the screens  
Holding button more than 2 seconds in main screen: activates or deactivates ECO mode
- SET button:**  
Quick press then release: Navigates through the secondary screens  
Holding button more than 1 second: Sets a value in the current function or navigate to a setup screen
- UP button:** Increase the volume (audio) or a value
- DOWN button:** Decrease the volume (audio) or a value
- LEFT button:** Move the screen arrows to the left to select a secondary menu or a setting
- RIGHT button:** Move the screen arrows to the right to select a secondary menu or a setting

### **⚠ WARNING**

Using the RECC while driving can distract the driver from operating the vehicle. Always use buttons with caution and always keep your eyes on the road.

#### Audio Control

When in the default riding screen, pressing the UP or DOWN button will increase or decrease the audio volume.

**NOTE:** On models without a separate analog fuel level gauge, the fuel level bars will be replaced by the volume bars for a few seconds, then the fuel level bars will come back.

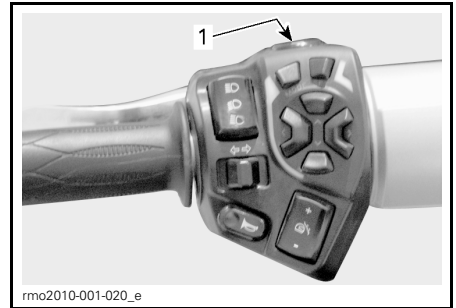
**NOTE:** The audio volume level can be self-adjusting according to the automatic volume control setting as set in the Preferences Screen.

Press the DOWN button and hold it more than one second. The audio volume will mute.

From the mute setting, pressing the UP button will reset the audio volume to its last setting.

## 11) Reverse Button

The reverse button is located on top of the left handlebar housing.



#### TYPICAL

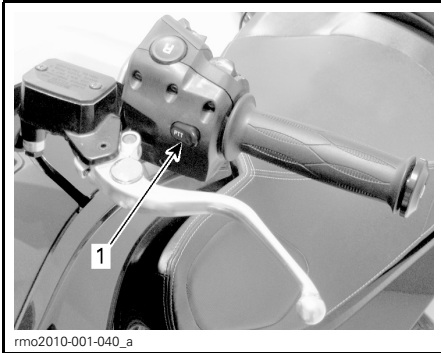
- Reverse button

Push and hold the reverse button to allow shifting into reverse. Refer to *OPERATING IN REVERSE* in *BASIC PROCEDURES* subsection for detailed instructions.

The backup lights turn on when the vehicle is in reverse.

## 12) PTT (Push To Talk) Button

The PTT button is located on the left handlebar housing facing the clutch lever.



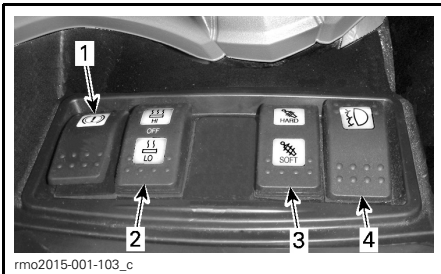
1. PTT button

When an optional CB (Citizens' Band) is installed, pressing the button sets the CB in transmitting mode to talk to other parties.

### 13) Switch Cluster

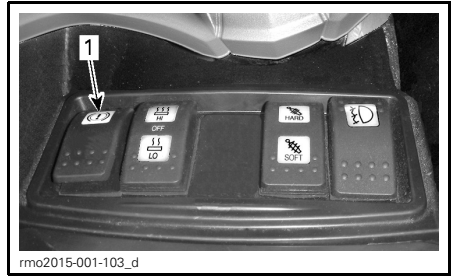
The switch cluster is located above the glove box. It gives control of numerous electrical accessories.

**NOTE:** The switch cluster is operational only when the engine is running and the battery voltage is over 11 Vdc.



1. Parking brake switch
2. Front storage compartment switch (option package)
3. Driver's heated grip switch
4. ACS switch (option package)

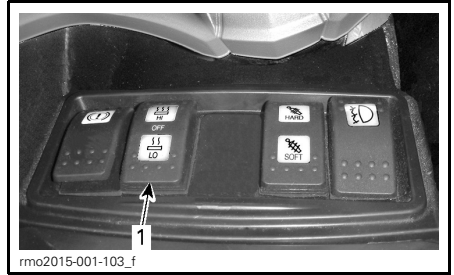
### Parking Brake Switch



1. Parking brake switch

Refer to *PRIMARY CONTROLS* sub-section for detailed instructions.

### Driver's Heated Grip Switch



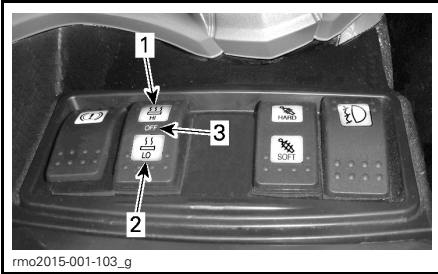
1. Heated grip switch

The heated grip switch allows to turn on and off the heated grips and to control the heating intensity.

For minimum heat, press the LO intensity side of the switch.

For maximum heat, press the HI intensity side of the switch.

To select the OFF position, set the switch to the middle position.

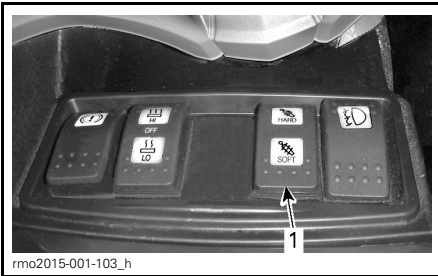


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1. HI intensity
2. LO intensity
3. OFF (middle position)

**NOTE:** The heated grips will automatically turn off when ignition key is turned to OFF.

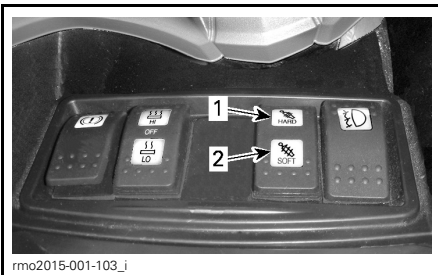
### ACS (Rear Suspension) Switch (Option Package)



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1. ACS switch

The ACS switch allows to stiffen or soften the suspension from factory settings.

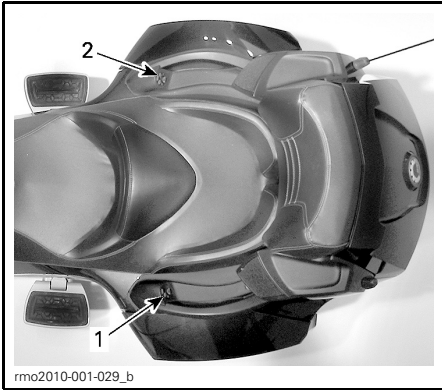


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1. Press here to stiffen
2. Press here to soften

To change the ACS suspension setting, refer to *BASIC PROCEDURES* subsection.

# PASSENGER CONTROLS



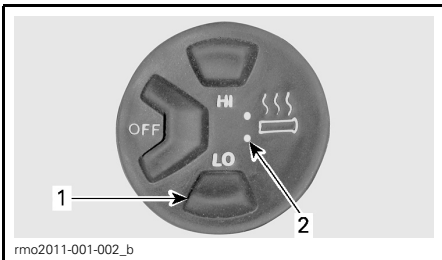
1. Passenger Heated Grip Switch
2. Passenger Audio Control (option)

## Passenger Heated Grip Switch

The heated grip switch is located near the left passenger grip.

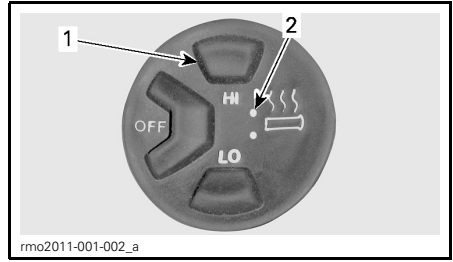
The heated grip switch allows to turn on and off the heated grips and to control the heating intensity.

For minimum heat, press the LO intensity button.



1. LO intensity button
2. LO intensity indicator

For maximum heat, press the HI intensity button.



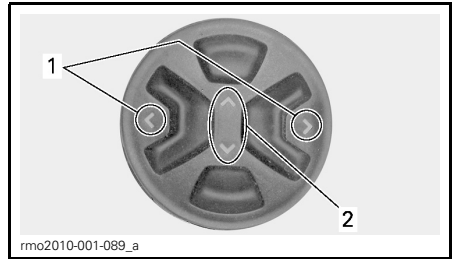
1. HI intensity button (both lights will be on)
2. HI intensity indicator

To select the OFF position, press the OFF button.

**NOTE:** The heated grips will shut off when engine is under 800 RPM and will not resume automatically.

## Passenger Audio Controls

The audio controls are located near the right passenger grip.



1. LEFT/RIGHT buttons
2. UP/DOWN buttons

The passenger audio controls allow to remotely increase or reduce the passenger headset volume by using the UP/DOWN button.

The radio preset station or the song in an iPod mobile digital device can be changed using the LEFT/RIGHT buttons.

For additional information on audio functions, refer to *AUDIO CONTROLS* subsection.

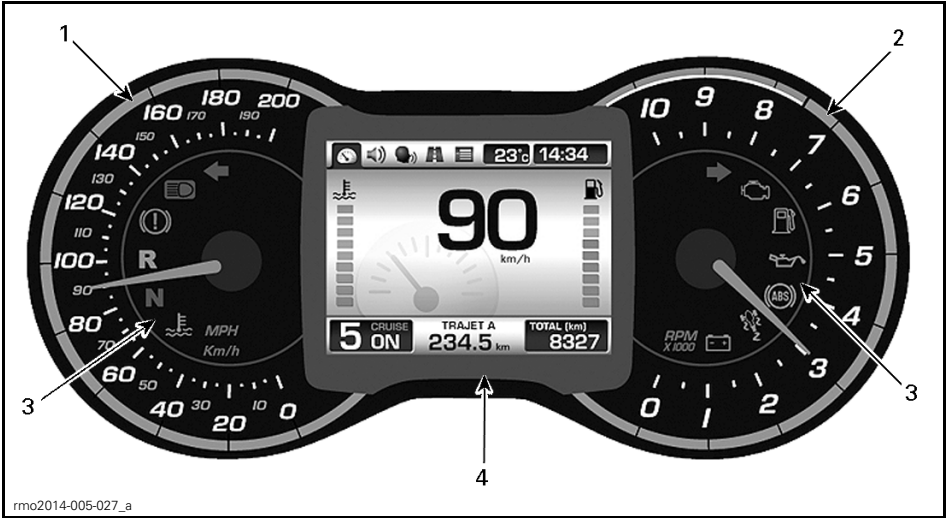
# MULTIFUNCTION GAUGE

## WARNING

Watching or using the multifunction gauge or the infotainment center can distract the driver from the operation of the vehicle. Always keep on observing the traffic and make sure the surrounding is clear and safe before doing so.

The multifunction gauge includes analog gauges (speedometer and tachometer), indicator lamps and an infotainment center with a digital screen.

## Multifunction Gauge Description



### 1) Analog Speedometer








Displays vehicle speed in kilometers (km/h) or miles per hour (MPH). To change units, refer to *PREFERENCES SCREEN*.

### 2) Analog Tachometer (RPM)

Displays engine revolutions per minute (RPM). Multiply by 1000 to obtain actual revolutions.

### 3) Indicator Lamps

Indicator lamps will inform you of various conditions or problems (see *MESSAGES IN MULTIFUNCTION GAUGE* in *ROAD SIDE REPAIRS* section).

| INDICATOR LAMPS (NORMAL OPERATION)  |                   |             |  |
|---|-------------------|-------------|--|
| INDICATOR LAMP(S)   |                   | MAIN SCREEN | DESCRIPTION  |
| All indicator lamps   | On                | None        | Temporarily all 'indicator lamps are activated when ignition switch is ON and the engine is not started                              |
|   | Flashing          | None        | Parking brake engaged  |
|   | Flashing + Beeper | None        | SE6 model: The ignition switch is OFF and the parking brake is not engaged. Always engage the parking brake when parking the vehicle |
|   | On                | None        | Gearbox in neutral position  |
|   | Flashing          | None        | Gearbox in reverse position  |
|   | On                | None        | Headlights in the HIGH beam position   |
|   | Flashing          | None        | VSS intervention occurring   |
|   | Flashing          | None        | Left side turn signal.<br>Left and right side indicator lights flash at the same time: hazard warning lights                         |
|  | Flashing          | None        | Right side turn signal.<br>Left and right side indicator lights flash at the same time: hazard warning lights                        |

#### 4) Digital Display

Displays useful real-time information to the rider and is used as an interface for the infotainment center.

The display will use a light color when the ambient light is bright and will automatically change to a darker color when the ambient light is dusky.

For a complete description of the digital display, refer to *DIGITAL DISPLAY DESCRIPTION*.

#### Multifunction Gauge Startup Information

A self test is initiated every time the ignition key is turned ON. The default riding screen will turn on and indicator lights will turn on for a moment. This allows the operator to validate that all indicators are working properly.

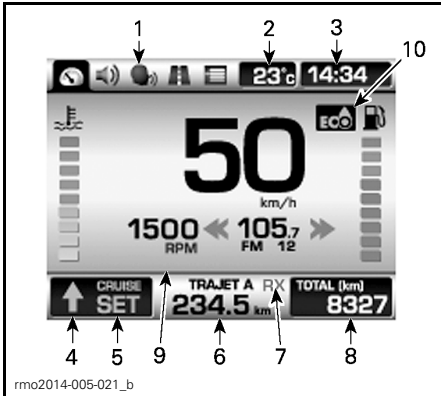
Any time the ignition switch is turned ON after having been in the OFF position for 5 minutes or more, the digital display will show the following message:

- BEFORE OPERATING READ THE SAFETY CARD ABOVE THEN PRESS MODE BUTTON.

Press the MODE button to acknowledge this message to allow engine starting.

## Digital Display Description

The display is divided in several areas as follows.



1. Category icons
2. Ambient temperature
3. Clock
4. Gearbox position or upshift indicator arrow
5. Cruise control status
6. Trip meter
7. CB communication status (optional)
8. Odometer
9. Main screen
10. ECO mode icon

### 1) Category Icons

There are 5 selectable category icons. Each icon is linked to a different screen. See table below.

| CATEGORY ICON | CATEGORY ICON SCREEN                                 |
|---------------|--|
|               | Default riding                                       |
|               | Audio  |
|               | CB (optional)  |
|               | Trip meter   |
|               | Preferences (only available when vehicle is stopped) |

For a complete description, refer to *CATEGORY ICON SCREEN DESCRIPTION*.

You can navigate through the category icons to select several functions and to change certain settings using the RECC (Roadster Electronic Command Center). Refer to *RECC (ROADSTER ELECTRONIC COMMAND CENTER)* in *SECONDARY CONTROLS* subsection.

### 2) Ambient Temperature

The ambient air temperature is displayed in °C or °F. To change units, refer to *PREFERENCES SCREEN*.

### 3) Clock

The current time is displayed in 24h or AM/PM format. To change the format, refer to *PREFERENCES SCREEN*.

### 4) Gearbox Position or Upshift Indicator Arrow

Displays the selected gearbox position or the upshift indicator arrow (refer to *ECO MODE ICON*).

### 5) Cruise Control Status

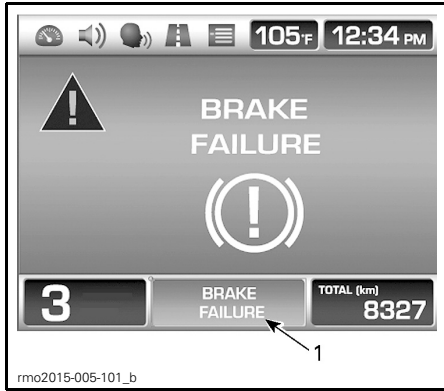
Displays ON when the cruise control is turned on but not set to any speed.

Displays SET when the cruise control is in operation and a speed has been set.

## 6) Trip Meter

Distance travelled in kilometers or miles since the last reset. Two trip meters are available and they are identified as "A" and "B". To change units, refer to *PREFERENCES SCREEN*.

As a second function, the trip meter may display an icon to inform the driver of a malfunction. Refer to *MESSAGES IN MULTIFUNCTION GAUGE* in the *ROAD SIDE REPAIRS* section.



TYPICAL

1. Message/icon

TYPICAL

1. Message/icon

## 7) CB Communication Status (Optional)

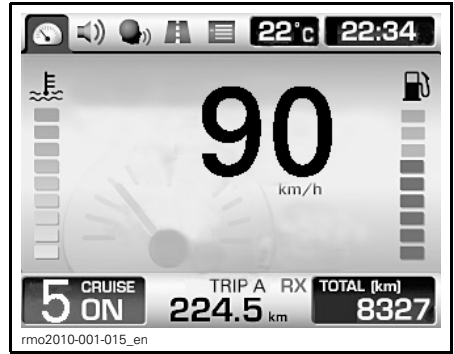
Displays whether the CB (Citizens' Band) is receiving (RX) or transmitting (TX).

## 8) Odometer

Total distance travelled in kilometers or miles since the delivery from the factory. To change units, refer to *PREFERENCES SCREEN*.

## 9) Main Screen

The main screen is the area where the most information is displayed. The display will change when navigating through the available gauge functions.



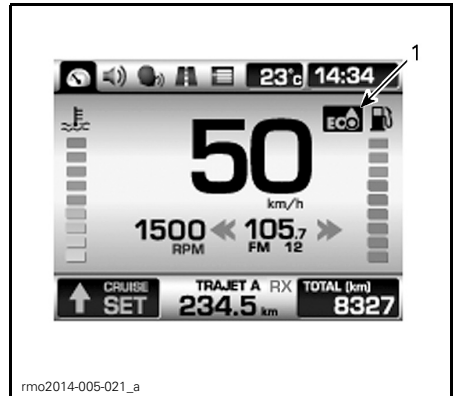
TYPICAL – DEFAULT RIDING SCREEN SHOWN

For a complete description of the screens, refer to *CATEGORY ICON SCREEN DESCRIPTION*.

## 10) ECO Mode Icon

The ECO (fuel economy mode) setting reduces fuel consumption by limiting throttle response and maximum throttle opening to maintain an optimal cruising setting.

To activate ECO mode press the mode button for 2 seconds when in the main screen.



1. ECO mode icon

When ECO mode is activated, a green arrow will alternate with the gearbox position indicator to indicate the optimal timing to shift up transmission.



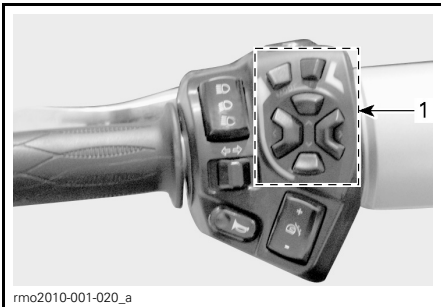
**NOTE:** Gearbox position indicator will return when transmission is shifted.

To deactivate ECO mode, press the mode button for 2 seconds when in the main screen.

## Navigating in the Digital Display

We recommend you practice selecting some functions on the infotainment center before getting on the road. You will get used to them and they will be easier to use on the road.

Use the RECC (Roadster Electronic Command Center) to control the display functions. Refer to *RECC (ROADSTER ELECTRONIC COMMAND CENTER)* in *SECONDARY CONTROLS* subsection.

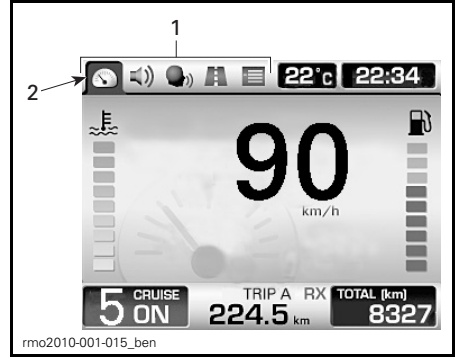


### TYPICAL

1. RECC

Pressing the MODE button will move a selection through the category icons, located at the top left area of the screen, in this order: Default riding screen, Audio, CB, Trip meter and Preferences. Each press of the button will move the selection to the next available icon. When an icon is selected, its related screen will appear.

**NOTE:** The CB icon is skipped when the vehicle is not equipped with this feature. The Preferences Screen is skipped when vehicle is above 5 km/h (3 MPH), except for the SE6 model for the towing mode.



1. Category icons
2. Default riding icon selected

When the selection is on the last icon, it will then move to the first icon when the MODE button will be pressed.

In some screens, vertical or horizontal arrows are visible. This indicates that you have to use the LEFT/RIGHT button to change the setting enclosed by the horizontal arrows and to use the UP/DOWN button to change the setting enclosed by the vertical arrows.

When a double arrow is visible, it indicates the following depending on the displayed screen:

- Holding the DOWN button when the volume bar is displayed will mute the audio system. From the mute condition, pressing the UP button will reset the audio volume to its last setting.
- Holding the related arrow button will scroll the values to the end or to the beginning.
- Using the related arrow button will scroll the list to reveal the remaining items.

### TYPICAL

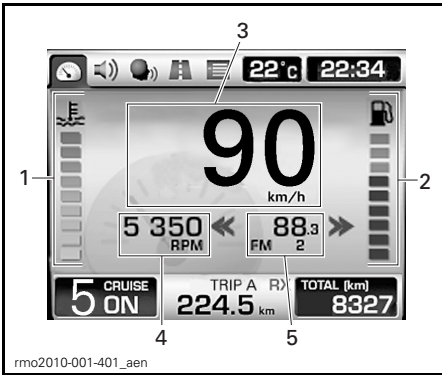
1. Use the UP/DOWN button to select the vertical arrows
2. Use the LEFT/RIGHT button to select the horizontal arrows

When an item is selected, this sets the item to the current value.

After acknowledging the initial safety message at gauge startup, or after a few seconds elapsed in any other screen without pressing any RECC button, the display will automatically return to the default riding screen.

## Category Icon Screen Description

### Default Riding Screen



#### DEFAULT RIDING SCREEN

1. Engine coolant temperature (option package)
2. Fuel level (option package)
3. Digital speedometer
4. Engine speed (not factory set)
5. Radio preset or radio frequency (not factory set)

### 1) Engine Coolant Temperature (Except Models with Separate Analog Gauges)

Bar gauge that continuously indicates the engine coolant temperature.

**NOTE:** On models with a separate analog engine coolant temperature gauge, the bar gauge is not displayed in the digital display.

### 2) Fuel Level (Except Models with Separate Analog Gauges)

Bar gauge that continuously indicates the amount of fuel left in the fuel tank.

**NOTE:** On models with a separate analog fuel level gauge, the bar gauge is not displayed in the digital display.

**NOTE:** Low fuel indicator lamp turns on when quantity of fuel is left for 50 km (31 mi) if riding steady at speed of 100 km/h (62 MPH) in 6th gear.

### 3) Digital Speedometer

Displays vehicle speed in kilometers (km/h) or miles per hour (MPH). To change units, refer to *PREFERENCES SCREEN*.

### 4) Engine Speed

Displays engine speed in revolutions per minute (RPM).

**NOTE:** This is not a default function. To activate this function, refer to *PREFERENCES SCREEN*.

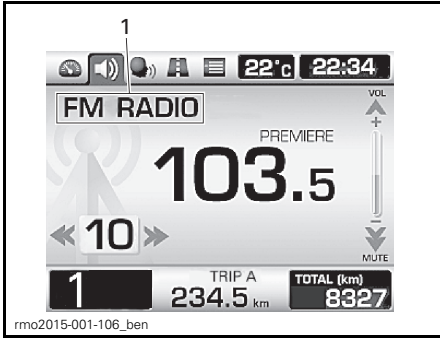
### 5) Radio Preset or Radio Frequency

Displays the selected radio preset or radio frequency.

**NOTE:** This is not a default function. To activate this function, refer to *PREFERENCES SCREEN*.

## Audio Screen

The audio screen will appear with its last configuration.



### TYPICAL

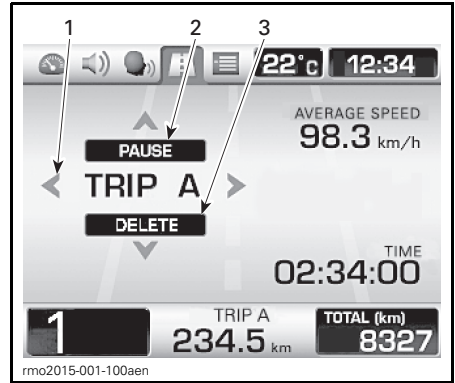
1. Current selected audio device

For additional information on audio functions, refer to *AUDIO CONTROLS*.

## CB Screen (Optional)

This screen is only available when a CB is installed.

**NOTE:** The CB screen will appear whenever the PTT (Push To Talk) button is pressed whatever the screen that was displayed.



### TYPICAL

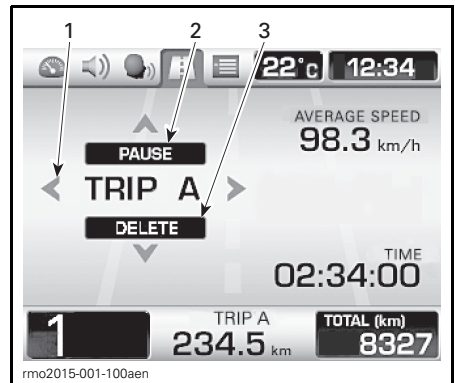
1. Display selection: Trip A or Trip B
2. Pause or resume the selected trip meter
3. Reset the selected trip meter

### TYPICAL

1. Current channel
2. CB communication status: RX (receiving), TX (transmitting) and OFF
3. Squelch adjustment
4. Volume adjustment
5. Intercom volume adjustment (i-com)
6. Voice activation sensitivity adjustment (vox)

For additional information on audio functions, refer to *AUDIO CONTROLS* subsection.

## Trip Meter Screen



### TYPICAL

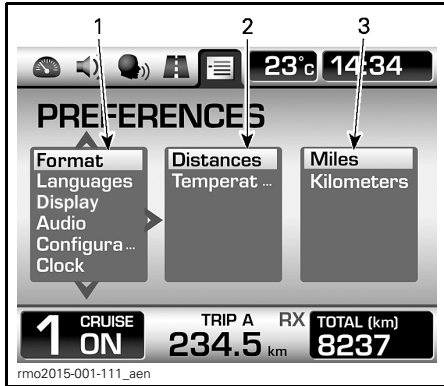
1. Display selection: Trip A or Trip B
2. Pause or resume the selected trip meter
3. Reset the selected trip meter

Press the LEFT/RIGHT button to select the desired trip meter.

Press the UP button to pause or resume the selected trip meter.

Press the DOWN button to reset the selected trip meter.

### Preferences Screen



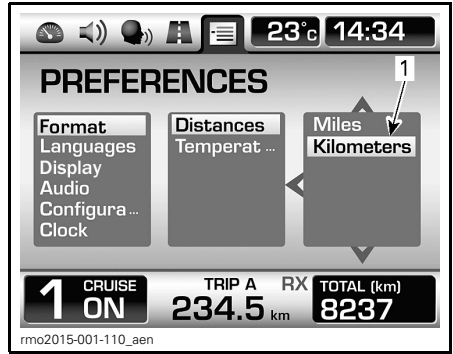
1. 1<sup>st</sup> column: Main category
2. 2<sup>nd</sup> column: Secondary category or item
3. 3<sup>rd</sup> column: Unit or setting

This screen is only available when vehicle is stopped.

Use the LEFT/RIGHT button to select the desired column.

Within a column, use the UP/DOWN button to select the desired item. If more items are available to the next right column, use the RIGHT button to select the column then use again the UP/DOWN button to select the desired item. Continue using this pattern to reach the desired item.

When an item is selected, this sets the item to the current value. You may then go to any screen, the value will be kept.



1. The selected value will be set

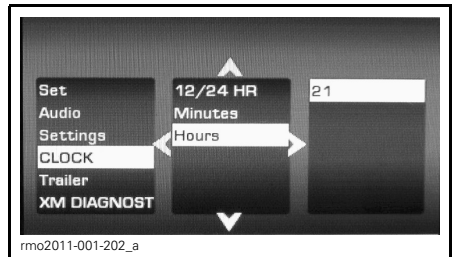
**NOTE:** When in the 2<sup>nd</sup> or 3<sup>rd</sup> column, you can go back to the column at the left using the LEFT button.

**NOTE:** When the units are changed they will be changed on both the analog and the digital displays. The units will be used for the odometer and both trip meters.

### Setting the Time

To set the hours:

Select CLOCK in main category of Preferences Screen.

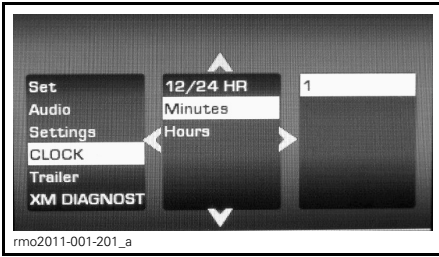


Select HOURS in secondary category.

Adjust the unit value using the UP and DOWN arrow.

To set the minutes:

Select CLOCK in main category of Preferences Screen.



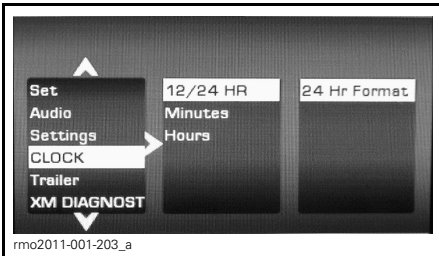
Select MINUTES in secondary category.

Adjust the unit value using the UP and DOWN arrow.

### Selecting the Hour Mode

To select the 12/24 hour mode:

Select CLOCK in main category of Preferences Screen.



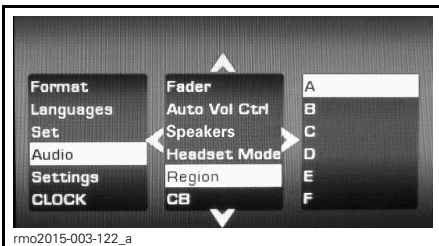
Select 12/24 HOUR in secondary category.

Select the appropriate value in main unit or setting.

### Selecting the Region (Audio)

To select the region:

Select AUDIO in main category of Preferences Screen.



Select REGION in secondary category.

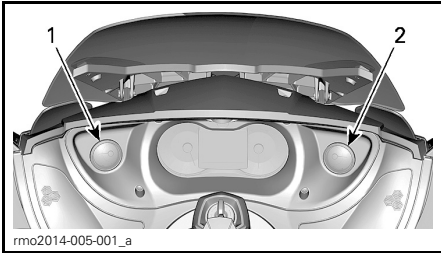
Select the appropriate region according to the table below in main unit or setting.

**NOTE:** If your country is not listed in the table below, select a region with an identical frequency range.

Restart the vehicle in order for changes to take effect.

| REGION | COUNTRIES  | LW             | AM / MW         | FM                |
|--------|--|----------------|-----------------|-------------------|
| A      | - USA<br>- Canada<br>- South Africa  | --             | 520 to 1720 kHz | 87.9 to 107.9 MHz |
| B      | - Austria<br>- Bulgaria<br>- Denmark<br>- France<br>- Iceland<br>- Israel<br>- Kuwait<br>- Norway<br>- Romania<br>- Slovakia<br>- Slovenia<br>- Spain<br>- Switzerland<br>- Turkey<br>- UAE<br>- UK/Ireland<br>- Ukraine | 153 to 279 kHz | 531 to 1602 kHz | 87.5 to 108 MHz   |
| C      | - Benelux<br>- Germany<br>- Greece<br>- Italy<br>- Poland<br>- Portugal<br>- Russia  | 153 to 279 kHz | 531 to 1602 kHz | 87.5 to 108 MHz   |
| D      | - Japan  | --             | 522 to 1629 kHz | 76.1 to 89.9 MHz  |
| E      | - Australia<br>- China<br>- Malaysia<br>- New Zealand  | --             | 531 to 1701 kHz | 87.5 to 108 MHz   |
| F      | - Taiwan   | --             | 531 to 1701 kHz | 87.5 to 108 MHz   |
| G      | - Argentina<br>- Brazil<br>- Cayman<br>- Chile<br>- Columbia<br>- Costa Rica<br>- Curacao<br>- Dominican Rep.<br>- Guadeloupe<br>- Mexico<br>- Puerto Rico<br>- Venezuela  | --             | 520 to 1720 kHz | 87.9 to 107.9 MHz |

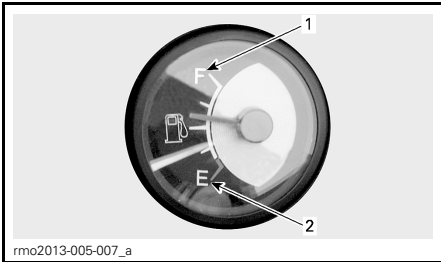
# ANALOG GAUGES (OPTION PACKAGE)



1. Fuel level gauge
2. Engine coolant temperature gauge

## Fuel Level Gauge

The needle in gauge continuously indicates the amount of fuel left in the fuel tank.

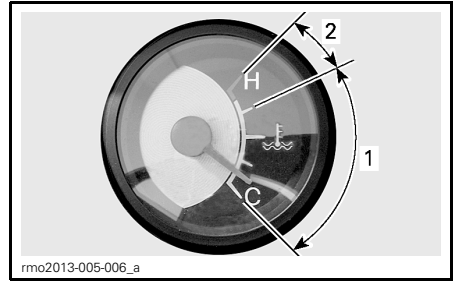


### TYPICAL - FUEL LEVEL

1. Full
2. Empty

## Engine Coolant Temperature Gauge

The needle in gauge continuously indicates the engine coolant temperature. Under all riding conditions, the needle should stay within this range.



### TYPICAL - COOLANT TEMPERATURE

1. Normal operating range
2. Overheat

# AUDIO CONTROLS

## Audio System Power

Follow one of the following steps below to turn the audio system ON:

- Turn ignition switch to ON.
- Press MODE button for 3 seconds immediately after ignition switch is turned OFF.

Follow one of the following steps below to turn the audio system OFF:

- Turn ignition switch to OFF.
- If the audio was ON with the ignition switch to OFF, press MODE button for 10 seconds.

## Audio Volume Control

When in the default riding screen, pressing the UP or DOWN button will increase or decrease the audio volume.

**NOTE:** On models without a separate analog fuel level gauge, the fuel level bars will be replaced by the volume bars for a few seconds, then the fuel level bars will come back.

## Self-Adjusting Audio Volume

The audio volume level can be automatically adjusted based on the vehicle speed. This is controlled by the automatic volume control setting in the Preferences Screen.

## Audio Mute

Press the DOWN button and hold it more than one second. The audio volume will mute.

From the mute setting, pressing the UP button will reset the audio volume to its last setting.

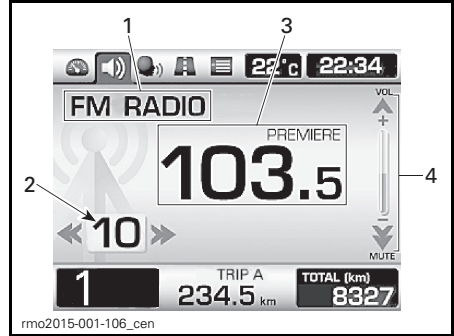
## Radio Band

When in the audio screen, repeatedly pressing the SET button will display the available audio devices in this order:

- FM

- AM
- WX (NOAA weather radio)
- AUX (iPod device or MP3 player)
- XM.

**NOTE:** XM is displayed only if so equipped.



**TYPICAL - FM RADIO SHOWN**

1. Current selected band
2. Station number preset
3. Current station
4. Volume level

While riding, the available radio functions are:

- Audio volume
- Mute, seek and slew (XM radio) functions
- Radio preset functions (selection and storing).

**NOTE:** The radio is always ON. Use the MUTE function to cancel the volume.

To listen to the radio while ignition switch is set to OFF, hold the MODE button for 3 seconds immediately after the switch is set to OFF to power up the digital display.

**NOTE:** To preserve battery charge, radio may shut off automatically after a certain period.

## Selecting a Radio Preset Station

Press the LEFT/RIGHT button to decrease or increase the preset number.



Press and hold the LEFT/RIGHT button for more than one second to SEEK the next available radio station. The radio will remain tuned to that station.

Press the SET button and hold for more than one second to enter the setup screen.

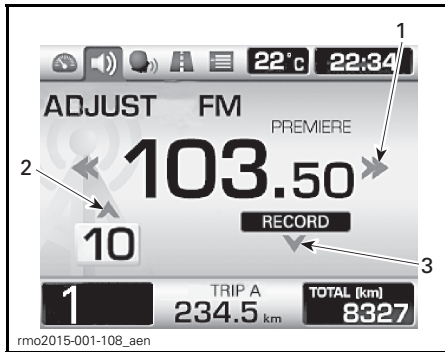
In the setup screen, press the LEFT/RIGHT button to tune the radio frequency.

### Recording a Radio Preset Station

To record up to 15 station presets:

Press the DOWN button to record the actual frequency to the preset number displayed.

**NOTE:** While riding, the radio station will be automatically recorded to the next available preset number. If all preset numbers are used, the preset number 15 will be overwritten.



#### TYPICAL

1. LEFT/RIGHT button to select the frequency
2. UP button to select the preset number
3. DOWN button to record the radio station

### AUX (Auxiliary)

An audio input jack is provided in the top storage compartment.

#### LTD Model

To access the audio input jack, open the access flap in the top storage compartment.



1. Access flap

#### All Models



1. Audio in jack

An audio device can be connected in this jack to be played through the audio system.

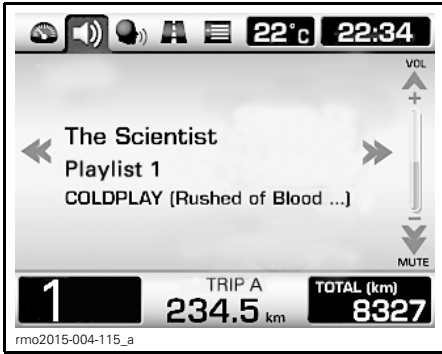
**NOTE:** An adapter (optional on some models) is required to connect the audio device to the vehicle audio jack.

### MP3 Player

When a MP3 player is connected to the vehicle audio connector, it will play as set at the time of the connection. Only the volume control will be available.

### iPod Device

When an iPod device is connected, "iPod" is displayed instead of AUX.



TYPICAL - iPod DEVICE SCREEN

Press the LEFT/RIGHT button to change the song in the current folder.

Press and hold the LEFT/RIGHT button for more than one second to change the playlist if the playlist item is selected, to change the artist if the artist item is selected and to change the album if the album item is selected.

While riding, the available functions are:

- Audio volume and mute
- Previous or next song selection
- Artist, album or playlist selection.

### Compatible iPod Device

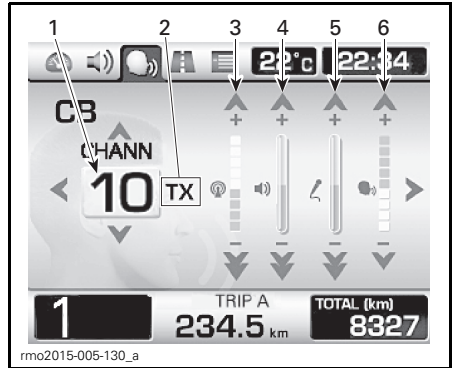
Made for:

- iPod touch (2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> generation)
- iPod nano (5<sup>th</sup> and 6<sup>th</sup> generation)
- iPad
- iPad 2
- iPhone 4
- iPhone 3GS
- iPhone 3G.

### CB Screen (Optional)

This screen is only available when a CB is installed.

**NOTE:** The CB screen will appear whenever the PTT (Push To Talk) button is pressed whatever the screen that was displayed.



TYPICAL

1. Current channel
2. CB communication status:RX (receiving), TX (transmitting) and OFF
3. Squelch adjustment
4. CB volume adjustment
5. Intercom volume adjustment (i-com)
6. Voice activation sensitivity adjustment (vox)

Use the LEFT/RIGHT buttons to select the item to change (channel, squelch, CB volume, intercom volume and vox detection).

Use the UP/DOWN buttons to set a value.

Press and hold the DOWN button for more than one second to set the item to its lowest value.

# GPS (OPTION PACKAGE)

For GPS operation, refer to *GPS MANUAL*.

## **⚠ WARNING**

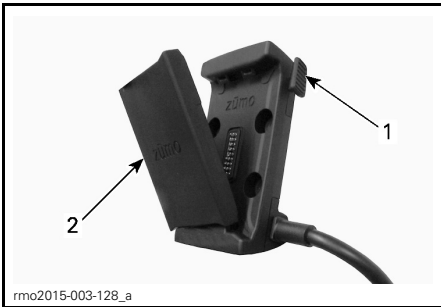
Reading the GPS receiver can distract from the operation of the vehicle, particularly from constantly scanning the environment. Before reading the GPS receiver, ensure your environment is clear and free from obstacle, and bring the vehicle to a low speed. Additionally, make sure to often double-check for obstacles.

## **⚠ WARNING**

Remember, the data provided by the GPS receiver is for reference only. NEVER rely solely on this information for your safety.

## GPS Receiver Installation

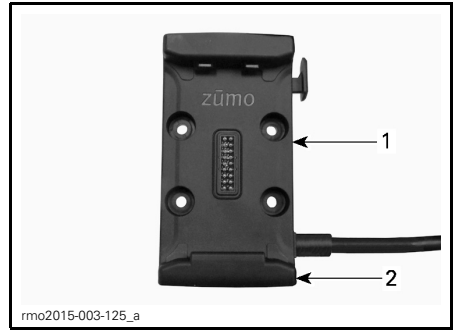
To remove the cover plate from the GPS base, press on the push button to release it.



1. Push button
2. Cover plate

To attach the GPS receiver to its base; insert the lower part of the GPS receiver first into the tab, then push the GPS receiver towards the top of the base.

Push into place until it locks in.



1. Base
2. Tab



1. GPS installed

## GPS Receiver Removal

Press the push button.

Gently pull the top of GPS receiver from the base until it unlocks.

Reposition the cover plate on the base and push into place.

Install rubber boot on receiver.

**⚠ CAUTION** The rubber boot must be installed at all times except when the GPS is installed onto the vehicle.



1. Cover boot

# EQUIPMENT

## Mirrors

### Adjusting Mirrors

Press the mirror at the points shown below to adjust its position in the four directions.



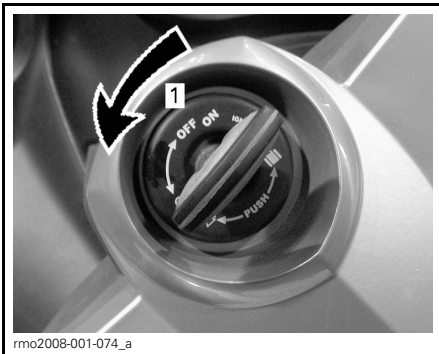
MIRROR ADJUSTMENT POINTS

## Glove Box

### Locking the Handlebar/Glove Box

To lock the steering mechanism and the glove box:

1. Insert key in ignition switch.
2. Rotate the handlebar all the way to the right or to the left.
3. Turn the key 1/4 turn counterclockwise to the steering lock position then remove key.



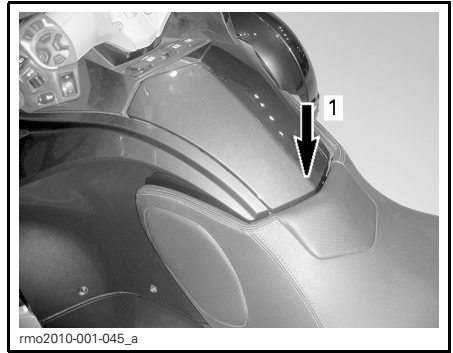
KEY POSITION TO LOCK HANDLEBAR

1. Turn key 1/4 turn

### Opening the Glove Box

First ensure steering is not locked to allow glove box opening.

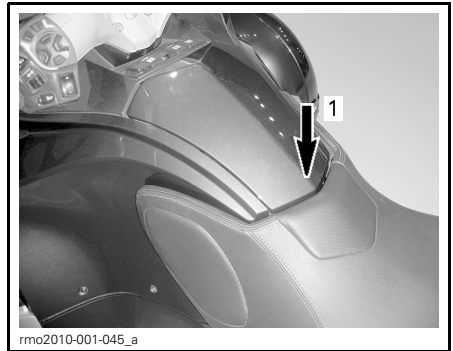
Push on the lower end of glove box to release it.



1. Push here to release

Open cover.

When done, close cover then push on the lower end of glove box to latch it.



1. Push here to latch

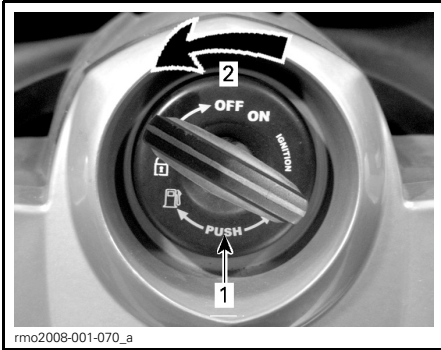
Always latch the glove box after usage.

**NOTE:** The glove box will be automatically locked when locking the steering.

## Front Storage Compartment

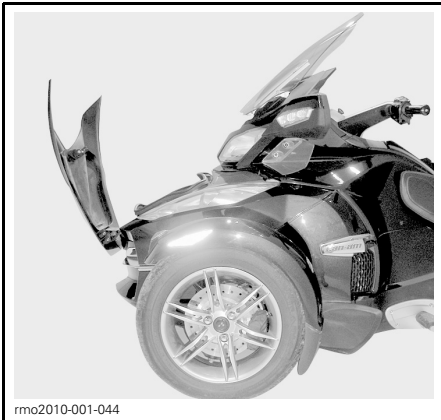
### Opening the Front Storage Compartment

1. Insert key in ignition switch.
2. Push and turn the key 1/4 turn counterclockwise to the front storage compartment position and hold while lifting cover.



#### KEY POSITION TO OPEN FRONT STORAGE COMPARTMENT

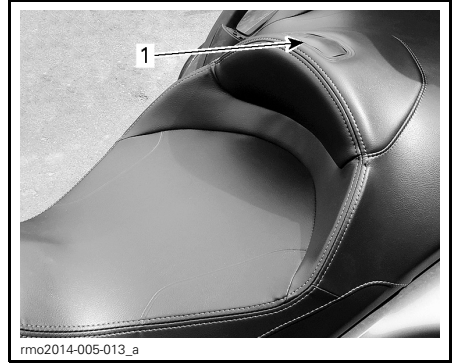
1. Push key
2. Turn key 1/4 turn



OPENED

## Seat

The operator's seat is equipped with a provision to install the operator's seat backrest (available in option).

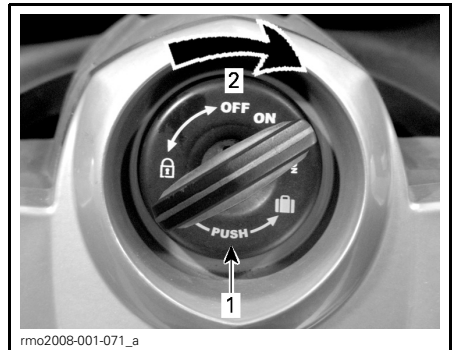


1. Backrest access cover

**NOTE:** When backrest is not installed, make sure the five tabs of the access cover are properly engaged.

### Opening the Seat

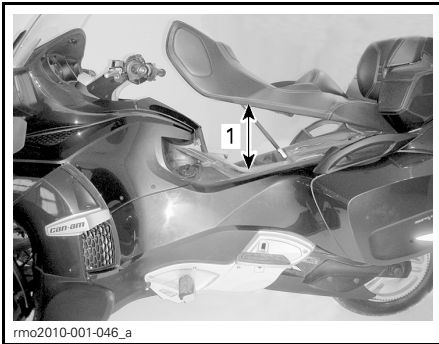
1. Insert key in ignition switch.
2. Push and turn the key 1/4 turn clockwise to the seat opening position and hold while lifting seat.



#### KEY POSITION TO OPEN SEAT

1. Push key
2. Turn key 1/4 turn

**NOTICE** Do not force the seat past the maximum opening angle or it may break.

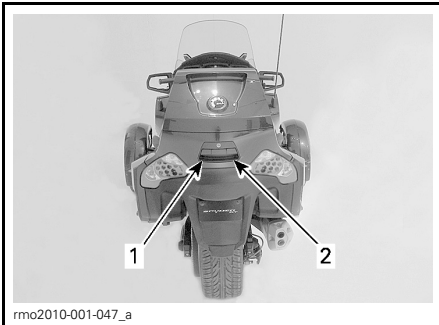


1. Maximum opening of seat

## Storage Compartments

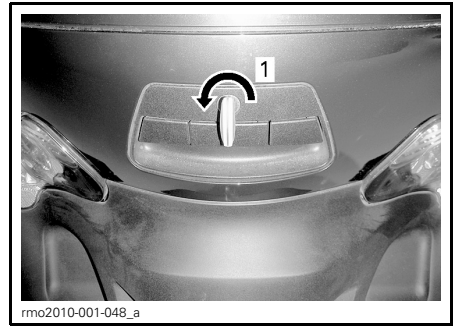
### Opening the Side Storage Compartments

The side storage compartment latches are located at the rear of vehicle.



1. Latch for the left side storage compartment  
2. Latch for the right side storage compartment

If locked, use the ignition key and unlock all the latches at the same time by turning key counterclockwise.



1. Turn counterclockwise to unlock

Pull the left side latch to open the left side storage compartment cover and pull the right side latch to open the right side cover.



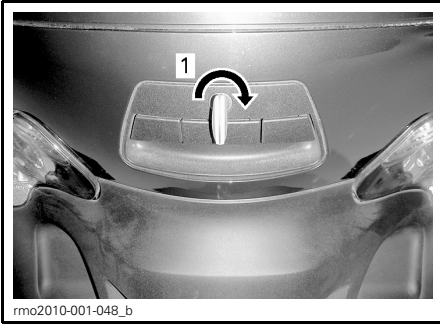
1. Opening the left cover

The chosen storage compartment cover will open.

**NOTE:** Be aware that objects may have moved while riding. Pay attention not to drop objects while opening the cover.

Always latch the cover after usage.

When finished, lock the latches if desired. Turn key clockwise.



1. Turn clockwise to lock

**NOTICE** Never ride the vehicle with any cover open.

### Closing the Side Storage Compartments

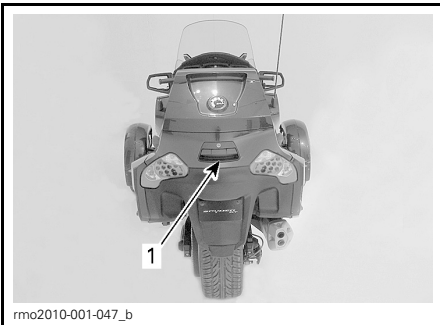
Lift slowly the side storage compartment cover to let air flow out.

Bring the cover at closing position.

Put your hand in the center of the cover then push to lock.

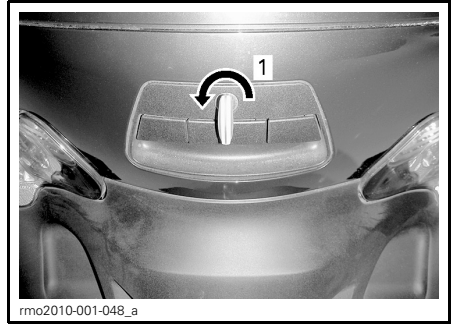
### Opening the Top Storage Compartment

The top storage compartment latch is located at the rear of vehicle.



1. Latch for the top storage compartment

If locked, use the ignition key and unlock all the latches at the same time by turning key counterclockwise.



1. Turn counterclockwise to unlock

Pull the latch.

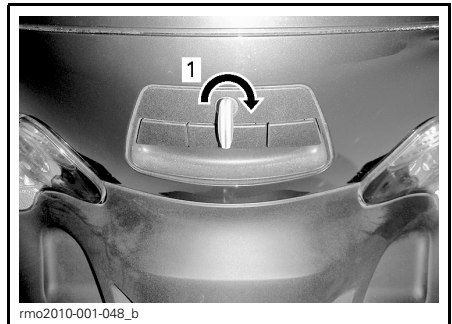


1. Opening the top cover

Open the storage compartment cover.

Always latch the cover after usage.

When finished, lock the latches if desired. Turn key clockwise.



1. Turn clockwise to lock

**NOTICE** Never ride the vehicle with the cover open.



## Helmet

### Securing a Helmet

Two helmet hooks are provided under the seat to secure a helmet.

Open seat.

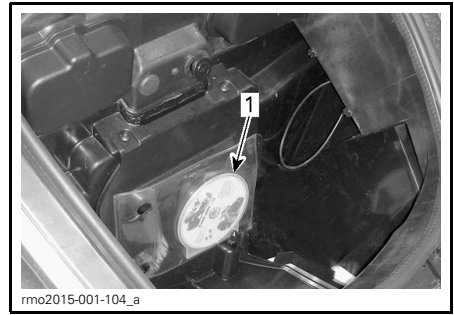


1. RH helmet hook

Secure the helmet strap buckle on the hook.

Gently put down helmet on the vehicle side panel.

Carefully close the seat and latch.



rmo2015-001-104\_a

TYPICAL

1. Operator's guide

## Tool Kit

### Tool Kit Location

The tool kit is located under the seat.

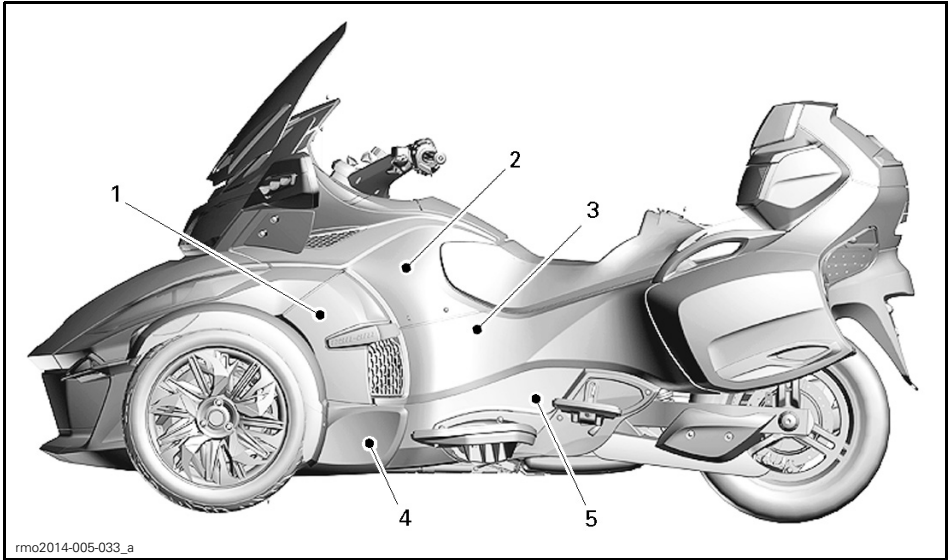
The tool kit contains the tools for the basic maintenance described in this Operator's Guide.

### Operator's Guide

The operator's guide is located with the *SAFETY DVD* video inside the front storage compartment.

## Body Panels

The body panels on the vehicle can be removed for maintenance.

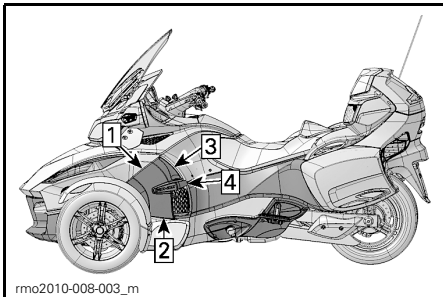


### LEFT HAND SIDE PANELS

1. Side panel
2. Top side panel
3. Rear side panel
4. Bottom front side panel
5. Bottom rear side panel

### Side Panel

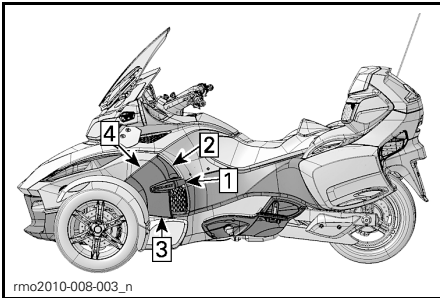
#### Removal



### REMOVAL SEQUENCE

1. Pull the top front of the panel out of its grommet.
2. Pull the bottom front of the panel out of its grommet.
3. Unclip the top rear of the panel.
4. Pull the rear of the panel out of its grommet.

## Installation



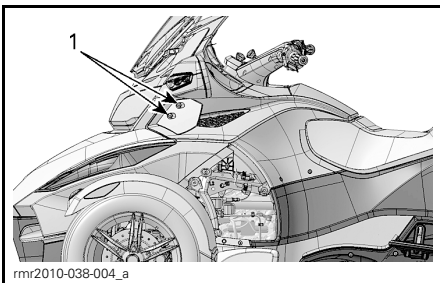
### INSTALLATION SEQUENCE

Reinstall side panel in the reverse order of the removal.

## Top Side Panel

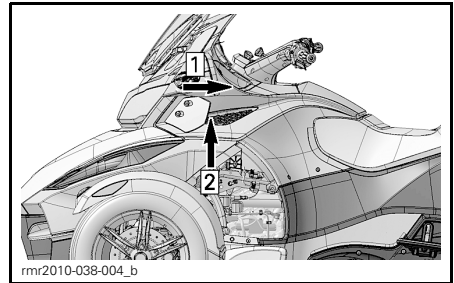
### Removal

1. Open seat.
2. Open front storage compartment.
3. Remove side panel.
4. Remove retaining screws from lower wind deflector.



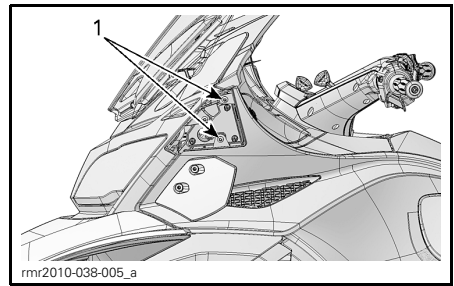
1. Retaining screws of wind deflector

5. Remove mirror:
  - 5.1 Push firmly on the top front of the mirror towards the rear of the vehicle.
  - 5.2 Push up firmly on the outermost part of the mirror.



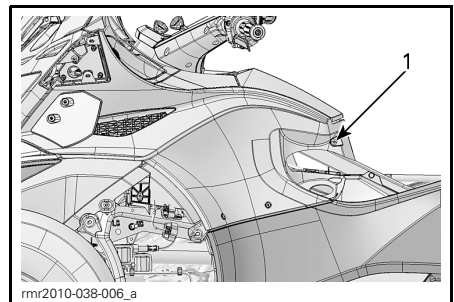
- Step 1: Push towards the rear
- Step 2: Push up

6. Remove upper retaining screws from top side panel.



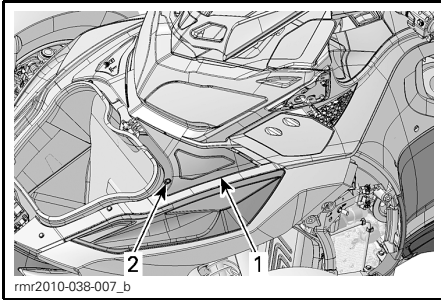
1. Upper retaining screws

7. Remove rear retaining screw from top side panel.



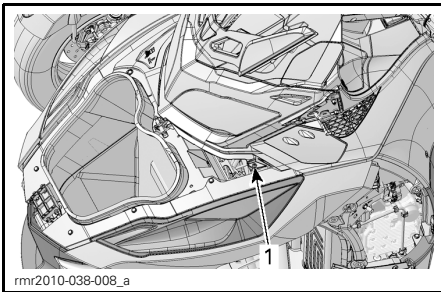
1. Rear retaining screw

8. Remove left service cover by removing plastic rivet.



1. Left service cover
2. Plastic rivet

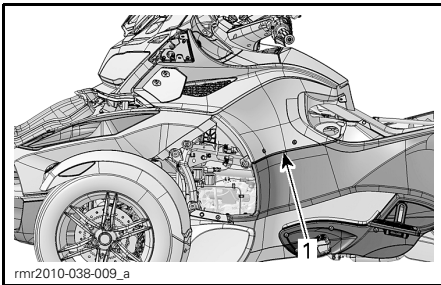
9. Remove front retaining screw from top side panel.



1. Front retaining screw

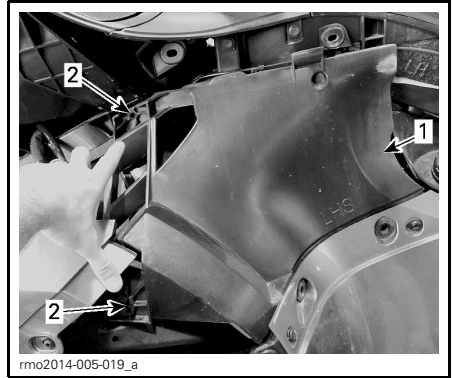
10. Remove lower retaining screws of top panel.

11. Remove top side panel by lifting it upwards.



1. Top side panel

12. Remove two screws from the acoustic panel.



1. Acoustic panel
2. Screws

13. Remove the acoustic panel.

**NOTE:** There are two esthetic screws on the top side panel which cannot be removed.

### Installation

Reinstall top side panel in the reverse order of the removal.

### Rear Side Panel

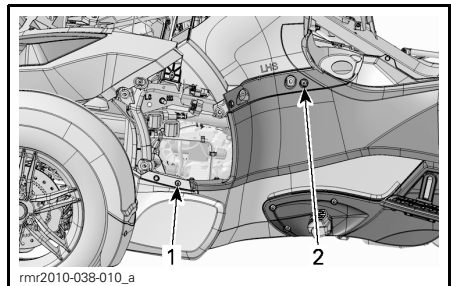
#### Removal

1. Remove side panel.

2. Remove top side panel.

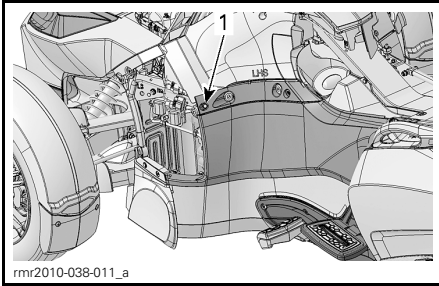
3. Remove front retaining screw of rear side panel.

4. Remove upper retaining screw and washer from rear side panel.



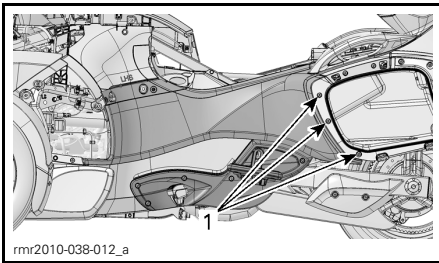
1. Front retaining screw
2. Upper retaining screw

5. Remove front plastic rivet from rear side panel.



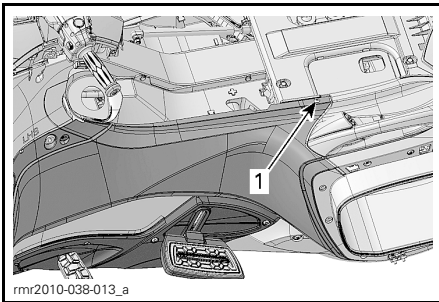
1. Front plastic rivet

6. Open side storage compartment cover.
7. Remove rear retaining screws from rear side panel.



1. Rear retaining screws

8. Remove top retaining screw of rear side panel.



1. Top retaining screw

9. Remove rear side panel from vehicle.

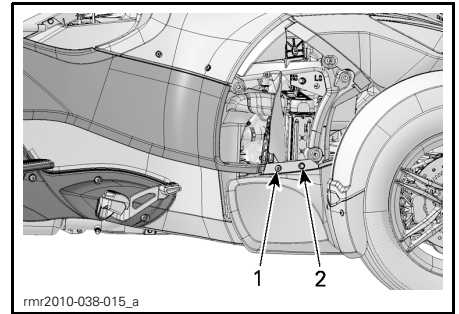
## Installation

Reinstall rear side panel in the reverse order of the removal.

## Bottom Front Side Panel

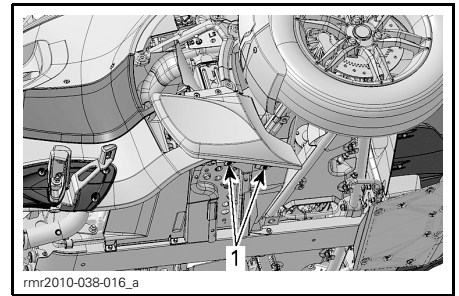
### Removal

1. Remove side panel.
2. Remove upper retaining screw from panel.
3. Remove upper plastic rivet from panel.



1. Upper retaining screw
2. Upper plastic rivet

4. Remove the 2 bottom plastic rivets from the panel.



1. Plastic rivets

5. Remove bottom front side panel from vehicle.

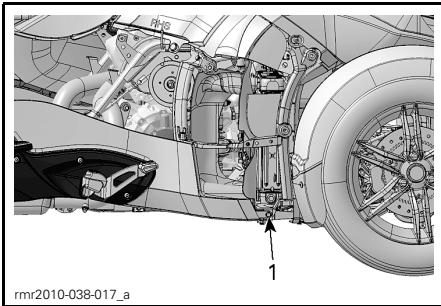
### Installation

Reinstall bottom front side panel in the reverse order of the removal.

## Bottom Rear Side Panels

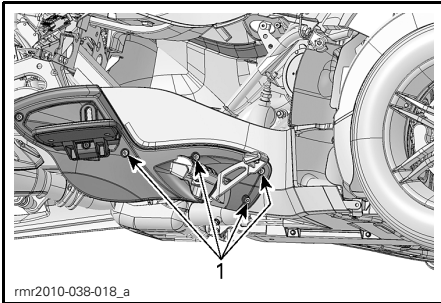
### Removal of Bottom Rear RH Side Panel

1. Remove middle side panel.
2. Remove top side panel.
3. Remove rear RH side panel.
4. Remove bottom front side panel.
5. Remove bolt and nut from bottom rear RH side panel.



1. *Front retaining nut*

6. Remove retaining screws from bottom rear RH side panel.



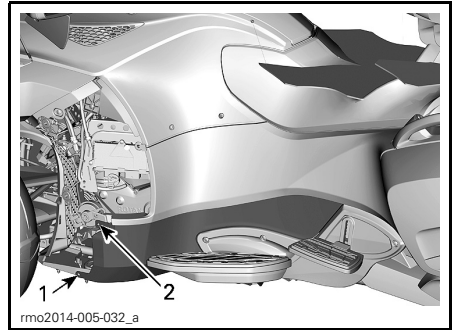
1. *Retaining screws*

7. Remove bottom rear RH side panel from vehicle.

### Removal of Bottom Rear LH Side Panel

1. Remove middle side panel.
2. Remove top side panel.
3. Remove rear LH side panel.

4. Remove bottom front side panel.
5. Remove bottom retaining screw from bottom rear LH side panel.



1. *Bottom retaining screw*
2. *Upper retaining screw*

6. Loosen upper retaining screw.

**NOTE:** Upper retaining screw remains attached to bottom panel.

7. Remove bottom rear side panel from vehicle by pulling forward to release panel from bracket.

**NOTE:** The back of the panel is inserted between the bracket and aluminium support.

### Installation

Reinstall bottom rear side panels in the reverse order of the removal.

# BASIC PROCEDURES

## Adjusting the Passenger Footrest

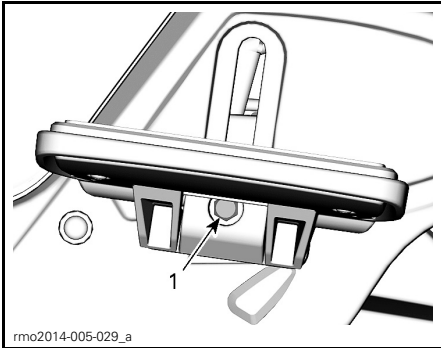
For the passenger's comfort, its footrest height can be adjusted.

Flip the footrest upward.

Turn the retaining screw counterclockwise with a wrench (stored in the tool kit) to loosen the screw.

**NOTE:** Do not completely unscrew the retaining screw to adjust the footrest. Unscrew only until you can disengage the footrest from the slots.

Raise or lower the footrest to your convenience.



1. Retaining screw

When finished, tighten retaining screw clockwise.

Flip the footrest downward.

## Starting and Stopping the Engine

### Starting the Engine

#### **⚠ WARNING**

Exhaust gas contains poisonous carbon monoxide that can rapidly accumulate in an enclosed or poorly ventilated area. If inhaled, it can cause serious injury or death.

Only run the engine in an unenclosed, well ventilated area. See the *GENERAL PRECAUTIONS* section.

#### *SM6 Model*

1. Push down and hold the brake pedal.
2. Turn the key to ON.

**NOTICE** Do not apply throttle while electrical system is initializing.

3. Refer to the Safety Card as needed to prepare yourself, your passenger and the vehicle, then press the MODE button to allow engine starting.
4. Set the engine stop switch to the RUN/ON position.
5. Pull in and hold the clutch lever.
6. Shift into NEUTRAL. Check the multifunction gauge to be sure you are in neutral.
7. Press and hold the engine start button until the engine starts. Do not hold the start button for more than 15 seconds. If it does not start, release the button and wait 30 seconds to let the starter cool down before trying again.

**NOTICE** Do not apply throttle while starting the engine.

8. Check the display for problems and to ensure that the oil light turns off.
9. Release the parking brake. Make sure the brake indicator lamp on the multifunction gauge is off.

### SE6 Model

**NOTE:** The SE6 model can be started in any gear with the brake pedal pressed. The transmission automatically shifts to neutral when the engine has been started.

1. Push down and hold the brake pedal.
2. Turn the key to ON.

**NOTICE** Do not apply throttle while electrical system is initializing.

3. Refer to the Safety Card as needed to prepare yourself, your passenger and the vehicle, then press the MODE button to allow engine starting.
4. Set the engine stop switch to the RUN/ON position.
5. Press and hold the engine start button until the engine starts. Do not hold the start button for more than 15 seconds. If it does not start, release the button and wait 30 seconds to let the starter cool down before trying again.

**NOTICE** Do not apply throttle while starting the engine.

6. Check the display for problems and to ensure that the oil light turns off.
7. Release the parking brake. Make sure the brake indicator lamp on the multifunction gauge is off.

## Stopping the Engine

### SM6 Model

1. Shift into first gear.
2. Set the engine stop switch to OFF.

3. Engage the parking brake. The brake indicator lamp will flash.
4. Turn the key to OFF.
5. Before dismounting, check that the parking brake is fully engaged. Hold the clutch and rock the vehicle back and forth.

### WARNING

Always engage the parking brake. The vehicle can roll if the parking brake is not engaged and the transmission is in neutral.

### SE6 Model

1. Shift into neutral.
2. Set the engine stop switch to OFF.
3. Engage the parking brake. The brake indicator lamp will flash.
4. Turn the key to OFF.

**NOTE:** If the parking brake is not engaged while the key is OFF, the parking brake indicator lamp will flash and a beeper will sound.

5. Before dismounting, check that the parking brake is fully engaged. Rock the vehicle back and forth.

### WARNING

Always engage the parking brake. The vehicle can roll if the parking brake is not engaged, regardless of what gear it is in. The clutch is always disengaged when the vehicle is stopped, so the transmission will not hold the vehicle in place.

### All Models

This vehicle is equipped with an Electronic Throttle Control (ETC).

## Pushing the Vehicle

**NOTE:** Before pushing the vehicle, ensure the ignition key is in the ON position.



**⚠ CAUTION** Avoid pushing the vehicle on a slope. If you must push the vehicle on a slope, take extra care to stay within reach of the brake pedal in case the vehicle starts to roll.

To move the vehicle a short distance without starting the engine:

1. While seated on the vehicle, push down and hold the brake pedal.
2. Shift the transmission into NEUTRAL (SM6 model).
3. Disengage the parking brake.
4. Dismount on the right side of the vehicle, keeping your foot on the brake pedal.
5. Push the vehicle, using the brake as needed.

**⚠ CAUTION** Only push from the right side, so you can reach the brake pedal. Stay clear of the hot exhaust pipe.

When pulling the vehicle backward, be careful that the front wheel does not roll over your feet.

6. Remount the vehicle and park as specified above.

## Operating in Reverse

For safe operation in reverse, refer to *SAFE OPERATING INSTRUCTIONS* section.

### Shifting Into Reverse (SM6 Model)

1. With engine running, shift into first gear.
2. Hold in the clutch lever.
3. Press and hold the reverse button.
4. Step down on the shift lever one stroke.
5. Release the reverse button and check that the letter "R" flashes on the multifunction gauge and the backup lights turn on.

### Shifting Into Reverse (SE6 Model)

1. With engine running, the roadster stopped, and the brake depressed, shift into first gear or neutral.
2. Press and hold the reverse button.
3. Pull the gearshift selector toward you to downshift to reverse.

### Driving in Reverse

Check that the area behind you is clear and continue to look backwards while you operate in reverse. Keep your speed low and do not back up for long distances.

### Shifting Out of Reverse

#### *SM6 Model*

To shift out of reverse, hold in the clutch and lift the shift lever once to shift into first. You do not need to use the reverse button — it resets automatically.

#### *SE6 Model*

To shift out of reverse, stop vehicle and push on upshift selector quickly to shift into neutral and more longer to shift in first gear.

**NOTE:** To shift out of reverse into 1st gear, press the brake pedal and shift up.

## Operation During Break-In

A break-in period of 1 000 km (600 mi) is required for the vehicle.

During the first 300 km (200 mi), avoid hard braking.

**⚠ WARNING**

New brakes and tires do not operate at their maximum efficiency until their break-in is completed. Braking, steering and VSS performance may be reduced, so use extra caution. Brakes and tires take about 300 km (200 mi) of riding with frequent braking and steering to break-in. For riding with infrequent braking and steering, allow extra time to break-in the brakes and tires.

During the first 1 000 km (600 mi):

- Avoid full throttle acceleration.
- Avoid prolonged riding.
- If the cooling fans operate continuously during stop and go traffic, pull over and shut off the engine to let it cool off or speed up to let air cool off the engine.

After the first 5 000 km (3,000 mi), your vehicle should be inspected by an authorized Can-Am roadster dealer as per the *MAINTENANCE SCHEDULE* subsection.

**Fueling****Fuel Requirements**

**NOTICE** Always use fresh gasoline. Gasoline will oxidize; the result is loss of octane, volatile compounds, and the production of gum and varnish deposits which can damage the fuel system.

Alcohol fuel blending varies by country and region. Your vehicle has been designed to operate using the recommended fuels, however, be aware of the following:

- Use of fuel containing alcohol above the percentage specified by government regulations is not recommended and can result in the following problems in the fuel system components:
  - Starting and operating difficulties.
  - Deterioration of rubber or plastic parts.
  - Corrosion of metal parts.
  - Damage to internal engine parts.
- Inspect frequently for the presence of fuel leaks or other fuel system abnormalities if you suspect the presence of alcohol in gasoline exceeds the current government regulations.
- Alcohol blended fuels attract and hold moisture which may lead to fuel phase separation and can result in engine performance problems or engine damage.

**Recommended Fuel**

Use premium unleaded gasoline with an AKI (RON+MON)/2 octane rating of 91, or an RON octane rating of 95.

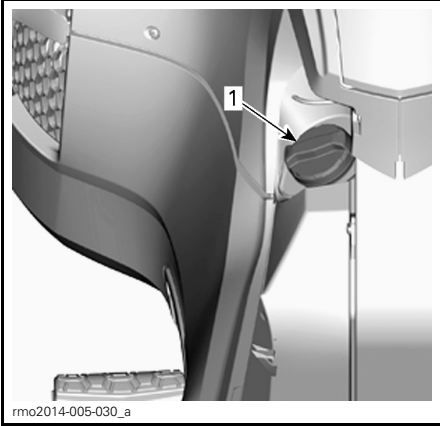
**NOTICE** Never experiment with other fuels. Engine or fuel system damages may occur with the use of an inadequate fuel.

**Refueling Procedure****⚠ WARNING**

Gasoline is extremely flammable and highly explosive. Follow the refueling procedure to reduce the risk of fire or explosion. See the *GENERAL PRECAUTIONS* section.

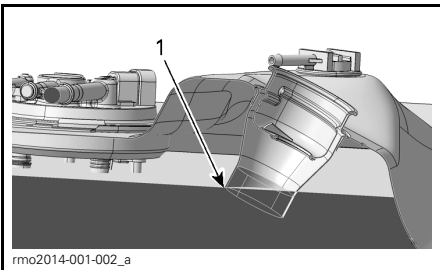
To refuel the vehicle:

1. Park outdoors in a well ventilated area away from flames, sparks, anyone smoking and other sources of ignition.
2. Stop the engine.
3. Unlatch and lift seat (see *EQUIPMENT* subsection). The fuel cap is located on the left side.



1. Fuel cap

4. Slowly rotate cap counterclockwise and remove it.
5. Fill the tank until the fuel level reaches the higher point of the filler tube.



1. Higher point of the filler tube

**NOTE:** Do not try to top off the fuel tank. Leave some room for the fuel to expand with temperature changes.

6. Wipe up any spilled fuel. If fuel spills on you, wash with soap and water and change your clothes.
7. Put cap on and fully tighten clockwise until you hear a click. Never start or operate the engine with the fuel cap removed.
8. Close seat.

## Adjusting Suspension

### ACS Rear Suspension Adjustment (with Manual Adjustment)

The rear air suspension is pressurized for general operation. If the vehicle load changes (adding a passenger, riding with more cargo etc.) or if a softer or a harder setting is desired, the pressure of the rear suspension can be changed to your preferences.

The suspension pressure is adjustable by deflating or inflating the air spring. Use an air compressor (from a gas station) and a pressure gauge.

To soften suspension, reduce the air pressure and to harden suspension, increase air pressure.

**NOTE:** The following chart is a guideline only. You may adjust the pressure to your riding preference as long as you do not exceed the maximum allowed pressure.

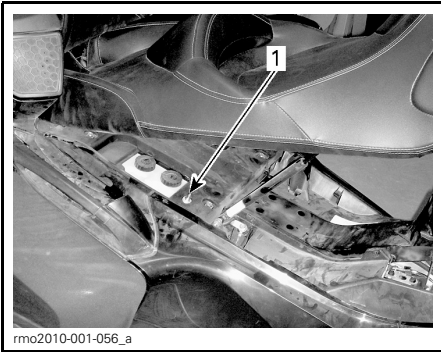
**NOTICE** Do not exceed the maximum allowed pressure. This might damage the air suspension.

| <b>WARNING</b>   |     |                        |          |          |          |           |
|--|-----|------------------------|----------|----------|----------|-----------|
| MINIMUM PRESSURE 70 kPa / 0.7 bar                      |     |                        |          |          |          |           |
| DO NOT EXCEED RECOMMENDED PRESSURE BY 70 kPa / 0.7 bar |     |                        |          |          |          |           |
| LOAD   |     | (PASSENGER + CARGO) Kg |          |          |          | 704904301 |
|  |     | 0                      | 45       | 70       | 90       | 115       |
| DRIVER   | Kg  | kPa/bar                | kPa/bar  | kPa/bar  | kPa/bar  | kPa/bar   |
|  | 70  | 310/3.10               | 380/3.80 | 450/4.50 | 480/4.80 | 515/5.15  |
|  | 90  | 345/3.45               | 415/4.15 | 480/4.80 | 515/5.15 | 550/5.50  |
|  | 115 | 380/3.80               | 450/4.50 | 515/5.15 | 550/5.50 | 585/5.85  |

704904301

**NOTE:** When adjusting the pressure, do not put your weight on the vehicle and do not load cargo in the storage compartment.

The air spring is connected directly to an air hose with a schrader valve located under the seat.



1. Schrader valve

To change the air pressure, proceed the same way as for setting the pressure in a tire.

When finished, ensure to reinstall cap on the valve.

### ACS Rear Suspension Adjustment (with Remote Adjustment)

#### Adjustment Guidelines

The rear suspension is calibrated for a general riding and will adjust automatically, using an integrated compressor, while riding to maintain this preset when the road conditions change or if the vehicle load changes (adding a passenger, riding with more cargo etc.).

**NOTE:** It is normal to hear pressure release or the air compressor operating while engine is running. It indicates the suspension is self-adjusting.

If the driver desires a softer or a stiffer adjustment than the factory setting, he can adjust the rear suspension by pressing the ACS switch in the switch cluster. By changing the ACS setting,

air pressure in the air spring will change to provide a customized suspension adjustment.

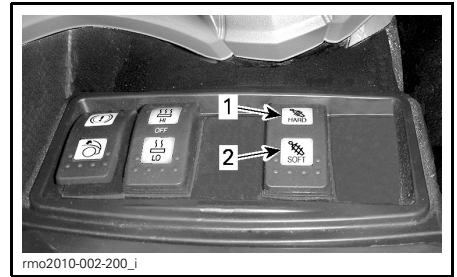
The following suspension settings are available.

| ACS SUSPENSION SETTINGS                     |         |
|---|---------|
| BAR GRAPH INDICATION IN MULTIFUNCTION GAUGE |         |
| 1 (top)                                     | Lowest  |
| 2   | Low     |
| 3   | Middle  |
| 4   | High    |
| 5 (bottom)                                  | Highest |

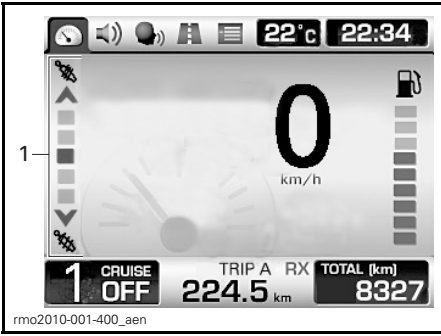
To change the actual setting, proceed as follows:

#### Adjusting Suspension (While Riding)

1. Press the ACS switch once (either UP or DOWN). The digital display will enter the suspension adjustment mode.

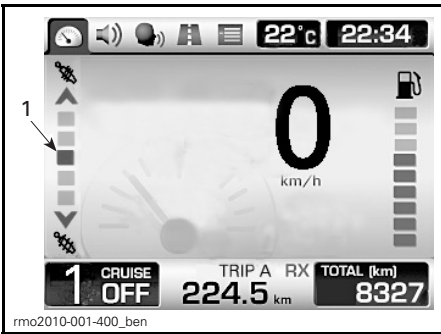


1. Press here to stiffen
2. Press here to soften



TYPICAL - SUSPENSION ADJUSTMENT MODE

1. Suspension settings
2. The highlighted bar indicates the actual setting.



TYPICAL

1. Actual setting
3. Pressing the switch UP or DOWN will move the highlighted bar accordingly one at a time. Releasing the switch will keep the set point after a few seconds.

### Adjusting Suspension (When Vehicle Is Stopped)

Follow the same instructions as for *ADJUSTING SUSPENSION (WHILE RIDING)*.

However the following conditions must be met:

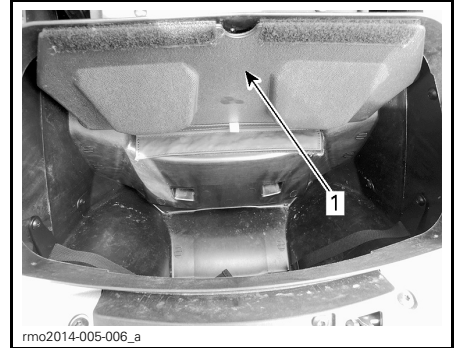
- Engine running
- Parking brake released
- Gearbox not in neutral position.

### Using the 12 V Power Outlet

A 12 V power outlet is available on the vehicle. It is located in the top storage compartment.

#### LTD Model

To access the 12 V power outlet, open the access flap in the top storage compartment.



1. Access flap

#### All Models



1. Power outlet

A 12-volt electric appliance may be connected to the jack connector. Electric current is supplied all the time.

**NOTICE** The 12-volt power outlet is not designed to supply current of more than 3 amperes.

**NOTE:** Leaving an appliance connected while the engine is not running will gradually discharge the battery.

**NOTE:** When fuse 6 is installed in the RH fuse box, 12 V power outlet is only operational when ignition switch is at ON position. When fuse 7 is installed, 12 V power outlet is always operational.

## Using the Audio in Jack

An audio input jack is provided in the top storage compartment.



1. Audio in jack

An audio player such as a CD player, iPod mobile digital device or a MP3 player can be connected in this jack to be played through the audio system. The iPod mobile digital device can be partially controlled through the RECC.

**NOTE:** An adapter (optional on some models) is required to connect the audio player to the vehicle audio jack.

# ***SAFE OPERATING INSTRUCTIONS***

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# WHAT'S DIFFERENT ABOUT THE SPYDER ROADSTER

The Spyder roadster is a different type of road vehicle. This section will help you understand some of the vehicle distinctive features and operating characteristics.

## Stability

The three-wheeled “Y” configuration provides greater low-speed stability than a motorcycle. However, it is not as stable as a four-wheeled vehicle such as an automobile. Driving aid technologies, like the electronic Vehicle Stability System (VSS), help maintain stability during maneuvers, but you can still lose control, tip or roll the vehicle due to extreme maneuvers (such as hard turns at high speeds) or striking uneven surfaces or objects. In addition, the operator or passenger can fall off due to hard turns, acceleration, braking or impacts.

## Response to Road Conditions

The Spyder roadster responds differently than other vehicles to certain road conditions.

- Do not ride off-road or on ice or snow.
- Avoid puddles and running water. The vehicle hydroplanes more easily than a car. If you must go through water, slow down.
- Slow down on gravel, dirt or sand covered roads.

See the *STREET STRATEGIES* subsection for detailed instructions.

## Brake Pedal

One pedal brakes all three wheels. There is no hand-operated brake, and there is no way to brake front and rear wheels separately. The Spyder roadster is better able to brake and steer at the same time than a motorcycle. The

vehicle can stop quickly – be aware of vehicles behind you that may not be able to stop as quickly.

## Anti-Lock Braking System (ABS)

The vehicle is equipped with an Antilock Braking System (ABS) as part of the Vehicle Stability System (VSS). For hard braking, press and hold the brake pedal. ABS will prevent wheels from locking.

## Parking Brake

The parking brake mechanically brakes the rear wheel only, and it locks in place when engaged. It is not controlled by driving aid technologies (e.g., ABS, Electronic Brake Distribution).

## Steering

### Direct Steering

To steer your Spyder roadster, always steer in the direction of the turn.

Motorcyclists — Do not countersteer as it is done on a motorcycle. Unlike a motorcycle, your Spyder roadster cannot lean while turning. If you are a motorcyclist, you must relearn how to turn. Practice steering in the direction of the turn at all speeds until you are proficient.

### Sideways Forces in Turns

Unlike a motorcycle, the Spyder roadster does not lean in turns. You will feel sideways forces pushing you to the outside of the turn. To maintain balance, the operator and passenger must hold on with both hands and keep both feet firmly planted on the footrests. In hard turns, it may help to lean your upper body forward and toward the inside of the turn.



## Width

Because the Spyder roadster is wider than a typical motorcycle:

- Keep the front wheels in your lane during turns. Be particularly aware of where your front wheels are in curves and when passing. If you take a path that would put a motorcycle front wheel near the edge of the lane, the Spyder roadster front wheel may be out of the lane.
- Do not share lanes or split lanes (ride between two lanes of traffic). Group riding should proceed in a single file, even with motorcycles.
- Be prepared to swerve farther to avoid obstacles.

## Reverse



The Spyder roadster operates in reverse like a car. However, there are some important differences:

- The backup lights turn on when it is in reverse. Be aware that other motorists might not know that you are about to back up.
- If necessary, have the passenger dismount if your visibility is limited.
- Remember that the front is wider than the rear. Do not back up too close to objects or you may hit them with the front tires.
- Keep your speed low and do not back up for long distances.
- When possible, park so that you do not have to back out of the parking space.
- SM6 model: Shift back into first gear before shutting off the engine.

**⚠ CAUTION** Always keep both feet on the pegs while operating in reverse. Never put your feet on the ground while backing-up.

## Driver's License and Local Laws

Driver's license requirements for operating the Spyder roadster vary by location. Depending on local laws, you may need a motorcycle endorsement, three-wheeled vehicle endorsement, or just a standard automobile driver's license.

Check with local authorities to make sure you have the proper license before operating the vehicle on public roads.

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# DRIVING AID TECHNOLOGIES

## Vehicle Stability System (VSS)

The Spyder roadster is equipped with a Vehicle Stability System (VSS). VSS can help you control the direction of the vehicle and reduce the risk of tipping or rolling over in some situations. VSS consists of:

- An **Antilock Braking System (ABS)** that helps maintain steering control during hard braking by preventing the wheels from locking.
- An **Electronic Brake Distribution (EBD)** system that automatically adjusts the brake balance between all three wheels. With the ABS, EBD helps maintain directional control and maximize the braking force depending on the traction available.
- A **Traction Control System (TCS)** that helps prevent the rear wheel from slipping under throttle demand. The TCS will limit rear wheel spin only if you turn the handlebar (steer out of straight line) or if vehicle speed exceeds 50 km/h (31 MPH). When off-throttle (deceleration), the TCS will prevent the rear wheel from blocking.
- A **Stability Control System (SCS)** is designed to limit the power driving the rear tire and to brake individual wheels, which reduces the risk of losing control of the vehicle or rolling over.

**NOTE:** The VSS light in the gauge will turn on when VSS intervenes and will remain on for 2 seconds after VSS intervention.

### Limitations

VSS cannot help you maintain control in all situations.

### Surfaces with Poor Traction

The grip of tires on the road surface limits the maximum braking. Even with ABS and EBD, your stopping dis-

tance will be longer on surfaces with poor traction or if you do not maintain tire pressure and tread condition.

If your tires lose traction with the road surface you may lose control of the vehicle, even with VSS.

If the paved road surface is covered or partially covered with ice, snow or slush, there is not enough traction available to maintain control of the vehicle, even with VSS. Do not operate on snow, ice or slush.

Like other on-road vehicles, this vehicle can hydroplane on water (lose traction on a layer of water). If you ride too fast into a layer of water, such as a large puddle or flowing water on the road, the vehicle can lose traction and spin out, and the VSS cannot keep you in control. Avoid large water puddles or water streams, and slow down or pull off the road during heavy rains. If you must pass through water, slow down as much as possible before you reach it.

Reduce speed on surfaces with poor traction, like mud, sand, gravel or wet pavement. The Spyder roadster is not for off-road operation. Always operate the vehicle on maintained roadways. Do not use the vehicle on any other terrain.

### Tires

The VSS on the vehicle has been calibrated to perform best with a tire of a specific size, material and tread pattern. Replacing your tires with ones not approved by BRP can cause the VSS to be ineffective.

Use only BRP recommended tires, which can be ordered only from an authorized Can-Am roadster dealer.

Proper tire inflation pressure and tread condition are important for maintaining traction, especially on loose or wet surfaces.

## Hard Turns

The VSS does not control or limit steering input — it cannot keep you from turning too sharply. Large and rapid steering handlebar movements can cause the vehicle to go out of control, spin, tip or roll over.

## Excess Speed

The VSS does not control the vehicle speed, except when SCS intervenes during a turn. VSS does not prevent the vehicle from entering a turn too fast. If you drive too fast for conditions, you can lose control, even with VSS.

## Dynamic Power Steering (DPS)

The DPS (Dynamic Power Steering) provides a computer controlled, variable power assist, achieved by an electric motor to optimize the amount of steering effort required by the rider.

The steering assist level is dependent of the handlebar effort, the steering angle and the vehicle speed.

When vehicle is in the reverse gear, power steering assist will decrease as vehicle speed increases.

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# UNDERSTANDING RISK ON THE ROAD

Before you operate the Spyder roadster, consider your risk of being hurt or killed in a crash, how you can reduce the risk and whether you are willing to take the risk. There are many factors that contribute to the risk that you face. You can control some of these factors, but others, like the behavior of other drivers, are beyond your control. Here are some of the factors that affect your risk:

## Type of Vehicle

Different types of vehicles vary in terms of size, visibility and maneuverability and provide different degrees of protection.

The Spyder roadster is small and maneuverable. Maneuverability can help avoid crashes. However, smaller vehicles are harder to see, which increases the chance that other motorists will cause a crash. In some situations, the Spyder roadster is less likely to be in a crash than a motorcycle. For example, you are less likely to tip over at low speeds while operating the vehicle. However, in other situations, the vehicle is more likely to be in a crash. For example, because the vehicle is wider, it will not fit through as small an opening as many motorcycles.

In cars and trucks, the structure of the vehicle provides protection in crashes and from other road hazards. In addition, passengers can protect themselves by wearing seat belts. You should expect that riding the Spyder roadster is riskier than riding in a car and that the risk of injury is more like riding a motorcycle.

As when riding a motorcycle, you can reduce the risk of injuries by wearing a helmet and riding gear.

## Operator Skills and Judgment

Every driver has some control over their own risk on the road. Drivers who develop good skills will have better control of their vehicle. Do not rely on your experience with motorcycles, automobiles, ATVs, snowmobiles or any other kind of vehicle to prepare you to operate the Spyder roadster. Learn how this vehicle is different. Read this Operator's Guide, watch the *SAFETY DVD* video, and if available, take a training course. Become proficient with the controls and be able to do the practice exercises accurately and with confidence before going on the road.

When you begin riding on the road, start with less challenging situations (e.g., light traffic, lower speeds, good weather, no passenger) and gradually move on to more challenging riding situations as you develop your skills. Plan ahead to avoid situations that are too difficult for your skill level, or that present more risk than you want to take on.

Even skilled drivers cause crashes. For example, if you use your skills to do extreme maneuvers or stunts, you increase your risk. The smart driver uses good judgment along with skills to increase the margin of safety and minimize risk. Learn the defensive driving techniques in the *STREET STRATEGIES* subsection.

## Rider Condition

A driver needs to be alert, sober, and physically ready to ride. Never use this vehicle with drugs or alcohol. Riding when intoxicated, tired or otherwise impaired increases the risk of a crash.

Alcohol, drugs, medications, fatigue, drowsiness and emotions can all inhibit your ability to ride safely. Like riding a motorcycle, riding the Spyder roadster is a challenging activity – being in good physical and mental condi-

tion is even more important than for a car. The safest policy is to never operate the vehicle unless you are alert and completely sober. Even if your blood alcohol level is not over the legal limit, your judgment and skills are impaired by any alcohol consumption.

You must be physically able to operate all controls, turn the handlebar through the full range of steering, mount and dismount, and monitor your surroundings to operate the vehicle.

Passengers also need to be alert, sober and physically able to maintain their posture, hold on and react appropriately to curves, bumps, acceleration and stops.

## **Vehicle Condition**

Keep your vehicle in good condition.

Do pre-operation checks and perform regular maintenance. Watch for any messages on the multifunction gauge when you start the vehicle, and address any problems before you ride.

## **Road and Weather Conditions**

Roads with heavy traffic, poor visibility or poor traction surfaces increase your risk. Choose routes that are appropriate for your skill level and the level of risk you are willing to accept.

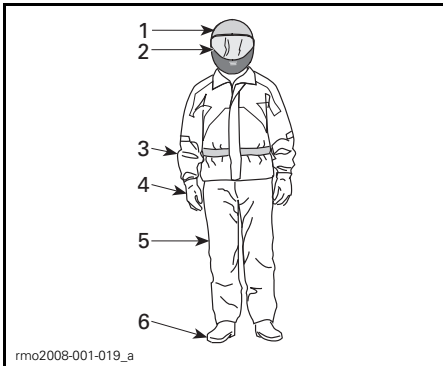
# RIDING GEAR

Riding three-wheeled, open-air vehicles like the Spyder roadster requires the same protective gear as motorcycling. Even though the vehicle is more stable at low speeds than a motorcycle, you can still be thrown off.

This section is based on guidance for motorcyclists given by the Motorcycle Safety Foundation (MSF).

In the event of a crash, protective gear may prevent or reduce injuries. Protective gear also helps you stay comfortable and can help provide protection against the elements.

Recommended basic protective gear for riders and passenger includes sturdy over-the-ankle footwear with non-slip soles, long pants, a jacket, full-fingered gloves and, above all, an approved helmet with proper eye protection.



## RIDING GEAR

1. Approved helmet
2. Eye and face protection
3. Jacket with long sleeves
4. Gloves
5. Long pants
6. Over-the-ankle footwear

Proper apparel can reduce the severity of injury in case of a crash for both operators and passengers.

## Helmets

Helmets protect the head and brain from injury. A helmet can also protect the passenger's face from impact

with the back of the operator's helmet. Even the best helmet is no guarantee against injury, but statistics indicate that helmet use significantly reduces the risk of brain injury. So, be safe and always wear a helmet while riding.

## Choosing a Helmet

Helmets should be manufactured to meet the appropriate standard in your state, province or country.

A full-face helmet gives the most protection against impacts since it covers all of the head and face. It can also protect against debris, stones, insects, etc.

A three-quarter or open-face helmet can also offer protection. It is constructed with the same basic components but does not offer the face and chin protection of full-face helmets. If you wear an open-face helmet, you should use a snap-on face shield or a pair of goggles.

**NOTE:** Ordinary glasses or sunglasses are not sufficient eye protection for a motorcyclist. They can shatter or fly off, and they allow wind and airborne objects to reach the eyes.

Use tinted face shields, goggles or glasses in the daytime only; do not use them at night or in poor illumination. Do not use them if they impair your ability to discern color.

## Other Riding Gear

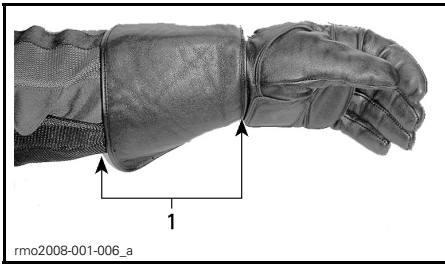
### Footwear

Always wear closed toe footwear. Sturdy over-the-ankle boots protect against a variety of riding hazards, such as stones that get thrown up from the roadway and burns from the hot exhaust pipe.

Avoid long shoelaces that can be tangled in the gearshift lever, brake pedal or other parts. Rubber soles and low heels are a good idea to help keep feet on the footrests.

## Gloves

Full-fingered gloves protect hands from the wind, sun, heat, cold and flying objects. Gloves that fit snugly will improve grip on the handlebar and help reduce hand fatigue. Sturdy, reinforced motorcycle gloves help protect hands in the event of a fall. Gloves made specifically for motorcyclists have seams on the outside to prevent irritation, and are curved to provide a natural grip when curled around the handgrips. If gloves are too bulky, it may be difficult to operate the controls. Gauntlets keep cold air from going up sleeves and protect the wrists.



1. *Glove gauntlet*

## Jackets, Pants and Riding Suits

Wear a jacket and long pants, or a full riding suit. Quality motorcycle-type protective gear will provide comfort, and it can help you avoid being distracted by adverse environmental elements. In case of a crash, good quality protective gear made of sturdy material may prevent or reduce injury. Some gear includes padding or hard armor that may further reduce the risk of injury in a crash. Pants also help protect against burns from hot parts.

Protective gear sold for motorcycling will often provide the best combination of fit and protection. These garments are designed to fit while sitting in a riding position. They are cut longer in the sleeves and legs and are fuller across the shoulders. Riding suits are available in both one-piece and two-piece sets.

Leather is a good choice because it is durable and wind-resistant and provides protection against injury. Other abrasive-resistant protective gear made of synthetic fabrics are good choices, too. Do not wear loose or long clothing or scarves that can become tangled in the moving parts.

Flaps and fasteners seal out the wind. A jacket with a zippered front will be more wind resistant than a jacket with buttons or snaps. A flap of material over the zipper of a jacket gives additional protection against the wind. Jackets with snug cuffs and waist are recommended to keep wind from blowing in. A large, loose collar can flap when riding and may irritate skin or be a distraction.

In cool-weather riding, protect yourself against hypothermia. Hypothermia, a condition of low body temperature, can cause loss of concentration, slowed reactions and loss of smooth, precise muscle movement. In cool conditions, proper protective gear like a windproof jacket and insulated layers of clothing are essential. Even at moderate temperatures, you can feel very cold due to the wind while riding.

Protective gear that is appropriate for cold-weather riding may be too hot when stopped. Dress in layers so that clothing can be removed as desired. Topping the protective gear with a windproof outer layer can prevent cold air from reaching the skin.

Riding gear can also help a rider be more visible. Wearing bright colors is a wise choice. If a dark jacket is worn, an inexpensive reflective vest can be worn over it. It is a good idea to put extra reflective tape on garments worn regularly while riding.

## Rain Gear

If you must ride in wet weather, a rain suit or a waterproof riding suit is recommended. On long rides, it is a good

idea to carry rain gear. A dry rider will be much more comfortable and alert than a rider who is wet and cold.

One or two-piece styles are available, and those designed specifically for motorcycling are best. High-visibility orange or yellow colors are good choices. A feature to look for is elastic in the waist, pant legs and sleeves. The jacket should have a high collar and zip up with wide flaps across the opening. When purchasing a rain suit, consider adding waterproof gloves and footwear.

Remember, if the weather is wet, it is best to avoid riding. If you do ride in wet weather, you may need to stop if water starts to accumulate on the road.

### **Hearing Protection**

Long-term exposure to wind and motor noise when riding can cause permanent hearing loss. Properly worn hearing protective devices such as earplugs can help prevent hearing loss. Check local laws before using any hearing protective devices.



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# REQUIRED RIDING SKILLS AND PRACTICE EXERCISES

Before you take the Spyder roadster on the road, you need to develop riding skills and strategies for managing risk on the road. The following exercises will familiarize you with the basic operation of the vehicle. If you have experience with motorcycles or other motor vehicles, pay particular attention to how the Spyder roadster operation and performance are different from vehicles you are used to. Practice each exercise until you can perform it proficiently before moving on to the next. If you tow a trailer, practice all the exercises riding with the trailer. This section includes the following exercises:

## ***SM6 Model***

1. Revving the engine and using the engine stop switch
2. Learning the friction zone and basic handling
3. Engine stop while in motion
4. Using the throttle and clutch
5. Basic turns
6. Quick stops
7. Weaves
8. Shifting
9. Swerve
10. Operating in reverse.

## ***SE6 Model***

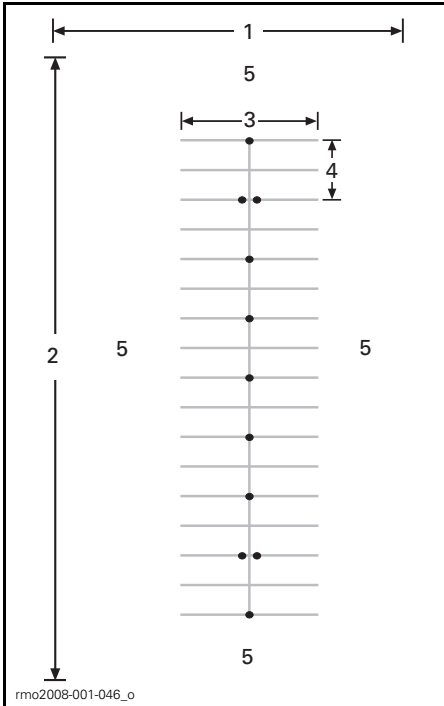
1. Revving the engine and using the engine stop switch
2. Starting, stopping, and basic handling
3. Engine stop while in motion
4. Basic turns
5. Quick stops
6. Weaves
7. Shifting
8. Swerve
9. Operating in reverse.

## **Choosing a Practice Area**

Perform these exercises in a paved area at least 76 m - 30 m (250 ft - 100 ft) that is not open to traffic. A closed, well marked parking lot without obstacles (light poles, curbs, etc.) makes a good practice area. Be aware of oil left by parked cars. Look for parking lots that are empty during off hours, such as at schools, churches, community centers or shopping centers. Do not trespass on private property.

Once you have selected a suitable location, get permission to use it from the owner. If there are obstructions, such as light poles or islands, be sure that they do not interfere with the required open paths shown in the diagram below.

Keep this basic parking lot diagram in mind when setting up the exercises. 3 m (10 ft) wide parking lot spaces are indicated in the diagrams for convenience, but the size of the spaces in the lot you use may be different. If the parking lot you choose does not have lines or if the parking spaces are sized much larger or smaller than the ones in the diagrams, use the dimensions shown below. Mark them using a tape measure and chalk or markers such as cones or milk containers weighted with water or sand.



**TYPICAL PARKING LOT**

1. At least 30 m (100 ft)
2. At least 75 m (250 ft)
3. 12 m (40 ft)
4. 6 m (20 ft)
5. Open area

Even in a closed lot, be aware of potential traffic. Check to the front, sides and rear before doing an exercise. Also, watch out for children and animals.

**Preparing to Ride**

Know the location and operation of all the vehicle controls.

Perform the pre-ride inspection; see *PRE-RIDE INSPECTION* section.

Always start and stop the engine according to the instructions in *STARTING AND STOPPING THE ENGINE* in *BASIC PROCEDURES* subsection.

**Riding Posture**

Good posture helps you maneuver the vehicle more easily. Always keep both hands and both feet in position so that you can operate the controls easily. The wrist should typically be aligned straight with the arm (this position helps you apply the amount of throttle you want). Arms should be relaxed and bent. Keep your back straight and your head and eyes up. Keep both feet on the pegs near the controls.

Never operate the vehicle, even for a short distance, unless you are in the proper riding posture.



TYPICAL — RIDING POSTURE

**Practice Exercises (SM6 Model)**

**NOTE:** If you are planning to use a BRP trailer we recommend performing these exercises carrying a loaded trailer before getting on the road. You will learn about the new behavior of your vehicle.

**1) Revving the Engine and Using the Engine Stop Switch**

**Purpose**

- Become familiar with the sound of the engine revving so you will not be surprised during the exercises.
- Become familiar with using the engine stop switch.

### Directions

- With the vehicle in NEUTRAL, the parking brake engaged, and your right foot pressing the brake pedal, pull in and hold the clutch lever. Watch the tachometer and apply throttle (twist by lowering your wrist) a few times to raise the RPM to no more than 4000. As long as the clutch is fully pulled in the power will not transfer to the rear wheel.
- Use the engine stop switch to cut all power to the vehicle. Press the switch with your right thumb while keeping your hand on the handgrip.

### Tips for Additional Practice

- Practice pressing the engine stop switch without looking at it.

## 2) Learning the Friction Zone and Basic Handling

Pulling in the clutch disengages power to the rear wheel – if you feel like you are losing control while doing these exercises, you can pull in the clutch to stop accelerating and apply the brake as needed to slow down. You can also use the engine stop switch to cut power entirely.

The friction zone is the area in the travel of the clutch lever that begins where the clutch starts to transmit power to the rear wheel and ends just before the clutch becomes fully engaged. While the clutch is partially engaged, it allows you to precisely control engine power transmitted to the rear wheel. Proper use of the friction zone helps you get moving smoothly from a stop.

### Purpose

- Become familiar with the clutch and operating within the friction zone.
- Become familiar with low speed deceleration and braking.

### Directions

For this exercise, do **NOT** use any throttle. You will be controlling your movement using only the clutch in the friction zone and brake.

Begin by stopping every 6 m (20 ft) (every marker/every second line).

- Start the engine and release the parking brake.
- With the brake pedal depressed and the clutch lever pulled in, shift the transmission into first gear by firmly pushing down on the shift lever.
- Release the foot brake.
- **Slowly** let out the clutch lever until the vehicle starts to creep forward. Hold the clutch lever at this point. This is the friction zone. If you release the clutch too quickly, the engine may stall or the vehicle may jump forward. **If the vehicle stalls**, restart the engine and try again, releasing the clutch more gradually.
- As you approach the stopping point, pull the clutch lever all the way in and press the brake pedal to stop. Pulling the clutch in does not have to be gradual – you can do this quickly.
- When you reach the end of the straightaway, stop, turn the handlebar all the way to the right, and turn around. Be careful not to apply throttle as you turn. Stop when you are in line with the straightaway in the opposite direction.
- Repeat this exercise until you feel comfortable.

### Tips for Additional Practice

- As you become more comfortable with the friction zone, try stopping every 12 m (40 ft) (every other cone) so that you can fully release the clutch.

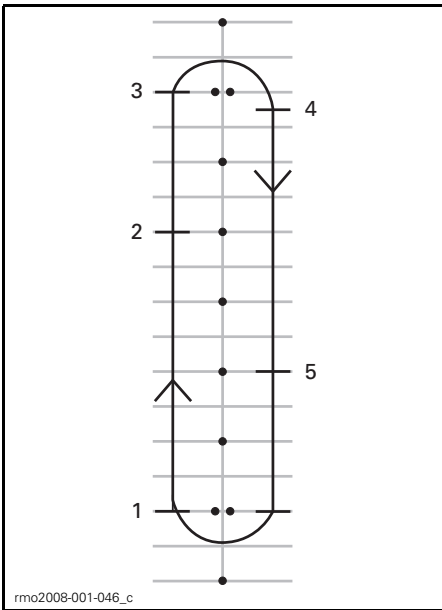
### 3) Engine Stop while in Motion

#### Purpose

- Become familiar with using the engine stop switch when in motion so you know how the vehicle will react if you need to use it later.

#### Directions

- Partway down the straightaway, while operating in the friction zone, turn the engine stop switch to OFF and coast to a stop.
- Restart the engine and repeat the exercise. Try releasing the clutch farther and moving a little faster before using the engine stop switch.



1. Start
2. Press engine stop switch
3. Proceed to end of straightaway, stop and turn as before
4. Stop
5. Press engine stop switch

Restart the engine and proceed to the next exercise.

### 4) Using the Throttle and Clutch

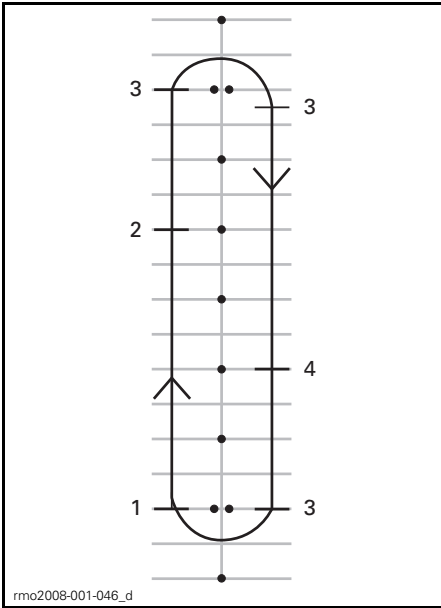
#### Purpose

- Become familiar with operating the throttle.
- Learn to balance throttle and clutch.

#### Directions

This exercise is similar to the friction zone exercise, except this time you will be using some throttle. You will use the entire straightaway, stopping only at the ends.

- Start this exercise stopped in first gear at the beginning of a straightaway.
- With the clutch lever pulled in, gently apply throttle until the tachometer reads between 1500 and 2000 RPM. Practice holding it within this range.
- Hold the throttle at this position while gently releasing the clutch lever as before. Try not to let the RPMs exceed 2500.
- The more quickly you release the clutch lever, the more quickly you will accelerate. If you release the clutch too quickly, the engine may stall or the vehicle may jump forward.
- Applying too much throttle can cause the rear wheel to spin and can result in rapid acceleration.
- When the clutch lever is fully released, the throttle controls your speed.
- As you approach the end of the straightaway, release the throttle, pull in the clutch lever and apply the brakes to come to a stop.
- Without using throttle, turn around and head down the opposite straightaway.



1. Start
2. Release throttle
3. Stop
4. Release throttle

### Tips for Additional Practice

- Coordinate releasing the clutch lever and applying the throttle to start smoothly and to control your acceleration.

## 5) Basic Turns

### Purpose

- Get comfortable turning in a controlled manner.

### Directions

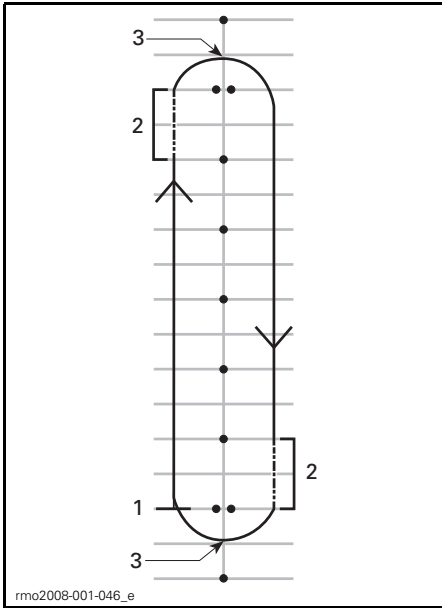
This exercise is similar to what you did before, except that now instead of stopping for each turn, you will make the turn in the friction zone.

- Proceed down the straight away in first gear. Ride a little farther from the cones so you can make a wide arcing turn at the end of the straight-away.

- As you approach the curve, slow down to no more than 8 km/h (5 MPH) by pulling in the clutch lever and applying brake if needed.
- Hold the clutch lever in the friction zone to maintain your low speed.
- Look in the direction of the curve.
- Turn the handlebar in the direction of the curve, pulling on the inside hand-grip and pushing on the outside. Be careful not to change your hand position on the throttle.
- Leaning forward and into the curve may help you turn the handlebar more easily.
- Straighten your handlebar after the turn and proceed down the straight-away.



TYPICAL — RIDING POSTURE WHEN TURNING



1. Start
2. Friction zone
3. Apex

**NOTE:** Motorcyclists — Riding through turns and curves with your Spyder roadster is different than on a motorcycle. The vehicle does not lean during a turn, so you may need to shift your body weight to the inside of the turn to keep a comfortable posture on the vehicle. You will need to exert more force to turn the handlebar of your vehicle than is needed to turn a motorcycle. However, it is easier to stop while turning than with a motorcycle.

**Tips for Additional Practice**

- After you are comfortable turning in one direction, try going around the course the other way. Be careful not to apply more throttle than you intend when turning left.
- Stop at the apex of the turn to see what it is like to use your brakes in a curve or turn.

**6) Quick Stops**

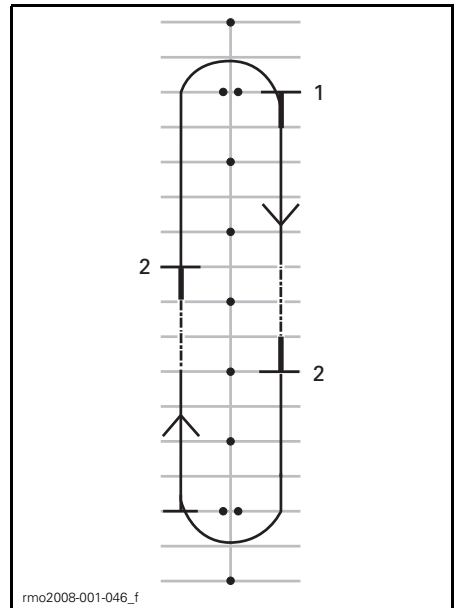
**Purpose**

- Become familiar with the vehicle braking ability.
- Learn to apply brakes with maximum force.

**Directions**

This exercise is similar to what you did before, except you'll be applying the brake more firmly, working up to braking as hard as possible.

- Start at one end of the straight away and accelerate to 8 km/h (5 MPH).
- Partway down the straightaway, release the throttle completely and brake quickly and firmly.
- Keep head and eyes up and keep handlebar straight.
- Repeat, increasing your speed and braking harder.



1. Start
2. Stop

**Tips for Additional Practice**

- Practice checking your mirrors before braking hard.

**7) Weaves**

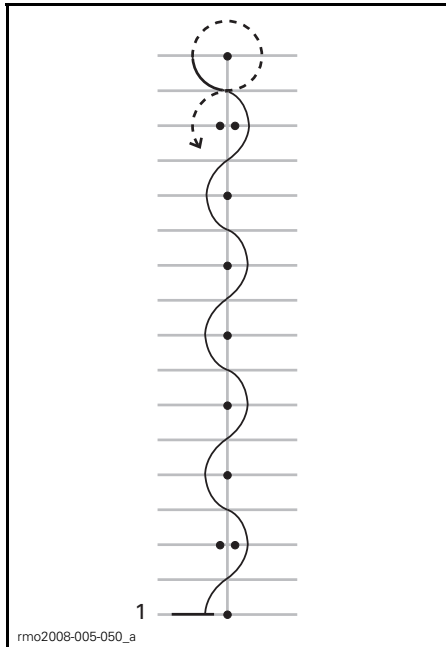
**Purpose**

- Get more experience with the vehicle handling and rider position.

**Directions**

**6 m (20 ft) Weave**

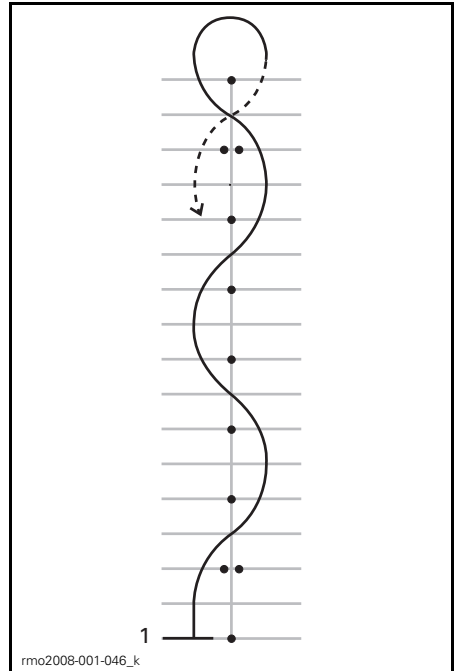
1. Weave between every marker/intersection of every other parking spot. Do not use throttle – stay in the friction zone.
2. Lean into each turn and turn the handlebar in the direction you want to go by pulling and pushing the grips.



1. Start

**12 m (40 ft) Weave**

Once you're comfortable, try doing 12 m (40 ft) weaves between every other cone/every fourth parking space.



1. Start

**Tips for Additional Practice**

- You can gradually increase speed as you get comfortable to 16 km/h - 19 km/h (10 MPH - 12 MPH) for the weaves, but slow down for the U-turns at the ends.

**8) Shifting**

When riding, you must change gears to match the engine speed with road speed.

**Purpose**

- Become familiar with the foot motions needed to shift gears.
- Learn to upshift and downshift.

**Directions**

This exercise is similar to what you did before, except now you will be upshifting on the straightaways, then coming to a stop at the end of each straight-

away. You may want to use the parking lot aisles for this exercise rather than riding in the spaces.

### 8a) Practice Using the Shift Lever at a Stop

First, while stopped, practice the left foot motion for shifting between first and second gears.

- At a stop in first gear, pull in the clutch lever.
- Slide the tip of your left foot under the shift lever and lift it as far as it will go, one firm stroke up to shift into second gear.
- Step on the shift lever and press it as far as it will go, one firm stroke down to shift into first gear.
- Repeat until you are comfortable with the foot motions required.

### 8b) Upshifting from First into Second Gear

In the straightaway, accelerate to approximately 16 km/h (10 MPH) in first gear.

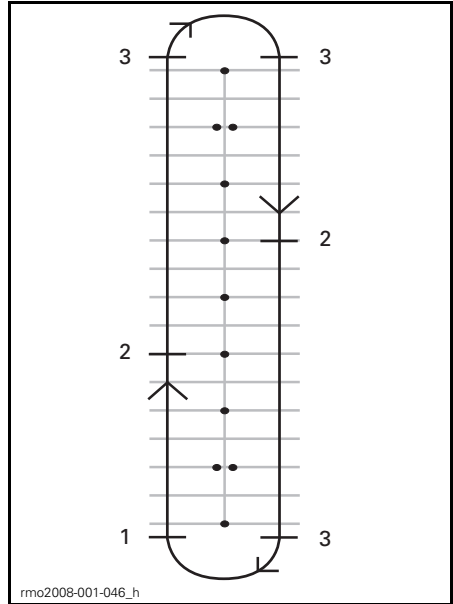
To upshift:

- Release the throttle.
- Pull in the clutch lever. (If you pull in the clutch before releasing throttle, the engine may rev – just release the throttle if this happens.)
- Slide the tip of your left foot under the shift lever and lift it as far as it will go, one firm stroke up to shift into second gear.
- Smoothly ease out the clutch.
- You do not need to apply throttle, but once you are comfortable, if space allows, you can apply the throttle to increase speed in second gear.

As you approach the end of the straightaway, come to a stop:

- Release the throttle.
- Pull the clutch lever all the way in.

- Apply brake.
- After stopping, downshift into first gear by stepping on the shift lever and pressing it as far as it will go, one firm stroke down. Once you are more comfortable, downshift into first as you come to a stop.



1. Start
2. Shift into second at 16 km/h (10 MPH)
3. Stop

### 8c) Downshifting from Second to First Gear

If space allows, practice downshifting into from second to first gear.

In the straightaway, slow to approximately 16 km/h (10 MPH).

- Release the throttle and pull in the clutch lever.
- Step on the shift lever to shift into first gear.
- Smoothly ease out the clutch.
- Put your foot back on the footrest.



### 8d) Other Gears

If space allows, you can try shifting into and out of higher gears as well. Follow the same process and shift UP or DOWN one gear at a time.

#### Tips for Additional Practice

As you gain more experience, you can refine your shifting skills and use them to better control the vehicle.

- When downshifting, rolling on the throttle slightly while smoothly easing out the clutch can help the engine rev up to match vehicle speed more quickly and make the downshift smoother, preventing skidding of the rear wheel.
- Shifting to a lower gear slows the vehicle if you do not apply throttle. This is known as engine braking. To use engine braking, shift down one gear at a time and ease out the clutch between each downshift. Keep the clutch in the friction zone until the engine speed stabilizes, then ease out the lever fully until ready for the next downshift.
- Usually you shift gears one at a time, but it is possible to shift through more than one gear while the clutch is squeezed by repeating the UP or DOWN stroke as many times as you want gear changes.

Remember that VSS does not control engine braking. If you shift into too low a gear when you are at high speed, the rear tire can skid and you can lose control, spin out, tip or roll over, particularly in a curve.

### 9) Swerve

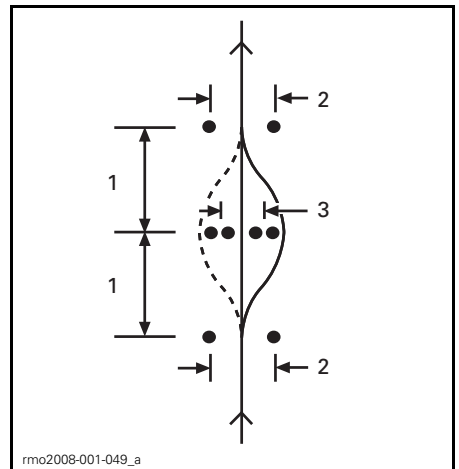
#### Purpose

- Become familiar with the vehicle handling for quick maneuvers.
- Try different variations of braking and swerving.

#### Directions

Set up your markers as shown in the diagram below. Do not use any fixed or hard, heavy objects as markers for this exercise.

- Enter between the double cones at about 8 km/h (5 MPH) and maintain that speed throughout.
- Steer around the line of cones.
- Exit through the second set of double cones.
- Repeat the exercise multiple times, swerving in both directions.



1. 6 m (20 ft)
2. 3 m (10 ft)
3. 2.5 m (8 ft)

#### Tips for Additional Practice

- You can gradually increase your entry speed (to no more than 13 km/h to 19 km/h (8 MPH to 12 MPH) and try some variations. For example, approach faster and slow before entering the exercise, pull in the clutch and apply brakes during the swerve, etc.

- A helper can add an element of surprise to the exercise by deciding which direction you should swerve, or if you should come to a stop instead. Have your helper stand at a safe distance away (e.g., beyond the end of your practice area). As you reach the first set of cones, the helper can use hand signals to indicate which direction to swerve or for you to stop.
- Practice checking your mirrors and blind spot before you swerve.

## 10) Operating in Reverse

### Purpose

- Become familiar with the vehicle handling and turning radius in reverse.

### Directions

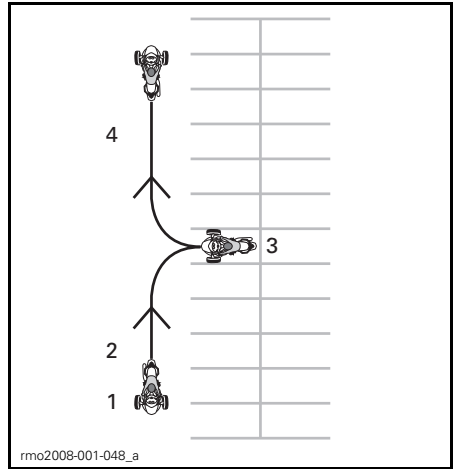
Shift into reverse. See *OPERATING IN REVERSE* in *BASIC PROCEDURES* subsection.

Check that the area behind you is clear and continue to look backwards while you ease out the clutch. Be careful not to strike anything with your front wheels as you back up. Slow and stop using clutch and brake, just like when operating normally.

Back for a few feet at time, stopping in between.

Keep your speed low and do not back up for long distances.

After you are comfortable with reverse, back into a parking space as shown in the diagram below.



1. Start
2. Reverse
3. Stop
4. Forward

### Additional Practice in Controlled Environments

Once you are comfortable with all of the above exercises, you can try a few other things as space and conditions allow. This might be in the parking lot or at a later time in a place where you have the opportunity without putting yourself at risk.

- **Quick starts:** Try quickly getting up to speed and upshifting through the gears.
- **Quick stop from higher speed:** Similar to the quick stop exercise, but performed from higher speeds to get a feel for emergency stops.
- **Starting up an incline:** To do this, keep holding the brake pedal as you release the clutch lever until you are in the friction zone. This will keep you from rolling backwards.

## Practice Exercises (SE6 Model)

### 1) Revving the Engine and Using the Engine Stop Switch

#### Purpose

- Become familiar with the operation of the twist throttle.
- Become familiar with the sound of the engine at different RPMs. This will help you to know when to up-shift and downshift based on the engine sound.
- Become familiar with using the engine stop switch.

#### Directions

- Start with the vehicle in NEUTRAL, the parking brake engaged, and your right foot on the brake pedal. Check the multifunction gauge to be sure you are in NEUTRAL – if you are in first gear, the roadster will try to start moving when you apply the throttle.
- Watch the tachometer and apply throttle (twist by lowering your wrist) a few times to raise the RPM to no more than 4000. Practice applying the throttle gently and smoothly, holding it steady at about 3000 RPMs, and releasing it. As long as the transmission is in neutral the power will not transfer to the rear wheel.
- Use the engine stop switch to cut all power to the vehicle. Press the switch with your right thumb while keeping your hand on the handgrip.

#### Tips for Additional Practice

- Practice pressing the engine stop switch without looking at it.

### 2) Starting, Stopping and Basic Handling

#### Purpose

- Learn throttle control and how to get the vehicle moving.
- Become familiar with low speed deceleration and braking.

#### Directions

If you feel like you are losing control while doing these exercises, release the throttle to stop accelerating and apply the brake as needed to slow down. You can also use the engine stop switch to cut power entirely.

#### 2a) Apply and Immediately Release Throttle

#### Directions

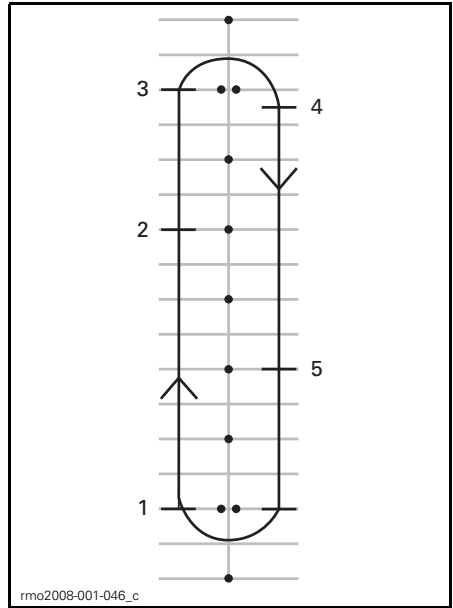
At first, you will only use the throttle for a moment at a time, then release it and coast.

- Start the engine and release the parking brake.
- With the brake pedal depressed, shift the transmission into first gear by pressing the gear selector forward.
- Release the brake.
- Slowly apply throttle until the vehicle starts to creep forward. As soon as you start moving release the throttle and coast, then press the brake to stop. Repeat to the end of the straightaway.
- To turn around at the end of the straightaway, stop, turn the handlebar all the way to the right, then briefly apply and release the throttle, and coast through the turn. You may need to briefly apply the throttle more than once to complete the turn. Stop when you are in line with the straightaway in the opposite direction.
- Continue with this part of the exercise until you are comfortable with applying and releasing the throttle.

## 2b) Hold Throttle, Release and Stop Every 12 m (40 ft)

Next, you will be holding the throttle a little longer, then stopping every 12 m (40 ft) (every other marker/every fourth line).

- Again, slowly apply throttle until the vehicle starts to creep forward. This time, hold the throttle at this point.
- As you approach the stopping point, release the throttle and press the brake to stop.
- Turn around at the end of the straightaway as before, except now you do not need to release the throttle during the turn. Pay attention to maintaining a steady throttle position as you turn. Stop when you are in line with the straightaway in the opposite direction.



## 2c) Hold Throttle, Release and Stop at Ends

Next, use the entire straightaway, stopping only at the ends. Keep the throttle moderate.

## 3) Engine Stop while in Motion

### Purpose

- Become familiar with using the engine stop switch when in motion so you know how the vehicle will react if you need to use it later.

### Directions

- Partway down the straightaway, while operating at 8 km/h (5 MPH), turn the engine stop switch to OFF and coast to a stop.
- Restart the engine and repeat the exercise. Try increasing your speed (to a maximum of 20 km/h (12 MPH)) before using the engine stop switch.

**NOTE:** SE6 model will not start in gear without brake pedal depressed.

1. Start
2. Press engine stop switch
3. Proceed to end of straightaway, stop and turn as before
4. Stop
5. Press engine stop switch

Restart the engine and proceed to the next exercise.

## 4) Basic Turns

### Purpose

- Get comfortable turning in a controlled manner.

### Directions

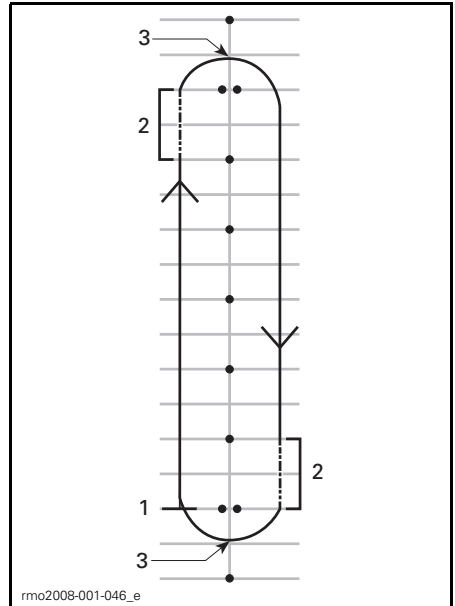
This exercise is similar to what you did before, except that now instead of stopping for each turn, you will make the turn at low speed.

- Proceed down the straight away in first gear. Ride a little farther from the cones so you can make a wide arcing turn at the end of the straightaway.
- As you approach the curve, slow down to no more than 8 km/h (5 MPH) by releasing the throttle and apply brake if needed.

- Hold the throttle to maintain your low speed.
- Look in the direction of the curve.
- Turn the handlebar in the direction of the curve, pulling on the inside handgrip and pushing on the outside, being careful not to apply throttle.
- Leaning forward and into the curve may help you turn the handlebar more easily.
- Straighten your handlebar after the turn and proceed down the straightaway.



**TYPICAL — RIDING POSTURE WHEN TURNING**



1. Start
2. Friction zone
3. Apex

**NOTE:** Motorcyclists — Riding through turns and curves with your Spyder roadster is different than on a motorcycle. The vehicle does not lean in during a turn, so you may need to shift your body weight towards the inside of the turn to keep a comfortable posture on the vehicle. You will need to exert more force to turn the handlebar of your vehicle than is needed to turn a motorcycle. However, it is easier to stop while turning than with a motorcycle.

**Tips for Additional Practice**

- After you are comfortable turning in one direction, try going around the course the other way. Be careful not to apply more throttle than you intend when turning left.
- Stop at the apex of the turn to see what it is like to use your brakes in a curve or turn.

## 5) Quick Stops

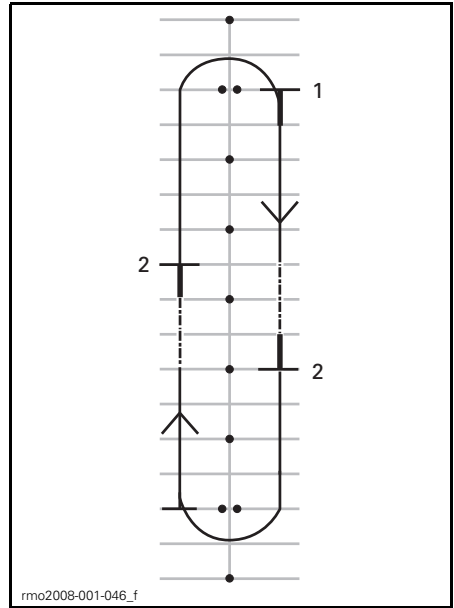
### Purpose

- Become familiar with the vehicle braking ability.
- Learn to apply brakes with maximum force.

### Directions

This exercise is similar to what you did before, except you'll be applying the brake more firmly, working up to braking as hard as possible. The Antilock Braking System (ABS) will prevent the wheels from locking and help you maintain steering control while applying maximum braking force. Always release the throttle completely for quick stops with the SE6. If you apply throttle and brake at the same time, your stopping distance will be longer.

- Start at one end of the straightaway and accelerate to 8 km/h (5 MPH). Partway down the straightaway, release the throttle completely and brake quickly. Never pump the brake as the ABS will prevent wheel lock.
- Keep head and eyes up, keep handlebar straight, and do not release the brake until fully stopped.
- Repeat, increasing your speed and braking harder.



1. Start
2. Stop

### Tips for Additional Practice

- Practice checking your mirrors before braking hard.

## 6) Weaves

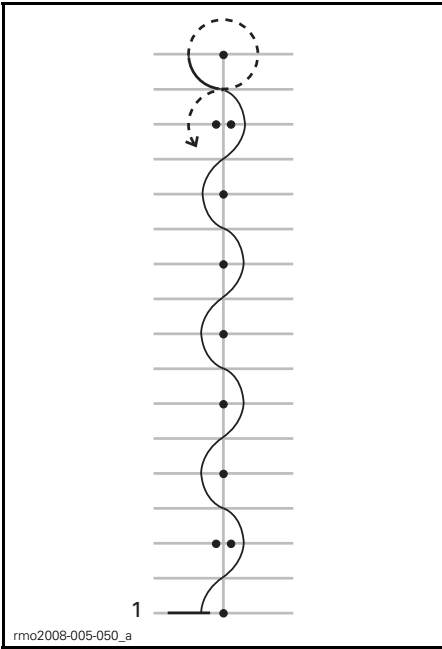
### Purpose

- Get more experience with the vehicle handling and rider position.

### Directions

#### 6 m (20 ft)

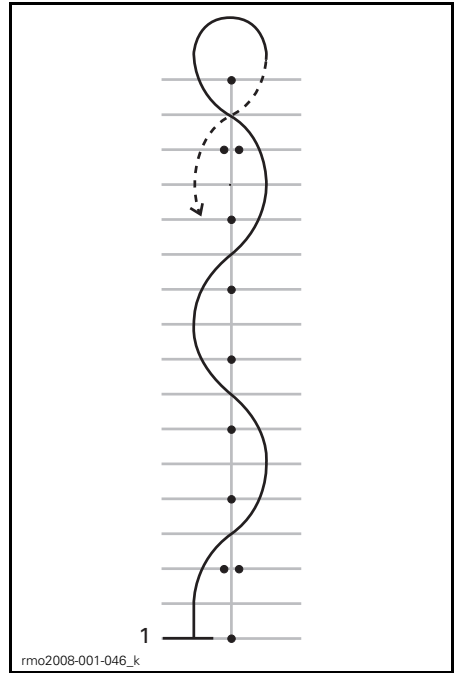
1. Weave between every marker/intersection of every other parking spot. Keep your speed low initially as you get used to making the changes of direction.
2. Lean into each turn and turn the handlebar in the direction you want to go by pulling and pushing the grips.



1. Start

### 12 m (40 ft) Weave

Once you're comfortable, try doing 12 m (40 ft) weaves between every other cone/every fourth parking space.



1. Start

### Tips for Additional Practice

- You can gradually increase speed as you get comfortable to 16 km/h - 19 km/h (10 MPH - 12 MPH) for the weaves, but slow down for the U-turns at the ends.

### 7) Shifting

When riding, you must change gears to match the engine speed with road speed. Lower gears are used for lower speeds and higher gears are used for higher speeds, just like on a manual transmission car or truck.

The SE6 will automatically downshift if the engine speed drops under 1800 RPMs.

### Purpose

- Learn to upshift and downshift.

## Directions

This exercise is similar to what you did before, except now you will be upshifting on the straightaways, then coming to a stop at the end of each straightaway. You may want to use the parking lot aisles for this exercise rather than riding in the spaces.

### 7a) Practice Using the Gear Selector at a Stop

First, while stopped, practice to single shift between reverse, neutral and first gear. Then practice to:

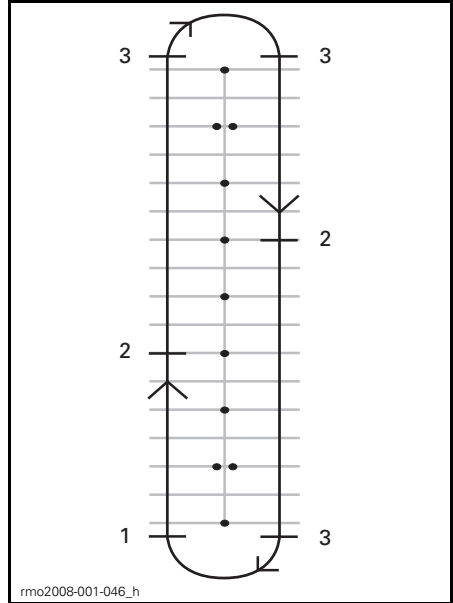
- Double shift from reverse to first gear
- Double shift from first to reverse gear
- Repeat until you are comfortable.

### 7b) Upshifting from First into Second Gear

- In the straightaway, accelerate until the engine speed reaches 3000 RPM.
- Press the gear selector forward to shift into second gear. You do not have to release the throttle while shifting with the SE6.
- Once you are comfortable, if space allows, you can adjust the throttle to increase speed in second gear.

As you approach the end of the straightaway, come to a stop:

- Release the throttle.
- Apply brake.
- The SE6 will downshift automatically as the roadster slows. You can also manually downshift by pulling the gear selector towards you.



1. Start
2. Shift into second at 25 km/h (16 MPH)
3. Stop

### 7c) If Space Allows, Practice Downshifting into First While Moving

In the straightaway:

- Pull the gear selector toward you without releasing throttle.
- You will feel more engine braking when you downshift without throttle.

### 7d) Other Gears

If space allows, you can try shifting into and out of higher gears as well. Follow the same process and shift UP or DOWN one gear at a time.



**NOTE:** Applying slightly more throttle while downshifting can help the engine rev up to match vehicle speed more quickly and make the downshift smoother. When you do not apply throttle while downshifting, engine braking will slow the vehicle. This can help you decrease speed, but remember that VSS does not control engine braking. If you shift into too low a gear when you are at high speed, the rear tire can skid and you can lose control, spin out, tip or roll over, particularly in a curve.

### 8) Swerve

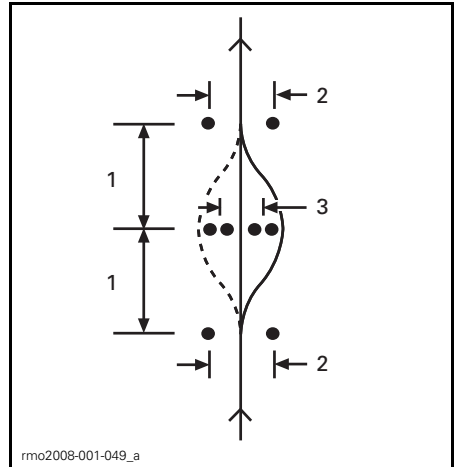
#### Purpose

- Become familiar with the vehicle handling for quick maneuvers.
- Try different variations of braking and swerving.

#### Directions

At this point you will need to change your course. Set up your markers as shown in the diagram below. Do not use any fixed or hard, heavy objects as markers for this exercise.

- Enter between the double cones at about 8 km/h (5 MPH) and maintain that speed throughout.
- Steer around the line of cones.
- Exit through the second set of double cones.
- Repeat the exercise multiple times, swerving in both directions.



1. 6 m (20 ft)
2. 3 m (10 ft)
3. 2.5 m (8 ft)

#### Tips for Additional Practice

- You can gradually increase your entry speed (to no more than 13 km/h to 19 km/h (8 MPH to 12 MPH) and try some variations. For example, approach faster and slow before entering the exercise, apply brakes during the swerve, etc.
- A helper can add an element of surprise to the exercise by deciding which direction you should swerve, or if you should come to a stop instead. Have your helper stand at a safe distance away (e.g., beyond the end of your practice area). As you reach the first set of cones, the helper can use hand signals to indicate which direction to swerve or for you to stop.
- Practice checking your mirrors and blind spot before you swerve.

### 9) Operating in Reverse

#### Purpose

- Become familiar with the vehicle handling and turning radius in reverse.

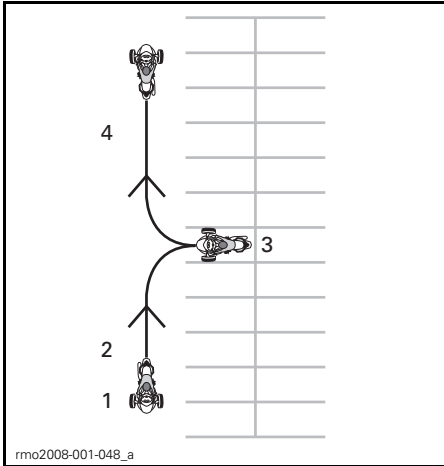
**Directions**

- Shift into reverse. See *BASIC PROCEDURES* subsection.
- Check that the area behind you is clear. Continue to look backwards. Be careful not to strike anything with your front wheels as you back up. Slow and stop by releasing throttle and using brake, just like when operating normally.
- Back for a few feet at time, stopping in between.
- Keep your speed low and do not back up for long distances.
- After you are comfortable with reverse, back into a parking space as shown in the diagram below.

Start by riding in less challenging situations:

- Short distances
- Good weather
- Low traffic
- Daytime
- Lower speeds
- No passenger.

You can gradually move on to more challenging riding situations as you develop your skills.



1. Start
2. Reverse
3. Stop
4. Forward

**Developing Advanced Riding Skills**

Once you have mastered basic riding skills, you can begin developing more advanced skills. First, learn the "Street Strategies" covered in the next section. Then you can take the vehicle on the road in relatively low-risk situations.

# STREET STRATEGIES

This section provides some strategies to reduce your risk on the road. Many of these strategies are similar to those used for motorcycles.

This section is based on guidance for motorcyclists given by the Motorcycle Safety Foundation (MSF). However, even experienced motorcyclists should read this section, as some strategies are different for the Spyder roadster.

## Plan your Trip

Always check weather conditions before riding the vehicle. Take appropriate gear for any weather you might encounter.

Plan a route and ride in conditions that are appropriate for your skill level.

The vehicle has a 25.5 L (6.7 U.S. gal.) fuel tank. When the low fuel indicator light flashes, fill fuel tank as soon as possible. Plan your refueling stops, particularly in unpopulated areas.

## Defensive Riding

As with a motorcycle, defensive riding can help you avoid crashes. You need to stay alert at all times. Never stop watching your surroundings, including the area behind you. Always scan for potential hazards, plan ahead, and leave space and time to avoid trouble. Do not assume other motorists will see you or follow the rules of the road.

## Following Distance

Always leave at least a two-second following distance between you and the vehicle in front of you when operating under ideal riding conditions. This means that you should pass any fixed point on the road at least two full seconds after the vehicle in front of you.

When conditions make braking distance longer, or visibility is limited, use a longer following distance for a greater margin of safety. For example, braking distance is longer on slippery

road surfaces, down hills, or when carrying more weight, and visibility may be limited in fog, in curves or at night.

## Scanning Ahead

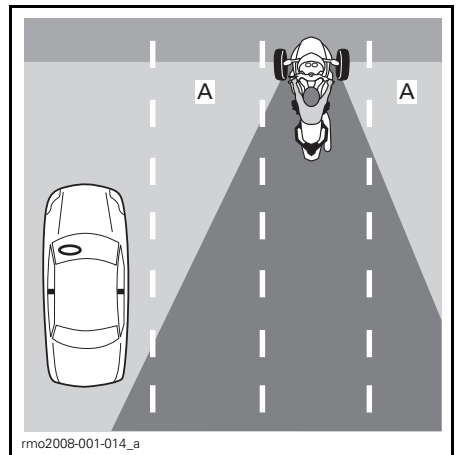
In addition to leaving adequate following distance to the next vehicle, scan ahead and plan your path even farther in advance.

Plan your immediate path at least four seconds ahead. Watch this path for hazards, such as anything in the road or anything entering the road.

Scan ahead 12 seconds along your anticipated path to identify potential hazardous situations before they happen. For example, look for intersections where other vehicles may appear or places where pedestrians might enter the road. Be prepared to respond if a hazardous situation develops.

## Watch Behind and to the Sides

Vehicles and other hazards can approach from all directions. Constantly be aware of your surroundings. Check your mirrors frequently to see directly behind you. Also do frequent head checks (turn your head to look) to monitor your blind spot.



A. Operator's blind spots

When braking, be particularly aware of vehicles behind you that may not be able to stop as quickly as the Spyder roadster.

### Keep your Eyes Moving

To stay aware of your surroundings, do not fixate on any one thing. Move your eyes constantly to monitor the road, traffic control markings, devices and other vehicles. Look near and far, in all directions.

### Anticipate Trouble

Whenever you notice a potential hazard, plan a way to avoid it. This might mean adjusting your speed or lane position, or changing lanes. You should be ready for evasive maneuvers such as swerving and/or braking if something enters your path. Always leave time and space to react to trouble.

### Being Visible

Motorists tend not to see smaller vehicles like motorcycles. Therefore you should use strategies to become more visible.

### To Be More Visible to Other Motorists

#### Lighting and Reflectors

Make sure that the headlights, running lights and taillights on your vehicle work properly. Your vehicle is equipped with reflectors on the fenders, sides, and back. Make sure that all reflectors are clean and not broken or missing.

Use your high beams whenever possible, both day and night. Use low beams to avoid blinding other motorists at night or when too much light reflects back, such as in fog.

#### Signals

Use your turn signals to inform others of your intentions. The Spyder roadster has automatic canceling turn

signals, but they may not cancel after shallow turns. Make sure turn signals are off after you have completed your maneuver; leaving them on may confuse other motorists.

When possible, flash your brake lights before slowing and when waiting at intersections, to alert motorists behind you.

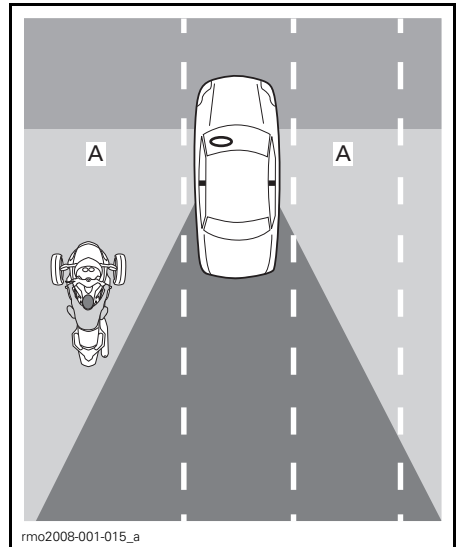
Use your emergency flashers to make yourself visible when needed.

You can also use your horn to attempt to alert other motorists of your presence.

Do not assume that other motorists will notice your lights, signals or horn.

### Blind Spots

Avoid riding in the blind spots of other vehicles. Position yourself so that drivers ahead can see you in their mirrors. In some cases, such as when you are following a truck or a bus, you must be farther behind the vehicle in front of you.



A. Blind spots of other vehicles

## Time of Day and Weather

In dim light, such as at night, at dawn or dusk, or in poor weather such as rain or fog, you may be harder to see. Glare at dawn and dusk or very bright sunlight can also make it harder for other motorists to see you.

## Clothing

Bright colors or reflective clothing can increase your visibility.

## Be Careful Even When Motorists See You

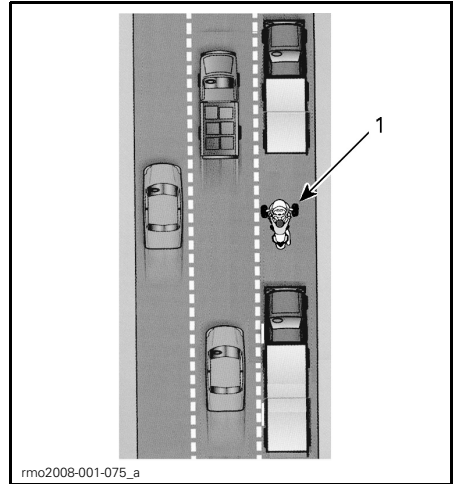
Even when motorists seem to notice you, they may still drive in a way that puts you at risk of a crash. Drive defensively, and do not rely on other motorists to operate their vehicles safely.

## Lane Position

Normally, position the Spyder roadster in the center of the lane. This position keeps the front tires in the lane. It also provides distance from vehicles in other lanes, reducing wind from large vehicles and reducing the risk of being struck by vehicles that leave their lane. This position also keeps your front wheels out of the slippery area in the middle of the lane, helping maintain braking and steering ability. If you are used to driving a car, remember that you are centered on the Spyder roadster, rather than seated to the side, so your perspective is different.

You can move to the left or right part of the lane, to avoid hazards, keep distance from other vehicles, or handle curves. You can also move to the left or right part of the lane to get a better view or to be seen by other vehicles. Because of the Spyder roadster center seat position and width, it may be harder to see around traffic, even when you are near the edge of the lane. You may need a greater following distance behind wide or tall vehicles. Avoid putting your wheel outside of the lane to see around traffic. In order

for drivers ahead to see you, you must be able to see their mirrors. When you are being followed by a large vehicle, passing vehicles may not be able to see you easily if you are not in the left part of the lane.



1. Vehicles in left portion of lane

Because the Spyder roadster is wider than a motorcycle, the range of lane positions is smaller. When riding in the left or right part of the lane be sure that the front wheels stay in the lane.

On multilane roads, choose a lane that is appropriate for your speed in the flow of traffic, and also consider your ability to see and be seen, and possible paths for evasive maneuvers (such as swerving into other lanes or onto the shoulder).

## Common Riding Situations

### Intersections

Intersections, including small intersections with alleys and driveways, present an additional risk due to the cross traffic. Always watch for traffic in all directions: behind, in front and to the left and right.

When stopping at an intersection, stop in the middle of the lane, even if you are preparing to turn. This can make you more visible and discourage other motorists from trying to drive around you. Watch for vehicles approaching from behind. Flash your brake lights as they approach. Be in first gear and be prepared to move if necessary to avoid a collision.

### Lane Changes and Passing

Remember that the Spyder roadster is wider than a motorcycle and needs more lateral space to pass another vehicle. Also remember that the vehicle is less visible than a car, so it is particularly important to signal your lane change well in advance and check your mirrors and blind spots. Be sure to turn off your turn signal after changing lanes; a lane change will not turn the handlebar far enough to automatically cancel the signal.

Never drive on the line between two lanes of traffic (split lanes). The vehicle is too wide.

Never drive on the shoulder to pass vehicles. If you put one wheel off the road, you can lose control.

### Turns

Remember to slow, look, and steer through turns.

- **Slow:** Reduce speed as needed before entering a turn by rolling off the throttle, using the brakes, and/or downshifting to a lower gear. Enter the turn at a speed that you can maintain throughout the turn.

Although the Spyder roadster is better able to brake while turning than a motorcycle, it is still important to slow down before you enter a turn or curve rather than braking in the turn. Braking and turning both require traction. The more traction you use for braking, the less there is available for turning at the same time.

When you take a turn or curve too fast, you may notice the inside front wheel lifting off the pavement and feel and hear VSS cutting back engine power. While VSS can help you maintain control, it is still possible to spin or roll over if you turn too hard and fast.

- **Look:** Search through the entire turn and keep your eyes moving. Evaluate the entire turn as soon as possible – surface characteristics, sharpness of the turn, and overall traffic conditions – so you have time to make decisions about speed and position. Sometimes turning your head in the direction of the turn helps to keep a good visual picture.
- **Steer:** Turn the handlebar to steer the vehicle in the direction of the turn. The Spyder roadster is not like a motorcycle, so it does not countersteer, and the vehicle does not lean. Remember, you will experience the lateral force generated by turning, so you may need to shift your body weight to the inside of the turn to keep a comfortable posture on the vehicle. You will need to exert more force to turn the handlebar of your vehicle than is needed to turn a motorcycle.

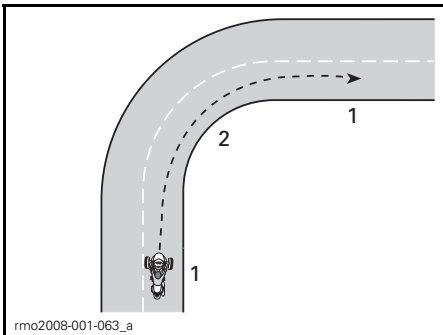
## SM6 Model

When shifting gears while turning, be careful not to release the clutch lever too fast. Adjust throttle as you release the clutch lever to match engine and vehicle speed in a smooth shift. Releasing the clutch too quickly or using too much throttle may cause the rear wheel to lose traction and start skidding, potentially causing loss of control. The Traction Control System (TCS) will detect the onset of wheel spin and reduce the power transmitted to the rear wheel. This intervention is intended to allow the rear wheel to regain traction and allow you to correct the unwanted oversteering to keep your vehicle on the intended turning radius.

## Curves

Because the Spyder roadster is narrower than a car, you can move from side to side in the lane in curves to straighten your path of travel. But the Spyder roadster is wider than a motorcycle, so less lateral movement is possible, and it is important to make sure that your front tires do not leave the lane.

For typical curves, an outside, inside, outside path is best.



### PATH FOR TYPICAL CURVES

1. Outside
2. Inside (at the apex)

## Hills

Select an appropriate gear for the incline. Going up hills, a lower gear can help maintain enough power. Going down hills, a lower gear can provide engine braking to control your speed.

### SM6 Model

To start while on an incline, hold the vehicle in place with the brake until you move the clutch lever into the friction zone. Then smoothly release the brake as you release the clutch lever and apply throttle.

### SE6 Model

When stopped, the SE6 model can roll regardless of what gear it is in. The SE6 model clutch is always disengaged when the vehicle is stopped, so the transmission will not hold the vehicle in place. Hold the brake pedal when stopped on an incline. To start while on an incline, hold the brake pedal as you increase throttle. Release the brake pedal as you feel the clutch engage (at about 1500 RPM).

## Night Riding

In addition to using your lights and signals to be seen by other motorists, consider your own ability to see at night. Use high beams when appropriate. Avoid overriding your headlight (riding so fast that you can't see as far as your stopping distance). You can also use other vehicle headlights to see the road ahead.

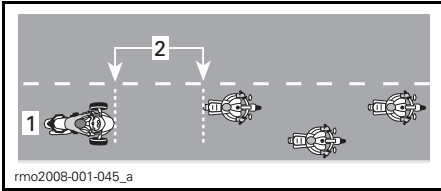
Do not use tinted or colored visors or lenses at night, and be particularly careful that your visor does not have scratches or smudges.

## Group Riding

Ride single file only. Never share lanes, even with a motorcycle.

When riding with motorcycles, maintain proper following distance from the motorcycle in front of you, even if they are riding to one side of the

lane. In curves, do not try to follow the path of motorcycles. Motorcycles can move farther to the edges of the lane in curves – if you follow them exactly, your front wheel can leave the lane. Motorcycles may be able to take curves faster than the Spyder roadster. Do not try to match their speed.



**GROUP RIDING POSITION**

1. Center of lane
2. Distance of 2 seconds

Particularly on curvy roads, Spyder roadster riders might become tired sooner than motorcyclists. Do not push yourself to keep up with motorcycles; stop if you are tired.

**Road Conditions and Hazards**

**Ice, Snow and Slush**

Do not ride on ice, snow or slush. Even with VSS, there will not be enough traction to maintain control on these slippery surfaces. The Spyder roadster is more likely than a car to spin out of control in slippery surfaces.

**Gravel, Dirt and Sand**

On gravel, dirt, or sand-covered roads, use extra caution and reduce your speed, particularly for curves. These surfaces do not provide as much traction as paved surfaces and you can lose control, even with VSS.

**Wet Pavement and Puddles**

There is normally enough traction to maintain control on pavement that is moist or wet, as long as there is not a layer of water on top of the pavement (like a puddle or flowing water on

the road). As with other vehicles, the Spyder roadster can hydroplane if you drive too fast over water that has accumulated on the road, but hydroplaning occurs at lower speeds than with most cars or motorcycles. You are more likely to hydroplane in deeper water. Watch for splashing or spraying when other vehicles go through water as an indicator of depth.

When hydroplaning occurs, one or more wheels rise up on a layer of water, losing contact with the road. If this happens to the rear wheel, you may feel it slide sideways. Hydroplaning wheels do not have the traction necessary to control the vehicle. You can lose control and spin out, and the VSS cannot keep you in control.

Avoid large water puddles or water streams, and slow down or pull off the road during heavy rains. If you must pass through water, slow down as much as possible before you reach it.

After passing through water, test your brakes. Apply them several times if necessary to let friction dry the brake pads.

Properly maintained tires reduce the risk of hydroplaning. Always maintain recommended tire pressure:

| COLD TIRE PRESSURE |                                      |
|--------------------|--------------------------------------|
| Front tires        | 138 kPa ± 14 kPa<br>(20 PSI ± 2 PSI) |
| Rear tire          | 193 kPa ± 14 kPa<br>(28 PSI ± 2 PSI) |

**NOTE:** The pressure difference between the left and right side tire should not exceed 3.4 kPa (.03 bar).

Immediately replace any tire that shows the maximum tread wear indicator to minimize risk of hydroplaning.

The middle of a lane can be particularly slick in the first few minutes of rain, as oil and dirt combine with the water. After more rain, water can accumulate in ruts in worn pavement. Avoid both of



these low traction areas. When possible, keep your front tires in areas with the best traction.

### Off-Road Use

Do not use the Spyder roadster off road. The vehicle cannot handle the rough, low-traction, uneven surfaces that you may encounter in off-road riding. You could easily get stuck, lose control or roll over. Also, it may be illegal for off-road use in certain areas.

### Obstacles, Holes and Bumps

Whenever possible, avoid riding over obstacles, holes and bumps. If you must ride over them, slow down as much as possible before you get there, then release the brake as you go over. For wide obstacles or bumps, approach straight on if possible, so that both front tires go over at the same time. When going over an obstacle, bump or hole with both front wheels, riders should stand up slightly on the pegs and use legs to absorb the shock. Be prepared for the rear wheel to strike the obstacle. For narrower obstacles, bumps or holes, it is better to ride over it with the rear tire. If you ride over them with a front tire, maintain a firm grip on the handlebar, take care not to accidentally applying the throttle and be prepared to correct your trajectory if necessary.

If you strike a large enough obstacle, bump or hole, the impact can make the vehicle jump and strike you, eject riders, make you lose control, spin or roll over.

If you can't come to a complete stop in time to avoid an obstacle, you can swerve to avoid it. You can swerve and brake at the same time if necessary.

If you encounter a large animal in the road, like a deer, it is best to stop before reaching it and wait until the animal leaves, or go past slowly. If a dog chases you, a good strategy is to slow

down and downshift as the dog approaches, then accelerate away as you get closer to where the dog would intercept you.

### On-Road Emergencies

A vehicle malfunction or an unexpected situation can occur any time during a ride. A well-maintained vehicle can help reduce the risk of malfunction, but you should still be prepared for an emergency.

- Always have the Operator's Guide and tool kit in the vehicle. Refer to the *ROAD SIDE REPAIRS* section for technical guidelines on problems that could occur during a trip.
- When stopping on the road, follow these precautions:
  - If the road has paved shoulders, signal your intention to pull off the highway, pull off at near traffic speed, then slow down to a complete stop.
  - If the shoulder is unpaved, signal a right turn and slow down to a safe speed before pulling off the paved roadway.
  - To increase your visibility, turn on the hazard warning lights.
- If you have cellular phone or other communication device, fully charge it before long rides.
- If you are involved in a crash, BRP strongly recommends that you have your vehicle transported (see *TRANSPORTING THE VEHICLE* subsection) to the nearest Can-Am roadster dealer to have it thoroughly inspected for safety before riding again.
- Fill in the BRP accident/incident report.

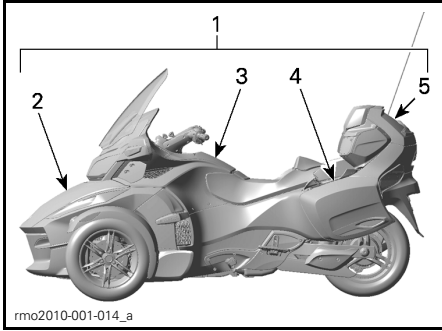
## **Tire Failure**

If a tire failure or a blowout suddenly occurs, firmly grip the handlebar, gradually slow down and carefully steer to a safe place to stop. Avoid hard braking, downshifting, or sharp steering. If a front tire fails, the vehicle may tend to pull in the direction of the failed tire, so you will need to maintain a firm grip on the handlebar to control your direction. Refer to *ROAD SIDE REPAIRS* section for instructions on tire repair.

# CARRYING A PASSENGER, CARGO OR TOWING A TRAILER

## Weight Limits

Do not exceed the weight limits for riders and cargo.



rmo2010-001-014\_a

1. 224 kg (494 lb)
2. 16 kg (35 lb)
3. 2 kg (4 lb)
4. 7 kg (15 lb) (each)
5. 9 kg (20 lb)

| WEIGHT LIMITS   |                 |
|---|-----------------|
| Vehicle load limit (including operator, passenger, cargo and added accessories) | 224 kg (494 lb) |
| Front storage compartment   | 16 kg (35 lb)   |
| Glove box   | 2 kg (4 lb)     |
| Side storage compartment (each)   | 7 kg (15 lb)    |
| Top storage compartment   | 9 kg (20 lb)    |

Excess weight will:

- Reduce your ability to accelerate, brake and turn.
- Reduce the effectiveness of the VSS.
- Increase the risk of rolling over if the weight is high or toward the rear.

- Reduce ground clearance, increasing the risk of striking low obstacles or uneven road surfaces.
- Increase the risk of tire failure.

## Operating with Extra Weight

Carrying a passenger or heavy cargo affects the way the vehicle handles because of the greater weight, and because the weight distribution will be different.

1. You will not be able to accelerate as quickly. Allow more time and space for passing.
2. You will not be able to stop as quickly. Use a longer following distance from the vehicle in front of you, at least three seconds. Use an even longer distance if riding conditions are not ideal (e.g., low visibility, poor road surface).
3. You will not be able to turn as sharply or at as high a speed. Slow down more than usual before turning and avoid sharp turns.
4. The Spyder roadster may be less stable. There is a greater risk of tipping or rolling during extreme maneuvers with weight that is higher or farther to the rear (like a passenger).

## Carrying a Passenger

The Spyder roadster is designed for only one passenger, seated behind the operator. Never carry multiple passengers.

Do not carry a passenger until you have experience riding alone in a variety of conditions and can proficiently handle the vehicle.

The passenger must be sober, alert, able to reach the passenger footrests and handholds, maintain balance and hold on in sudden maneuvers, and not distract the operator.

The passenger should use its audio control in respect to the rider's directives.

Be sure the passenger is wearing appropriate protective gear. The passenger should wear all of the protective gear recommended for the operator, particularly a helmet. A full-face helmet is recommended; in a sudden stop, the passenger's face can strike the back of the operator's helmet.

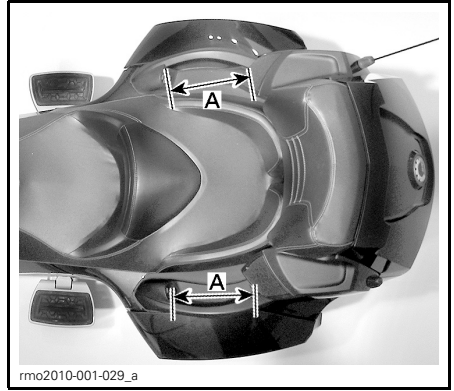
Keep the brakes applied and the transmission in neutral until the passenger is in riding position.

Instruct the passenger on how to ride before starting out. Have the passenger follow these rules:

1. Maintain proper riding position. Hold the passenger handholds and keep feet on the passenger footrests at all times. The passenger footrest height is adjustable. Refer to *ADJUSTING THE PASSENGER FOOTREST*.

The passenger should not hold on to the operator as the operator may not be able to withstand the lateral force generated by both.

Different gripping positions on the handholds may be more comfortable for different maneuvers. (e.g., one hand at the front corner of and one hand at the opposite back corner for turns, both hands further forward or back for other situations).



A. Different gripping positions on the handholds

2. Stay clear of the exhaust pipe, the rear wheel and the drive belt.
3. Avoid turning around or leaning except to keep balance in a turn. In an unexpected maneuver, a passenger who is not in the normal riding position is more likely to fall off.
4. Watch the road and respond to upcoming road conditions. Lean into curves as needed to resist any sideways force. When crossing an obstacle, hole or bump, rise slightly off the seat without locking your elbows.

Avoid abrupt acceleration, braking and turns, especially with inexperienced passengers. Sudden, unexpected maneuvers can make the passenger fall off.

## Where to Store Cargo

You can carry cargo in the following compartments. Do not carry cargo in any other location unless the vehicle is equipped with approved BRP accessories.

Never store flammable items, such as fuel, in any of these compartments.

Always respect the load limit of each compartment. Refer to *WEIGHT LIMITS* in this section.

## Glove Box

The glove box provides room to store small personal articles.

It is very convenient to store items that could be needed quickly during a ride (such as money for pay toll).

**NOTE:** A key barrel is supplied in the glove box to use with the BRP optional trailer. This allows to use the vehicle key for the trailer.

## Front Storage Compartment

The front storage compartment is the most spacious and has room to store two helmets or other items. The front storage compartment includes a designated space for this Operator's Guide.

Make sure the compartment cover is securely latched before riding.

## Side Storage Compartments

The side storage compartments have room to store a helmet or other light objects.



Make sure the storage compartment cover is securely latched before riding.

## Top Storage Compartment

The top storage compartment has room to store a helmet or other light items.



TYPICAL

Make sure the storage compartment cover is securely latched before riding.

## Towing a Trailer

The RT series has been designed to be able to tow a BRP optional trailer (with the optional BRP hitch).

The VSS (vehicle stability system) on the roadster RT series incorporates a program that allows to tow a BRP trailer while maintaining appropriate vehicle stability control.

Use only a BRP trailer designed specifically for the Roadster RT series or a BRP approved equivalent. This is important to ensure the trailer and the roadster remain stable during normal operation and it does not interfere with the vehicle stability system.

**NOTICE** The use of a non-recommended wiring harness may lead to vehicle electrical system failure.

**⚠ WARNING**

The use of any other trailer could damage the vehicle or interfere with the proper operation of the vehicle stability system. It is not recommended to use the cruise control when towing a trailer.

Towing a trailer affects the way the vehicle handles due to the greater weight and the different weight distribution.

- Allow more time and space for passing.
- Allow a greater distance for braking.
- Use a longer following distance from the vehicle in front of you.
- Reduce your speed and slow down more than usual before turning and avoid sharp turns.
- There is a greater risk of tipping or rolling during extreme maneuvers.

Crosswinds and air turbulence caused when crossing or being passed by others can disrupt the steering and make the trailer to sway. To minimize the effect, keep a constant speed and do not make quick steering or braking corrections.

Reduce your speed before entering in a curve.

When cornering, achieve the turn on a larger radius. It takes more space to turn with a trailer.

Try to anticipate the riding ahead to avoid having to backup with a trailer.

Always move slowly when backing up. Ask someone to guide you when possible. Practice in an open area at the first opportunity. Refer to *REQUIRED RIDING SKILLS AND PRACTICE EXERCISES*.

When possible, avoid swerving, twist and turns, sharp and abrupt turns as well as sudden braking. This could

cause the trailer to jackknife or to turn over. It is easier to unstabilize an empty trailer. When accelerating, it is normal to shift at a higher RPM to avoid loading excessively the engine.

**NOTICE** Avoid spinning the rear wheel. Rocks or pebbles could be projected on the trailer and damage it.

**Hill Particularities**

When possible, avoid stopping uphill.

When starting uphill from a stop, more clutch slippage is needed to prevent engine stalling.

When riding uphill, more frequent downshift will be required so that engine has enough power to minimize speed variations.

When riding downhill, downshift one or more gears to use engine braking to slow down vehicle instead of continuously applying the brake. It will take longer to slow down or to stop.

**Load Limits**

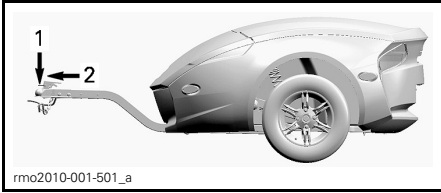
**⚠ WARNING**

Never add cargo on the trailer cover as it will increase the risk of tipping over. All cargo must be stored and secured inside the trailer.

Load limits must be observed with the appropriate towing equipment.

| TOWING SPECIFICATIONS                    |                 |
|--|-----------------|
| Maximum weight on trailer tongue         | 18 kg (40 lb)   |
| Maximum towed weight (trailer and cargo) | 180 kg (400 lb) |

**NOTE:** For information about the maximum cargo that can be loaded in trailer, refer to the *CAN-AM FREEDOM TRAILER OPERATOR'S GUIDE*.



1. 18 kg (40 lb)
2. 180 kg (400 lb)

The weight at the tongue applies when the trailer is loaded. A scale can be used to measure the weight at the tongue when it is not latched to the vehicle. If the trailer is not fully loaded, place cargo in the front part of the trailer then, if the weight at the tongue is reached, place the remaining cargo at the rear in the trailer. The weight distribution in the trailer affects the weight at the tongue. Redistribute the weight in the trailer to meet the weight at the tongue specification. Too much weight at the tongue reduces steering control. Too little weight at the tongue can render the trailer unstable and make it sway.

### **⚠ WARNING**

Exceeding the maximum towed weight can seriously affect handling and performance of the vehicle. The vehicle handling, stability, acceleration and braking distance are affected when towing a trailer. Correct loading and weight distribution are important. Never overload, tow or carry cargo improperly. Always ensure the cargo is safely secured and properly distributed in the trailer before operating the vehicle. Always secure cargo as low as possible in the trailer to reduce the effect of a higher center of gravity. Failure to follow the recommendations here could cause affect the vehicle handling which could lead to the vehicle loss of control.

**NOTICE** Exceeding the maximum towed weight can damage vehicle or trailer. Avoid transporting heavy parts with sharp edges that could damage the trailer. Place the cargo so that it does not shift while the trailer is being towed.

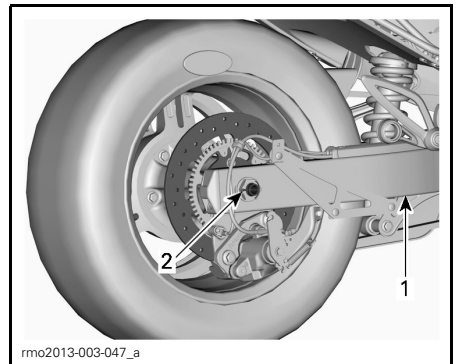
### **Hitch**

Use only a BRP hitch or a BRP approved equivalent. The BRP hitch properly fits the vehicle swing arm and is securely bolted to the wheel axle.

**NOTICE** The use of a non-approved hitch may lead to rear swing arm failure.

### **⚠ WARNING**

If the hitch is removed from vehicle, always install a new cotter pin to lock the wheel axle nut.



**WHEEL AXLE CAP AND MUFFLER REMOVED FOR CLARITY PURPOSE**

1. Swing arm
2. New cotter pin here

### **Safety Cables**

Always use safety cables when towing a trailer. Ensure they are secured to the trailer and to the hitch, and that they cross under the tongue. Leave enough slack in cables to allow the trailer to turn corners. When trailer is in straight line with the vehicle, ensure chains will not drag on the ground.

---

## KNOWLEDGE SELF-TEST

The following provides a sample of information that you should have learned by reading this guide. It does not include all of the important information, but should give you an idea of whether you have a general understanding of the vehicle and its operation.

See the *ANSWERS* on the page following the questionnaire.

### Questionnaire

1. If you need to stop quickly, press the brake pedal and activate the parking brake.  
True                      False
2. A pre-ride inspection should be performed once a week.  
True                      False
3. VSS allows you to use the vehicle in any kind of weather.  
True                      False
4. You should only replace the tires with those approved by BRP obtained from an authorized Can-Am roadster dealer.  
True                      False
5. It is important for the passenger to be alert and sober.  
True                      False
6. Name six items of protective gear that can reduce your risk of injury.  
1) \_\_\_\_\_  
2) \_\_\_\_\_  
3) \_\_\_\_\_  
4) \_\_\_\_\_  
5) \_\_\_\_\_  
6) \_\_\_\_\_
7. Protective gear is important for preventing and reducing injuries, keeping you comfortable, and providing protection against the elements.  
True                      False
8. Which of the following is not one of the vehicle driving controls?
  - a. Handlebar
  - b. Twist throttle
  - c. Front brake lever
9. You should leave your low beam lights on during the day for added visibility.  
True                      False
10. You should normally position the vehicle in the center of the lane.  
True                      False
11. Unlike a typical motorcycle, you should make it common practice to brake and turn at the same time.  
True                      False



12. Under normal conditions, following distance should be at least \_\_\_\_\_.

- a. 1 second
- b. 2 seconds
- c. 3 seconds

13. You should not store flammable liquids such as gasoline in any storage compartment, even if they are in approved containers.

True                      False

14. List 5 ways of being more noticeable to other drivers.

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_
- 3) \_\_\_\_\_
- 4) \_\_\_\_\_
- 5) \_\_\_\_\_

15. When braking on surfaces with less than ideal traction, you should pump the brakes to help maintain control of the vehicle.

True                      False

16. The vehicle maximum load including riders, cargo and accessories is 224 kg (494 lb).

True                      False

17. The vehicle can safely tow a trailer as long as the total towed weight does not exceed 180 kg (400 lb).

True                      False

18. A passenger should hold onto the operator.

True                      False

19. Riding the Spyder roadster is as safe as riding in a car.

True                      False

20. ABS allows you to press the brake pedal hard without locking the wheels.

True                      False

## Answers


1. **False**  
To stop quickly, press the brake pedal only.
2. **False**  
You should do a pre-ride inspection every time you ride.
3. **False**  
If there is ice, snow, slush or enough water on the road to cause hydroplaning, VSS can not help you maintain control.
4. **True**
5. **True**
6.
  - 1) Helmet
  - 2) Eye and face protection
  - 3) Jacket with long sleeves
  - 4) Gloves
  - 5) Long pants
  - 6) Closed-toe footwear, preferably over the ankle.
7. **True**
8. **c. Front brake lever**  
The vehicle does not have a front brake lever.
9. **False**  
You should use your high beams during the day.
10. **True**
11. **False**  
You can brake and turn at the same time if you need to, but generally it is better to brake before the turn.
12. **b. 2 seconds**  
Under normal conditions, following distance should be at least two seconds.
13. **True**
14.
  - 1) Make sure your lights and reflectors are clean.
  - 2) Use your high beams whenever possible.
  - 3) Use your turn signals.
  - 4) Flash your brake lights before slowing.
  - 5) Use your emergency flashers as needed.
  - 6) Use your horn to alert others of your presence.
  - 7) Avoid riding in blind spots.
  - 8) Wear bright colors and reflective clothing.
15. **False**  
You should press and hold the brake pedal, not pump. The vehicle is equipped with ABS, which keeps the wheels from locking.
16. **True**
17. **True**  
You can tow a trailer with the vehicle as long as all the recommendations are strictly followed.
18. **False**  
The passenger should always hold on to the handholds.
19. **False**  
In cars and trucks, the structure of the vehicle provides protection. In addition, passengers can protect themselves by wearing seat belts. You should expect that riding the Spyder roadster is much riskier than riding in a car and that the risk of injury is more like the risk of injury when riding a motorcycle.
20. **True**

# SAFETY INFORMATION ON THE VEHICLE

This vehicle comes with a hang tag and labels containing important safety information.

Any person who rides this vehicle should read and understand this information on the vehicle before riding.

## Hang Tag

 **WARNING**

**The Spyder roadster is a different type of vehicle -  
it requires special skills and knowledge.  
Learn how the Spyder roadster is different.**

**Read** the operator's guide (in the front storage compartment) and watch the safety video.

**Complete** a training course (if available), **practice**, become proficient with the controls, and get a proper license.

**Refer** to the Safety Card before riding.

**Always wear a helmet and riding gear.**

With this type of vehicle, riders are exposed to more road risks than in a car. Even skilled operators can be struck by other vehicles or lose control. This vehicle will not protect you in a crash.

**Handling limits and road conditions**

The Vehicle Stability System (VSS) cannot stop you from losing control, flipping over, or falling off if you exceed this vehicle's limits. Know the limits for different road conditions. Do not ride on ice, snow, or off road. Avoid puddles and running water. This type of vehicle can hydroplane on water and slip on gravel, dirt and sand covered roads. If you must go through these road conditions, slow down.

This hangtag may only be removed by the customer.

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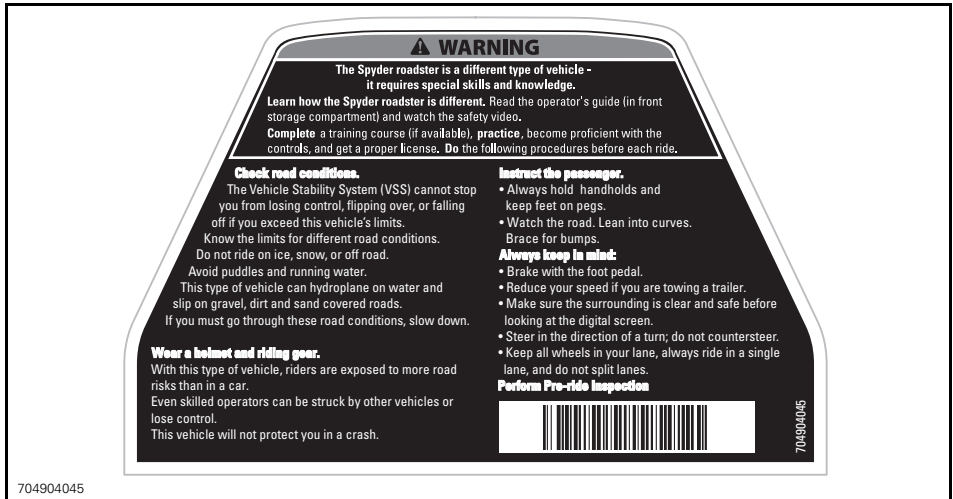
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## Safety Card

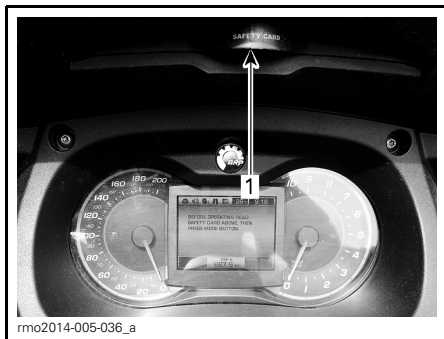
The Safety Card is found at the top of the multifunction gauge. Pull it out to read it, and be sure to securely put it back before riding.

Use the Safety Card to review key information and when you are teaching new operators and passengers how to ride the vehicle. It also includes frequently referenced information.

**NOTE:** The following illustration used in this Operator's Guide is a general representation only. Your model may differ.



### SAFETY CARD



1. Safety card tab location



TYPICAL - SAFETY CARD PULLED OUT



## Safety Labels

These labels are affixed to the vehicle for the safety of the operator, passenger (2-UP) or bystanders

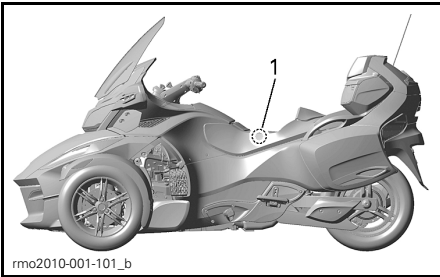
The following labels are on your vehicle, and they should be considered permanent parts of the vehicle. If missing or damaged, they can be replaced free of charge. See an authorized Can-Am roadster dealer.

**NOTE:** In the event of any discrepancy between this guide and the vehicle, the safety labels on the vehicle have precedence over the labels in this guide.

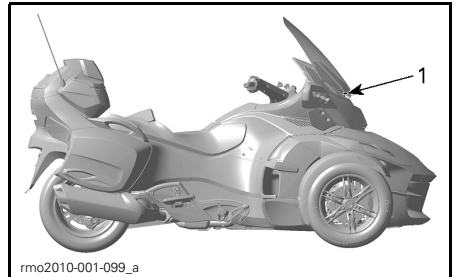
### Label 1

|   |  |   |   |
|---|--|---|---|
| <b>TIRE INFORMATION</b>   |  | READ OPERATOR'S GUIDE<br>THIS VEHICLE IS EQUIPPED WITH TUBELESS TIRES   | 704904245   |
| <b>TIRE BRAND:</b><br>FRONT: KENDA KR31<br>REAR : KENDA KR21          |  | <b>COLD TIRE PRESSURE</b><br><br><b>UP TO MAXIMUM WEIGHT CAPACITY</b><br>FRONT : 138± 14 kPa (1.38± 0.14bar)<br>REAR : 193± 14 kPa (1.93± 0.14 bar) |  |
| <b>TIRE SIZE:</b><br>FRONT: MC165/55R15 55H<br>REAR : MC225/50R15 76H |  |   |   |
| <b>RIM SIZE:</b><br>FRONT: 381 X 127mm<br>REAR : 381 X 178mm          |  | <b>UP TO 90 kg LOAD</b><br>FRONT : 138± 14 kPa (1.38± 0.14 bar)<br>REAR : 193± 14 kPa (1.93± 0.14 bar)  |  |
|   |  | <b>MAXIMUM WEIGHT CAPACITY: 224kg</b>   |   |

704904245



1. Label 1 location



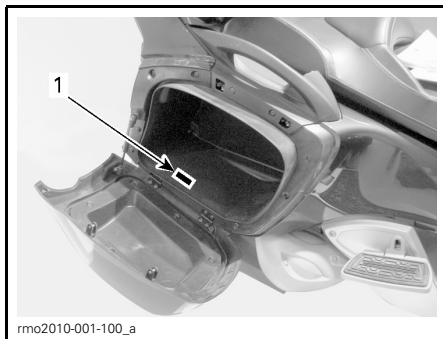
1. Label 2 location

### Label 2

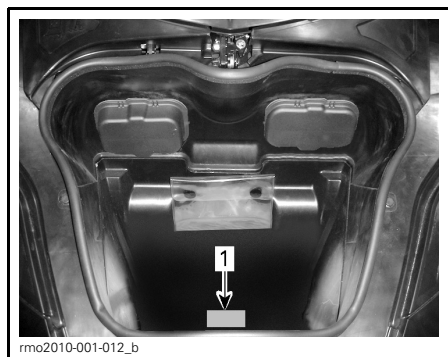
|  |
|--|
| <p><b>NOTICE</b></p> <p>Do not clean with alkaline or acid cleaner, gasoline or solvent to avoid windshield damage.<br/>See operator's guide.</p> <p>704903339</p> |
|--|

704903339

### Label 3



1. Label 4 located in the side storage compartment



1. Label 3 located in the front storage compartment

### Label 4



### Label 5



1. Label 5 located in the top storage compartment

## Label 6

**⚠ CAUTION**

ENGINE OIL AND CERTAIN COMPONENTS IN THE ENGINE COMPARTMENT MAY BE HOT.  
DIRECT CONTACT MAY RESULT IN SKIN BURNS.

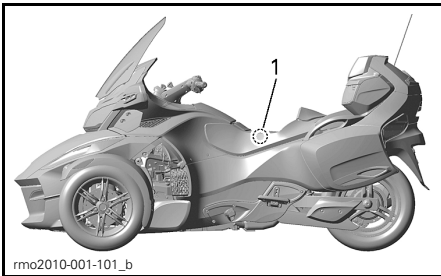
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Checking Engine Oil Level:

- **Make sure engine is at operating temperature.**
- For procedure refer to the operator's guide.
- Ride at least 15 km (9 miles).
- Can-Am Spyder must be on a level surface.
- Let engine idle for 10 minutes.
- Stop engine.
- Take measurement within 2 minutes after the engine stop.
- Dipstick must be screwed in completely before checking oil level.
- Use XPS synthetic blend oil summer grade or equivalent motorcycle oil.

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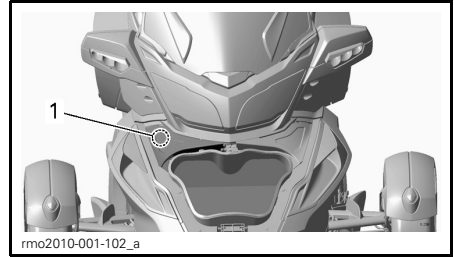


1. Label 6 located under the seat

## Label 7



COOLANT RESERVOIR CAP



1. Label 7 located underneath service cover

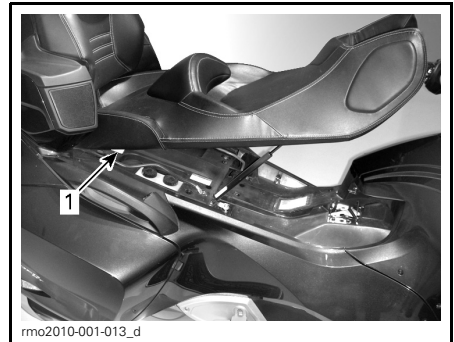
## Label 8

**⚠ WARNING**

Clean filler cap before removing.  
Use only DOT 4 brake fluid from  
a sealed container.

704901803

704901803



TYPICAL

1. Label 8 located underneath seat

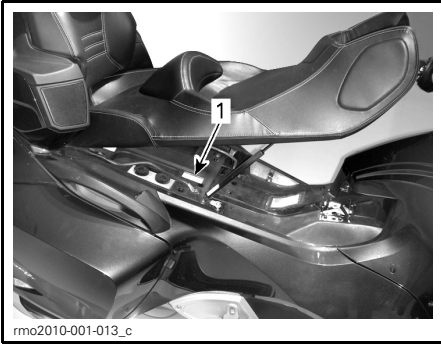
## Label 9

**⚠ WARNING**

MINIMUM PRESSURE 70 kPa / 0.7 bar  
DO NOT EXCEED RECOMMENDED PRESSURE BY 70 kPa / 0.7 bar

| LOAD   |     | (PASSENGER + CARGO) Kg |          |          |          | 704904301 |
|--------|-----|------------------------|----------|----------|----------|-----------|
|        |     | 0                      | 45       | 70       | 90       |           |
| DRIVER | Kg  | kPa/bar                | kPa/bar  | kPa/bar  | kPa/bar  | kPa/bar   |
|        | 70  | 310/3.10               | 380/3.80 | 450/4.50 | 480/4.80 | 515/5.15  |
|        | 90  | 345/3.45               | 415/4.15 | 480/4.80 | 515/5.15 | 550/5.50  |
|        | 115 | 380/3.80               | 450/4.50 | 515/5.15 | 550/5.50 | 585/5.85  |

704904301



**TYPICAL**

1. Label 9 located underneath seat



# ***PRE-RIDE INSPECTION***

# PRE-RIDE CHECKLIST

## WARNING

Perform a pre-ride inspection before each ride to detect potential problems during operation. The pre-ride inspection can help you monitor wear and deterioration before they become a problem. Correct any problems that you discover to reduce the risk of a breakdown or crash. See an authorized Can-Am roadster dealer as necessary.

### Inspect:

- **Tires:** Look for damage. Inspect inflation and tread wear. Refer to the *MAINTENANCE PROCEDURES* subsection.
- **Wheels and lugnuts:** Look for damage. Twist each front wheel lugnut by hand to be sure it is not loose. Be sure the rear wheel axle nut is in place.
- **Drive belt:** Look for fraying, cuts, punctures and missing teeth. Verify alignment. For additional information, refer to the *MAINTENANCE PROCEDURES* subsection.
- **Leaks:** Look under the vehicle for any leaks.
- **Storage compartment covers and glove box:** Pull to check that they are all properly latched.
- Ensure seat is properly latched.
- **Mirrors:** Clean and adjust: (see *MIRRORS* in *EQUIPMENT* subsection).
- **Brake pedal:** Press and make sure you feel firm resistance. Pedal must fully return when released.
- **Throttle handle:** Twist several times. Be sure it operates freely and returns to idle position when released.
- **Clutch lever:** (SM6 model): Adjust to your convenience (see *PRIMARY CONTROLS* subsection). Squeeze to be sure it operates normally and fully returns when released.

- **Gearshift selector** (SE6 model): Be sure gearshift selector operates normally in both directions and returns to center when released.
- **Passenger footrest height adjustment:** Be sure the passenger is comfortable with the footrest height. Adjust as necessary.
- **Weight:** Ensure that total load on the vehicle (including operator, passenger, cargo and added accessories) does not exceed 224 kg (494 lb).
- **Trailer:** If a trailer is towed, be sure its cargo is properly loaded and secured, the covers are latched, the trailer and safety cables are properly latched to vehicle hitch and all the trailer lights work and reflectors are clean. Check trailer tire condition and pressure.
- **Radiator fan grills:** Remove any debris from the grills. Do not clean with a pressure washer because it can damage the radiator fins. Clean only with compressed air.

### Turn Ignition Key to the ON Position:

- **Multifunction gauge:** Check the gauges, indicators, messages and the fuel level.
- **Lights:** Check operation of headlights, taillight, brake light, turn signals and hazard warning lights.
- **Horn:** Check operation.
- **Steering:** Start engine and verify that steering operates freely.
- **Engine stop switch:** Check that the engine stop switch is working properly.
- **Parking brake:** Start engine, release parking brake and ensure brake indicator lamp is off on the multifunction gauge.
- **Brake:** Drive a short distance forward slowly then apply brake to test.

Always lock Safety Card back into position.

# ***MAINTENANCE***

# MAINTENANCE SCHEDULE

Maintenance is very important for keeping your vehicle in safe operating condition. Proper maintenance is the owner's responsibility. The maintenance schedule does not exempt the pre-ride inspection.

## WARNING

Failure to properly maintain the vehicle according to the maintenance schedule and procedures can make it unsafe to operate.

### INITIAL INSPECTION - 5 000 KM (3,000 MI)

Using BRP Utility and Diagnostic Software (B.U.D.S.), check fault codes and install required updates.

Replace engine oil and oil filter.

Check clutch fluid level (**SM6 model only**).

Check brake fluid level.

Check reverse mechanism operation.

Check engine coolant level.

Inspect throttle twist grip operation.

Check lighting system (brake light, hazard warning light, turn signal lights, position lights, license plate light). Clean brake light switch.

Check operation of control switches.

Inspect the drive belt condition and its tension. Adjust if required.

Check tightening torque of the front wheels lug nuts.

Check tightening torque of the rear wheel axle nut.

Check parking brake operation. Adjust as required.

Check wheels wear. Align front wheels if required.

Check tires pressure. Adjust as required.

Check brake pads and discs condition.

Check passenger handholds looseness.

Check footrests looseness.

Check body panels looseness.

Check operation of storage compartment latches, hinges and key barrels.

**EVERY 1 500 KM (1,000 MI)**

Check oil level.

**EVERY 15 000 KM (9,300 MI) OR 1 YEAR (WHICHEVER COMES FIRST)**

Using BRP Utility and Diagnostic Software (B.U.D.S.), check fault codes and install required updates.

Replace engine oil and oil filter.

Check clutch fluid level (**SM6 model only**).

Check brake fluid level. Replace every 2 years.

Check brake hoses

Check reverse mechanism operation.

Check radiator, hoses and water pump.

Check engine coolant level.

Perform a pressure test of cooling system.

Inspect throttle twist grip operation.

Check lighting system (brake light, hazard warning light, turn signal lights, position lights, license plate light). Clean brake light switch.

Check operation of control switches and passenger switches.

Check condition of fuel hoses, fuel evaporation lines and canister.

Check battery connections tightening.

Inspect the drive belt condition and its tension. Adjust if required.

Check and retight exhaust pipe, clamping rings, joints, and gaskets condition.

Check steering for abnormal play.

Check tie-rods condition.

Check shock absorbers for leaks or other damages.

Check tightening torque of the front wheels lug nuts.

Check tightening torque of the rear wheel axle nut.

Check ball joints condition.

Check front wheel bearings condition.

Check parking brake operation. Adjust as required.

Check wheels wear. Align front wheels if required.

Check tires pressure. Adjust as required.

Check brake pads and discs condition.

**EVERY 15 000 KM (9,300 MI) OR 1 YEAR (WHICHEVER COMES FIRST)**

Check passenger handholds looseness.

Check footrests looseness.

Check body panels looseness.

Check operation of storage compartment latches, hinges and key barrels.

**EVERY 30 000 KM (19,000 MI)**

Replace air filter and clean air filter housing.

Replace clutch fluid (**SM6 model only**).

Replace the fuel filter (or every 5 years).

**EVERY 45 000 KM (28,000 MI)**

Replace the Hydraulic Control Module (HCM) oil filter (**SE6 model only**).

Replace the canister pre-filter.

Replace engine coolant (or every 5 years).

Replace the spark plugs.

Check front suspension arms rubber bushings.

---

# INITIAL INSPECTION

We recommend that after the first 5 000 km (3,000 mi) of operation, your vehicle be inspected by an authorized Can-Am dealer. This maintenance is very important and must not be neglected.

**NOTE:** The initial inspection is at the expense of the vehicle owner.

We recommend that this inspection be signed by an authorized Can-Am dealer.

---

Date of inspection

---

Authorized dealer signature

---

Dealer name

# MAINTENANCE PROCEDURES

This section includes instructions for basic maintenance procedures. If you have the necessary mechanical skills and the required tools, you can perform these procedures. If not, see your authorized Can-Am roadster dealer.

Other important items in the maintenance schedule that are more difficult and require special tools are best performed by your authorized Can-Am roadster dealer.

## **⚠ WARNING**

Turn off the engine and follow these maintenance procedures when performing maintenance. If you do not follow proper maintenance procedures you can be injured by hot parts, moving parts, electricity, chemicals or other hazards.

## Engine Oil

### Recommended Engine Oil

The same oil is used for the engine, gearbox, clutch, and the Hydraulic Control Module (HCM) on the SE6 model.

Use the XPS 4-STROKE SYNTH. BLEND OIL (SUMMER) (P/N 293 600 121) or a 5W40 semi-synthetic (minimum) or synthetic motorcycle oil meeting the requirements for API service SL, SJ, SH, SG or higher classification. Always check the API service label on the oil container.

**NOTICE** Do not add any oil additives to the recommended oil. This may lead to gearbox and clutch malfunctions.

### Engine Oil Level Verification

In order to perform the engine oil level verification, the engine must be at normal operating temperature.

1. Take a ride of at least 15 km (9 mi).
2. Park the vehicle on a level surface.

3. Let the engine idle for 10 minutes.

## **⚠ WARNING**

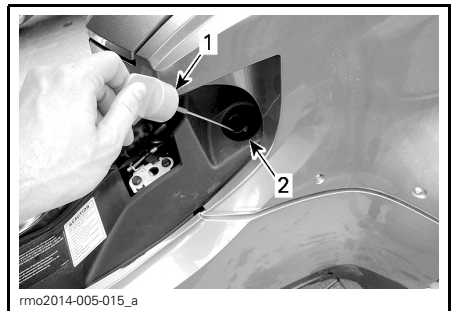
Exhaust gas contains poisonous carbon monoxide that can rapidly accumulate in an enclosed or poorly ventilated area. If inhaled, it can cause serious injury or death. Only run the engine in an unenclosed, well ventilated area.

**NOTICE** Adjusting the oil level on a cold engine will result in overfilling.

4. Stop engine.

**NOTE:** Engine oil level verification must be performed within 2 minutes after engine stop.

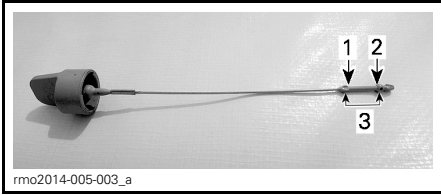
5. Open the seat. Refer to *OPENING THE SEAT* in the *EQUIPMENT* subsection.
6. Unscrew and remove the oil dipstick.



1. Oil dipstick
2. Oil filler tube

7. Wipe off the dipstick.
8. Reinsert and completely screw in the dipstick.
9. Unscrew and remove the dipstick again.
10. Check the oil level on the dipstick.





1. Upper mark (MAX)
2. Lower mark (MIN)
3. Operating range

### Oil Level between Lower (MIN) and Upper (MAX) Marks:

1. Do not add oil.
2. Properly insert and tighten dipstick.
3. Close the seat.

### Oil Level under MIN Mark Adjustment:

1. Add approximately 500 ml (17 U.S. oz) of recommended oil.

**NOTE:** The oil quantity between MIN and MAX marks is 500 ml (17 U.S. oz).

2. Restart the engine and let it idle for 10 minutes.

### **⚠ WARNING**

Exhaust gas contains poisonous carbon monoxide that can rapidly accumulate in an enclosed or poorly ventilated area. If inhaled, it can cause serious injury or death. Only run the engine in an unenclosed, well ventilated area.

**NOTICE** Adjusting the oil level on a cold engine will result in overfilling.

3. Stop the engine.

**NOTE:** Engine oil level verification must be performed within 2 minutes after engine stop.

4. Recheck oil level.

5. Repeat the above steps until oil level reaches the dipstick between the lower and upper marks. **Do not overfill.**
6. Properly insert and tighten dipstick.
7. Close seat.

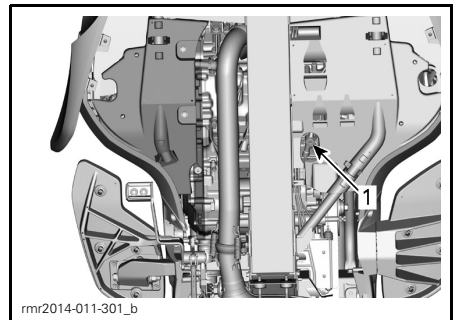
### Engine Oil Change

1. Prior to changing the oil, ensure vehicle is on a level surface.

**NOTICE** The engine oil and the engine oil filter must be replaced at the same time. The oil change should be carried out with a warm engine.

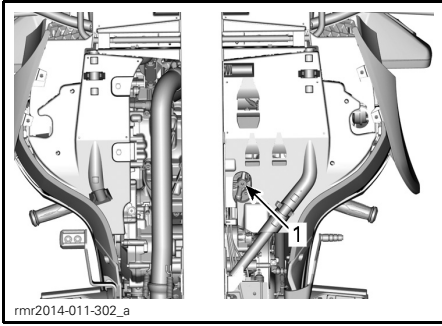
**⚠ CAUTION** Engine oil can be very hot.

2. Remove the following RH body panels, refer to *BODY* subsection:
  - Middle side panel
  - Top side panel
  - Acoustic panel.
3. Clean area around drain plug under oil sump cover.
4. Place an appropriate drain pan under oil sump cover.
5. Remove the drain plug and discard the sealing washer and O-rings.



TYPICAL - SE6 MODEL SHOWN

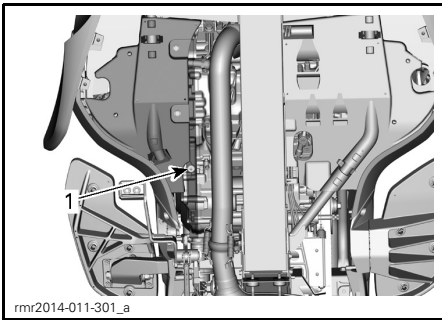
1. Engine oil drain plug



TYPICAL - SM6 MODEL SHOWN

1. Engine oil drain plug

6. Remove the dipstick.
7. Allow sufficient time for oil to completely drain.
8. Clean area around magnetic drain plug in the clutch cover.
9. Place an appropriate drain pan under the clutch cover.
10. Remove the magnetic oil drain plug and discard the sealing ring.



TYPICAL - SE6 MODEL SHOWN

1. Clutch cover magnetic drain plug

Replace engine oil filter. Refer to *ENGINE OIL FILTER REMOVAL* further in this section.

11. Allow sufficient time for oil to completely drain from clutch cover.
12. Check and clean oil filter cavity for dirt and contamination.
13. Clean the magnet on the magnetic drain plug.

14. Using **NEW** sealing washers and O-rings and install both drain plugs.

**NOTICE** Never reuse the drain plug sealing washers and O-rings. Always replace it with a new one.

15. Tighten drain plugs as specified.

| DRAIN PLUG (OIL SUMP COVER) |  |
|-----------------------------|--|
| Sealing ring                | NEW                                      |
| O-rings                     | NEW                                      |
| Tightening torque           | 28 N•m ± 2 N•m<br>(21 lbf•ft ± 1 lbf•ft) |

| MAGNETIC DRAIN PLUG (CLUTCH COVER) |  |
|------------------------------------|--|
| Sealing ring                       | NEW                                      |
| Tightening torque                  | 20 N•m ± 1 N•m<br>(15 lbf•ft ± 1 lbf•ft) |

Reinstall engine oil filter. Refer to *ENGINE OIL FILTER INSTALLATION*.

16. Pour following amount of the recommended oil into the oil tank.

| OIL QUANTITIES |  |                               |
|----------------|--|-------------------------------|
| MODEL          |  | QUANTITY                      |
| SE6            | Engine oil and engine oil filter replacement                     | 4.7 L<br>(5 qt (U.S. liq.))   |
|                | Engine oil, engine oil filter and HCM surface filter replacement | 4.9 L<br>(5.2 qt (U.S. liq.)) |
| SM6            | Engine oil and engine oil filter replacement                     | 4.5 L<br>(4.8 qt (U.S. liq.)) |

17. Check engine oil level, refer to *ENGINE OIL LEVEL VERIFICATION* in this subsection.

**NOTICE** Ensure oil pressure warning lamp goes out within 5 seconds from engine start. If oil pressure warning lamp stays ON for more than 5 seconds, STOP ENGINE, add 500 ml (17 U.S. oz) of oil, then restart engine and let engine idle for 10 minutes and recheck oil level.

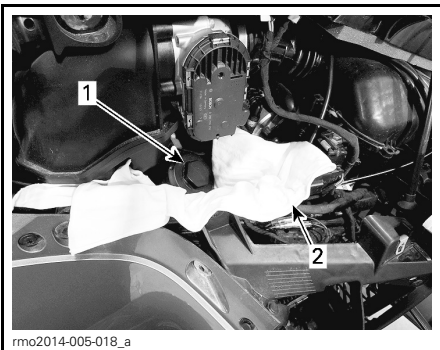
18. Ensure engine oil filter cover, magnetic drain plug (clutch cover) and drain plug (oil sump cover) are not leaking.
19. Reinstall all removed body panels.
20. Dispose of used oil as per your local environmental regulations.

## Engine Oil Filter

### Engine Oil Filter Removal

1. Refer to *ENGINE OIL CHANGE* for removal of the required body panels.
2. Unscrew oil filter cover.

**NOTE:** Place a rag around the cover to keep components clean from oil.



1. Oil filter cover
2. Rag

3. Remove oil filter cover with O-rings. Discard O-rings.
4. Remove oil filter.

5. Dispose filter as per your local environmental regulations.

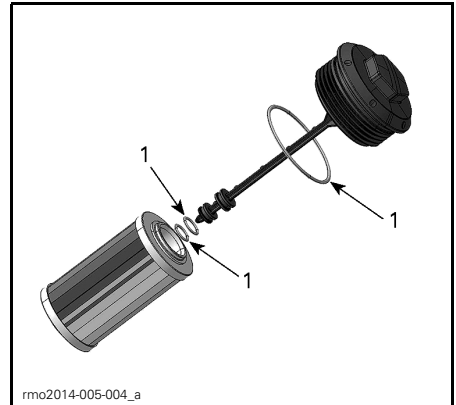
### Engine Oil Filter Installation

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

1. Check and clean the oil inlet and outlet orifices in crankcase for dirt and contaminants.
2. Insert **NEW** engine oil filter.
3. Install **NEW** O-rings on the oil filter cover.

| OIL FILTER COVER  |  |
|-------------------|--|
| O-rings           | NEW                                      |
| Tightening torque | 25 N•m ± 3 N•m<br>(18 lbf•ft ± 2 lbf•ft) |

To ease assembly and prevent displacement of the O-rings during installation, slightly oil filter and O-rings, refer to following illustration.



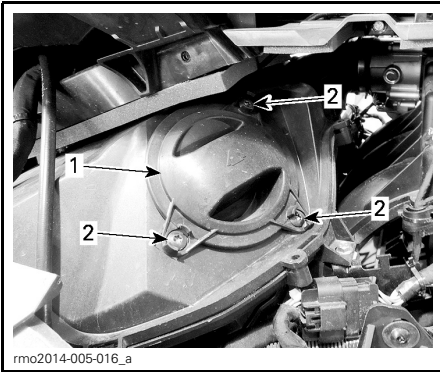
1. Apply oil here

## Air Filter

### Air Filter Removal

1. Remove the following body panels to access the air filter. Refer to *BODY PANELS* in the *EQUIPMENT* subsection.
  - LH side panel.
  - LH top side panel.

Remove the 3 screws from the air filter cover.



1. Cover
2. Screws

Remove the air filter cover and the filter.



1. Cover
2. Filter

### Air Filter Inspection

Inspect air filter for cleanliness and damage.

**NOTICE** It is not recommended to blow compressed air on the paper filter. This could damage the paper fibers and reduce its filtration ability when used in dusty environments.

**NOTICE** Do not wash the paper filter with any cleaning solution.

Replace air filter as necessary.

### Air Filter Installation

Carefully install air filter into position.

**NOTE:** The air filter should sit itself correctly. Please make sure the seat/receptacle of the intake hose is not deformed before inserting the air filter.

Properly position air filter cover then secure with all screws.

| TIGHTENING TORQUE       |  |
|-------------------------|--|
| Air filter cover screws | 2.5 N•m to 3 N•m<br>(22 lb•in to 27 lb•in) |

Reinstall parts in the reverse order of their removal.

## Engine Coolant

### Engine Coolant Level Verification

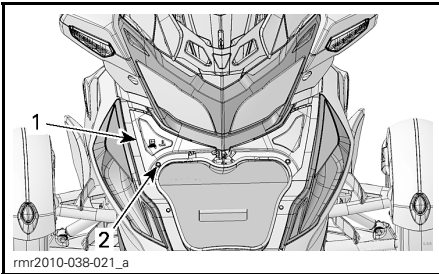
**⚠ WARNING**  
When opening the reservoir, the coolant can be very hot and spray out if the engine is hot. In order to avoid getting burned, check the coolant level when the engine is cold.

The cooling system must be filled with distilled water and antifreeze solution (50% distilled water, 50% antifreeze).

For best performance, use LONG LIFE ANTIFREEZE (P/N 219 702 685).

With the engine cold, check the coolant level as follows:

1. Park the vehicle on a firm, level surface.
2. Open the front storage compartment cover.
3. Remove the plastic rivet from the right service cover.



1. Right service cover
2. Plastic rivet

4. Pull down the service cover using the recess to release upper tabs from the front fascia.



5. Pull out the rear tab.
6. Lift service cover to remove it.

**NOTICE** Pay attention not to damage the FCS switch.

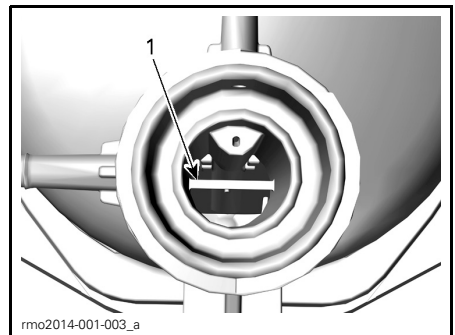
7. Check the coolant level on the right hand side. Coolant must be visible slightly above the COLD level mark.

**NOTE:** If engine is hot, coolant must be visible without exceeding the HOT level mark.



1. Coolant reservoir cap

8. If required, add coolant until it is visible in the reservoir slightly above the COLD level mark. Use a funnel to avoid spillage. **Do not overfill.**
9. Stop adding coolant once coolant starts to appear in the tube.



1. HOT coolant level reference line

10. Reinstall the service cover.

**NOTE:** A coolant system that frequently requires coolant indicates leaks or engine problems. See an authorized Can-Am roadster dealer.

## Radiator Fans

### Radiator Fans Cleaning

Remove any debris from the grills.

**NOTE:** Do not clean with a pressure washer because it can damage the radiator fins. Clean only with compressed air from behind (blow the air from the back towards the front).



1. Radiator fan grills

**NOTE:** When the engine is running and the vehicle is stopped or travelling at low speed, the radiator fans push air towards the front of the vehicle. When the vehicle is travelling at higher speed the fans push the air towards the back of the vehicle.

## Clutch Fluid (SM6 Model)

### Clutch Fluid Level Verification

Check the clutch fluid level when the clutch does not operate normally or when it is difficult to shift gears with the gearshift lever.

The clutch fluid reservoir is near the reverse button on the left handlebar.

Check the clutch fluid level as follows:

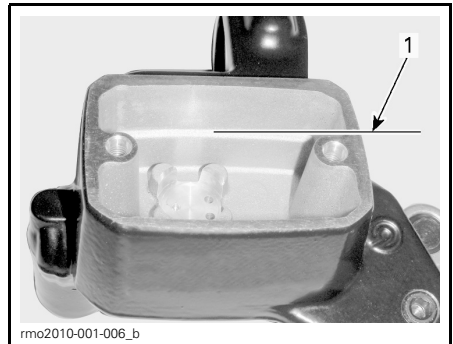
1. Park the vehicle on a firm, level surface.
2. Set the handlebar straight in order to position the top of clutch fluid reservoir horizontally.
3. Wipe clean the cap area.
4. Use the Phillips head screwdriver located in the toolkit.
5. Unscrew cap retaining screws.



6. Carefully remove cap. Pay attention not to drop the cap seal.
7. Look inside the reservoir to see the fluid level.

Check clutch fluid level inside the reservoir:

- The fluid must be flush to the fill level line (protuberance on the reservoir wall).



**FLUID REMOVED FOR CLARITY PURPOSE**

1. Fill level line

### Adding Clutch Fluid

1. If the fluid level is lower than specified, add fluid to the reservoir up to the fill level line. Use only DOT 4 brake fluid.
2. Add fluid as required. **Do not over-fill.**

**NOTICE** Immediately wipe up any spills.

3. Push back the seal located inside the cap.

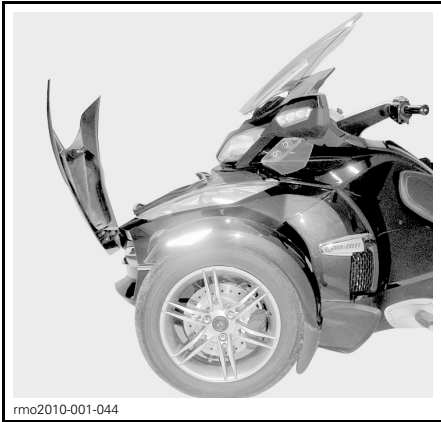
4. Reinstall the cap to the reservoir.
5. Tighten cap screws.

## Battery

### Battery Location

The battery is located in the front storage compartment.

To access the battery, open the front storage compartment.



FRONT STORAGE COMPARTMENT OPENED

- Open the access cover.  
 Unzip the liner if applicable.



1. Liner

Loosen the screws and open the battery access panel.

### Battery Charging

The vehicle is equipped with a maintenance-free type battery and is completely sealed; there is no need to add water to adjust the electrolyte level. The battery may need to be charged if the vehicle has not been ridden for at least one month.

Always have the battery replaced by an authorized Can-Am roadster dealer.

### **⚠ WARNING**

Do not use conventional lead-acid type batteries. Acid may leak out through the battery vent of a conventional lead-acid type battery. Acid may also leak if the battery case is cracked or damaged, which can cause severe burns.

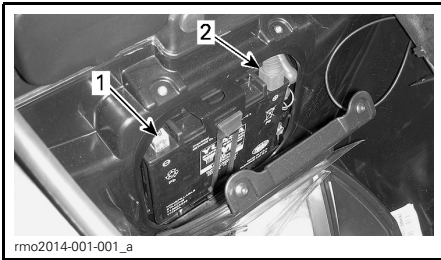
The battery can be charged while it is installed on the vehicle.

**NOTICE** Follow the instructions provided with your battery charger. Improper charging may damage the battery.

To charge the battery, proceed as follows:

1. Open the front storage compartment.
2. Remove the battery access panel.
3. First connect the POSITIVE (+) cable to the corresponding terminal.
4. Connect the NEGATIVE (-) cable to the corresponding terminal.

**NOTICE** Always connect the POSITIVE (+) cable first to avoid damaging the electrical system of the vehicle.



1. NEGATIVE (-) terminal
2. POSITIVE (+) terminal

5. Start the battery charger. Charging time will depend on the charging rate.

When the battery is charged:

6. First disconnect the NEGATIVE (-) cable.
7. Disconnect the POSITIVE (+) cable.

**NOTICE** Always disconnect the NEGATIVE (-) cable first to avoid damaging the electrical system of the vehicle.

8. Close the battery access panel and the front storage compartment.

A standard battery charger can be used. The recommended charge rate is 2 A. If the battery is dead, it can be jump started with a car battery (see *ROAD SIDE REPAIRS* section).

For home charging, a "trickle" charger can be used to slowly charge the battery. This type of charger can be left connected for a long period of time without damaging the battery. Always follow the charging time as recommended in the charger instructions.

## Drive Belt

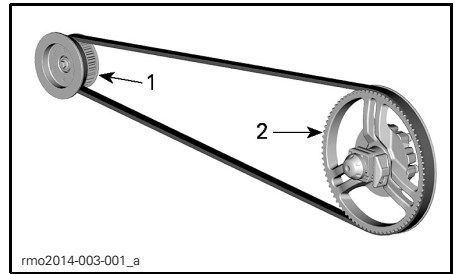
Visually inspect belt alignment and condition before each ride.

Belt alignment and deflection adjustment should always be performed by an authorized Can-Am roadster dealer according to the *MAINTENANCE SCHEDULE*.

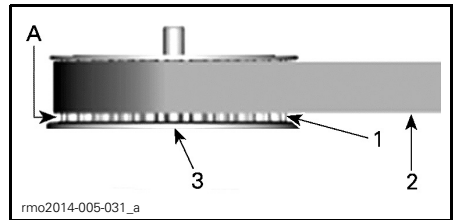
## Drive Belt Alignment

The gap between the belt and the sprocket internal flange should be sum of "X" + "Y" = 3.25 mm ± 2.75 mm (.13 in ± .11 in). If belt goes beyond the outside edge of sprocket, have the belt properly aligned by an authorized Can-Am roadster dealer as soon as possible.

**NOTE:** Belt can be in contact with **ONLY ONE** flange from **ONLY ONE** of the sprockets.

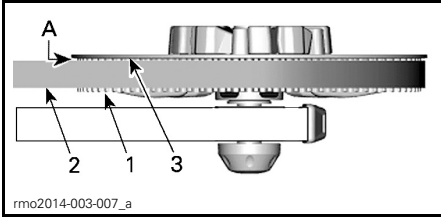


- TYPICAL**
1. Front sprocket
  2. Rear sprocket



- TYPICAL - FRONT SPROCKET**
1. Front sprocket teeth
  2. Belt
  3. Sprocket internal flange
- A. GAP "X"



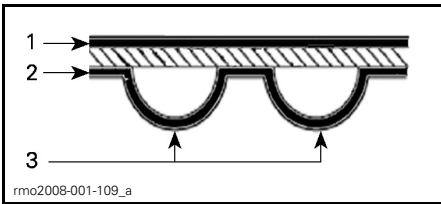


**REAR SPROCKET**

- 1. Rear sprocket teeth
- 2. Belt
- 3. Sprocket internal flange
- A. GAP "Y"

**Drive Belt Wear**




Inspect the drive belt with the vehicle in neutral, engine off, on a level surface with plenty of room — you will have to roll the vehicle forward or backward to see the full length of the belt.








**DRIVE BELT SURFACES**

- 1. Outer surface
- 2. Teeth side surface
- 3. Tooth

Inspect for the following conditions:

| WEAR CONDITION   | REQUIRED ACTION   |
|--|-------------------|
| Good condition<br>  | None              |
| Hairline cracks<br> | Monitor condition |
| Minor chipping<br>  | Monitor condition |

| WEAR CONDITION  | REQUIRED ACTION |
|---|-----------------|
| Opened cracks<br>                                  | Replace belt    |
| Hook wear<br>                                      | Replace belt    |
| Missing teeth<br>                                  | Replace belt    |
| Belt fabric worn, exposing internal components<br> | Replace belt    |
| Stone damage<br>                                   | Replace belt    |

**NOTE:** Hairline cracks do not require the replacement of the belt, but must be monitored closely — they may lead to opened cracks or missing teeth, requiring belt replacement. Damage to the center of the belt will eventually require belt replacement, but when cracks extend to the edge of the belt, belt failure is imminent.

When a drive belt is replaced, also replace the sprockets to increase the longevity of the new drive belt.

**Drive Belt Tension**

While riding, if you feel vibrations or noise in the belt or if the belt is skipping sprocket teeth, have the belt tension adjusted as soon as possible by an authorized Can-Am roadster dealer. Pay particular attention during break-in period (first 1 000 km (600 mi)).

## Wheels and Tires

### WARNING

Tires that are not the recommended type, damaged, worn down below the minimum tread wear limit indicator or not properly inflated can cause loss of control. New tires will not operate at their maximum efficiency until their break-in is completed. Braking, steering and VSS performance may be reduced, so use extra caution. Tires take about 300 km (200 mi) of riding with frequent braking to break-in. For riding with infrequent braking, allow extra time to break-in the tires.

The tires have been specifically designed for the Spyder roadster. Use only the BRP recommended tires, which can be ordered only from an authorized Can-Am roadster dealer.

When the rear tire is removed or replaced, perform the following:

- Check and clean the rear sprocket bearing. Replace if damaged or broken.
- Check and clean the rear axle bearings. Replace if damaged or broken.
- Replace and lubricate the bearing seal of the rear axle.
- Replace and lubricate rear axle O-ring.
- Check and clean the rear axle wear sleeves. Replace if damaged or broken.

When the rear wheel is removed or replaced, perform the following:

- Replace rear wheel nut.
- Replace and lubricate the bearing seal of the rear axle.
- Replace and lubricate rear axle O-ring.
- Check rubber damper condition. Replace if damaged or broken.

## Tire Pressure

Check pressure when tires are cold before using the vehicle. Tire pressure changes with the air temperature. Recheck pressure if temperature has changed (e.g., significant weather change, driving in the mountains).

| COLD TIRE PRESURE |                                      |
|-------------------|--------------------------------------|
| Front tires       | 138 kPa ± 14 kPa<br>(20 PSI ± 2 PSI) |
| Rear tire         | 193 kPa ± 14 kPa<br>(28 PSI ± 2 PSI) |

**NOTE:** The pressure difference between the left and right side tire should not exceed 3.4 kPa (.03 bar).

## Tire Damage

Check all tires for:

- Cuts, slits and cracks in the tires.
- Bumps or bulges in the side of the tire or the tread.
- Nails or other foreign objects in the side of the tire or tread.
- Air leaks (hissing sound) caused by an ill-fitting rim or a faulty tire valve.

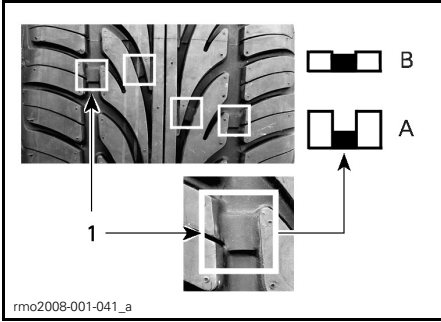
If any of the above occurs, have the tire repaired or replaced as soon as possible by an authorized Can-Am roadster dealer.

## Tire Tread Wear

Check minimum tread depth by using the tread-wear indicators (hard rubber bars molded at the base of the tread; 1 in figure below). Check in three locations across the tire tread:

- Outer edge
- Center
- Inside edge.

The tread-wear indicators will appear across the treads that have been worn down to the minimum tread depth. When at least one tread-wear indicator appears across the tread, have the tire replaced as soon as possible by an authorized Can-Am roadster dealer.



**TIRE TREAD WEAR**

1. Tread-wear limit indicator

A. Appropriate tread depth

B. Minimum tread depth, replace tire

It is normal to see uneven wear on tires depending on how the vehicle is driven and road conditions. The front tires external or internal edges and the rear tire center tread will wear unevenly depending on if the vehicle is driven smoothly or aggressively.

**Tire Rotation (Front)**

Rotate front tires when tread depth reaches 4 mm (5/32 in). This will maximize tire life.

**⚠ WARNING**

The tires are designed to rotate only in one direction. Do not switch the left and right front wheels. The tires must be dismounted from the wheels for tire rotation. If a tire is mounted on the incorrect side, you will have less traction and could lose control.

**⚠ CAUTION** Do not hold the front wheel spoke while attempting to spin the front wheel as your fingers may be caught between the wheel and the brake caliper.

**Tire Registration Form**

In the event of a tire recall, we can only contact you if we have your name and address. As a vehicle manufacturer, BRP keeps a record of the Tire Identification Number (TIN) associated with

the Vehicle Identification Number (VIN) (see *VEHICLE IDENTIFICATION*) and its current owner information.

If you replace any tire on your vehicle, a "Tire Registration Form" must be completed and sent to the tire manufacturer consumer service group. The "Tire Registration Form" is available at an authorized Can-Am roadster dealer.

**Brakes**

**⚠ WARNING**

New brakes will not operate at their maximum efficiency until their break-in is completed. Braking performance may be reduced, so use extra caution. Brakes take about 300 km (200 mi) of riding with frequent braking to break-in. For riding with infrequent braking, allow extra time to break-in the brakes.

**Brake Fluid Level Verification**

Use only DOT 4 brake fluid from a sealed container.

Check the brake fluid level as follows:

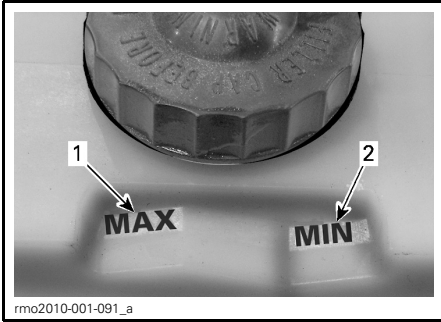
1. Park the vehicle on a firm, level surface.
2. Unlatch and lift the seat *OPENING THE SEAT*.



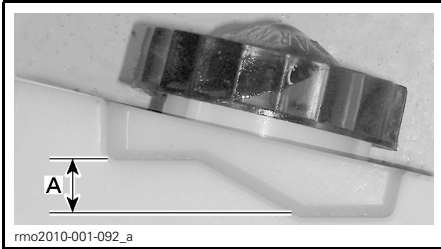
**TYPICAL**

1. Brake fluid reservoir

3. Check the brake fluid level in both reservoirs, near the back of the seat. They should both be above the MIN. mark.



1. Brake fluid MAX. level mark
2. Brake fluid MIN. level mark



A. Operating range

4. Add fluid as required. Refer to *ADDING BRAKE FLUID* subsection.

**NOTE:** Low brake fluid may indicate leaks or worn brake pads. See an authorized Can-Am roadster dealer.

### Adding Brake Fluid

Remove the filler cap.

**⚠ WARNING**

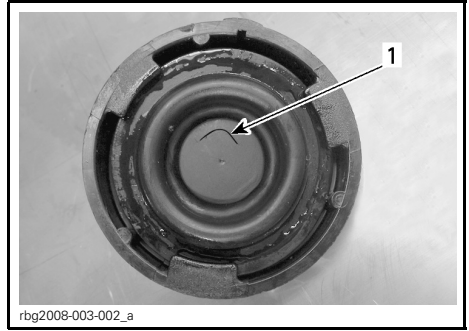
Clean filler cap before removing. Use only DOT 4 brake fluid from a sealed container.

1. Add fluid to MAX level.

**NOTICE** Brake fluid can damage painted surfaces or plastic parts. Wipe up any spills.

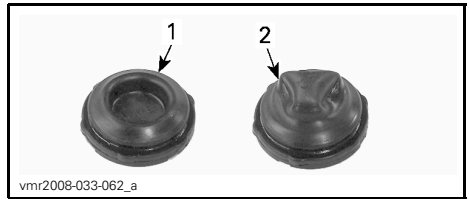
2. Reinstall filler cap as follows:

- 2.1 Check that V slit is in good condition.
- 2.2 Ensure diaphragm are properly positioned.



**TYPICAL**

1. V slit



**TYPICAL**

1. Correct position
2. Wrong position

3. Close the seat and ensure it is fully latched.

### Brake System Verification

The front and rear brakes are hydraulic disc types. These brakes are self-adjusting and do not require adjustment.

The brake pedal also requires no adjustment.

To keep brakes in good condition, check the following as per the *MAINTENANCE SCHEDULE*:

- Entire brake system for fluid leaks
- Brake pedal for spongy feel

- Brake discs for excessive wear and surface condition
- Brake pads for wear, damage or looseness.

**RT-S and RT LTD SE6 Models**

1. Release the latch underneath the floorboard.
2. Pivot the floorboard by manually pushing down its front part.
3. Flip back the floorboard until it latches. The mechanism must work freely.

See an authorized Can-Am roadster dealer if there are any problems with the brake system.

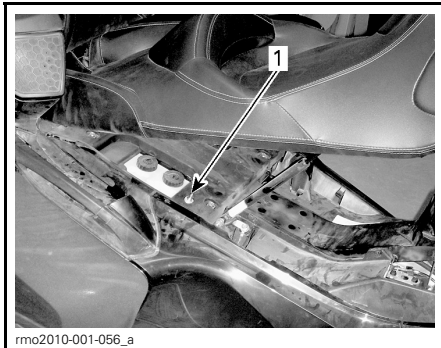
**Headlights**

**Headlights Aiming Verification (European, Brazilian, Australian and Japanese Models)**

**Low Beam**

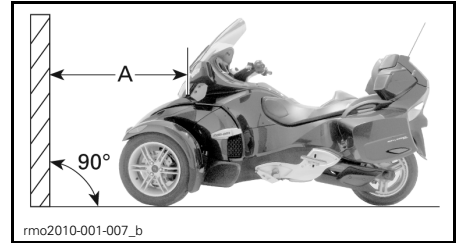
**NOTE:** This verification is valid for either left-hand or right-hand traffic regulations.

1. Verify that the tires are correctly inflated.
2. Set the rear suspension air pressure to 0 kPa (0 PSI) using the schrader valve located under the seat.

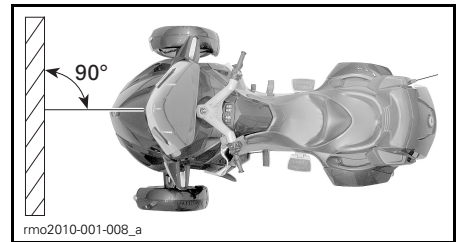


1. Schrader valve

3. Position vehicle in front of a test surface as shown. Make sure vehicle is on leveled ground.



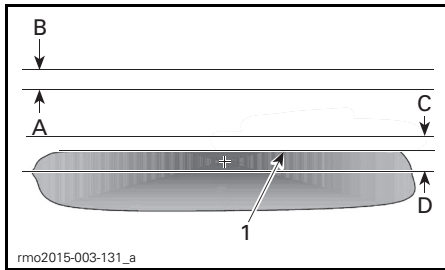
A. 10 m (33 ft)



4. Trace 4 lines parallel to the ground on the test surface as follows:

| LINES ON THE TEST SURFACE |                                   |
|---------------------------|-----------------------------------|
| Line A                    | 703 mm (27-11/16 in) above ground |
| Line B                    | 773 mm (30-7/16 in) above ground  |
| Line C                    | 566 mm (2-9/32 in) above ground   |
| Line D                    | 370 mm (14-9/16 in) above ground  |

5. Select **low beam**.
6. Beam aiming is correct when the top line of the headlight reflection is between lines C and D.



TYPICAL HEADLIGHT REFLECTION ON SURFACE TEST (SINGLE HEADLIGHT)

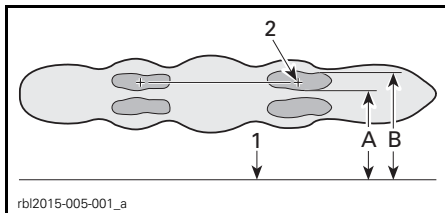
1. Ground
2. Top line

### High Beam

**NOTE:** As the low beam and high beam are separate units, this verification is valid for either left-hand or right-hand traffic regulations.

1. Follow steps 1 to 4 of the low beam verification procedure.
2. Select **High** beam.

Beam aiming is correct when the focus point (brightest spot) of the headlight reflection is between lines A and B.



TYPICAL HEADLIGHT REFLECTION ON SURFACE TEST (BOTH HEADLIGHTS)

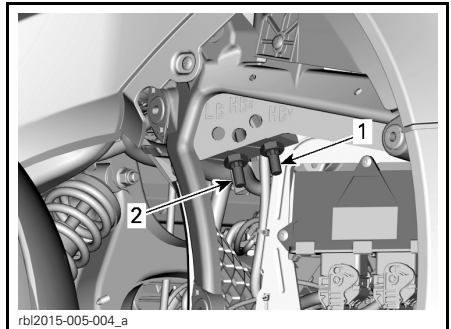
1. Ground
2. Focus point

### Headlights Vertical Aiming Adjustment

1. Remove both middle side panels. Refer to the *BODY PANELS* in the *EQUIPMENT* subsection.

#### European, Brazilian and Australian Models

2. To adjust headlight beam, turn the appropriate adjustment knob. Adjust evenly on both sides.

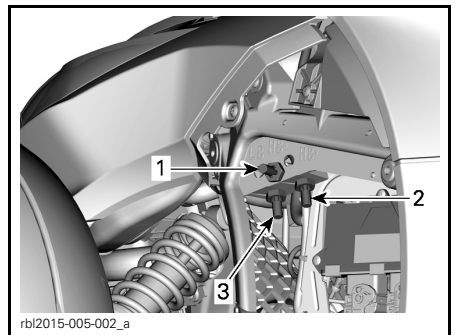


LH SIDE SHOWN (EUROPEAN, AUSTRALIAN AND BRAZILIAN MODELS)

1. High beam adjustment knob ( $HB_V$ )
2. Low beam adjustment knob (LB)

#### Japanese Models

To adjust headlight beam, turn the applicable adjustment knob. Adjust both headlights evenly.



LH SIDE SHOWN

1. High Beam Horizontal Adjustment Knob " $HB_H$ "
2. High Beam Vertical Adjustment Knob " $HB_V$ "
3. Low Beam Vertical Adjustment Knob " $LB$ "

#### All Models

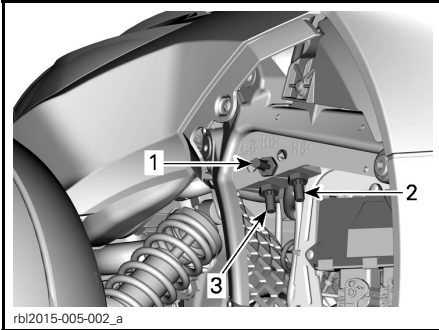
| HEADLIGHT BEAM ADJUSTMENT |                            |
|---------------------------|----------------------------|
| Raise beam                | Turn knob clockwise        |
| Lower beam                | Turn knob counterclockwise |

3. Reinstall side panels. Refer to *BODY PANELS* in *EQUIPMENT* subsection.

## Headlights Horizontal Aiming Adjustment, High Beams (Japanese Models Only)

If high beam headlights are out of adjustment (to far left or right), carry out the following procedure.

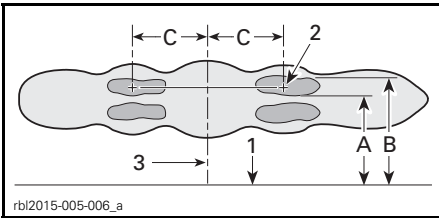
1. Remove both middle side panels.
2. To adjust headlight beam, turn the applicable adjustment knob.



### LH SIDE SHOWN

1. High Beam Horizontal Adjustment Knob "HB<sub>H</sub>"
2. High Beam Vertical Adjustment Knob "HB<sub>V</sub>"
3. Low Beam Vertical Adjustment Knob "LB"

Adjust both high beam headlights so that a line drawn from the center of the focus point (brightest spot on the wall) to the center of the headlight assembly is parallel to the fore and aft center line of the vehicle.



### HIGH BEAM HEADLIGHT REFLECTION ON TEST SURFACE (BOTH HEADLIGHTS)

1. Ground
  2. Focus point
  3. Vehicle center line
- A. 703 mm (27-11/16 in) above ground  
 B. 773 mm (30-7/16 in) above ground  
 C. 122 mm ± 35 mm (4-13/16 in ± 1-3/8 in) from vehicle center line

# VEHICLE CARE

## Vehicle Cleaning

To clean the vehicle, **do not use high-pressure washers** (like the ones found in car washes) as they may damage certain parts of the vehicle.

**NOTICE** Chrome wheels should be washed with water and mild soap. Do not polish, use acid based or abrasive chrome cleaner on the chrome wheels.

**NOTICE** Do not clean the windshield with alkaline or acid cleaner, gasoline or solvent to avoid windshield damage.

**NOTICE** For Matte finishes, do not use wax, detail spray, or other products used on regular paint. Do not wash with abrasive materials. Do not use mechanical cleaners or polishers, and do not rub the surfaces vigorously.

To clean the vehicle:

1. Rinse the vehicle thoroughly with water to remove loose dirt.
2. Using a soft, clean cloth, wash the vehicle with water mixed with a mild detergent, such as soap specially formulated for motorcycles or automobiles.

**NOTE:** Using warm water works well to remove bugs in the windshield and front panels.

**NOTE:** For **Matte finishes**, hand-wash with a soft wash mitt and a mild cleaning product safe for matte paint. To remove foreign substances such as insects, use a soft applicator and a mild solvent. Saturate and soak area before cleaning. Rub lightly.

3. While washing the vehicle, check for grease or oil. You can use XPS ROADSTER WASH (P/N 219 701 703) or a mild automotive degreaser. Thoroughly follow the manufacturer's instructions.

4. Dry the vehicle with a chamois or a soft towel.

## Vehicle Protection

Apply non-abrasive wax to plastic parts.

**NOTICE** Do not wax or polish matte surfaces.

| SURFACE         | PRODUCT/PRECAUTION                                      |
|-----------------|---|
| Glossy finishes | Apply only non-abrasive wax, safe for clear coat paints |
| Matte finishes  | Do not apply wax  |

**NOTICE** Do not polish windshield with any plastic cleaner/polisher.

## WARNING

Do not apply a vinyl or plastic protector on the seat as the surface will become slippery and the operator or the passenger may slip off the vehicle.



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# STORAGE AND PRESEASON PREPARATION

## Storage

If the vehicle will not be ridden for at least four months, such as during the winter, proper storage is necessary to keep the vehicle in good condition.

BRP recommends you have your authorized Can-Am roadster dealer fully prepare your vehicle for storage. Or, at your convenience, you can follow the basic procedures below.

### To Prepare the Vehicle for Storage:

1. Inspect vehicle and have your authorized Can-Am roadster dealer repair any problems if necessary.
2. Change the engine oil and engine oil filter. Go to an authorized Can-Am roadster dealer if necessary.
3. Check engine coolant, brake fluid and clutch fluid levels.
4. Fill the fuel tank, add fuel stabilizer and run the engine to prevent the tank from rusting and the fuel from deteriorating. Strictly follow instructions on fuel stabilizer container.
5. Inflate all tires to their recommended pressure.
6. Clean the vehicle.
7. Lubricate all control cables and latches, pivoting points of all levers and lubrication points of front suspensions.
8. Close and latch all storage compartments.
9. Cover the vehicle with a permeable materials (e.g., tarpaulin). Avoid using plastic or similar non-breathing, coated materials that restrict air flow and allow heat and moisture to accumulate.
10. Store the vehicle in a dry area, away from sunlight, with a small amount of daily temperature variation.
11. Slow charge the battery once a month at the recommended charging rate of 2 A. It is not necessary to remove the battery.

## Preseason Preparation

### *All Models*

After a storage period, vehicle must be prepared and inspected.

### To Remove the Vehicle from Storage:

1. Uncover and clean the vehicle.
2. Charge the battery if needed.
3. Perform a pre-ride inspection, then test-ride the vehicle at low speed.

### *RT-S and RT LTD SE6 Models*

1. Release the latch underneath the floorboard.
2. Pivot the floorboard by manually pushing down its front part.
3. Flip back the floorboard until it latches. The mechanism must work freely.

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intentionally blank***

# ***ROAD SIDE REPAIRS***

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# DIAGNOSTIC GUIDELINES

**NOTICE** If the vehicle must be transported, do not have it towed — towing can seriously damage the vehicle. Refer to *TRANSPORTING THE VEHICLE* in this section for detailed instructions.

## Will not Shift into First Gear (SM6 Model)

If the gearbox cannot shift into first gear when vehicle is not moving:

1. Slowly release the clutch lever while maintaining a light pressure down on the shift lever.
2. When you feel the shift lever engaging into first gear, pull in the clutch lever.

## Will not Shift into Neutral (SE6 Model)

If the gearbox cannot shift into neutral when vehicle is not moving:

1. The engine speed will be automatically increased to approximately 1300 RPM then it will be brought back to idle speed.
2. Up to 3 attempts will be done.
3. If it does not work, retry pressing up-shift or downshift.

## Will not Shift (SE6 Model)

Have your vehicle transported to the nearest Can-Am roadster dealer.

## Engine Does Not Start

### ENGINE DOES NOT TURN OVER

1. Scrolling safety message on the multifunction gauge not acknowledged.
  - *Read the safety message then press the MODE button.*
2. Engine stop switch in the OFF position.
  - *Make sure that the engine stop switch is in the ON position.*

### ENGINE DOES NOT TURN OVER (cont'd)

3. Clutch lever not engaged (SM6 model).
  - *Pull in and hold the clutch lever.*
4. Ignition switch in the OFF position.
  - *Turn the ignition to the ON position.*
5. Battery dead or poor battery connections.
  - *Check the battery charge. Recharge if necessary (see MAINTENANCE PROCEDURES subsection).*
  - *Check the battery connections in the front storage compartment (see MAINTENANCE PROCEDURES subsection).*
6. Blown fuse.
  - *Check fuse condition (see the HOW TO REPLACE FUSES AND LIGHTS in this section).*
7. Transmission is in gear (SE6 model).
  - *Depress brake pedal if transmission is in gear.*

## ENGINE DOES NOT TURN OVER (cont'd)

### 8. The key is not read.

If the immobilizer system cannot read the key, the engine will not start. The following conditions can lead to the immobilizer system failing to read the key:

- Damaged computer chip
- Large metallic object near the key
- Electronic device near the key
- Second electronic coded key near the main key
- Other strong electromagnetic field in the key area
- *If the engine does not start and a key error message is displayed in the cluster, make sure that none of the above conditions are present. If the problem is still present without these conditions, see an authorized Can-Am roadster dealer.*

## ENGINE TURNS OVER, BUT DOES NOT START

### 1. Low fuel.

- *Fill the fuel tank. Refer to BASIC PROCEDURES subsection.*

### 2. Weak battery.

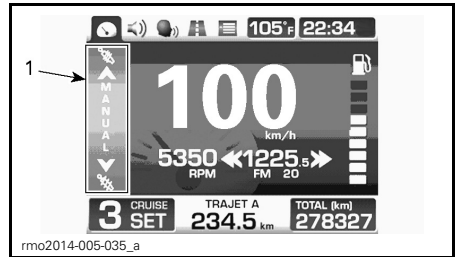
- *Check battery charge. Recharge if necessary (see MAINTENANCE PROCEDURES subsection).*
- *Check the battery connections in the front storage compartment (see MAINTENANCE PROCEDURES subsection).*

### 3. Engine management problem.

- *Check to see whether the engine malfunction indicator lamp is ON while starting. See an authorized Can-Am roadster dealer.*

## Manual is Displayed in the Gauge

The manual message will appear on the LH side of the digital display in place of the bar graph indication to inform you that there is a problem with the automatic suspension adjustment.



**TYPICAL - DIGITAL DISPLAY WITH MANUAL SETTING**










1. Manual setting indication









The suspension can still be manually adjusted to your preferred setting.

Have your vehicle inspected by a Can-Am dealer as soon as possible.

# MESSAGES IN MULTIFUNCTION GAUGE

Important information about vehicle condition is displayed on the multifunction gauge. When starting the engine, always look at the gauge for any indicator lamps or special messages.

| INDICATOR LAMPS (MALFUNCTIONS)   |   |                                 |  |  |
|--|---|---------------------------------|--|--|
| INDICATOR LAMP(S)  | DIGITAL INDICATOR   | DIGITAL WARNING                 | CAUSE                                  | WHAT TO DO   |
| <br>FLASHING | E displayed instead of selected gear  | NONE                            | Gearbox position sensor malfunction    | Stop vehicle and allow to reach neutral. Have the vehicle repaired by an authorized Can-Am roadster dealer.  |
| NONE   |                        | KEY ERR                         | Wrong or defective key                 | Use the right key for the vehicle or contact an authorized Can-Am roadster dealer.   |
|  ON          | NONE  | NONE                            | Engine is overheating                  | <ul style="list-style-type: none"> <li>– Stop and wait for engine to cool off.</li> <li>– Check for leaks.</li> <li>– Check coolant level and adjust (see <i>MAINTENANCE PROCEDURES</i> subsection).</li> </ul>                          |
|  ON          | NONE  | NONE                            | Low or high battery voltage            | <ul style="list-style-type: none"> <li>– Recharge battery (see <i>MAINTENANCE PROCEDURES</i> subsection).</li> <li>– Check battery connections</li> </ul> Have the vehicle transported to the nearest authorized Can-Am roadster dealer. |
|  ON        | NONE  | NONE                            | ABS malfunction. No ABS operation      | Have the vehicle transported to the nearest authorized Can-Am roadster dealer.   |
|  ON        | NONE  | NONE                            | VSS malfunction                        | * Have the vehicle transported to the nearest authorized Can-Am roadster dealer.   |
|  ON        | BRAKE FAILURE OR<br> | BRAKE FAILURE                   | EBD malfunction                        | Have the vehicle transported to the nearest authorized Can-Am roadster dealer.   |
|  | BRAKE FAILURE OR<br> | BRAKE FAILURE - LOW BRAKE FLUID | Low brake fluid level or faulty sensor | <ul style="list-style-type: none"> <li>– Check for brake fluid leaks.</li> <li>– Check brake fluid level and adjust (see <i>MAINTENANCE PROCEDURES</i> subsection).</li> </ul>   |

| INDICATOR LAMPS (MALFUNCTIONS)   |   |                 |  |  |
|--|---|-----------------|--|--|
| INDICATOR LAMP(S)  | DIGITAL INDICATOR   | DIGITAL WARNING | CAUSE  | WHAT TO DO   |
| <br>ON+BEEPING AT KEY OFF | NONE  | NONE            | Faulty parking brake or component                        | – Make sure battery tension is at least at 10.5 V.<br>– Check fuse no. 1 on the right fuse box (see <i>MAINTENANCE PROCEDURES</i> subsection).<br><br>Have the vehicle transported to the nearest authorized Can-Am roadster dealer. |
|                            |  | NONE            | Engine management component malfunction                  | Remove key, wait 20 seconds, and reinsert key.   |
|  |  | NONE            | Dynamic power steering component                         | Have the vehicle repaired by an authorized Can-Am roadster dealer.   |
|  |  | NONE            | Transmission Control Module component                    | – Remove key, wait 20 seconds, and reinsert key.<br>– Have the vehicle repaired by an authorized Can-Am roadster dealer.   |
| <br>FLASHING              |  | LIMP HOME       | Important engine management component or VSS malfunction | * Have the vehicle transported to the nearest authorized Can-Am roadster dealer.   |
|                          | NONE  | NONE            | Low oil pressure   | – Check for oil leaks.<br>– Check oil level and adjust (see <i>MAINTENANCE PROCEDURES</i> subsection)  |
| A combination of two different warnings can occur.   |   |                 |  |  |

\* BRP recommends having the vehicle transported when in LIMP HOME. If you operate the vehicle in LIMP HOME, avoid abrupt maneuvers and immediately go to the nearest authorized Can-Am roadster dealer to have your vehicle serviced before riding again. In LIMP HOME, the engine RPM is limited and therefore the vehicle speed.

Important information messages can also be displayed temporarily to assist indicator lamps.

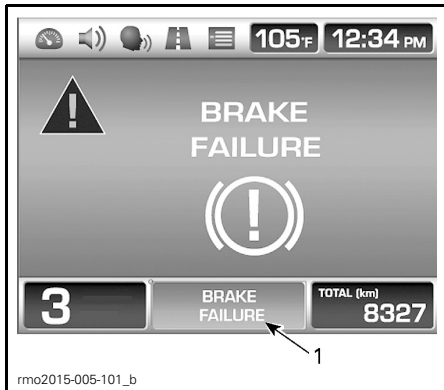


**TYPICAL**

1. Message

When a digital warning appears, it will show the warning for 6 seconds and then the warning will disappear for 60 seconds. During the 60 seconds, the small digital indicator will flash. This sequence will be repeated three times and then will stop for 15 minutes. During the 15 minutes only the indicator lamps will be activated.

If a problem persists, go to an authorized Can-Am roadster dealer.



**TYPICAL**

1. Message/icon

If a fault is displayed, press the MODE button to skip the error message.

**NOTE:** Skipped error messages will still be displayed in the lower section of the multifunction gauge and will be brought back to the main screen for a period of 60 seconds when the vehicle speed is below 3 km/h (2 MPH).



# WHAT TO DO IN THE FOLLOWING CIRCUMSTANCES

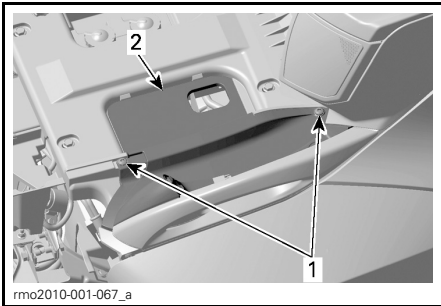
## Lost Keys

Use your spare key to have another one made by an authorized Can-Am roadster dealer as soon as possible. If **both keys are lost**, the ignition switch. The key barrel of the rear storage compartment and the trailer key barrel (if using a BRP trailer) will need to be replaced at the expense of the vehicle owner.

## Cannot Open the Side Storage Compartment

Open the seat.

Remove both retaining screws from panel.



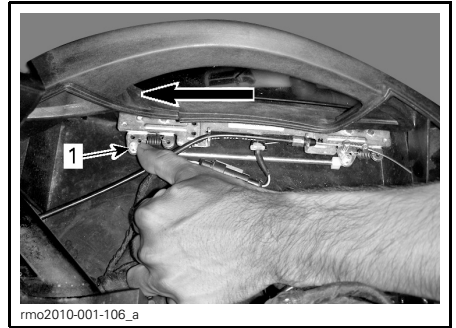
**LEFT SIDE PANEL SHOWN**  
1. Retaining screws  
2. Panel

Pull out panel.

Disconnect the switch connector.

Remove panel.

Slide the mechanism as shown to release the latch.



**LEFT SIDE PANEL SHOWN**  
1. Slide mechanism

Reinstall switch and panel when done.

## Flat Tire

If a tire has a **major** puncture or cut in the tread and is completely deflated, have the vehicle transported to the nearest Can-Am Spyder dealer. Refer to *TRANSPORTING THE VEHICLE* for transporting instructions.

If a tire has a **minor** nail or stone puncture and is not completely deflated, the tire can be temporarily repaired. To temporarily repair a tire, a self-inflating tire sealer or tire plug repair kit can be used. Follow the manufacturer's instructions that come with the tire sealer or repair kit and have the tire repaired or replaced by an authorized Can-Am roadster dealer **as soon as possible**.

When a tire is temporarily repaired, ride slowly and carefully, and frequently check tire pressure until it is replaced or permanently repaired.

## Dead Battery

If the battery is dead or too low to crank the engine, it can be jump started.

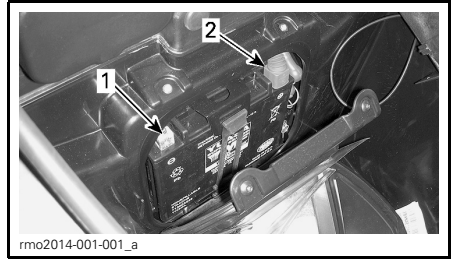
### **⚠ WARNING**

Connect the jumper cables as specified in the jump start procedure.

Batteries can emit explosive gas that can ignite if jumper cables are not properly connected.

To jump start the battery, proceed as follows:

1. Move the other vehicle as close as possible and preferably to the front of the Spyder roadster. Make sure the vehicles are not touching.
2. Shift the Spyder roadster into NEUTRAL (N) and engage the parking brake.
3. Turn off the engine of the other vehicle and all electrical accessories.
4. Open the hood of the other vehicle.
5. Open the front storage compartment of the Spyder roadster.
6. Make sure the ignition switch is set to OFF.
7. Remove the battery access panel.
8. Connect one end of the red POSITIVE (+) jumper cable to the POSITIVE (+) terminal of the Spyder roadster.
9. Connect the other end of the red POSITIVE (+) jumper cable to the POSITIVE (+) terminal of the booster battery.
10. Connect one end of the black NEGATIVE (-) jumper cable to the NEGATIVE (-) terminal of the booster battery.
11. Connect the other end of the black NEGATIVE (-) jumper cable to the NEGATIVE (-) terminal of the Spyder roadster.



1. NEGATIVE (-) terminal
2. POSITIVE (+) terminal

12. Stand on the right side of the Spyder roadster, apply brakes and start the engine. If it does not crank or it cranks slowly, check the jumper cables to make sure they are making good contact and try again.  
If it still does not start, there might be a problem with the starting system. Have the vehicle transported (see *TRANSPORTING THE VEHICLE*) and repaired by the nearest authorized Can-Am roadster dealer.
13. As soon the engine starts, disconnect both jumper cables in the reverse connection order, starting with the NEGATIVE (-) cable connected to the Spyder roadster.
14. Run the engine at an idle of 900 RPM for a couple of minutes.
15. Have the battery fully recharged with a battery charger (see *MAINTENANCE PROCEDURES* subsection) or by a qualified service station as soon as possible.

If the engine dies shortly after it has been jump started or when the jumper cables are disconnected, there might be a problem with the charging system. Have the vehicle transported (see *TRANSPORTING THE VEHICLE*) and repaired by the nearest authorized Can-Am roadster dealer.

After recharging battery, have the vehicle inspected by an authorized Can-Am roadster dealer.

# HOW TO REPLACE FUSES AND LIGHTS

## Fuses

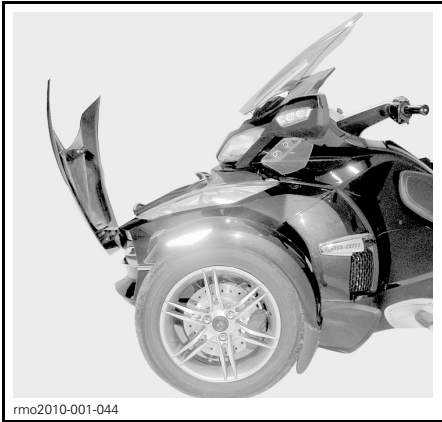
If any electrical accessories stop working on the vehicle, check for blown fuses and replace if necessary.

If an electrical failure still occurs, have the vehicle serviced by an authorized Can-Am roadster dealer.

## Fuse Locations

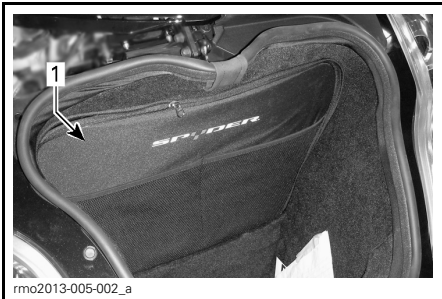
Fuses are located in the front storage compartment.

To access the fuses, open the front storage compartment.



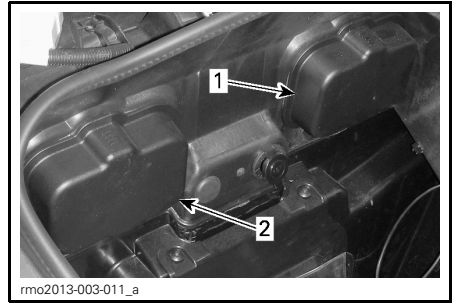
FRONT STORAGE COMPARTMENT OPENED

Open the access cover.  
Unzip the liner if applicable.



1. Liner

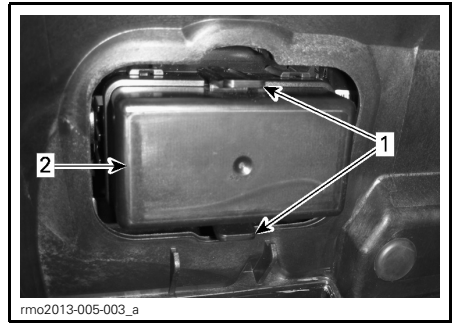
Push down on the fuse service covers and pull the covers off.



INSIDE FRONT STORAGE COMPARTMENT

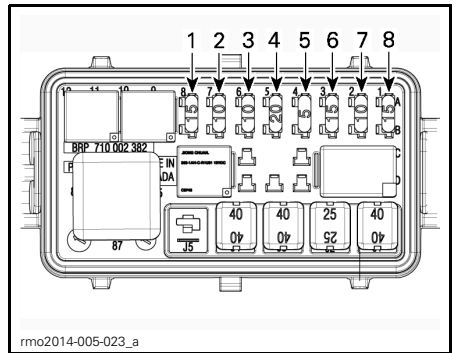
1. Left fuse service cover
2. Right fuse service cover

Push down on the tabs and carefully remove the fuse box covers.



1. Tabs
2. Fuse box cover

## Fuse Description



FUSES - LEFT FUSE BOX

**NOTE:** Refer to decal located between both fuse boxes for correct identification

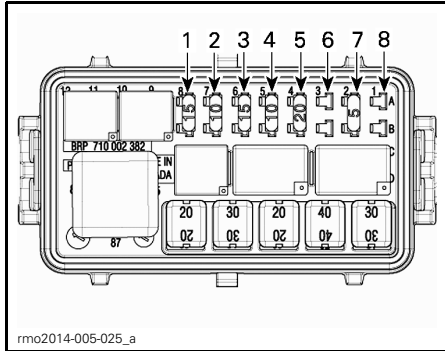
**NOTE:** Fuse boxes may differ between models.

**Left Fuse Box**

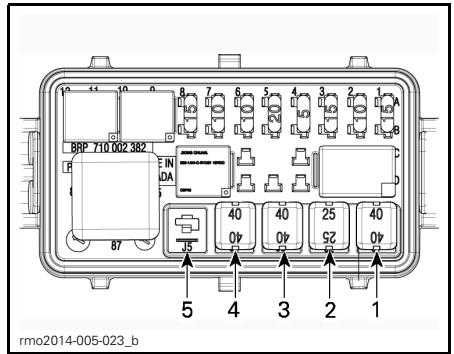
| FUSE NO. | DESCRIPTION  | RATING |
|----------|--|--------|
| 1        | Cluster / DLC  | 15 A   |
| 2        | Wake-up ECM / VCM/ MSR and D.E.S.S. /SAS / YRS / PRS                 | 10 A   |
| 3        | Alternator   | 10 A   |
| 4        | WPM / PBM  | 20 A   |
| 5        | ECM  | 5 A    |
| 6        | Injectors / Coils  | 15 A   |
| 7        | Wake-up TCM, DPS / Cluster, Fuel gauge and Coolant temperature gauge | 10 A   |
| 8        | H02S / CAPS / Fuel pump / EVAP / CSV, PSR                            | 15 A   |

| FUSE NO. | DESCRIPTION         | RATING |
|----------|---------------------|--------|
| 5        | Horn, Load shedding | 25 A   |
| 6        | DC plugs VKEY       | 5 A    |
| 7        | DC Plugs VBAT       | 5 A    |
| 8        | NOT USED            |        |

**NOTE:** When fuse 6 is installed, 12 V power outlet is only operational when ignition switch is at ON position. When fuse 7 is installed, 12 V power outlet is always operational.



FUSES - RIGHT FUSE BOX



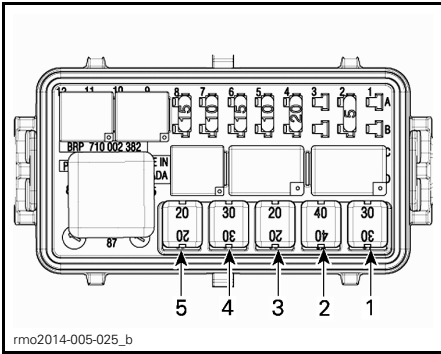
JCASE FUSES - LEFT FUSE BOX

**Right Fuse Box**

| FUSE NO. | DESCRIPTION                                | RATING |
|----------|--|--------|
| 1        | Days lights / Parking lamps / Plate lights | 15 A   |
| 2        | Brake lights / Hazard                      | 10 A   |
| 3        | VBattery, Radio                            | 15 A   |
| 4        | Trailer module                             | 10 A   |

**Left JCase Fuse Box**

| JCASE FUSE NO. | DESCRIPTION                  | RATING |
|----------------|------------------------------|--------|
| 1              | VCM pump                     | 40 A   |
| 2              | VCM valves                   | 25 A   |
| 3              | DPS                          | 40 A   |
| 4              | Main control (F1, F2,R4, R5) | 40 A   |
| 5              | Not used                     |        |



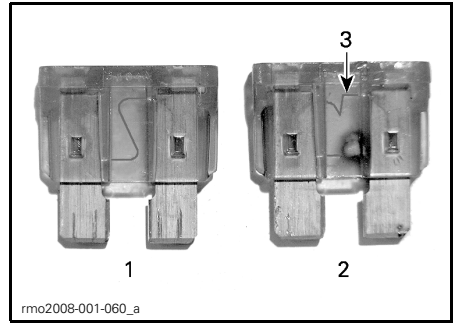
JCASE FUSES - RIGHT FUSE BOX

**Right JCase Fuse Box**

| JCASE FUSE NO. | DESCRIPTION   | RATING |
|----------------|---------------|--------|
| 1              | Cooling fan   | 30 A   |
| 2              | Accessories   | 40 A   |
| 3              | TCM solenoids | 20 A   |
| 4              | LO headlamps  | 30 A   |
| 5              | HI headlamps  | 20 A   |

**Fuse Replacement**

1. To access the fuses, refer to *FUSE LOCATIONS* in the *FUSES* subsection.
2. Set the ignition switch to OFF.
3. Pull the fuse out.
4. Check whether the filament is melted.



**FUSE**

1. Good fuse
2. Blown fuse
3. Melted filament

5. Replace the fuse with one with the same rating. Spare fuses are located in the fuse box cover.

**⚠ WARNING**  
 Using a higher-rated fuse can cause severe damage and may cause fire.

6. To close the fuse box covers, position covers over fuse boxes and carefully push down until they click.
7. Zip up the liner if applicable.
8. To close the fuse service covers, position covers over fuse boxes and push down carefully until the fuse service covers engage.
9. Close the access cover and then the front storage compartment.

**Lights**

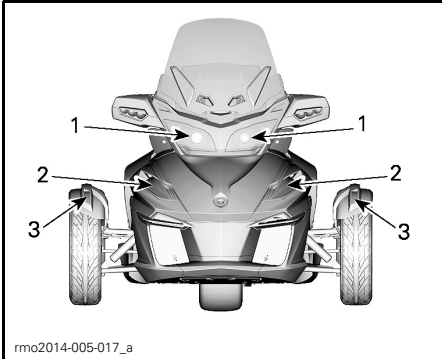
**NOTE:** The front turn signal lights and the brake lights are built with LEDs (light emitting diode) and this technology proved to be reliable. In the unlikely event they do not work, have them checked by an authorized Can-Am roadster dealer.

If a light described here stop working on the vehicle, replace bulb of defective light. The lights not described here should be serviced by an authorized Can-Am roadster dealer.

If the light failure still occurs, have the vehicle serviced by an authorized Can-Am roadster dealer.

**⚠ CAUTION** Always turn the ignition switch to the OFF position before replacing a bulb to avoid electric shock.

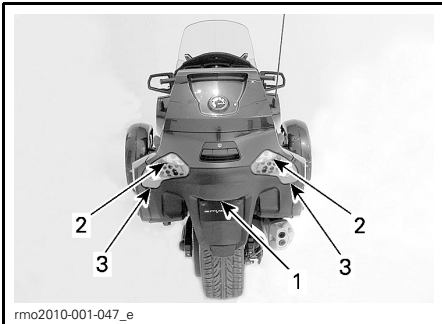
Always check light operation after replacement.



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**TYPICAL - LIGHTS LOCATION — FRONT OF VEHICLE**

1. Headlight — high beam
2. Headlight — low beam
3. Position light

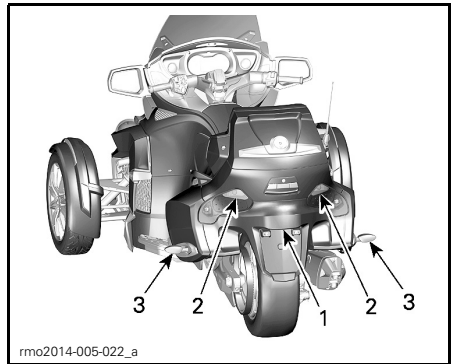


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**LIGHTS LOCATION – REAR OF VEHICLE**

1. License plate light
2. Backup light
3. Turn signal light

**Japanese Models Only**



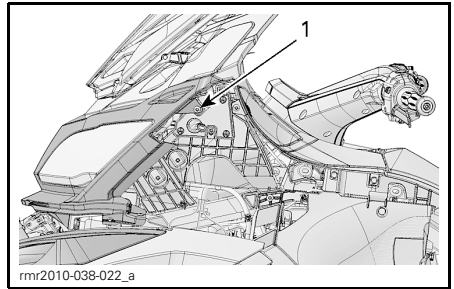
rmo2014-005-022\_a

**LIGHTS LOCATION – REAR OF VEHICLE**

1. License plate light
2. Backup light
3. Turn signal light

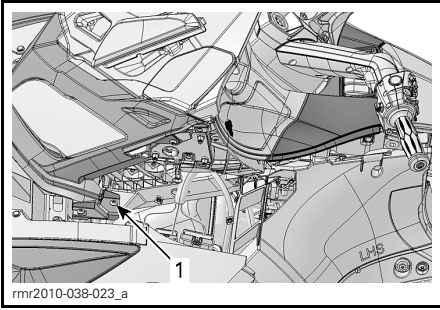
**Headlight — High Beam**

1. Remove the top side panel.
2. Remove the upper retaining screws from front fascia.



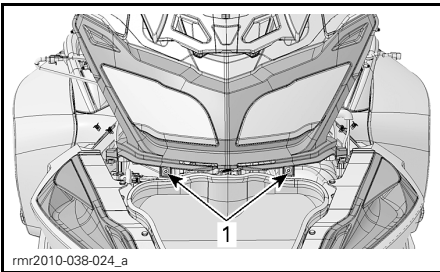
rmr2010-038-022\_a

1. Upper retaining screw
3. Remove middle retaining screws from front fascia.



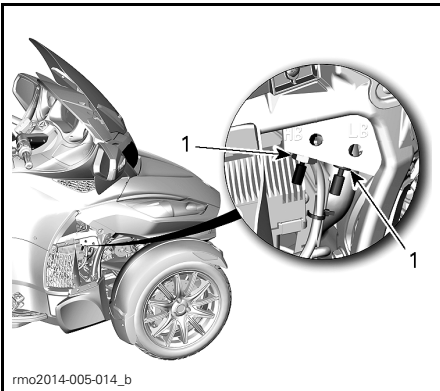
1. Middle retaining screw

4. Remove lower retaining screws and washers from front fascia.



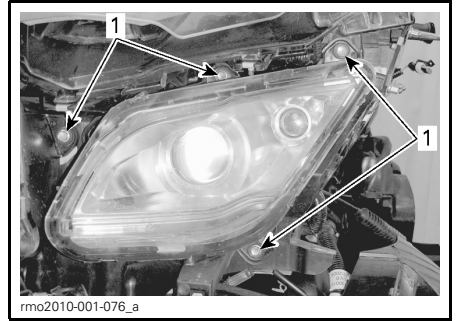
1. Lower retaining screw

5. Remove front fascia from vehicle.  
6. Remove adjustment cable retaining nuts.



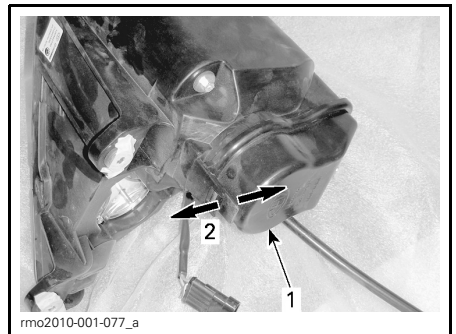
1. Adjustment cable retaining nuts

7. Remove all 4 headlight retaining screws.



1. Retaining screws

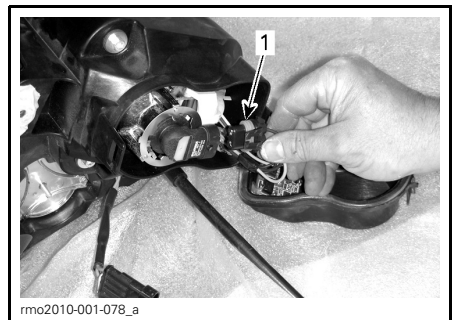
8. Pull tabs apart to unlock cover.



1. Headlight cover  
2. Pull tabs apart

9. Pull cover out.

10. Disconnect the bulb connector.



1. Unplug connector

11. Turn the bulb counterclockwise to unlock it.

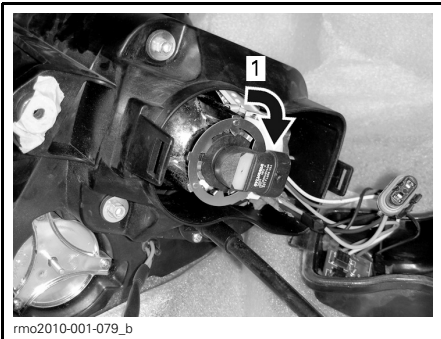


1. Turn counterclockwise

12. Pull bulb out.

13. Insert the new bulb into its socket then turn clockwise to lock it in position.

**NOTICE** Never put your fingers on a new halogen bulb. This would shorten its life.



1. Turn clockwise

14. Plug connector to the bulb.

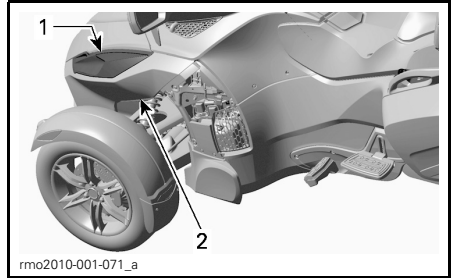
15. Reinstall headlight cover and remaining parts in the reverse order of the removal.

### Headlight — Low Beam

Remove the middle side panel.

Clean the back area of headlight.

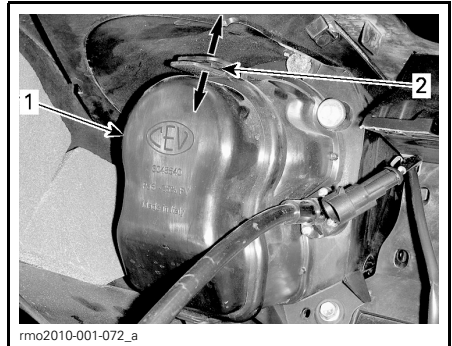
Insert your hand through the opening above the upper arm of front suspension.



1. Headlight

2. Access to the headlight bulb

Pull tabs apart to unlock cover.

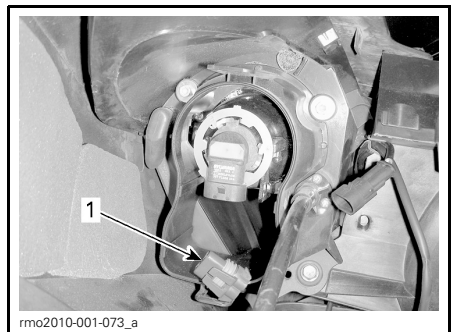


1. Headlight cover

2. Pull tabs apart

Pull cover out.

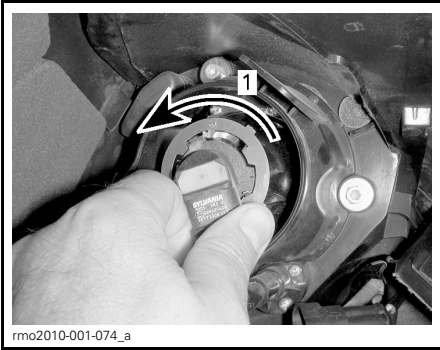
Disconnect bulb connector.



1. Unplugged connector

Turn bulb counterclockwise to unlock it.



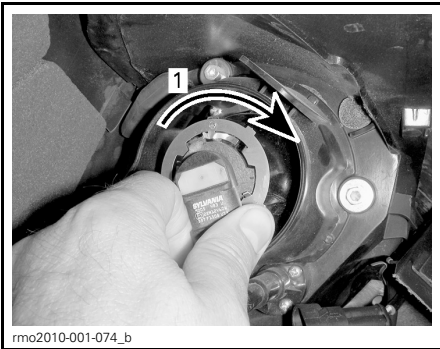


1. Turn counterclockwise

Pull bulb out.

**NOTICE** Never put your fingers on a new halogen bulb. This would shorten the bulb life.

Insert the new bulb into its socket then turn clockwise to lock it in position.



1. Turn clockwise

Plug connector to the bulb.

Reinstall headlight cover and middle side panel in the reverse order of the removal.

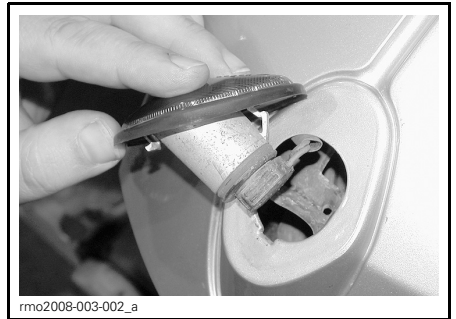
### Position Light

#### Base Model Only

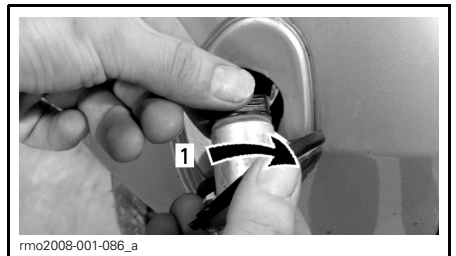
1. Push then hold lens towards rear of fender.



2. Lift front portion of lens with your thumb or a small screwdriver to release.

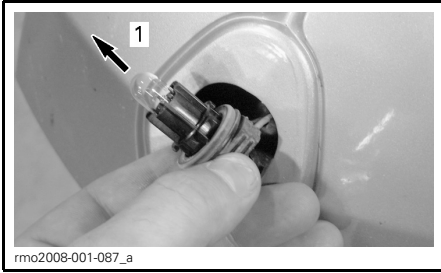


3. Turn the bulb holder clockwise and remove it from the connector.



1. Turn clockwise

4. Pull bulb out of the holder as indicated below.



1. Pull out bulb

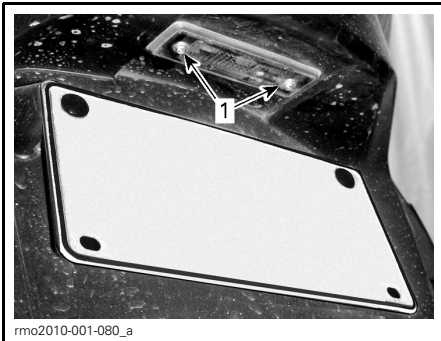
5. Insert a new bulb in the holder.
6. Properly reinstall the parts in the reverse order of their removal.

### ***RT-S and RT LTD Models***

The position lights are built with LEDs (light emitting diode) and this technology proved to be reliable. In the unlikely event they do not work, have them checked by an authorized Can-Am roadster dealer.

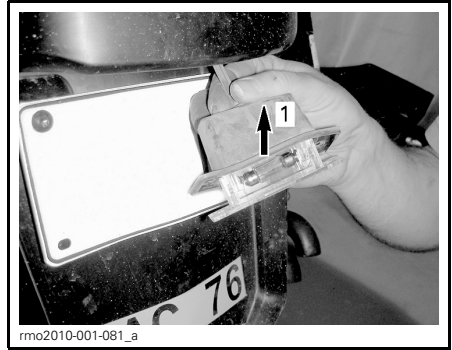
### **License Plate Light**

1. Remove the lens screws with a Phillips head screwdriver.



1. License plate lens screws

2. Pull out the lens.
3. Remove the bulb by pulling it out.

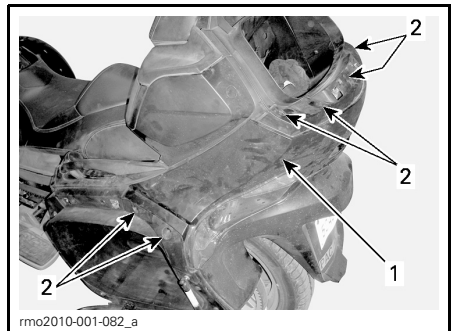


1. Pull out

4. Install the new bulb by pushing it in.
5. Reinstall the lens.

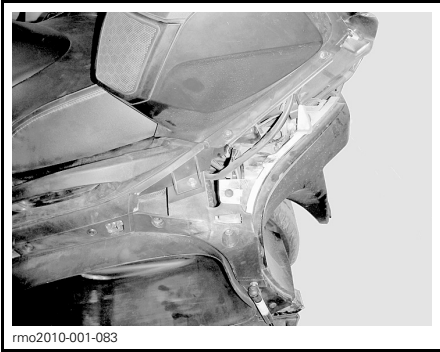
### **Backup Light**

1. Open the top storage compartment.
2. Open the side storage compartments.
3. Remove the 8 retaining screws from the rear panel.



1. Rear panel  
2. Retaining screws

4. Pull out panel.



5. Unplug connector.
6. Turn the bulb counterclockwise to unlock it.



1. Turn counterclockwise

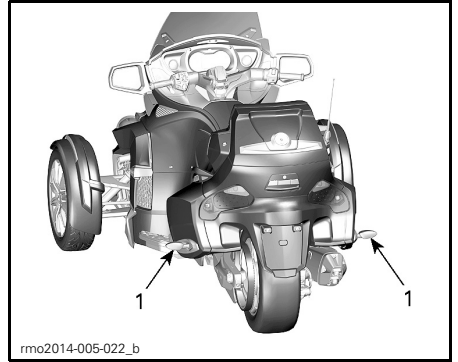
7. Pull bulb out.
8. Insert the new bulb into its socket then turn clockwise to lock it in position.



1. Turn clockwise

9. Plug connector to the bulb.
10. Reinstall rear panel in the reverse order of the removal.

### Flashers (Japanese Models Only)



#### 1. Flashers

1. Remove screw and lens from flasher to access the bulb.
2. Replace the bulb.

# TRANSPORTING THE VEHICLE

If your vehicle needs to be transported, it should be carried on a flatbed trailer of the proper size and capacity.

**CAUTION** If you need to push the vehicle, do it from the right-hand side to be able to reach the brake pedal.

When pulling the vehicle backwards, be careful that the front wheel does not roll over your feet.

**NOTICE** Do not tow the Spyder roadster — towing can seriously damage the vehicle drive system.

When contacting a towing or transporting service, be sure to ask if they have a flatbed trailer, loading ramp or power ramp to safely lift the vehicle and tie-down straps. Ensure the vehicle is properly transported as specified in this section.

**NOTICE** Avoid using chains to tie the vehicle — they may damage the surface finish or plastic components.

To load the vehicle for transport, proceed as follows:

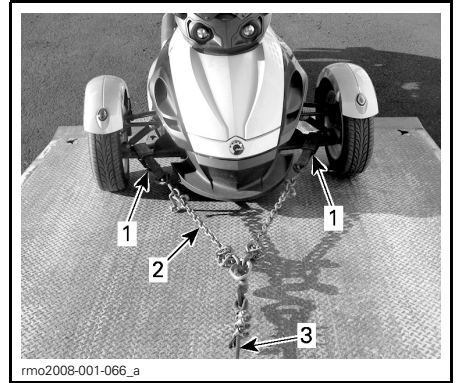
1. Shift the vehicle into NEUTRAL (N).
2. Remove the key from the ignition switch.
3. Put a strap around the lower arm of each front suspension.



1. Lower suspension arm
2. Strap between shock absorber and fin

**NOTICE** Do not place the strap over the fin. This could break it.

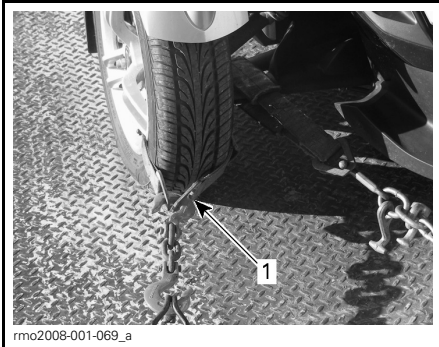
4. Attach the straps to the winch cable. If possible, use chains or additional straps to attach the straps to the winch cable as indicated below to avoid damaging the bumper cover.



## TYPICAL

1. Strap around front suspension lower arms
2. Chains to avoid damaging the bumper cover
3. Winch cable

5. Ensure that the parking brake is released.
6. Pull the vehicle on the flatbed trailer with the winch.
7. Engage the parking brake.
8. Ensure that the vehicle gear is in NEUTRAL (N).
9. Strap the front tires by using one the following methods indicated below.



**TYPICAL FRONT WHEELS ATTACHMENT — METHOD 1**

1. Strap around the rim of each front wheel and attached to the front of trailer

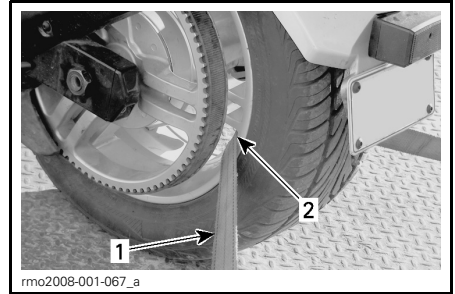


**TYPICAL FRONT WHEELS ATTACHMENT — METHOD 2**

1. Strap around each wheel and fixed to the front and rear of trailer

10. Pass a tie-down strap inside the rear wheel rim only. Do not pass the tie-down strap inside the rear sprocket.

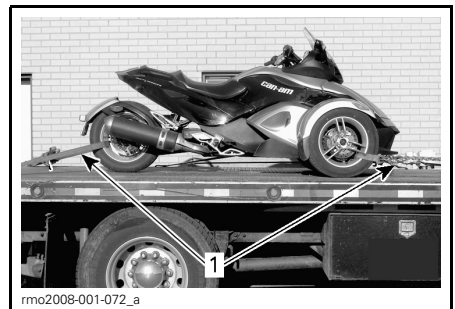
**NOTICE** Passing the tie-down strap inside the rear sprocket may seriously damage the drive system.



**TYPICAL REAR WHEEL ATTACHMENT**

1. Tie-down strap
2. Inside rear wheel rim ONLY

11. Firmly attach the rear wheel tie-down strap to the rear of the trailer with a ratchet.
12. Ensure that both the front and rear wheels are firmly attached to the trailer.



**TYPICAL**

1. Front and rear wheel firmly attached to trailer

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intentionally blank***

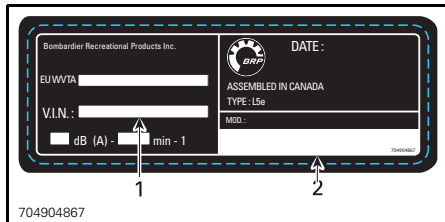
# ***TECHNICAL INFORMATION***

# VEHICLE IDENTIFICATION

The main components of your vehicle (engine and frame) are identified by different serial numbers. It may sometimes become necessary to locate these numbers for warranty purposes or to trace your vehicle in the event of loss. These numbers are required by the authorized Can-Am roadster dealer to complete warranty claims properly. No warranty will be allowed by Bombardier Recreational Products Inc. if the engine identification number (EIN) or vehicle identification number (VIN) is removed or mutilated in any way. We strongly recommend that you take note of all the serial numbers on your vehicle and supply them to your insurance company.

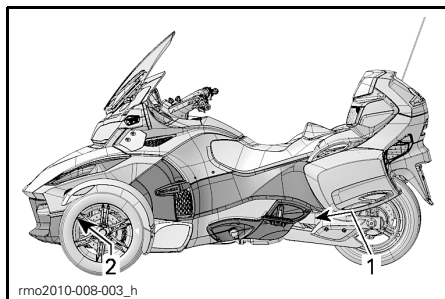
## Vehicle Identification Number

**NOTE:** VIN (Vehicle Identification Number) label may vary according to country.



### VEHICLE IDENTIFICATION NUMBER LABEL

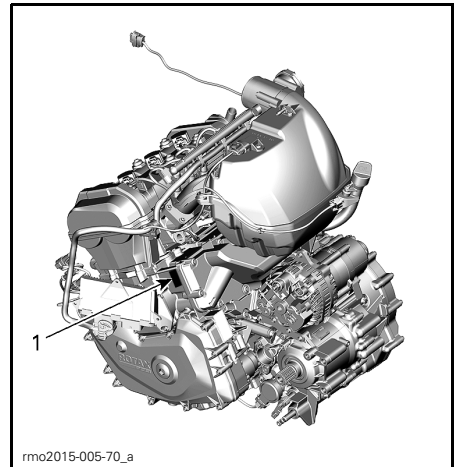
1. VIN (Vehicle Identification Number)
2. Model number



### LOCATION OF VIN

1. Swing arm (VIN label)
2. Lower frame (VIN stamped on the right side)

## Engine Identification Number



### TYPICAL

1. EIN (Engine Identification Number) location

## EPA Compliance Label

**VEHICLE EMISSION CONTROL INFORMATION**  
**BOMBARDIER RECREATIONAL PRODUCTS INC.**  
 THIS VEHICLE CONFORMS TO U.S. EPA AND CALIFORNIA REGULATIONS APPLICABLE TO MODEL YEAR NEW MOTORCYCLES AND IS CERTIFIED TO AN HC-NOx EMISSION STANDARD OF \_\_\_\_\_ GRAM/KILOMETER. See operator's guide for maintenance specifications.

**RENSEIGNEMENT SUR LE DISPOSITIF ANTIPOLLUTION**  
**BOMBARDIER PRODUITS RECRÉATIFS INC.**  
 CE VÉHICULE EST CONFORME AUX RÈGLEMENTS DE L'ÉPA DES É.U. ET DE LA CALIFORNIE APPLICABLES AUX MOTOCYCLETTES NEUVES DE L'ANNÉE \_\_\_\_\_ MODÈLE \_\_\_\_\_ ET EST CERTIFIÉ À LA NORME D'ÉMISSIONS HC+NOx de \_\_\_\_\_ GRAMME/KILOMÈTRE. Voir guide du conducteur pour les spécifications de maintenance.

|                                 |       |                                   |       |
|---------------------------------|-------|-----------------------------------|-------|
| Engine Displacement             | _____ | Cylindrée                         | _____ |
| Engine Family                   | _____ | Famille de moteur                 | _____ |
| Permeation Family               | _____ | Famille de perméation             | _____ |
| Evaporation Family              | _____ | Famille d'évaporation             | _____ |
| Exhaust Emission Control System | _____ | Système de contrôle des émissions | _____ |
| Idle Speed                      | _____ | Ralenti moteur                    | _____ |
| Fuel                            | _____ | Essence                           | _____ |

704904694

VACUUM HOSE ROUTING

|                |                     |
|----------------|---------------------|
| ENGINE FAMILY: | EVAPORATION FAMILY: |
|                |                     |

**MOTORCYCLE NOISE EMISSION CONTROL INFORMATION**  
 THIS \_\_\_\_\_ MEETS U.S. EPA NOISE EMISSION REQUIREMENTS OF \_\_\_\_\_ db (A) AT \_\_\_\_\_ RPM BY THE FEDERAL TEST PROCEDURE. MODIFICATIONS WHICH CAUSE THIS MOTORCYCLE TO EXCEED FEDERAL NOISE STANDARDS ARE PROHIBITED BY FEDERAL LAW. SEE OPERATOR'S GUIDE.

704904694

LOCATED UNDER THE SEAT



## **D.E.S.S Key**

USA (FCC): "The wireless devices of this vehicle comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) These devices may not cause harmful interference, and 2) These devices must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canada (IC): "The wireless devices of this vehicle comply with Industry Canada license-exempt RSS-210 standard(s). Operation is subject to the following two conditions: (1) These devices may not cause interference, and (2) These devices must accept any interference, including interference that may cause undesired operation of the device.

Europe (CE): We, the party responsible for compliance, declare under our sole responsibility that the device is in conformity with the provisions of the following Council Directive: 1999/5/EC. To which this declaration relates is in conformity with the essential requirements and other relevant requirements. The product is in conformity with the following directives, harmonized standards and regulations: · Directive 1999/5/EC (R&TTE) · Harmonized Standards: · EN 301 489-3 · EN 300 330-2 · EN 50364

# SPECIFICATIONS

| MODEL               |                        |                                   |  | SPYDER RT  |     |                            |  |  |
|---------------------|------------------------|-----------------------------------|--|--|-----|----------------------------|--|--|
| <b>ENGINE</b>       |                        |                                   |  |  |     |                            |  |  |
| Engine type         |                        |                                   |  | ROTAX® 1330 ACE, 4-stroke, Dual Over Head Camshaft (DOHC), liquid cooled   |     |                            |  |  |
| Number of cylinders |                        |                                   |  | 3  |     |                            |  |  |
| Number of valves    |                        |                                   |  | 12   |     |                            |  |  |
| Bore                |                        |                                   |  | 84 mm (3.31 in)  |     |                            |  |  |
| Stroke              |                        |                                   |  | 80 mm (3.15 in)  |     |                            |  |  |
| Displacement        |                        |                                   |  | 1 330 cm <sup>3</sup> (81.16 in <sup>3</sup> )   |     |                            |  |  |
| Compression ratio   |                        |                                   |  | 12:1   |     |                            |  |  |
| Lubrication         | Type                   |                                   | Dry sump with separate oil tank and oil cooler |  |     |                            |  |  |
|                     | Oil filter             | Engine                            |  | BRP Rotax microglass fibre type, replaceable   |     |                            |  |  |
|                     |                        | Transmission/HCM                  |  | BRP Rotax multi-layer surface filter, replaceable  |     |                            |  |  |
|                     | Engine oil Capacity    | Oil change with new engine filter | SM6  | 4.9 L (5.2 qt (U.S. liq.))   |     |                            |  |  |
|                     |                        |                                   |  | Oil change with new engine and HCM filters   | SE6 | 5.3 L (5.6 qt (U.S. liq.)) |  |  |
|                     |                        | 5.6 L (5.9 qt (U.S. liq.))        |  |  |     |                            |  |  |
|                     | Recommended engine oil |                                   |  | XPS 4-STROKE SYNTH. BLEND OIL (SUMMER) (P/N 293 600 121) or a 5W40 semi-synthetic (minimum) or synthetic motorcycle oil meeting the requirements for API service SL, SJ, SH or SG classification |     |                            |  |  |
| Clutch              | Type                   |                                   | SM6  | Wet, multi-plate, manual operation through a hydraulic piston, vacuum assist   |     |                            |  |  |
|                     | Fluid                  |                                   |  | DOT 4  |     |                            |  |  |
|                     | Type                   |                                   | SE6  | Hydraulic clutch + wet multi-plate clutch automatically controlled by TCM  |     |                            |  |  |
|                     | Engagement             |                                   |  | 1100 RPM   |     |                            |  |  |
| Exhaust system      |                        |                                   |  | 3 into 1 with catalytic converter  |     |                            |  |  |
| Air filter          |                        |                                   |  | Paper element  |     |                            |  |  |
| <b>GEARBOX</b>      |                        |                                   |  |  |     |                            |  |  |
| Type                | SM6                    |                                   |  | Sequential Manual 6-speed (SM6) with remote electronic reverse interlock   |     |                            |  |  |
|                     | SE6                    |                                   |  | Sequential Electronic 6-speed (SE6) with reverse interlock   |     |                            |  |  |

| MODEL                       |                            | SPYDER RT  |          |
|-----------------------------|----------------------------|--|----------|
| <b>COOLING SYSTEM</b>       |                            |  |          |
| Type                        |                            | Liquid cooled, double radiator with cooling fans   |          |
| Coolant                     | Type                       | Ethyl glycol/water mix (50% coolant, 50% distilled water). Use premixed coolant sold by BRP LONG LIFE ANTIFREEZE (P/N 219 702 685) or coolant specifically designed for aluminum engines |          |
|                             | Capacity                   | 3.75 L (.99 U.S. gal.)   |          |
| <b>ELECTRICAL SYSTEM</b>    |                            |  |          |
| Ignition system type        |                            | Electronic ignition with dual output coil  |          |
| Ignition timing             |                            | Electronically controlled, not adjustable  |          |
| Spark plug                  | Quantity                   | 3  |          |
|                             | Make and type              | NGK MR7BI-8 (iridium) (apply heat-sink paste P12 (P/N 420 897 186) on spark plug threads)  |          |
|                             | Gap (not adjustable)       | 0.7 mm to 0.8 mm (.028 in to .031 in)  |          |
| Engine RPM limiter setting  | Forward                    | 8100 RPM with engaged drivetrain   |          |
|                             |                            | 7500 RPM with open clutch or on neutral  |          |
| Battery                     | Type                       | Maintenance free   |          |
|                             | Voltage                    | 12 volts   |          |
|                             | Nominal rating             | 21 A•h   |          |
|                             | Recommended charging rate  | 2 A  |          |
| Headlight — high beam       |                            | 2 x 65 W halogen (type H9)   |          |
| Headlight — low beam        |                            | 2 x 60 W halogen   |          |
| Taillight/brake light       | All models except Japanese | LED 3.1 W total  |          |
|                             | Japanese models only       | 2 x 21 W + LED 3.1 W   |          |
| Turn signal lights          | Front                      | LED 2 x 4.5 W each side  |          |
|                             | Rear                       | All models except Japanese   | 2 x 21 W |
|                             |                            | Japanese models only   | 2 x 10 W |
| Position lights             | Base model only            | 2 x 5 W  |          |
|                             | Japanese models only       | 2 x 21 W + LED 0.6 W   |          |
| License plate light         |                            | 5 W  |          |
| Backup light                |                            | 2 x 21 W   |          |
| Day light (Spyder RT-S/LTD) |                            | 2 x 0.5 W  |          |

**SPECIFICATIONS**

| <b>MODEL</b>                                      |                    | <b>SPYDER RT</b>  |
|---|--------------------|---|
| <b>ELECTRICAL SYSTEM (cont'd)</b>                 |                    |   |
| Front storage compartment light (Spyder RT-S/LTD) |                    | 0.2 W   |
| Fuses   |                    | Refer to <i>HOW TO REPLACE FUSES AND LIGHTS</i>   |
| <b>FUEL SYSTEM</b>                                |                    |   |
| Fuel delivery                                     | Type               | Multi-point Electronic Fuel Injection (EFI) with ETC (Electronic Throttle Control). Single throttle body (54 mm) with an actuator |
| Fuel pump   | Type               | Electrical module in fuel tank  |
| Idle speed  |                    | 900 RPM (electronically controlled, not adjustable)   |
| Fuel - Refer to <i>FUEL REQUIREMENTS</i>          | Type               | Premium unleaded gasoline   |
|   | Minimum octane     | 87 Pump Posted AKI (RON+MON)/2  |
|   |                    | 92 RON  |
|   | Recommended octane | 91 Pump Posted AKI (RON+MON)/2  |
| 95 RON  |                    |   |
| Fuel tank capacity                                |                    | 26 L (6.9 U.S. gal.)  |
| <b>DRIVE SYSTEM</b>                               |                    |   |
| Final drive type                                  |                    | Carbon reinforced drive belt  |
| Final drive ratio                                 |                    | 28/79   |
| <b>STEERING</b>                                   |                    |   |
| Type  |                    | Dynamic Power Steering (DPS)  |
| <b>FRONT SUSPENSION</b>                           |                    |   |
| Suspension type                                   |                    | Double A-arm with anti-roll bar   |
| Suspension travel                                 |                    | 174 mm (6.85 in)  |
| Shock absorber                                    | Qty                | 2   |
|   | Type               | Oil damper  |
| Spring preload adjustment                         |                    | Not adjustable  |
| <b>REAR SUSPENSION</b>                            |                    |   |
| Suspension type                                   | Base               | Swing arm with mono shock with a manually adjustable pneumatic preload  |
|   | RT-S, RT Limited   | Swing arm with mono shock. Air Controlled Suspension (ACS). Compressor-controlled with remote adjustment only                     |
| Suspension travel                                 |                    | 152 mm (5.98 in)  |
| Shock absorber                                    | Qty                | 1   |
|   | Type               | Oil damper  |

| MODEL  |          | SPYDER RT   |
|--|----------|---|
| <b>REAR SUSPENSION (cont'd)</b>                    |          |   |
| Preload adjustment<br>(ACS with manual adjustment) |          | Adjustable air pressure:135 kPa to 625 kPa<br>(20 PSI to 90 PSI)  |
| Preload adjustment<br>(ACS with remote adjustment) |          | 5 positions   |
| <b>BRAKES</b>                                      |          |   |
| Type   | Front    | 270 mm (11 in) rigid discs, radially mounted Brembo monobloc calipers 4-piston, 2-pad   |
|  | Rear     | 270 mm (11 in) disc, 1-piston floating caliper with integrated parking brake  |
| Front brake  |          | Dual rigid discs 270 mm (10.6 in), radially mounted Brembo monobloc, with 4 piston calipers, 2-pad  |
| Rear brake   |          | Single disc 270 mm (10.6 in) with 1 piston floating caliper with integrated parking brake   |
| Brake fluid  | Capacity | 530 ml (17.9 U.S. oz)   |
|  | Type     | DOT 4   |
| Parking brake                                      |          | Mechanical, electrically actuated to the rear caliper   |
| Minimum brake pad thickness                        |          | 1 mm (.04 in)   |
| Minimum brake disc thickness                       |          | 7 mm (.28 in)   |
| Maximum brake disc warpage                         |          | 0.1 mm (.004 in)  |
| <b>TIRES</b>                                       |          |   |
| Type (use only tires recommended by BRP)           | Front    | KR31 165/55R15  |
|  | Rear     | KR21 225/50R15  |
| Pressure   | Front    | Nominal: 138 kPa (20 PSI)<br>Min.: 124 kPa (18 PSI)<br>Max.: 152 kPa (22 PSI)   |
|  | Rear     | Nominal: 193 kPa (28 PSI)<br>Min.: 179 kPa (26 PSI)<br>Max.: 207 kPa (30 PSI)<br><b>NOTE:</b> The pressure difference between the left and right side tire should not exceed 3.4 kPa (.03 bar). |
| Minimum tire tread depth                           | Front    | 2.5 mm (3/32 in)  |
|  | Rear     | 4 mm (5/32 in)  |
| <b>WHEELS</b>                                      |          |   |
| Size<br>(diameter X width)                         | Front    | 381 mm (15 in) x 127 mm (5 in)  |
|  | Rear     | 381 mm (15 in) x 178 mm (7 in)  |
| Front wheel nuts torque                            |          | 105 N•m to 113 N•m (77 lbf•ft to 83 lbf•ft)   |
| Rear drive axle nut torque                         |          | 210 N•m to 240 N•m (155 lbf•ft to 177 lbf•ft)   |

**SPECIFICATIONS**

| <b>MODEL</b>  |                       | <b>SPYDER RT</b>      |                   |
|---|-----------------------|-----------------------|-------------------|
| <b>DIMENSIONS</b>   |                       |                       |                   |
| Overall length  |                       | 2 667 mm (105 in)     |                   |
| Overall width   |                       | 1 572 mm (61.9 in)    |                   |
| Overall height  |                       | 1 510 mm (59.4 in)    |                   |
| Seat (top) height   |                       | 772 mm (30.4 in)      |                   |
| Wheelbase   |                       | 1 714 mm (67.5 in)    |                   |
| Front wheel track   |                       | 1 384 mm (54.5 in)    |                   |
| Ground clearance, front and under engine  |                       | 115 mm (4.5 in)       |                   |
| <b>WEIGHT AND LOADING CAPACITY</b>  |                       |                       |                   |
| Dry weight  | Base                  | SM6                   | 459 kg (1,012 lb) |
|   |                       | SE6                   | 466 kg (1,027 lb) |
|   | RT-S                  | SM6                   | 464 kg (1,023 lb) |
|   |                       | SE6                   | 471 kg (1,038 lb) |
|   | LTD                   |                       | 477 kg (1,052 lb) |
| Front storage compartment   | Capacity              | 58 L (15.3 U.S. gal.) |                   |
|   | Maximum load          | 16 kg (35 lb)         |                   |
| Glove box   | Capacity              | 2 L (.5 U.S. gal.)    |                   |
| Side storage compartment  | Capacity              | 52 L (13.7 U.S. gal.) |                   |
|   | Maximum load          | 7 kg (15 lb)          |                   |
| Rear storage compartment  | Capacity              | 43 L (11.4 U.S. gal.) |                   |
|   | Maximum load          | 9 kg (20 lb)          |                   |
| Total vehicle load allowed (including operator, passenger, cargo and added accessories) |                       | 224 kg (494 lb)       |                   |
| Gross vehicle weight rating (GVWR)  | All models except LTD | 680 kg (1,499 lb)     |                   |
|   | LTD only              | 750 kg (1,653.5 lb)   |                   |
| Maximum weight on trailer tongue  |                       | 18 kg (40 lb)         |                   |
| Maximum towed weight (trailer and cargo)  |                       | 180 kg (400 lb)       |                   |

Because of our ongoing commitment to product quality and innovation, BRP reserves the right, at any time, to make changes in design and specifications and/or to make additions to, or improvements in its products without imposing any obligation upon itself to install them on its previously manufactured products.

# ***WARRANTY***

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# **BRP LIMITED WARRANTY OUTSIDE USA AND CANADA: 2015 Can-Am™ SPYDER™ ROADSTER**

## **1. SCOPE OF THE LIMITED WARRANTY**

Bombardier Recreational Products Inc. ("BRP")\* warrants its 2015 Can-Am Spyder roadsters (the "Products") sold by authorized Can-Am Spyder roadster distributors or dealers located in the EEA (the "EEA" or "European Economic Area" shall mean the countries member of the European Union plus Norway, Iceland and Liechtenstein) or elsewhere, except in the USA and Canada\*\* (the "Distributors/Dealers") from defects in material or workmanship for the period and under the conditions described below. This limited warranty will become null and void if: (1) the Product was used for racing or any other competitive activity, at any point, even by a previous owner; or (2) the odometer was removed or has been tampered with; (3) the Product was used off-road; or (4) the Product has been altered or modified in such a way so as to adversely affect its operation, performance or durability, or has been altered or modified to change its intended use.

All genuine parts and accessories related to the Product and installed on the Product by an authorized Distributor/Dealer at the time of delivery of the Product carry the same warranty as that of the Product.

## **2. LIMITATIONS OF LIABILITY**

JURISDICTIONS TO THE EXTENT PERMITTED BY LAW. THIS WARRANTY IS EXPRESSLY GIVEN AND ACCEPTED IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT THAT THEY CANNOT BE DISCLAIMED, THE IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE LIFE OF THE EXPRESS WARRANTY. ALL INCIDENTAL, CONSEQUENTIAL, DIRECT, INDIRECT OR OTHER DAMAGES OF ANY KIND ARE EXCLUDED FROM COVERAGE UNDER THIS WARRANTY. SOME JURISDICTIONS DO NOT ALLOW FOR THE DISCLAIMERS, LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR OTHER EXCLUSIONS IDENTIFIED ABOVE. AS A RESULT, THEY MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC RIGHTS, AND YOU MAY ALSO HAVE OTHER LEGAL RIGHTS WHICH MAY VARY FROM COUNTRY TO COUNTRY, OR JURISDICTION TO JURISDICTION. (FOR PRODUCTS PURCHASED IN AUSTRALIA SEE CLAUSE 4 BELOW).

Neither the authorized Distributors/Dealers nor any other person has been authorized to make any affirmation, representation or warranty regarding the Product, other than those contained in this limited warranty, and if made, shall not be enforceable against BRP. BRP reserves the right to modify this warranty at any time, being understood that such modification will not alter the warranty conditions applicable to the Products sold while this warranty is in effect.

## **3. EXCLUSIONS — ARE NOT WARRANTED**

The following are not warranted under this limited policy under any circumstances:

- Replacement of routine maintenance items such as, without limitation, oil and lubricants, filters and spark plugs.
- Normal wear and tear, such as, without limitation, wear and tear of the tires, battery, generator brushes, sealed beams and light bulbs, clutch plates and facings, drive belt, brake pads, brake linings and rotors and sprockets.



- Tune ups and adjustments including without limitation adjustments of belt, alignment and wheel balance.
- Damages related to the appearance of the Product, including without limitation scratches, dents, fading, flaking, peeling and damages to seat cover material.
- Damage caused by negligence or failure to provide proper maintenance and/or storage, as described in the *OPERATOR'S GUIDE*.
- Damage resulting from removal of parts, improper repairs, improper service or improper maintenance, modifications, alterations that are outside of the original specifications of the Product, or damage resulting from use of parts or accessories not manufactured or approved by BRP which in its reasonable judgement are either incompatible with the product or adversely affect its operation, performance or durability or resulting from repairs done by a person that is not an authorized servicing Distributor/Dealer.
- Damage resulting from the installation of parts with specifications that differ from the original Product parts, such as, without limitation, different tires, exhaust system, wheels or brakes.
- Damage resulting from abuse, abnormal use, neglect, racing or operation of the Product in a manner inconsistent with the recommendations of the *OPERATOR'S GUIDE*.
- Damage resulting from water ingestion, accident, road hazards, submersion, fire, theft, vandalism or any act of God.
- Damage resulting from operation with fuels, oils or lubricants with specifications different than as recommended in the *OPERATOR'S GUIDE*.
- Damage resulting from corrosion from road salts, battery acid, environmental influences or treatment contrary to the *OPERATOR'S GUIDE*.
- Incidental or consequential damages, including without limitation, expense for gasoline, expense for transporting the Product to and from the authorized Distributor/Dealer, mechanic's travel time, trailering or towing, storage, telephone, cell phone, fax or telegram charges, rental of a like or replacement Product during warranty services or down time, taxi, travel, lodging, loss of or damage to personal property, inconvenience, cost of insurance coverage, loan payments, loss of time, loss of income, revenue or profits, or loss of enjoyment or use of Product.

#### **4. WARRANTY COVERAGE PERIOD**

This warranty will be in effect from the date of delivery to the first retail consumer or the date the Product is first put into use, whichever occurs first and for the following periods:

- a. For private, recreational use, **TWENTY-FOUR (24) CONSECUTIVE MONTHS**, except for the items covered in points (2) and 3) below; and for commercial use **TWELVE (12) CONSECUTIVE MONTHS**, except for the items covered in points (2) and (3) below.

The Product is used commercially when it is used in connection with any work or employment that generates income, during any part of the warranty period. The Product is also used commercially when, at any point during the warranty period, it is licensed for commercial use;

- b. For the battery, **SIX (6) CONSECUTIVE MONTHS**;
- c. For the tires, **6 CONSECUTIVE MONTHS** or until tires are worn to the last three thirty-second of an inch (3/32 ") (2.38 millimeters) for the front tires and the last five thirty-second of an inch (5/32 ") (3.97 millimeters) for the rear tire, whichever occurs first.

The repair or replacement of parts or the performance of service under this warranty does not extend the life of this warranty beyond its original expiration date.

Note that the duration and any other modalities of the warranty coverage are subject to the applicable national or local legislation in the customer's country.

## **FOR PRODUCTS SOLD IN AUSTRALIA ONLY**

Nothing in these Warranty terms and conditions should be taken to exclude, restrict or modify the application of any condition, warranty, guarantee, right or remedy conferred or implied under the Competition and Consumer Act 2010 (Cth), including the Australian Consumer Law or any other law, where to do so would contravene that law, or cause any part of these terms and conditions to be void. The benefits given to you under this limited warranty are in addition to other rights and remedies that you have under Australian law.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

## **5. CONDITIONS TO HAVE WARRANTY COVERAGE**

This warranty coverage is available only if each of the following conditions has been fulfilled:

- The Product must be purchased as new and unused by its first owner from a Distributor/Dealer authorized to distribute the Product in the country in which the sale occurred;
- The BRP specified pre-delivery inspection process has been completed and documented by the purchaser and the authorized Distributor/Dealer and signed by the purchaser;
- The Product must have undergone proper warranty registration by an authorized Distributor/Dealer;
- The Product must be purchased in the country in which the purchaser resides. However, for residents of the EEA, they must purchase the Products within the EEA, irrespective of which country within the EEA. For the residents of the Commonwealth of Independent States ("CIS"), they must purchase the Products within the CIS, irrespective of which country within the CIS.
- Routine maintenance as outlined in the *OPERATOR'S GUIDE* must be performed in a timely manner. BRP reserves the right to make warranty coverage contingent upon proof of proper maintenance.

BRP will not honour this limited warranty to any private use owner or commercial use owner if one of the preceding conditions has not been met. Such limitations are necessary in order to allow BRP to preserve both the safety of its products, and also that of its consumers and the general public.

## **6. WHAT TO DO TO OBTAIN WARRANTY COVERAGE**

The customer must cease using the Product upon the appearance of an anomaly. The customer must notify an authorized servicing Distributor/Dealer within two (2) months of the appearance of a defect, and provide it with reasonable access to the Product and reasonable opportunity to repair it. The customer must also present to the authorized Distributor/Dealer, proof of purchase of the Product and must sign the repair/work order prior to starting the repair in order to validate the warranty repair. All parts replaced under this limited warranty become the property of BRP. Note that the notification period is subject to the applicable national or local legislation in customer's country.

## **7. WHAT BRP WILL DO**

To the extent permitted by law, BRP's obligations under this warranty are limited to, at its sole discretion, repairing parts found defective under normal use, maintenance and service, or replacing such parts with new genuine Product parts without charge for parts and labour, at any authorized Distributor/Dealer during the warranty coverage period under the conditions described herein. BRP's responsibility is limited to making the required repairs or replacements of parts. No claim of breach of warranty shall be cause for cancellation or rescission of the sale of the Product to the owner. You may have other legal rights which may vary from country to country.

In the event that service is required outside of the country of original sale, or for EEA residents, if service is required outside of the EEA, the owner will bear responsibility for any additional charges due to local practices and conditions, such as, but not limited to, freight, insurance, taxes, license fees, import duties, and any and all other financial charges, including those levied by governments, states, territories and their respective agencies.

BRP reserves the right to improve or modify products from time to time without assuming any obligation to modify all products previously manufactured.

## **8. TRANSFER**

If the ownership of a Product is transferred during the warranty coverage period, this warranty shall also be transferred and be valid for the remaining coverage period provided that BRP is notified of such transfer of ownership in the following way:

- (a) The former owner contacts BRP (at the phone number provided below) or an authorized Distributor/Dealer and gives the coordinates of the new owner; or
- (b) BRP or an authorized Distributor/Dealer receives a proof that the former owner agreed to the transfer of ownership, in addition to the coordinates of the new owner.

## **9. CONSUMER ASSISTANCE**

1. In the event of a controversy or a dispute in connection with this limited warranty, BRP suggests that you try to resolve the issue at the Distributor/Dealer level. We recommend discussing the issue with the authorized Distributor/Dealer's service manager or owner.
2. If further assistance is required, the Distributor/Dealer service department should be contacted in order to resolve the matter.
3. If the matter still remains unresolved then contact BRP by writing at the address listed below.

### **For countries within Europe, Middle East, Africa, Russia and CIS, please contact our European office:**

BRP EUROPE N.V.  
Customer Assistance Center  
Skaldenstraat 125  
9042 Gent  
Belgium  
Tel.: +32-9-218-26-00

### **For Scandinavian countries, please contact our Finland office:**

BRP FINLAND OY  
Service Department  
Isoaavantie 7  
FIN-96320 Rovaniemi  
Finland  
Tel.: +358 16 3208 111

### **For all other countries, please contact your local Distributor/Dealer or contact our Canadian Office at:**

BOMBARDIER RECREATIONAL PRODUCTS INC.  
Customer Assistance Center  
75 J.-A. Bombardier Street  
Sherbrooke, QC J1L 1W3  
Tel.: +1 819 566-3366

You will find your Distributor's/Dealer, coordinates on [www.brp.com](http://www.brp.com).

## **ADDITIONAL TERMS AND CONDITIONS FOR FRANCE ONLY**

The following terms and conditions are applicable to products sold in France only:

The seller shall deliver goods that are complying with the contract and shall be responsible for defects existing upon delivery. The seller shall also be responsible for defects resulting from packaging, assembling instructions or the installation when it is its responsibility per the contract or if accomplished under its responsibility. To be compliant with the contract, the good shall:

1. Be fit for normal use for goods similar thereto and, if applicable:
  - 1.1 Correspond to the description provided by the seller and have the qualities presented to the buyer through sample or model;
  - 1.2 Have the qualities that a buyer may legitimately expect considering the public declarations of the seller, the manufacturer of its representative, including in advertising or labeling; or
2. Have the characteristics mutually agreed upon as between the parties or be fit for the specific use intended by the buyer and brought to the attention of the seller and which accepted.

The action for failure to comply is prescribed after two years after delivery of the goods. The seller is responsible for the warranty for hidden defects of the good sold if such hidden defects are rendering the good unfit for the intended use, or if they diminish its use in such a way that the buyer would not have acquired the good or would have given a lesser price, had he known. The action for such hidden defects shall be taken by the buyer within 2 years of the discovery of the defect.

\* In the European Economic Area and elsewhere, Products are distributed and serviced by BRP European Distribution S.A. and other subsidiaries of BRP.

\*\* The BRP limited warranty offered on Products sold in the USA and Canada is different than the one offered in the EEA and elsewhere.

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# ***CUSTOMER INFORMATION***

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## PRIVACY INFORMATION

BRP wishes to inform you that your coordinates will be used for safety and warranty related purposes. Furthermore, BRP and its affiliates may use its customer list to distribute marketing and promotional information about BRP and related products.

To exercise your right to consult or correct your data, or to be removed from the addressee-list for direct marketing, please contact BRP.

By E-mail: [privacyofficer@brp.com](mailto:privacyofficer@brp.com)

By mail: BRP  
Senior Legal Counsel-Privacy Officer  
726 St-Joseph  
Valcourt QC  
Canada,  
J0E 2L0



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## CHANGE OF ADDRESS/OWNERSHIP

If your address has changed or if you are the new owner of the vehicle, be sure to notify BRP by either:

- Mailing one of the following card below;
- **North America Only:** calling at 715 848-4957 (USA) or 819 566-3366 (Canada);
- Notifying an authorized Can-Am roadster dealer.

In case of change of ownership, please join a proof that the former owner agreed to the transfer.

Notifying BRP, even after the expiration of the limited warranty, is very important as it enables BRP to reach the vehicle owner if necessary, like when safety recalls are initiated. It is the owner's responsibility to notify BRP.

**STOLEN UNITS:** If your personal vehicle is stolen, you should notify BRP or an authorized Can-Am roadster dealer. We will ask you to provide your name, address, phone number, the vehicle identification number and the date it was stolen.

### In North America

**BOMBARDIER RECREATIONAL PRODUCTS INC.**

Warranty Department  
75 J.-A. Bombardier Street  
Sherbrooke QC J1L 1W3  
Canada

### In Other Countries in the World

**BRP EUROPEAN DISTRIBUTION**

Warranty Department  
Chemin de Messidor 5-7  
1006 Lausanne  
Switzerland

### In Scandinavian Countries

**BRP FINLAND OY**

Service Department  
Isoaavantie 7  
Fin-96320 Rovaniemi  
Finland  
Tel.: +358 16 3208 111

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CHANGE OF ADDRESS

CHANGE OF OWNERSHIP



VEHICLE IDENTIFICATION NUMBER

Model Number

Vehicle Identification Number (V.I.N.)

OLD ADDRESS  
OR PREVIOUS OWNER:

NAME

NO. STREET APT

CITY STATE/PROVINCE ZIP/POSTAL CODE

COUNTRY TELEPHONE

NEW ADDRESS  
OR NEW OWNER:

NAME

NO. STREET APT

CITY STATE/PROVINCE ZIP/POSTAL CODE

COUNTRY TELEPHONE

E-MAIL ADDRESS

V00A2F

CHANGE OF ADDRESS

CHANGE OF OWNERSHIP



VEHICLE IDENTIFICATION NUMBER

Model Number

Vehicle Identification Number (V.I.N.)

OLD ADDRESS  
OR PREVIOUS OWNER:

NAME

NO. STREET APT

CITY STATE/PROVINCE ZIP/POSTAL CODE

COUNTRY TELEPHONE

NEW ADDRESS  
OR NEW OWNER:

NAME

NO. STREET APT

CITY STATE/PROVINCE ZIP/POSTAL CODE

COUNTRY TELEPHONE

E-MAIL ADDRESS

V00A2F

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# NOTES





# NOTES

 **WARNING**

**The Spyder roadster is a different type of vehicle—it requires special skills and knowledge. Learn how the Spyder roadster is different.**

**Read** this operator's guide and watch the safety DVD.

**Complete** a training course (if available), **practice**, become proficient with the controls, and get a proper license.

**Refer** to the Safety Card before riding.

**Always wear a helmet and riding gear.**

With this type of vehicle, riders are exposed to more road risks than in a car. Even skilled operators can be struck by other vehicles or lose control. This vehicle will not protect you in a crash.

**Handling limits and road Conditions.**

The Vehicle Stability System (VSS) cannot stop you from losing control, flipping over, or falling off if you exceed this vehicle's limits. Know the limits for different road conditions. Do not ride on ice, snow, or off road. Avoid puddles and running water. This type of vehicle can hydroplane on water and slip on gravel, dirt and sand covered roads. If you must go through these road conditions, slow down.

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OPERATOR'S GUIDE, SPYDER RT CE / ENGLISH  
GUIDE DU CONDUCTEUR, SPYDER RT CE / ANGLAIS

FAIT AU / MADE IN CANADA

U/M:P.C.