

**can-am**™



**2010**

**SPYDER**

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.

2 1 9 0 0 0 7 2 1

## CALIFORNIA PROPOSITION 65 WARNING



This product contains or emits chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.



In Canada, products are distributed by Bombardier Recreational Products Inc.

In USA, products are distributed by BRP US Inc.

This is a non-exhaustive list of trademarks that are the property of Bombardier Recreational Products Inc. or its affiliates:

4-TEC™

Rotax®

Spyder™

XPST™

This Operator's Guide is an independent publication and has not been authorized, sponsored, or otherwise approved by Apple Inc.

iPod is a trademark of Apple Inc.

# HOW TO USE THIS OPERATOR'S GUIDE

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 (p. 8)*
- *CONTROLS AND INSTRUMENTS (p. 9)*
- *SAFE OPERATING INSTRUCTIONS (p. 51)*
- *PRE-RIDE INSPECTION (p. 103)*

Experienced motorcyclists should pay special attention to *WHAT'S DIFFERENT ABOUT THE SPYDER ROADSTER (p. 52)*.

## Safety Messages

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

### **WARNING**

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* 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; see also *SAFETY CARD* (p. 98) and watch the *SAFETY DVD*.

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 some of MSF 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).

---

# TABLE OF CONTENTS

<b>HOW TO USE THIS OPERATOR'S GUIDE</b> .....	<b>1</b>
Know Before you Go .....	1
Safety Messages .....	1
About this Operator's Guide .....	1
Refer to Other Sources of Information .....	2
Acknowledgment .....	2

<b>GENERAL PRECAUTIONS</b> .....	<b>8</b>
Avoid Carbon Monoxide Poisoning .....	8
Avoid Gasoline Fires and Other Hazards .....	8
Avoid Burns from Hot Parts .....	8
Accessories and Modifications .....	8

## ***CONTROLS AND INSTRUMENTS***

<b>PRIMARY CONTROLS</b> .....	<b>10</b>
1) Handlebar .....	11
2) Throttle .....	11
3) Clutch Lever (SM5 Model) .....	12
4) Gearshift Lever (SM5 Model) .....	12
5) Gearshift Selector (SE5 Model) .....	13
6) Brake Pedal .....	13
7) Parking Brake Switch .....	14

<b>SECONDARY CONTROLS</b> .....	<b>15</b>
1) Ignition Switch .....	15
2) Engine Start Button .....	16
3) Engine Stop Switch .....	16
4) Hazard Warning Switch .....	16
5) Cruise Control Switch .....	16
6) Headlight Switch .....	19
7) Turn Signal Button .....	19
8) Horn Button .....	20
9) Windshield Adjustment Button .....	20
10) RECC (Roadster Electronic Command Center) .....	20
11) Reverse Button .....	21
12) PTT (Push to Talk) Button .....	21
13) Switch Cluster .....	22

<b>PASSENGER CONTROLS</b> .....	<b>25</b>
Passenger Heated Grip Switch .....	25
Passenger Audio Control (Option Package) .....	25

<b>MULTIFUNCTION GAUGE</b> .....	<b>26</b>
Multifunction Gauge Description .....	26
Multifunction Gauge Startup Information .....	27
Digital Display Description .....	28
Navigating in the Digital Display .....	29
Category Icon Screen Description .....	30

<b>ANALOG GAUGES (OPTION PACKAGE)</b> .....	<b>35</b>
Engine Coolant Temperature Gauge.....	35
Fuel Level Gauge.....	35

**VEHICLE INFORMATION**

<b>BASIC PROCEDURES</b> .....	<b>38</b>
Adjusting Mirrors.....	38
Locking the Handlebar/Glove Box.....	38
Opening the Front Storage Compartment.....	38
Opening the Glove Box.....	39
Opening the Seat.....	39
Opening the Side Storage Compartments.....	40
Opening the Top Storage Compartment.....	41
Securing a Helmet.....	42
Adjusting the Passenger Footpeg.....	42
Starting and Stopping the Engine.....	42
Operating in Reverse.....	44
Operating During Break-In.....	44
Fueling.....	45
Adjusting Suspension.....	46
Using the 12 V Power Outlet.....	49
Using the Audio In Jack.....	49

**SAFE OPERATING INSTRUCTIONS**

<b>WHAT'S DIFFERENT ABOUT THE SPYDER ROADSTER</b> .....	<b>52</b>
Stability.....	52
Response to Road Conditions.....	52
Brake Pedal.....	52
Parking Brake.....	52
Steering.....	52
Width.....	53
Reverse.....	53
Driver's License and Local Laws.....	53
<b>DRIVING AID TECHNOLOGIES</b> .....	<b>54</b>
Vehicle Stability System (VSS).....	54
Dynamic Power Steering (DPS).....	55
<b>UNDERSTANDING RISK ON THE ROAD</b> .....	<b>56</b>
Type of Vehicle.....	56
Operator Skills and Judgment.....	56
Rider Condition.....	56
Vehicle Condition.....	57
Road and Weather Conditions.....	57
<b>RIDING GEAR</b> .....	<b>58</b>
Helmets.....	58

<b>RIDING GEAR</b> (cont'd)	
Other Riding Gear .....	58
<b>REQUIRED RIDING SKILLS AND PRACTICE EXERCISES</b> .....	<b>61</b>
Choosing a Practice Area .....	61
Preparing to Ride .....	62
Riding Posture .....	62
Practice Exercises (SM5 Model) .....	62
Practice Exercises (SE5 Model) .....	71
Developing Advanced Riding Skills .....	78
<b>STREET STRATEGIES</b> .....	<b>79</b>
Plan your Trip .....	79
Defensive Riding .....	79
Being Visible .....	80
Lane Position .....	81
Common Riding Situations .....	81
Road Conditions and Hazards .....	84
On-Road Emergencies .....	85
Tire Failure .....	86
<b>CARRYING A PASSENGER, CARGO OR TOWING A TRAILER</b> .....	<b>87</b>
Weight Limits .....	87
Operating with Extra Weight .....	87
Carrying a Passenger .....	87
Where to Store Cargo .....	88
Towing a Trailer .....	89
<b>KNOWLEDGE SELF-TEST</b> .....	<b>93</b>
Questionnaire .....	93
Answers .....	95
<b>SAFETY INFORMATION ON THE VEHICLE</b> .....	<b>97</b>
Hang Tag .....	97
Safety Card .....	98
Safety Labels .....	99
<b>REPORTING SAFETY DEFECTS</b> .....	<b>102</b>

### ***PRE-RIDE INSPECTION***

<b>PRE-RIDE CHECKLIST</b> .....	<b>104</b>
---------------------------------	------------

### ***TRANSPORTING AND STORING***

<b>TRANSPORTING THE SPYDER ROADSTER</b> .....	<b>106</b>
<b>STORING THE SPYDER ROADSTER</b> .....	<b>108</b>

**MAINTENANCE**

**MAINTENANCE SCHEDULE** ..... **110**

**BREAK-IN INSPECTION** ..... **114**

**MAINTENANCE PROCEDURES** ..... **115**

    Tool Kit ..... 115

    Body Panels ..... 115

    Tires ..... 119

    Drive Belt ..... 121

    Engine Oil ..... 122

    Engine Oil Filter ..... 125

    HCM Oil Filter (SE5 Model) ..... 126

    Air Filter ..... 126

    Engine Coolant ..... 128

    Brakes ..... 129

    Battery ..... 130

    Clutch Fluid (SM5 Model) ..... 131

    Headlights and Fog Lights ..... 132

    Vehicle Body ..... 134

**ROAD SIDE REPAIRS**

**PROBLEMS** ..... **136**

    Will not Shift into First Gear (SM5 Model) ..... 136

    Will not Shift into Neutral (SE5 Model) ..... 136

    Will not Shift (SE5 Model) ..... 136

    Lost Keys ..... 137

    Cannot Open the Side Storage Compartment ..... 137

    Flat Tire ..... 137

    Dead Battery ..... 138

    Electrical Accessories Failure ..... 139

    Light Failure ..... 141

    Engine Does Not Start ..... 147

**MESSAGES IN MULTIFUNCTION GAUGE** ..... **148**

**TECHNICAL INFORMATION**

**VEHICLE IDENTIFICATION** ..... **152**

    Vehicle Identification Number ..... 152

    Engine Identification Number ..... 152

    EPA Compliance Label (USA) ..... 152

**SPECIFICATIONS** ..... **153**

**WARRANTY**

**BRP LIMITED WARRANTY — USA AND CANADA: 2010 Can-Am™ SPYDER™ ROADSTER ..... 160**  
**BRP LIMITED WARRANTY OUTSIDE USA AND CANADA: 2010 Can-Am™ SPYDER™ ROADSTER ..... 165**

**CUSTOMER INFORMATION**

**PRIVACY INFORMATION ..... 172**  
**CHANGE OF ADDRESS/OWNERSHIP ..... 173**

---

# 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, anyone smoking 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 system 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.

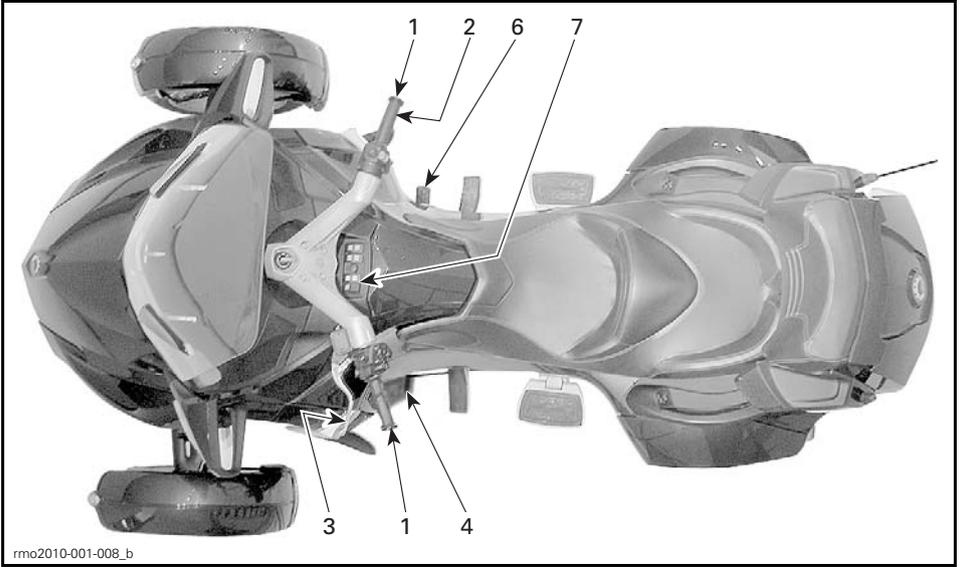
Unlike most motorcycles, the Spyder roadster is equipped with a Vehicle Stability System (VSS), which is calibrated for the vehicle normal configuration. VSS may not function properly if the vehicle is modified, such as changing weight distribution, wheelbase, tires, suspension or steering.

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

# ***CONTROLS AND INSTRUMENTS***

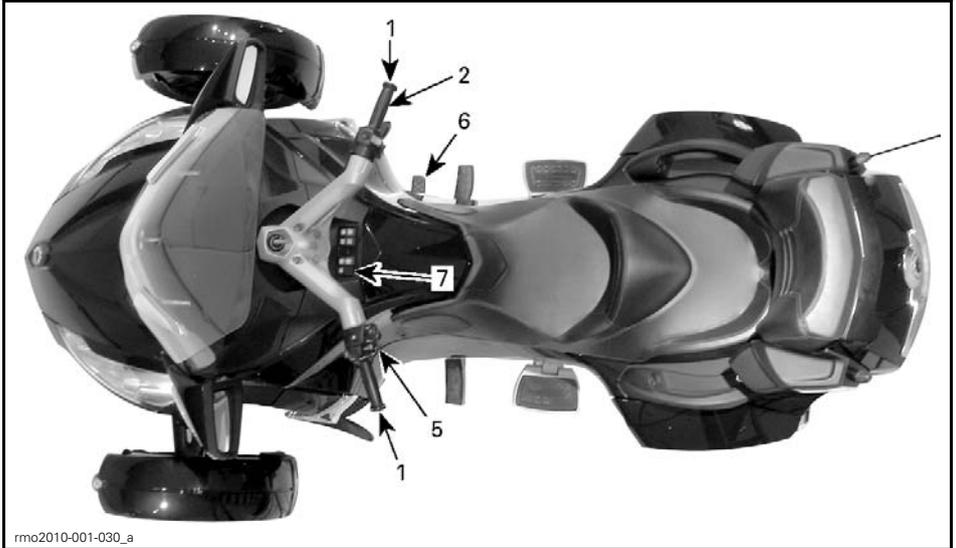
# PRIMARY CONTROLS

Many controls are similar to the controls of a motorcycle, but some controls are different. It is important to know the location and operation of all controls, and to develop and practice smooth and coordinated use of them. See *REQUIRED RIDING SKILLS AND PRACTICE EXERCISES* (p. 61).



SM5 MODEL

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



rmo2010-001-030\_a

**SE5 MODEL**

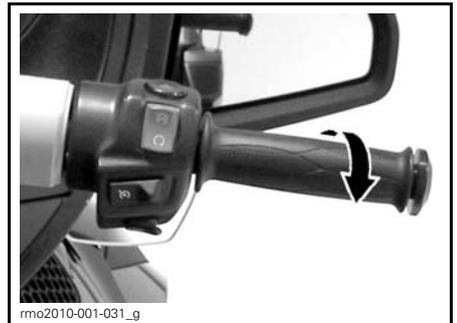
1	Handlebar
2	Throttle
5	Gearshift Selector
6	Brake Pedal
7	Parking Brake Switch

**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).



rmo2010-001-031\_g

**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 the engine acceleration to maintain the 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 (SM5 Model)**

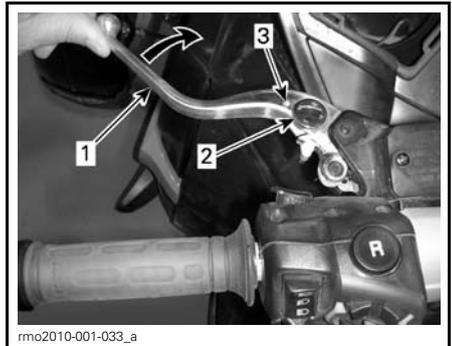
The clutch lever is in front of the left handgrip. The clutch controls the transmission of power from the engine to the rear wheel. The lever is squeezed in to disengage power and eased out to engage power.

Refer to 2) *LEARNING THE FRICTION ZONE AND BASIC HANDLING* (p. 63) for detailed instructions.

**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 (SM5 Model)**

The gearshift lever is in front of the left footrest.

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



Lift up or press down 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. Refer to *8) SHIFTING (p. 67)* for detailed instructions.

To shift into reverse, refer to *10) OPERATING IN REVERSE (p. 70)* for detailed instructions.

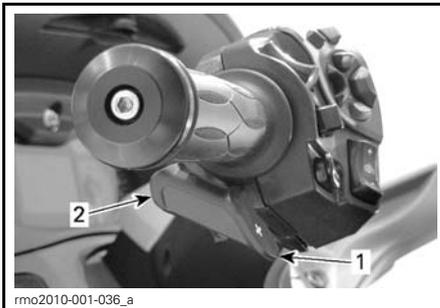
## 5) Gearshift Selector (SE5 Model)

The gearshift selector is below the left handgrip.



1. Gearshift selector

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. Refer to *7) SHIFTING (p. 75)* for detailed instructions.

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.

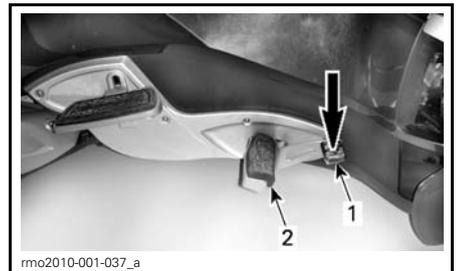
If the engine is started with gearbox in gear, it will automatically shift to neutral position.

**NOTE:** When a trailer is towed, the trailer mode must be activated to adapt the gear changes. Refer to *SETTING THE TRAILER MODE (p. 90)*.

**NOTICE** If the trailer mode is not activated when towing a trailer, engine components might be damaged.

## 6) Brake Pedal

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



1. Brake pedal
2. Footpeg

## 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. Press here



1. Parking brake switch

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

### Applying Parking Brake

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



1. Press here

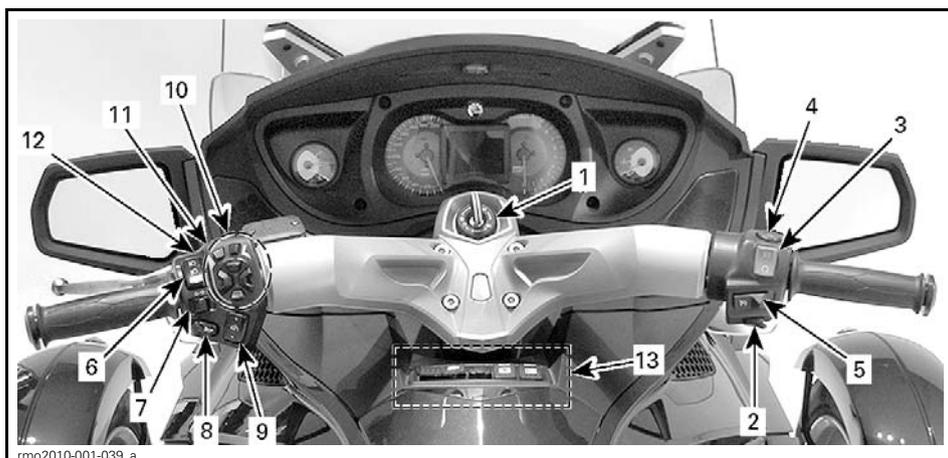
**NOTE:** The parking brake cannot be activated when the vehicle is above 10 km/h (6 MPH).

Check that the parking brake is fully engaged. Hold the clutch (on SM5 models) and rock the vehicle back and forth.

### Releasing Parking Brake

To release parking brake, press switch until brake indicator lamp turns OFF.

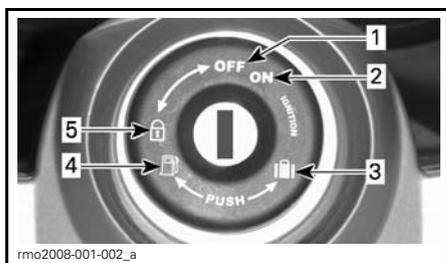
# SECONDARY CONTROLS



rmo2010-001-039\_a

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



rmo2008-001-002\_a

### 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
  - Fuses
  - Brake fluid reservoirs
  - Battery terminals.
- Front storage compartment opening mechanism
- Steering/glove box lock mechanism.

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

**⚠ WARNING**

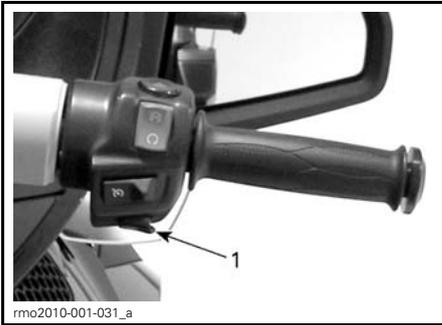
If you turn the ignition switch to OFF, it shuts off the engine and all the electrical systems including the VSS, EBD and DPS. If you do this while the vehicle is moving, you could lose control and crash.

Two keys are provided with your vehicle. Each key contains a transponder chip specifically pre-programmed to allow starting the engine. 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.

**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.

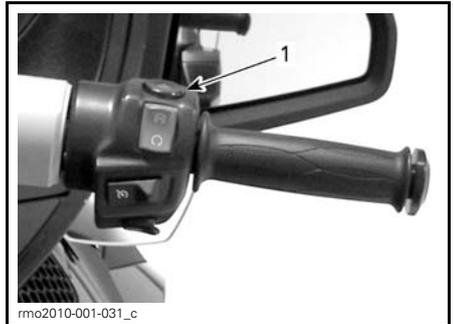


1. Engine stop switch

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.

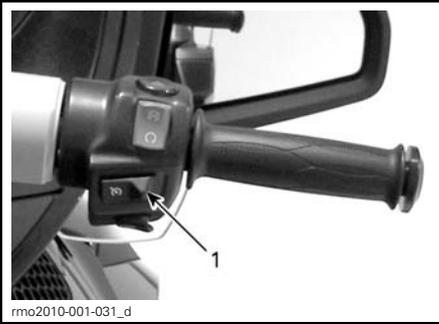


1. Hazard warning switch

Push the button down 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 speed 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.

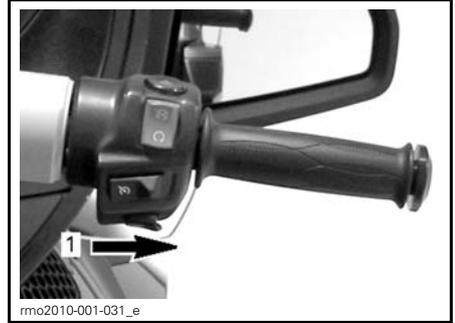
### **⚠ WARNING**

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 25 km/h (15 MPH).

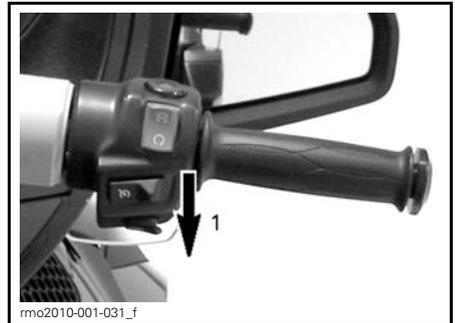
Turn the cruise control to ON by sliding the cruise control button to the right.



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.

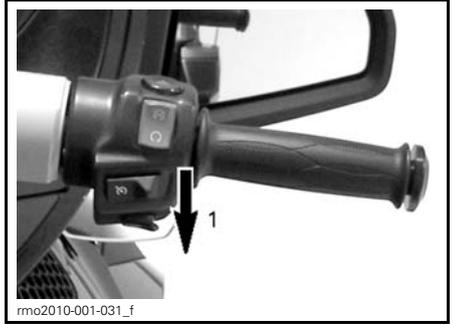
You can now release the throttle.

**WARNING**

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

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

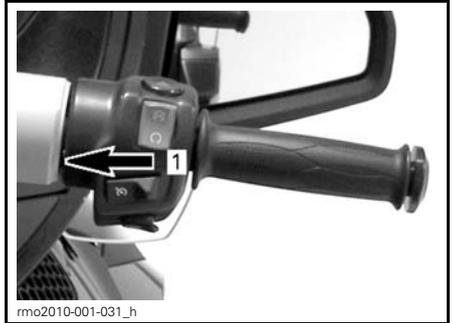
Once the cruise control has been set, the speed setting may be increased or reduced by pushing up or down the button. Each press of the button will change the speed setting by increments of 1.6 km/h (1 MPH). Holding the button will change the speed setting until released or the operating limit has been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



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

**Stopping the Cruise Control**

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



1. Slide button to OFF



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

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

**Cancelling the Cruise Control**

Any of the following event will cancel the cruise control and give you back the throttle control. It then can be resumed if desired.

- Pressing the brake pedal.
- Squeezing the clutch lever or if clutch slippage occurs (SE5 models).
- Gear change (SE5 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.



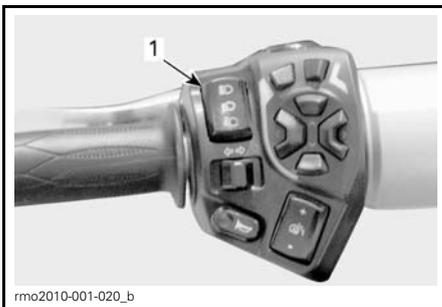
### CRUISE CONTROL PREVIOUSLY CANCELLED

1. Push up button to RESUME

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

## 6) Headlight Switch

The switch is near the left handgrip.

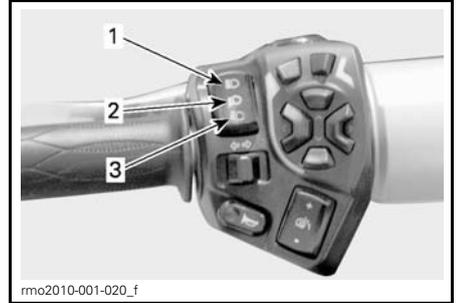


1. Headlight switch

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 down position.

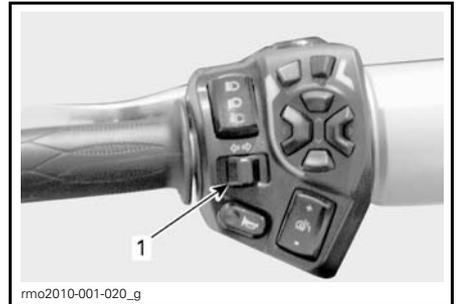
To flash the high beams, press the switch to the down position, then release it. The high beams will stay on as long as the switch is held.



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

## 7) Turn Signal Button

The turn signal button is located near the left handgrip.



1. Turn signal button

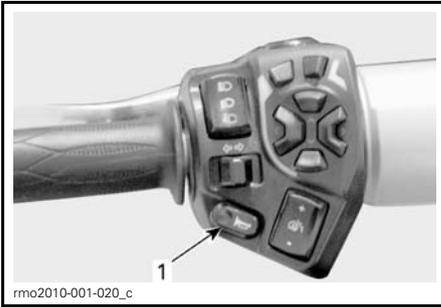
The turn signal button turns off automatically after a normal turn, but you may have to turn it off manually after a shallow turn or lane change.

To turn the signal off, press the button in.

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

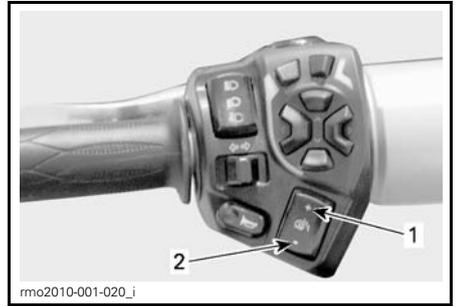
## 8) Horn Button

The horn button is located near the left handgrip.



1. Horn button

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



1. To raise windshield  
2. To lower windshield

## 9) Windshield Adjustment Button

The windshield adjustment button is located near the left handgrip.



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.

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

## 10) RECC (Roadster Electronic Command Center)

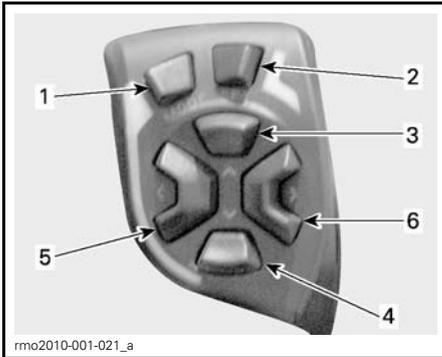
The RECC is located near the left handgrip.



1. RECC

The RECC is a multifunction switch.

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

**RECC BUTTONS**

1. **MODE button:** *Navigate through the screens*
2. **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*
3. **UP button:** *Increase the volume (audio) or a value*
4. **DOWN button:** *Decrease the volume (audio) or a value*
5. **LEFT button:** *Move the screen arrows to the left to select a secondary menu or a setting*
6. **RIGHT button:** *Move the screen arrows to the right to select a secondary menu or a setting*


**WARNING**

Using the buttons can distract the driver from the operation of the vehicle. Always use buttons with caution and keep on observing the traffic.

**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.

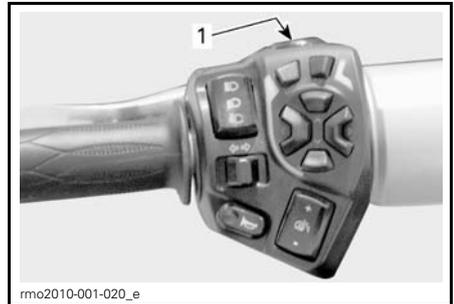
**NOTE:** The audio volume level can be self-adjusting according to the automatic volume control setting as set in the *PREFERENCES SCREEN* (p. 33).

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.



1. Reverse button

Push and hold the reverse button to allow shifting into reverse. Refer to *OPERATING IN REVERSE* (p. 44) 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.



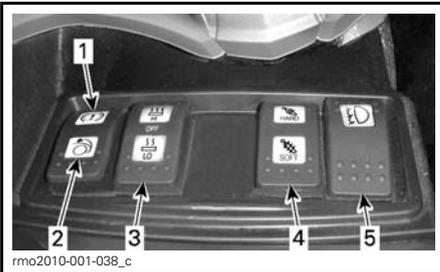
1. PTT button

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)
5. Fog light switch (option package)

### Parking Brake Switch



1. Parking brake switch

Refer to 7) *PARKING BRAKE SWITCH* (p. 14) for detailed instructions.

### Front Storage Compartment Switch (Option Package)

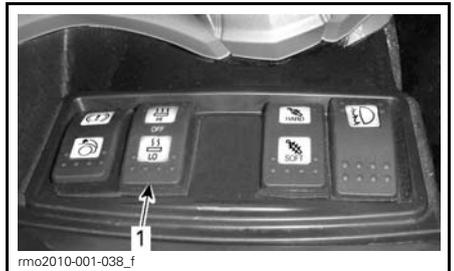


1. Front storage compartment switch

The switch allows to release the front storage compartment latch to open the cover.

Press the switch to unlock.

### Driver's Heated Grip Switch



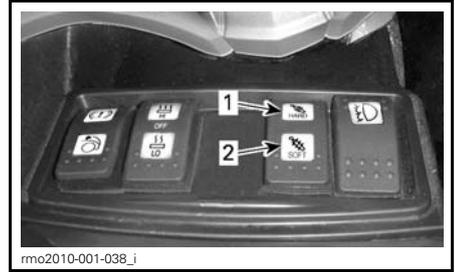
1. Heated grip switch

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 in the middle position.



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

To change the ACS suspension setting, refer to *ACS REAR SUSPENSION ADJUSTMENT(WITH REMOTE ADJUSTMENT)* (p. 47).

**Fog Light Switch (Option Package)**



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

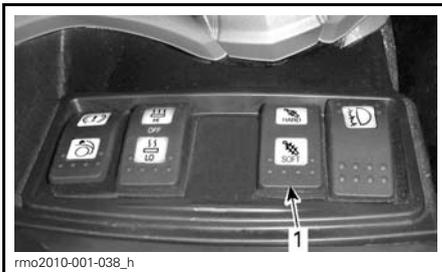
**NOTE:** The heated grips will automatically turn off when ignition key is turned to OFF.

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



1. Fog light switch

Press on the switch icon to turn on the fog lights.



1. ACS switch

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



1. Press here to turn on

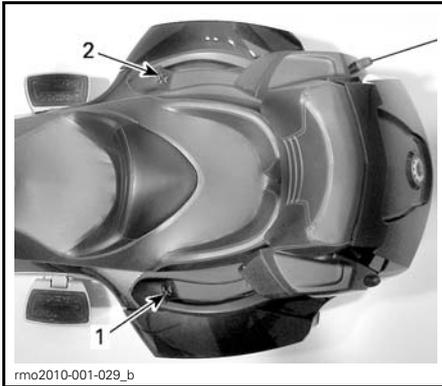
Press the switch to the opposite icon side to turn off the fog lights.



rmo2010-001-038\_m

1. *Press here to turn off*

# PASSENGER CONTROLS



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

## Passenger Heated Grip Switch

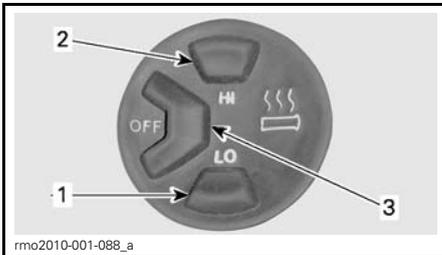
The heated grip switch is located near the left passenger grip.

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.

For maximum heat, press the HI intensity button.

To select the OFF position, press the OFF button.

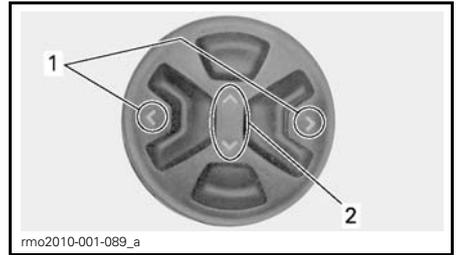


1. LO intensity
2. HI intensity
3. OFF

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

## Passenger Audio Control (Option Package)

The audio control is located near the right passenger grip.



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

The passenger audio control allows 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.

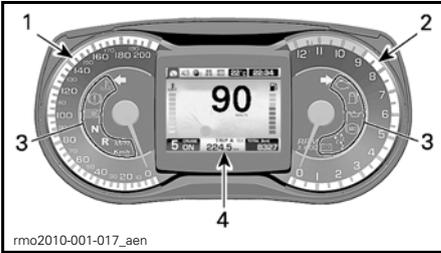
# MULTIFUNCTION GAUGE

## **⚠ 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* (p. 33).

### **2) Analog Tachometer (RPM)**

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

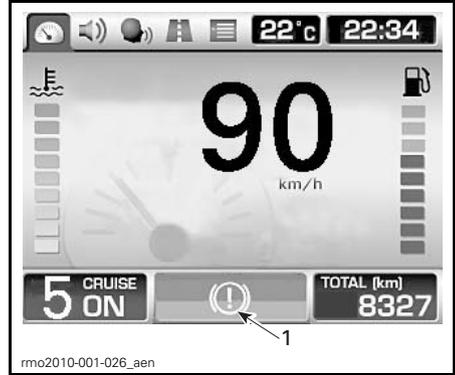
### **3) Indicator Lamps**

Indicator lamps will inform you of various conditions or problems.

An indicator lamp can be on or flash alone or in combination with another lamp.

The digital display provides a brief description for some of the conditions or problems indicated by lamps. After a moment, the message will disappear

then the indicator lamp icon will be displayed in the bottom center area of the digital display.



1. Indicator lamp icon

The following table lists the indicator lamps during normal operation. For problematic conditions, refer to *MESSAGES IN MULTIFUNCTION GAUGE* (p. 148).

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	SE5 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 occurs
	Flashing	None	Left side turn signal. Left and right side indicator lights flash at the same time: hazard warning lights
	Flashing	None	Right side turn signal. 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.

For a complete description of the digital display, refer to *DIGITAL DISPLAY DESCRIPTION* (p. 28).

Important information messages can also be displayed, refer to *MESSAGES IN MULTIFUNCTION GAUGE* (p. 148).

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.

#### 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.

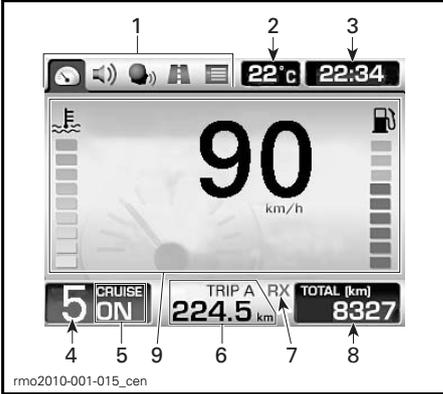
Any time the ignition switch is turned ON after having been in the OFF position for 5 minutes or more, the digital display will show the following message:

- 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
5. Cruise control status
6. Trip meter
7. CB communication status (optional)
8. Odometer
9. Main screen

### 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 (option package)
	CB (optional)
	Trip meter
	Preferences (only available when vehicle is stopped, except for the trailer mode)

For a complete description, refer to *CATEGORY ICON SCREEN DESCRIPTION* (p. 30).

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 *10) RECC (ROADSTER ELECTRONIC COMMAND CENTER)* (p. 20).

### 2) Ambient Temperature

The ambient air temperature is displayed in °C or °F. To change units, refer to *PREFERENCES SCREEN* (p. 33).

### 3) Clock

The current time is displayed in 24h or am/pm format. To change the format, refer to *PREFERENCES SCREEN* (p. 33).

### 4) Gearbox Position

Displays the selected gearbox position.

### 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.

Displays OFF when the cruise control is not in use.

### 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* (p. 33).

### 7) CB Communication Status (Optional)

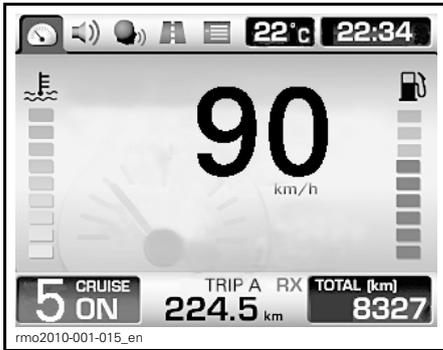
Displays whether the CB (citizens' band) is receiving (RX) or transmitting (TX).

### 8) Odometer

Total distance travelled in kilometers or miles since the delivery from the factory. To change units, refer to *PREFERENCES SCREEN* (p. 33).

### 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* (p. 30).

## 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.

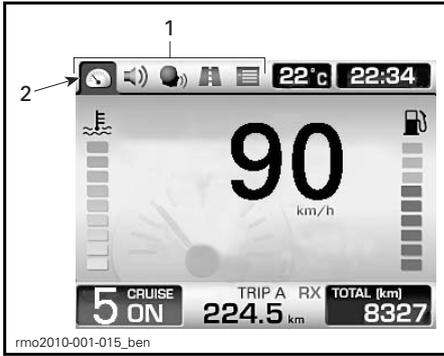
Use the RECC (Roadster Electronic Command Center) to control the display functions. Refer to *10) RECC (ROADSTER ELECTRONIC COMMAND CENTER)* (p. 20).



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 Audio or CB icons are skipped when the vehicle is not equipped with these features. The Preferences screen is skipped when vehicle is above 5 km/h (3 MPH), except for the SE5 model for the towing mode.



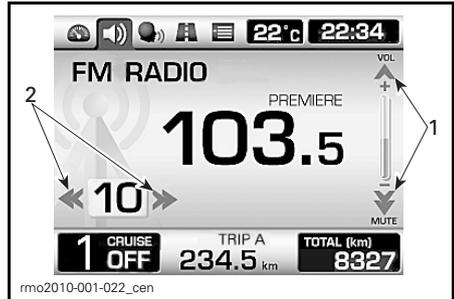
1. Category icons
2. Default riding icon selected

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.



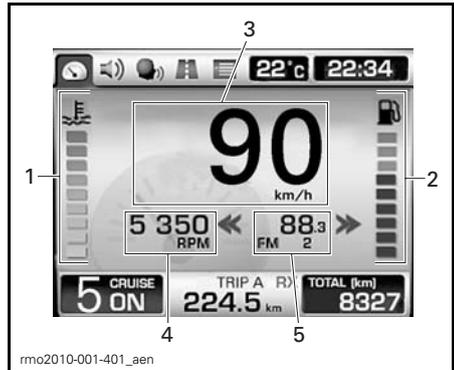
1. Use the UP/DOWN button to select the vertical arrows
2. Use the LEFT/RIGHT button to select the horizontal arrows

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 number or radio frequency (not factory set)

**NOTE:** From factory, only the vehicle speed is displayed. Two areas at the bottom can be used to display 2 of these 3 functions: Engine speed, radio current preset or radio current frequency. To change the display, refer to *PREFERENCES SCREEN* (p. 33).

### 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.

### 3) Digital Speedometer

Displays vehicle speed in kilometers (km/h) or miles per hour (MPH). To change units, refer to *PREFERENCES SCREEN* (p. 33).

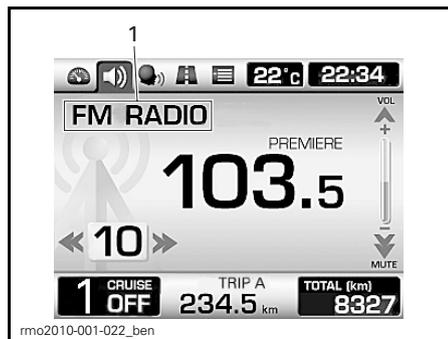
### 4) Engine Speed

Displays engine speed in revolutions per minute (RPM).

### Audio Screen (Option)

This screen is only available when an audio system is installed.

The audio screen will appear with its last configuration.

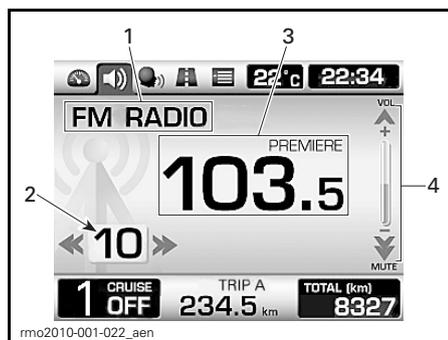


1. Current selected audio device

Repeatedly pressing the SET button will display the available audio devices in this order: FM, AM, WX (weather channel), AUX (iPod mobile digital device or MP3 player) and XM (satellite radio). When the last device is reached, the first device will then reappear when pressing the SET button.

**NOTE:** The XM radio will only appear if a satellite radio is installed. If an iPod mobile digital device is connected, "iPod" will be displayed instead of AUX.

### Radio (FM, AM, XM, WX)



#### FM RADIO SHOWN

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

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.

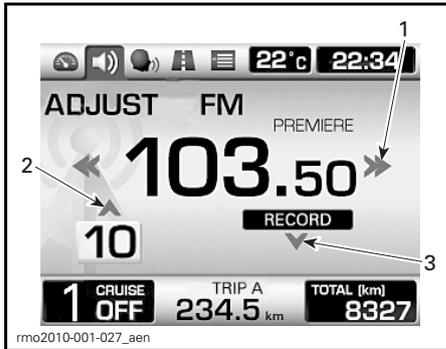
Press the SET button and hold for more than one second to enter the setup screen.

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

**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.



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

While riding, the available radio functions are:

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

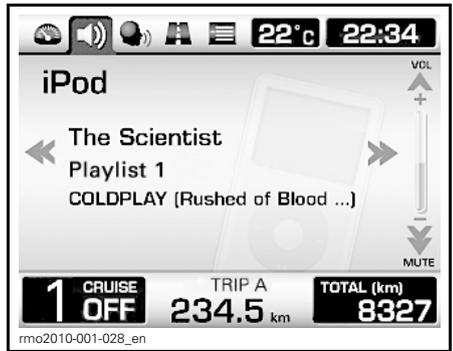
**NOTE:** The radio is always ON. Use the MUTE function to cancel the volume.

**iPod Mobile Digital Device or AUX**

Select the AUX screen when a MP3 player is connected to the vehicle audio connector (option package). It will play as set at the time of the connection. Only the volume control will be available.

Select iPod when an iPod mobile digital device is connected to the vehicle compatible connector (option package).

In the "iPod" 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.

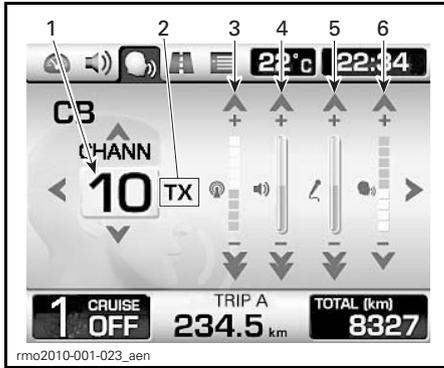
While riding, the available functions are:

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

**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.



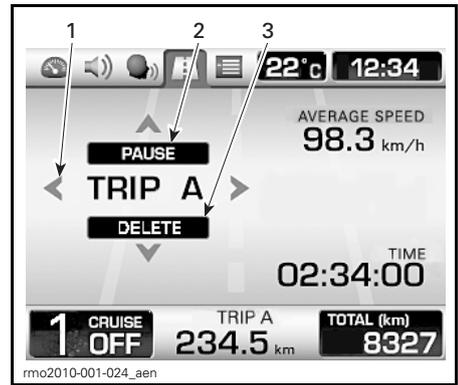
1. Current channel
2. CB communication status:RX (receiving), TX (transmitting) and OFF
3. Squelch adjustment
4. Volume adjustment
5. Intercom volume adjustment (i-com)
6. Voice activation sensitivity adjustment (vox)

Use the LEFT/RIGHT buttons to select the item to change (channel, squelch, headset 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.

## Trip Meter Screen



### TYPICAL

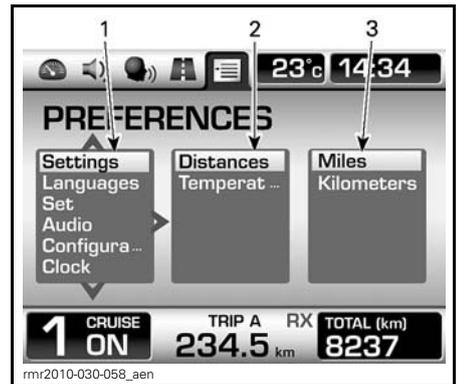
1. Display selection: Trip A or Trip B
2. Pause or resume the selected trip meter
3. Reset the selected trip meter

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

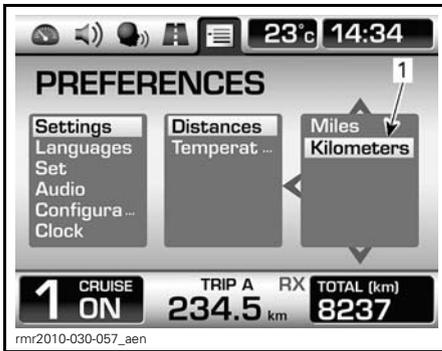
This screen is only available when vehicle is stopped.

**NOTE:** On SE5 model, the trailer mode in the *PREFERENCES SCREEN* is available while riding.

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.

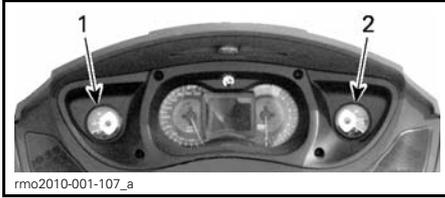


1. The selected value will be set

**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.

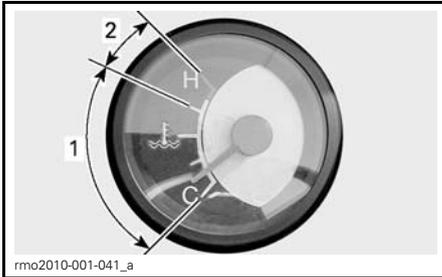
# ANALOG GAUGES (OPTION PACKAGE)



1. Engine coolant temperature gauge
2. Fuel level gauge

## 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.

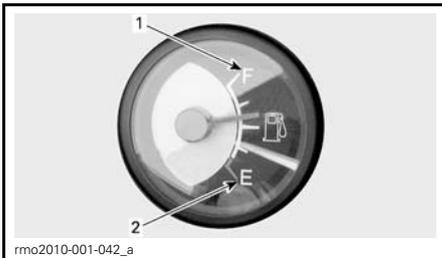


### COOLANT TEMPERATURE

1. Normal operating range
2. Overheat

## Fuel Level Gauge

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



### FUEL LEVEL

1. Full
2. Empty

***This page is  
intentionally blank***

# ***VEHICLE INFORMATION***

# BASIC PROCEDURES

## Adjusting Mirrors

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



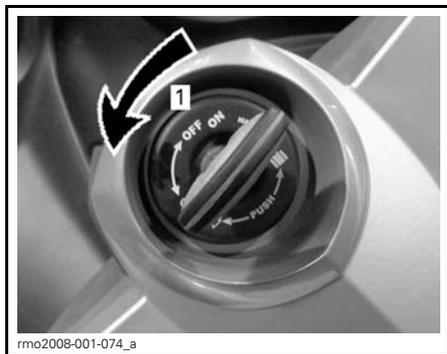
rmo2010-001-043\_a

MIRROR ADJUSTMENT POINTS

## 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.



rmo2008-001-074\_a

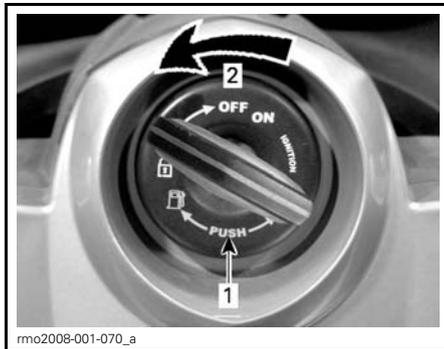
KEY POSITION TO LOCK HANDLEBAR

1. Turn key 1/4 turn

## Opening the Front Storage Compartment

### Using the Ignition Switch

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.



rmo2008-001-070\_a

KEY POSITION TO OPEN FRONT STORAGE COMPARTMENT

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



rmo2010-001-044

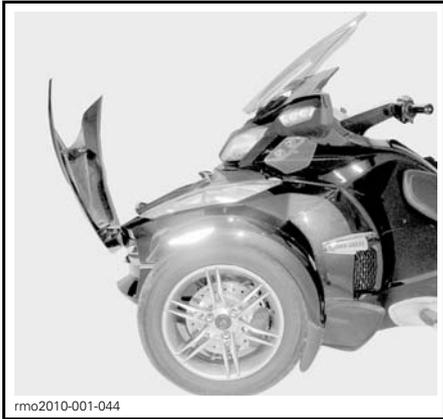
FRONT STORAGE COMPARTMENT OPENED

## Using the Front Storage Compartment Switch (Option Package)

1. Push on the switch as shown.



1. Push here
2. The front storage compartment cover will release from its lock.

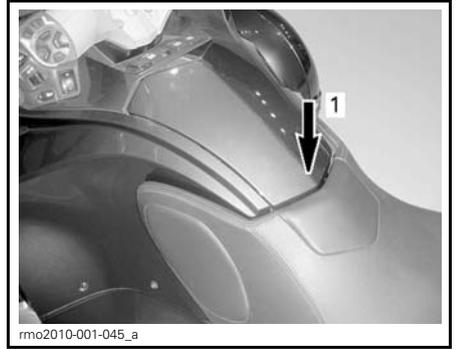


**FRONT STORAGE COMPARTMENT OPENED**

## Opening the Glove Box

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

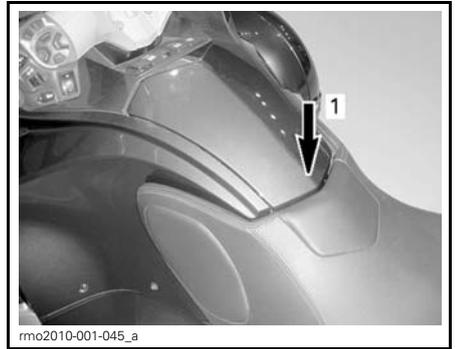
Push on the lower end of glove box to release it.



1. Push here to release

Open cover.

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



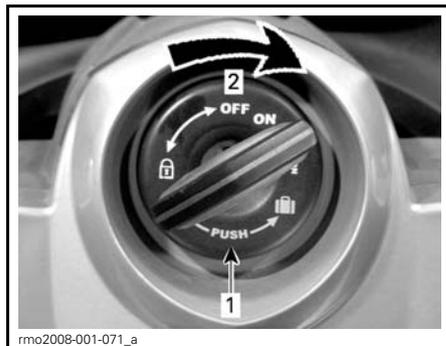
1. Push here to latch

Always latch the glove box after usage.

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

## Opening the Seat

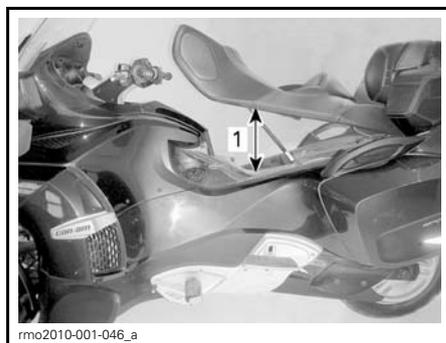
1. Insert key in ignition switch.
2. Push and turn the key 1/4 turn clockwise to the seat opening position and hold while lifting seat.



**KEY POSITION TO OPEN SEAT**

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

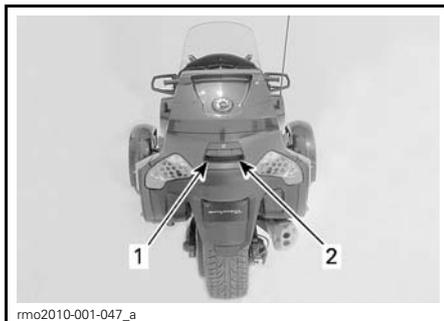
**NOTICE** Do not force the seat past the maximum opening angle or it may break.



1. Maximum opening of seat

## 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 counterclockwise to unlock

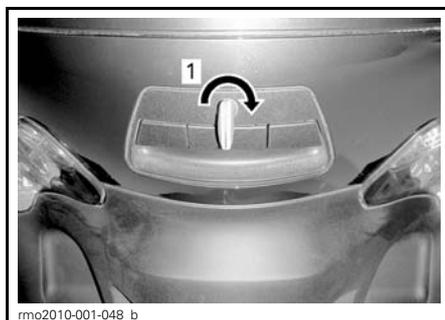
Pull the latch.



1. Opening the top cover

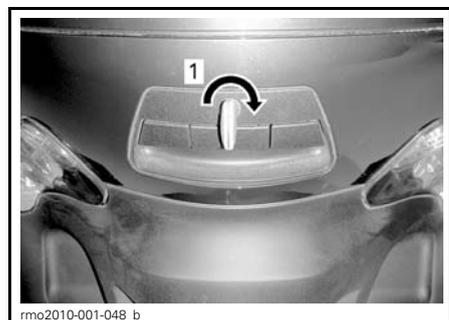
Open the storage compartment cover. Always latch the cover after usage.

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



1. Turn clockwise to lock

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



1. Turn clockwise to lock

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

## Opening the Top Storage Compartment

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



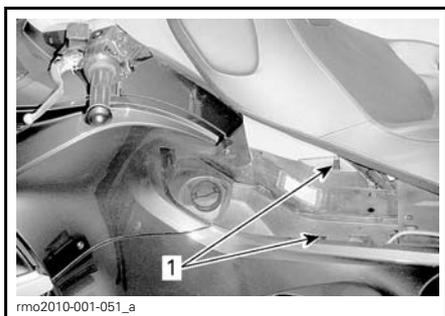
1. Latch for the top storage compartment

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

## Securing a Helmet

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

Open seat.



1. Helmet hooks

Secure the helmet strap buckle on the hook.

Gently put down helmet on the vehicle side panel.

Carefully close the seat and latch.

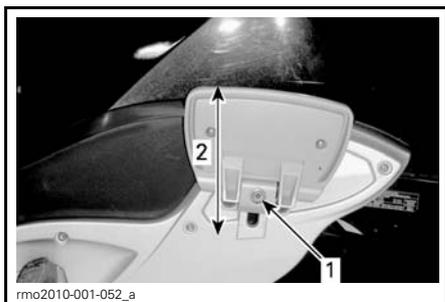
## Adjusting the Passenger Footpeg

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

Flip the footpeg upward.

Turn the retaining screw counterclockwise with an Allen key (stored in the tool kit) to loosen the screw.

Raise or lower the footpeg to your convenience.



1. Retaining screw  
2. Adjust footpeg up or down

When finished, tighten retaining screw clockwise.

Flip the footpeg 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 *AVOID CARBON MONOXIDE POISONING (p. 8)*.

### SM5 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 , then press the MODE button to allow engine starting.
4. Watch the multifunction gauge. If any indicator lights identify a problem, consult *PROBLEMS (p. 136)* before riding. The oil light should be on because the engine has not been started. Pay attention to any scrolling messages on the display.
5. Set the engine stop switch to the RUN/ON position.
6. Pull in and hold the clutch lever.
7. Shift into NEUTRAL. Check the multifunction gauge to be sure you are in neutral.

- 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.

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

#### *SE5 Model*

**NOTE:** The SE5 model can be started in any gear with the brake pedal depressed. The transmission automatically shifts to neutral when the engine has been started.

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

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

- Refer to the Safety Card as needed to prepare yourself, your passenger and the , then press the MODE button to allow engine starting.
- Watch the multifunction gauge. If any indicator lights identify a problem, consult *PROBLEMS (p. 136)* before riding. The oil light should be on because the engine has not been started. Pay attention to any scrolling messages on the display.
- Set the engine stop switch to the RUN/ON position.
- 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.

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

#### **Stopping the Engine**

##### *SM5 Model*

- Shift into first gear.
- Set the engine stop switch to OFF.
- Engage the parking brake. The brake indicator lamp will flash.
- Turn the key to OFF.
- 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.

##### *SE5 Model*

- Shift into neutral.
  - Set the engine stop switch to OFF.
  - Engage the parking brake. The brake indicator lamp will flash.
  - 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.
- 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 centrifugal clutch is always disengaged when the vehicle is stopped, so the transmission will not hold the vehicle in place.

**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 (SM5 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**

See *REVERSE (p. 53)* for more information about safe operation in reverse.

**Shifting Into Reverse (SM5 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 (SE5 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*****SM5 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.

***SE5 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.

**Operating 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 fan operates 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 break-in period, your vehicle should be inspected by an authorized Can-Am roadster dealer as per the *MAINTENANCE SCHEDULE* (p. 110).

**NOTE:** The break-in inspection is performed at the expense of the vehicle owner.

**Fueling****Fuel Recommendation**

Use unleaded gasoline or oxygenated fuel containing no more than 10% ethanol or methanol. The gasoline used must meet the following octane number:

FUEL OCTANE RATING	
INSIDE NORTH AMERICA	
Recommended	Minimum
91 (RON + MON)/2)	87 (RON + MON)/2)
Use premium unleaded fuel for optimum engine performance.	

**FUEL OCTANE RATING****OUTSIDE NORTH AMERICA**

Recommended	Minimum
95 RON	92 RON
Use premium unleaded fuel for optimum engine performance.	

**NOTICE** Other fuel can degrade vehicle performance and damage critical parts in the fuel system and engine.

**⚠ WARNING**

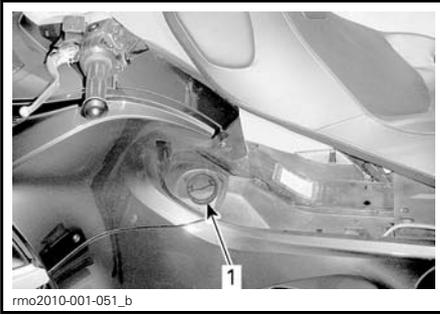
Do not carry gasoline containers in any storage compartment or anywhere else on the vehicle. Gasoline may spill and ignite, particularly in a crash.

**Refueling Procedure****⚠ WARNING**

Gasoline is extremely flammable and highly explosive. Follow the refueling procedure to reduce the risk of fire or explosion. See *AVOID GASOLINE FIRES AND OTHER HAZARDS* (p. 8).

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 (*OPENING THE SEAT* (p. 39)). The fuel cap is located on the left side.



1. Fuel cap

4. Slowly rotate cap counterclockwise and remove it.



FUEL CAP ON LEFT SIDE UNDERNEATH SEAT

5. Fill the tank until the fuel nozzle automatically clicks and shuts off.

**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

The front and rear suspension can be adjusted according to the load on the vehicle or the type of ride you want to experience.

Lower spring preload provides a softer ride and is preferred for light loads and smooth roads. Higher spring preload provides a firmer ride and is recommended for heavy loads, rough road conditions and more challenging riding.

## Front Suspension Adjustment

### **⚠ WARNING**

Adjust both springs to the same load. Uneven adjustment can cause poor handling, loss of stability and loss of control.

**NOTICE** Before adjusting suspension, manually raise the front of vehicle to extend the suspension. This will ease turning the adjustment cam and will prevent a potential breakage of the adjustment plate.

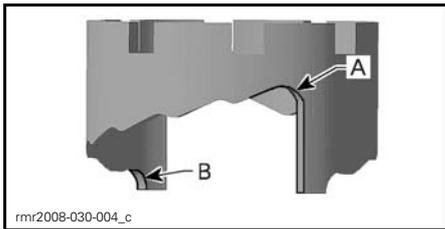
1. Place the vehicle on a level surface.
2. Engage the parking brake.
3. Adjust the spring preload by turning the cam with the adjusting wrench (stored in the tool kit).



FRONT SUSPENSION ADJUSTING WRENCH



FRONT SUSPENSION CAM ADJUSTMENT



A. Smooth adjustment (position 1)  
 B. Hard adjustment (position 5)

RECOMMENDED FRONT SHOCK ADJUSTMENT	
LOAD	CAM POSITION
68 kg (150 lb) rider	1, 2
91 kg (200 lb) rider	3
68 kg (150 lb) rider with cargo	3
91 kg (200 lb) rider with cargo	4
Rider with passenger and cargo	5

**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.

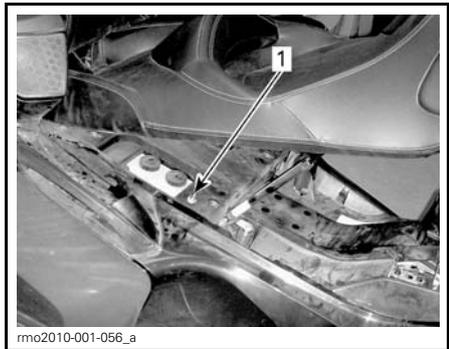
**NOTICE** Do not exceed the maximum allowed pressure. This might damage the air suspension.

<b>WARNING</b>						
MINIMUM PRESSURE 10 PSI / 70 kPa						
Do not exceed recommended pressure by 10 PSI / 70 kPa						
LOAD		PASSENGER + CARGO (lb./kg)				
		0	100/45	150/70	200/90	250/115
DRIVER	Lb/Kg	PSI/kPa	PSI/kPa	PSI/kPa	PSI/kPa	PSI/kPa
	150/70	20/135	40/275	50/345	60/415	70/485
	200/90	30/205	50/345	60/415	70/485	80/555
	250/115	40/275	60/415	70/485	80/555	90/625

704902072

**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.

**NOTE:** It is possible to adjust the suspension in the following conditions:

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

The following suspension settings are available.

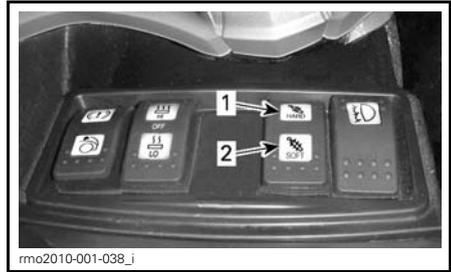
ACS SUSPENSION SETTINGS	
SETTING BAR IN MULTIFUNCTION GAUGE	RIDING COMFORT
1 (top)	Stiffest
2	Stiff
3	Factory setting
4	Soft
5 (bottom)	Softest

### Adjusting Suspension (when Vehicle is Stopped)

1. Start engine.
2. Apply brakes.
3. Release parking brake.
4. Engage gearbox in gear (first or reverse).
5. Follow the same instructions as for *ADJUSTING SUSPENSION (WHILE RIDING)*.

### 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



#### SUSPENSION ADJUSTMENT MODE

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



1. Actual setting

- 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.

**NOTE:** On models without separate analog gauges, the temperature bar gauge will be replaced by the suspension bar gauge.

## Using the 12 V Power Outlet

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



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.

## 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. Refer to *10) RECC (ROADSTER ELECTRONIC COMMAND CENTER)* (p. 20).

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

***This page is  
intentionally blank***

# ***SAFE OPERATING INSTRUCTIONS***

---

# 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 *ROAD CONDITIONS AND HAZARDS* (p. 84).

## 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.

## Antilock 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 footpegs. 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.
- SM5 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.

---

# 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.

### 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 distance 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.

See *TIRES* (p. 119).

## 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 vehiclespeed.

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

---

# 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 to prepare you to operate the Spyder roadster. Learn how this vehicle is different. Read this Operator's Guide, watch the *SAFETY 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 *STREET STRATEGIES* (p. 79).

## Rider Condition

A driver needs to be alert, sober, and physically ready to ride. 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 condition is even more important than for a car. The safest policy is to never oper-

ate 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.

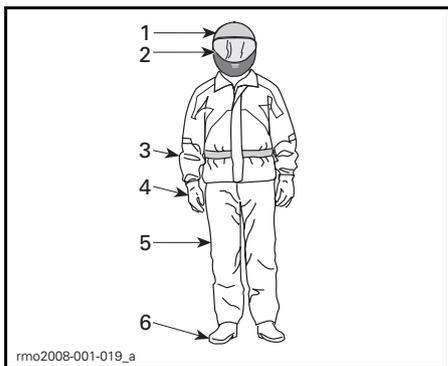
## RIDING GEAR

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

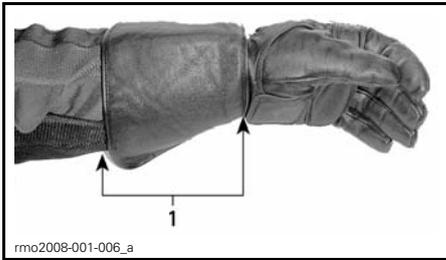
### Footwear

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.

---

# 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:

## *SM5 Model*

1. Revving the engine and using the engine stop switch (p.62)
2. Learning the friction zone and basic handling (p.63)
3. Engine stop while in motion (p.64)
4. Using the throttle and clutch (p.64)
5. Basic turns (p.65)
6. Quick stops (p.66)
7. Weaves (p.67)
8. Shifting (p.67)
9. Swerve (p.69)
10. Operating in reverse (p.70).

## *SE5 Model*

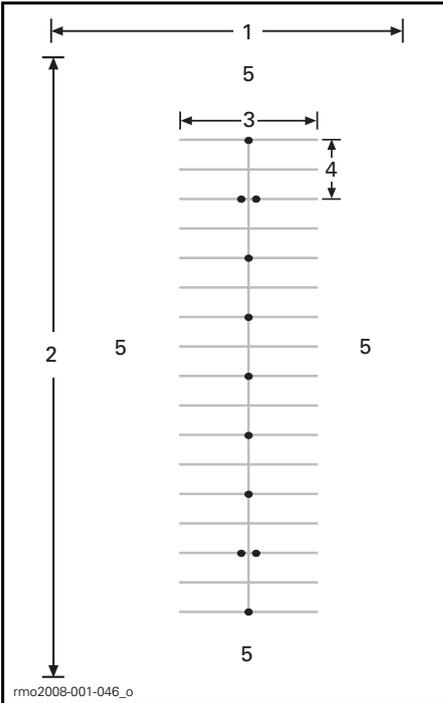
1. Revving the engine and using the engine stop switch (p.71)
2. Starting, stopping, and basic handling (p.71)
3. Engine stop while in motion (p.72)
4. Basic turns (p.72)
5. Quick stops (p.74)
6. Weaves (p.74)
7. Shifting (p.75)
8. Swerve (p.77)
9. Operating in reverse (p.77).

## **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 (*CONTROLS AND INSTRUMENTS* (p. 9)).

Perform the pre-ride inspection; see *PRE-RIDE CHECKLIST* (p. 104) before beginning.

Always start and stop the engine according to the instructions on *STARTING AND STOPPING THE ENGINE* (p. 42).

**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 (SM5 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.

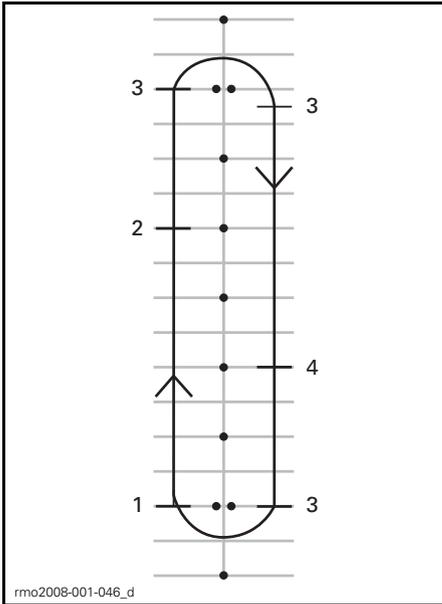
Begin by stopping every 6 m (20 ft) (every marker/every second line).

- 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.





1. Start
2. Roll off throttle
3. Stop
4. Roll off 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

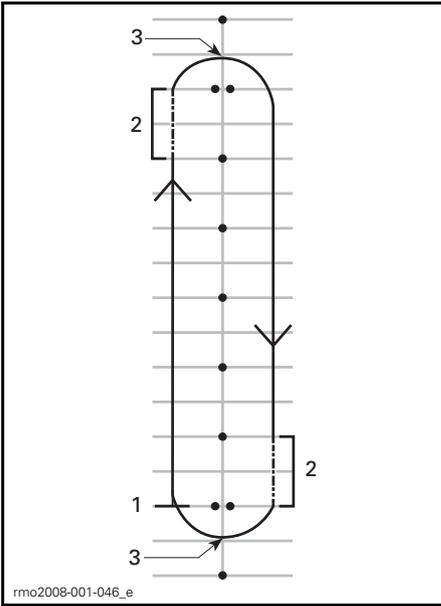
This exercise is similar to what you did before, except that now instead of stopping for each turn, you will make the turn in the friction zone.

- 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 in 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**

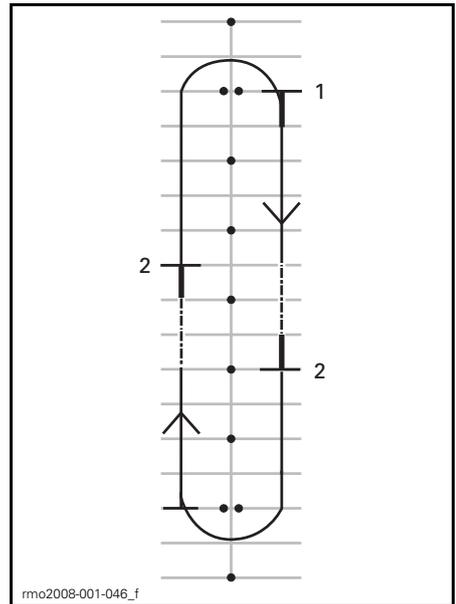
**Purpose**

- 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**

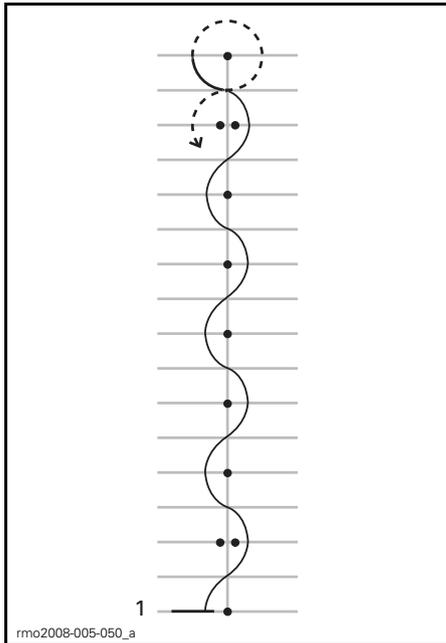
**Purpose**

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

**Directions**

**6 m (20 ft) Weave**

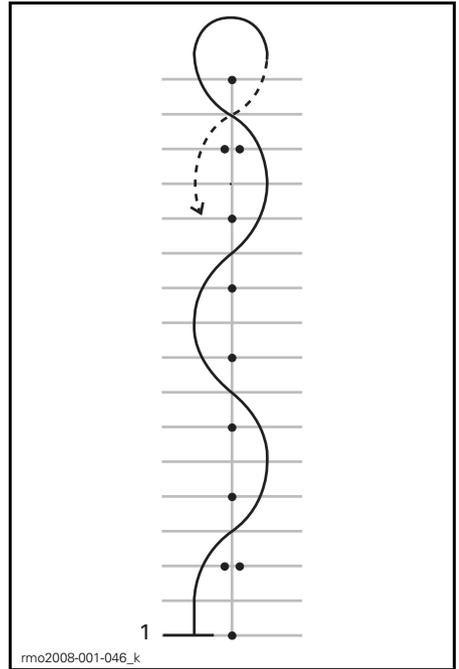
1. Weave between every marker/intersection of every other parking spot. Do not use throttle – stay in the friction zone.
2. Lean into each turn and turn the handlebar in the direction you want to go by pulling and pushing the grips.



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.

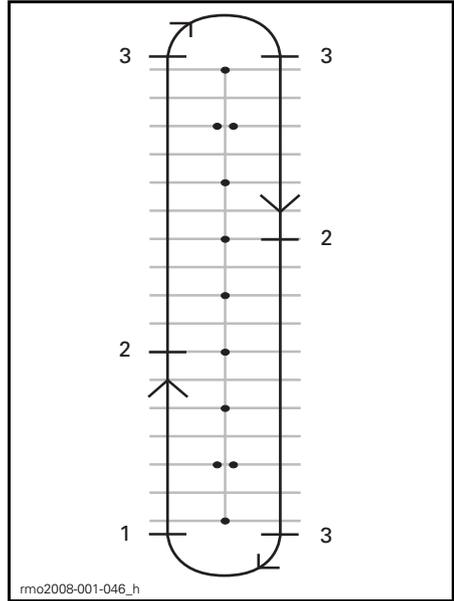
To upshift:

- Roll off 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 footpeg.

### 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

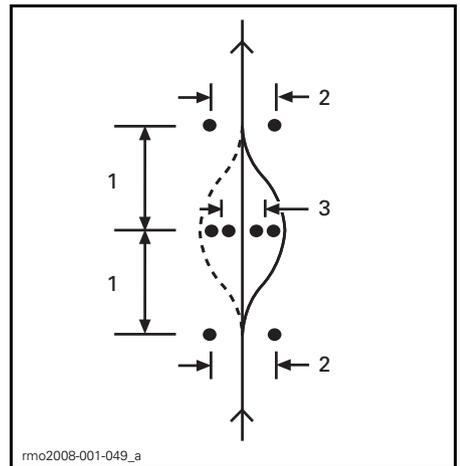
#### Purpose

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

#### 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

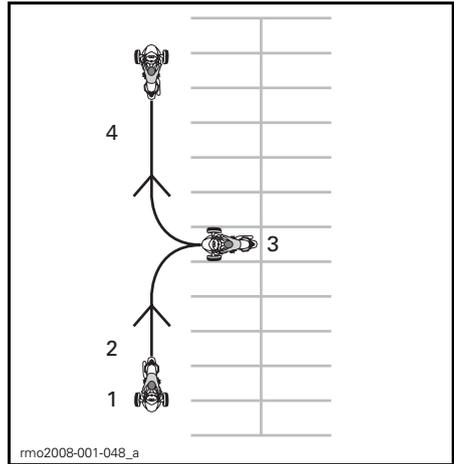
Shift into reverse. See *11) REVERSE BUTTON (p. 21)*.

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 a 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 (SE5 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 upshift 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

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.

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

### 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**

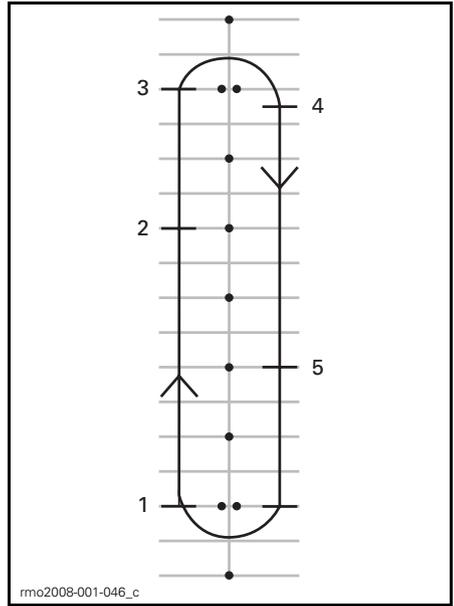
**Purpose**

- 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:** SE5 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**

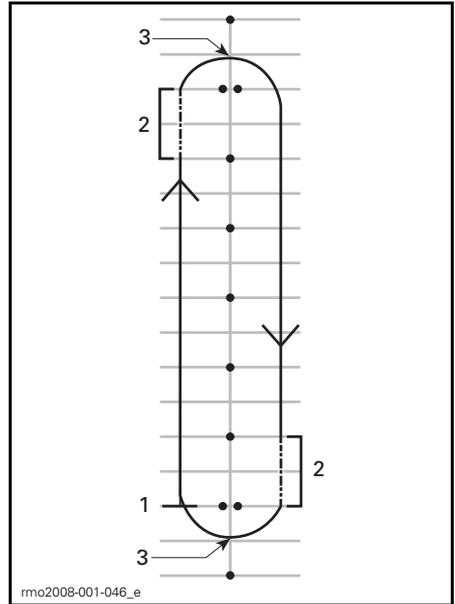
This exercise is similar to what you did before, except that now instead of stopping for each turn, you will make the turn at low speed.

- 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 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 in 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.

## 5) Quick Stops

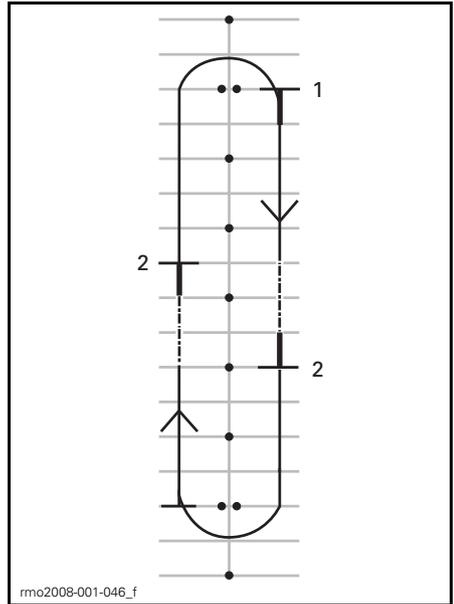
### Purpose

- 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 roll off the throttle completely for quick stops with the SE5. 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, roll off 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

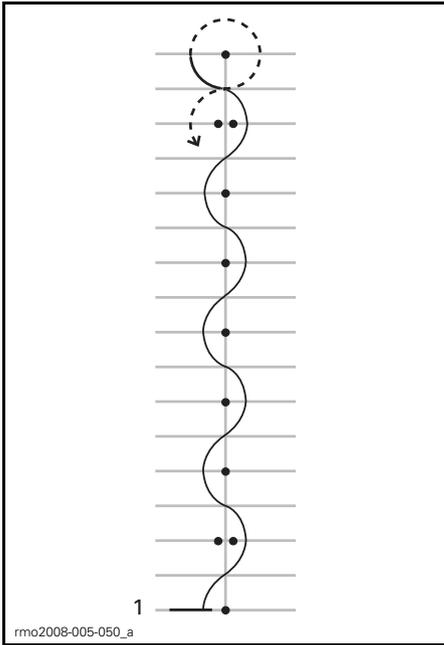
### Purpose

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

### Directions

#### 6 m (20 ft)

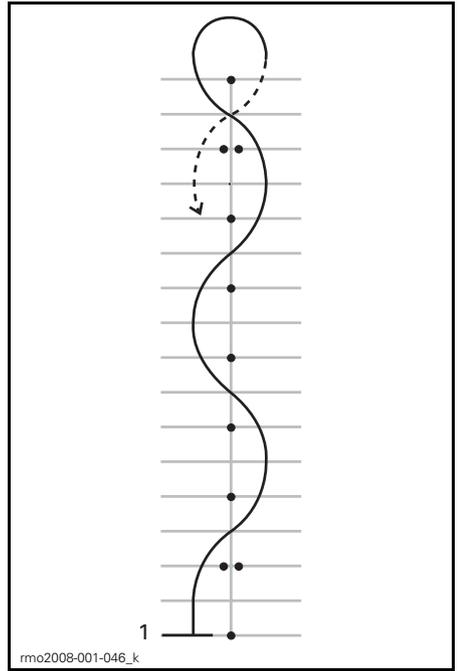
1. Weave between every marker/intersection of every other parking spot. Keep your speed low initially as you get used to making the changes of direction.
2. Lean into each turn and turn the handlebar in the direction you want to go by pulling and pushing the grips.



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 SE5 will not allow you to upshift if the engine speed is too low. The SE5 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:

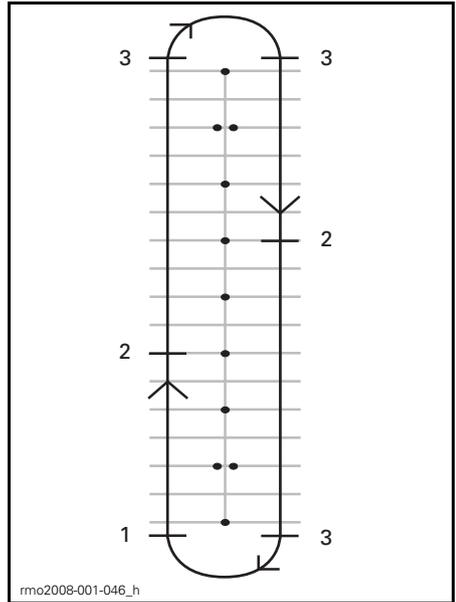
- Double shift from reverse to first gear
- Double shift from first to reverse gear
- Repeat until you are comfortable.

**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 SE5.
- 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:

- Roll off the throttle.
- Apply brake.
- The SE5 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

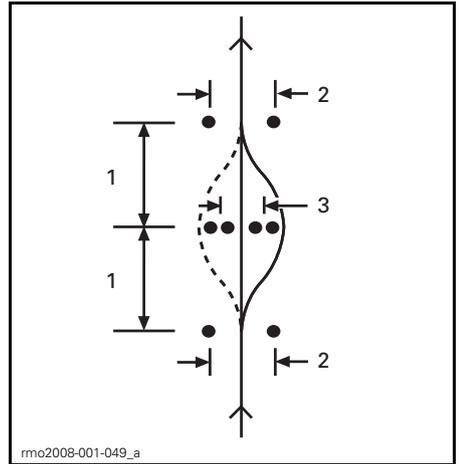
#### Purpose

- 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.

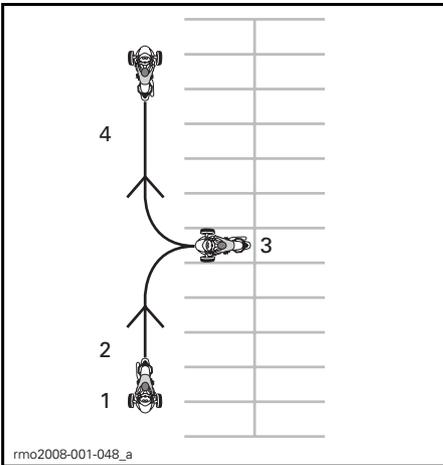
**Directions**

- Shift into reverse. See *OPERATING IN REVERSE* (p. 44).
- 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 a 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 L (6.6 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

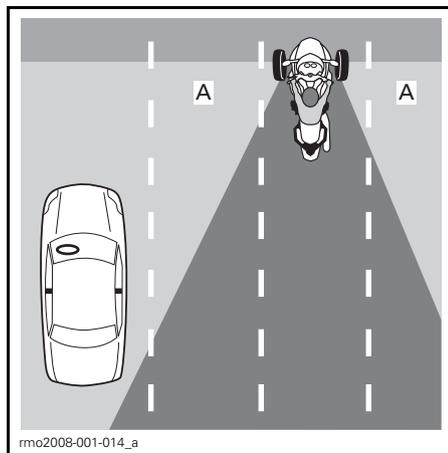
In addition to leaving adequate following distance to the next vehicle, scan ahead and plan your path even farther in advance.

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 and 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 tail lights 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.

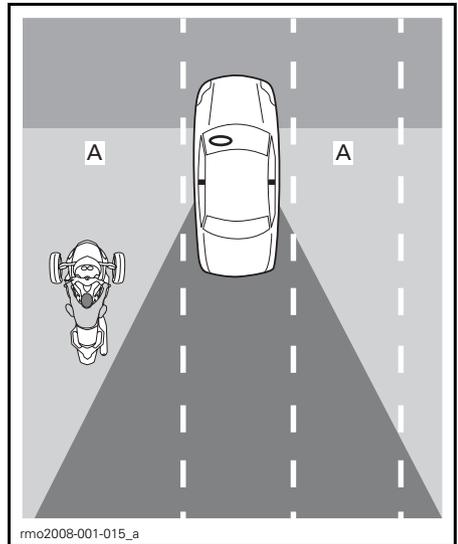
Use your emergency flashers to make yourself visible when needed.

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

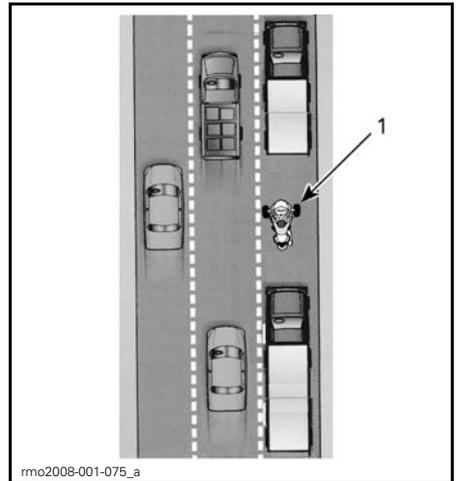
Even when motorists seem to notice you, they may still drive in a way that puts you at risk of a crash. Drive defensively, and do not rely on other motorists to operate their vehicles safely.

## 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.

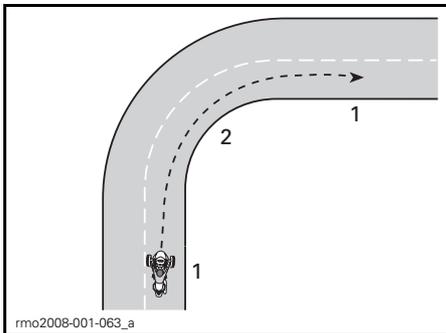
## SM5 Model

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.

### SM5 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.

### SE5 Model

When stopped, the SE5 model can roll regardless of what gear it is in. The SE5 model centrifugal 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 1800 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.

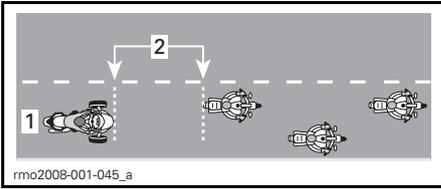
Do not use tinted or colored visors or lenses at night, and be particularly careful that your visor does not have scratches or smudges.

## 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 sec.

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 pave-

ment (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:

- **Front:**  
Nominal: 103 kPa (15 PSI)  
Min.: 89 kPa (13 PSI)  
Max.: 117 kPa (17 PSI)
- **Rear:**  
Nominal: 193 kPa (28 PSI)  
Min.: 179 kPa (26 PSI)  
Max.: 207 kPa (30 PSI)

**NOTE:** The pressure difference between the left and right side tire should not exceed 3.4 kPa (.5 PSI).

Immediately replace any tire that shows the maximum tread wear indicator (p.120) 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 *ROAD SIDE REPAIRS* (p. 135) 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 (p. 106) to the nearest Can-Am roadster dealer to have it thoroughly inspected for safety before riding again.
- Fill in the BRP accident/incident report.

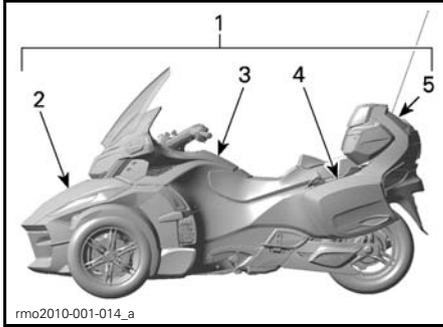
## **Tire Failure**

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. See *FLAT TIRE* (p. 137) 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.



1. 240 kg (525 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)	240 kg (525 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 footpegs 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.

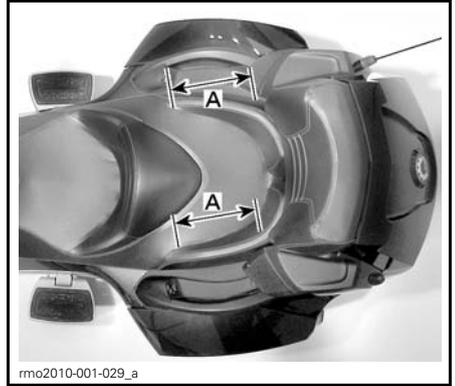
Keep the brakes applied and the transmission in neutral until the passenger is in riding position.

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 footpegs at all times. The passenger footpeg height is adjustable. Refer to *ADJUSTING THE PASSENGER FOOTPEG* (p. 42).

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* (p. 87).

## 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.



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).

### SE-5 Models

When a trailer is towed, the trailer mode must be activated to adapt gear changes. Refer to *SETTING THE TRAILER MODE* (p. 90).

**NOTICE** If the trailer mode is not selected through the infotainment center before towing a trailer, engine components might be damaged.

### All Models

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* (p. 61).

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.

**Setting the Trailer Mode**

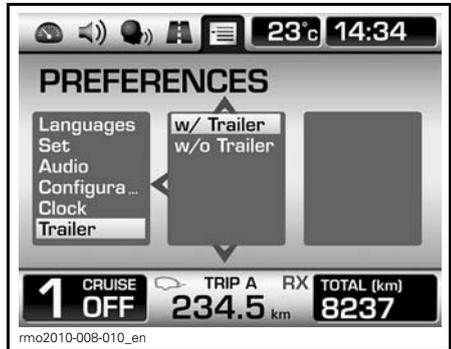
*SE-5 Model*

The trailer mode can be set using one of the following methods.

**When the Vehicle is Stopped**

Repeatedly press the MODE button on the RECC (Roadster electronic command center) to select the PREFERENCES screen. Refer to *10) RECC (ROADSTER ELECTRONIC COMMAND CENTER)* (p. 20).

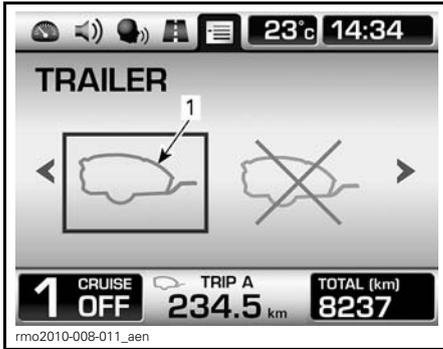
Select the TRAILER option then choose W/ TRAILER.



**When the Vehicle is Moving more than 5 km/h (3 MPH)**

Repeatedly press the MODE button on the RECC (Roadster electronic command center) to select the PREFERENCES screen. Refer to *10) RECC (ROADSTER ELECTRONIC COMMAND CENTER)* (p. 20).

Choose the icon shown by moving the selection rectangle over the icon.



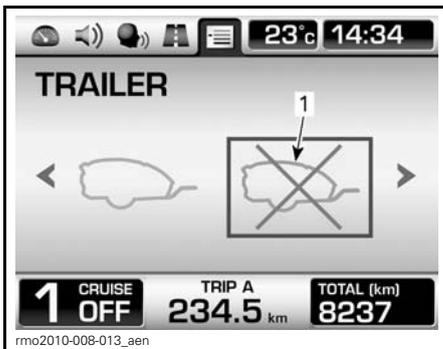
1. Icon to select the trailer mode

### Cancelling the Trailer Mode

When a trailer is not towed, cancel the trailer mode to get the optimum gear shifting. Proceed as for *SETTING THE TRAILER MODE* (p. 90) but use the following options.



WHEN VEHICLE IS STOPPED



WHEN VEHICLE IS MOVING  
1. Icon to cancel the trailer mode

### 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

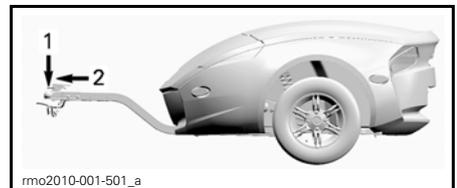
**⚠ WARNING**

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 *ROADSTER TRAILER RT-622 USER'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.

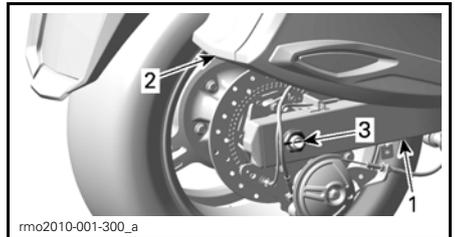
**Hitch**

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. Right side storage compartment
3. New cotter pin here

**Safety Chains**

Always use safety chains 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 chains 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 p.95 for answers.

## 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 240 kg (525 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.

704901792

704901792

## 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, such as tire pressure, weight limits and a pre-ride inspection checklist.

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


**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 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. **Do** the following procedures before each ride.

**Check 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.

**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.

**Instruct the passenger.**

- Always hold handholds and keep feet on pegs.
- Watch the road. Lean into curves. Brace for bumps.

Always keep in mind :

- Brake with the foot pedal. • Reduce your speed if you are towing a trailer. • Make sure the surrounding is clear and safe before looking at the digital screen.
- Steer in the direction of a turn; do not countersteer.

Pre-ride inspection :

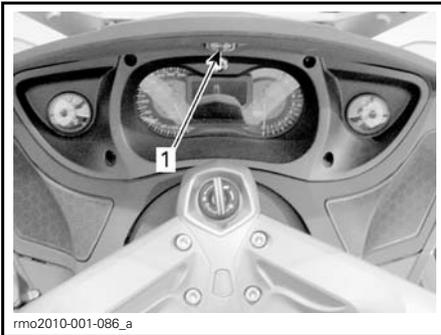
Tires and wheels (no damage, recommended pressure front 15 psi, rear 28 psi) tread, lugnuts

- ✓ Drive belt (aligned, no damage) ✓ Leaks (under vehicle)
- ✓ Lights and reflectors (clean, no damage, working) ✓ Cargo and latches (secured) ✓ Weight max.240 kg = operator + 1 passenger + cargo + accessories ✓ Mirrors (clean and adjust) ✓ Gauge cluster (gauges, indicators, messages) ✓ Fuel level ✓ Controls (brake, throttle, clutch, switches, steering) ✓ Trailer (if applicable): BRP approved, securely latched and chained to vehicle, lights and reflectors, tires condition and pressure. Cargo properly loaded and secured covers latched.

704902070A

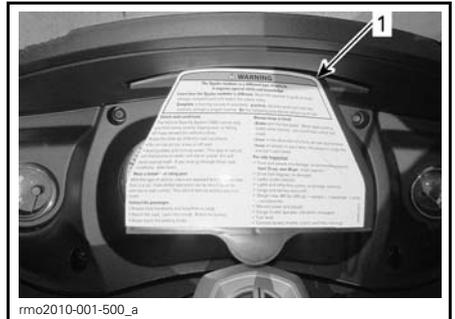
704902070

### SAFETY CARD



rmo2010-001-086\_a

1. Safety card tab location



rmo2010-001-500\_a

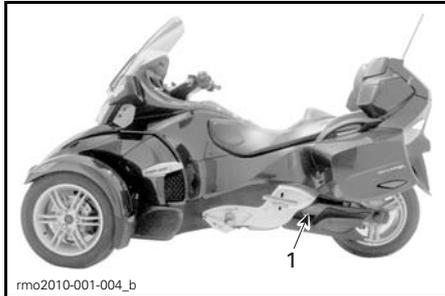
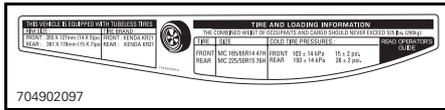
1. Safety card pulled out

## Safety Labels

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.

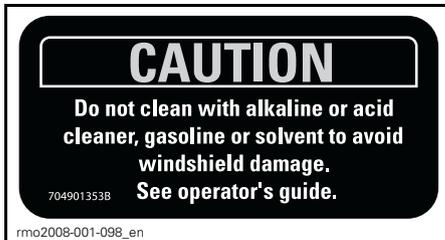
**NOTE:** The following illustrations used in this Operator's Guide are a general representation only. Your model may differ.

### Label 1



1. Label 1 location

### Label 2



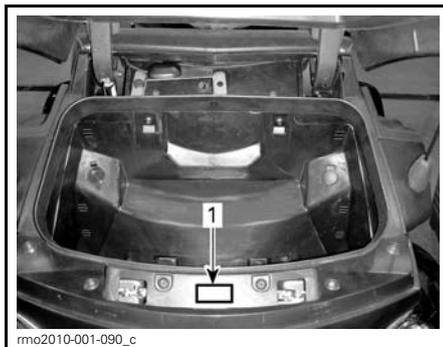
1. Label 2 location

### Label 3

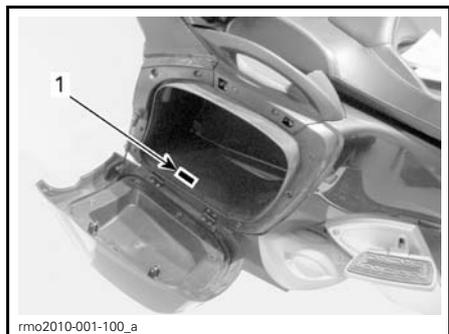


1. Label 3 located in the front storage compartment

**Label 4**



1. Label 5 located in the top storage compartment

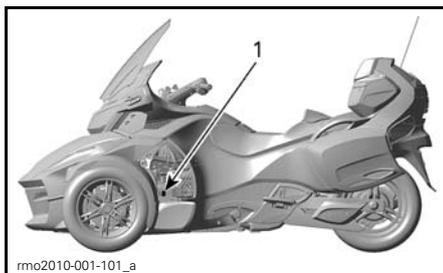
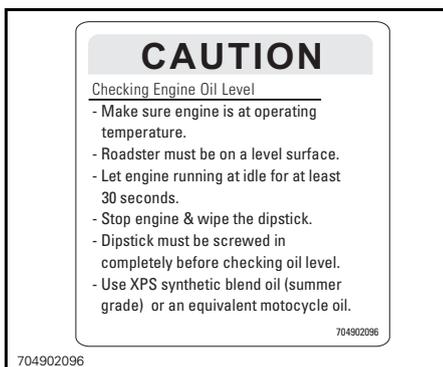


1. Label 4 located in the side storage compartment

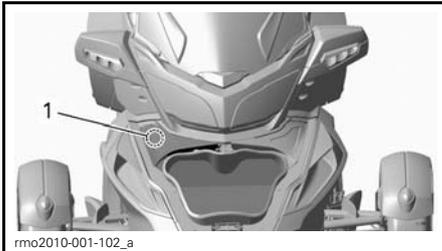
**Label 5**



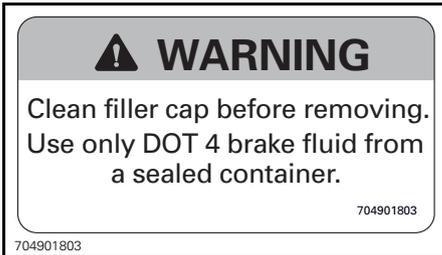
**Label 6**



1. Label 6 located on the oil tank behind the left middle side panel

**Label 7****COOLANT RESERVOIR CAP**

1. Label 7 located underneath service cover

**Label 8**

1. Label 8 located underneath seat

**Label 9**

<b>⚠ WARNING</b>						
MINIMUM PRESSURE 10 PSI / 70 kPa						
Do not exceed recommended pressure by 10 PSI / 70 kPa						
LOAD		PASSENGER + CARGO (lb./kg)				
		0	100/45	150/70	200/90	250/115
DRIVER	Lb/Kg	PSI/kPa	PSI/kPa	PSI/kPa	PSI/kPa	PSI/kPa
	150/70	20/135	40/275	50/345	60/415	70/485
	200/90	30/205	50/345	60/415	70/485	80/555
	250/115	40/275	60/415	70/485	80/555	90/625

704902072



1. Label 9 located underneath seat

---

## REPORTING SAFETY DEFECTS

Your safety is very important to Bombardier Recreational Products Inc. (BRP). If you have any concerns you should immediately contact BRP's customer service.

In the USA, if you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Bombardier Recreational Products Inc.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in any individual problems between you, your dealer or Bombardier Recreational Products Inc.

To contact NHTSA you may either call the Safety Hotline toll-free at 1 888-327-4236 (TTY: 1 800-424-9153) or go the website: [www.safercar.gov](http://www.safercar.gov) or write to:

Administrator  
NHTSA  
400 7<sup>th</sup> Street SW  
Washington, DC 20590

You can also obtain other information about motor vehicle safety from the website [www.safercar.gov](http://www.safercar.gov).

# ***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.

There is a pre-ride inspection checklist on the Safety Card.

### Inspect:

- **Tires:** Look for damage. Inspect inflation and tread wear. Refer to *TIRES* (p. 119).
- **Wheels and lug nuts:** Look for damage. Twist each front wheel lug nut 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 *DRIVE BELT* (p. 121).
- **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 (*ADJUSTING MIRRORS* (p. 38)).
- **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:** (SM5 model): Adjust to your convenience (*CLUTCH LEVER POSITION ADJUSTMENT* (p. 12)). Squeeze to be sure it operates normally and fully returns when released.

- **Gearshift selector** (SE5 model): Be sure gearshift selector operates normally in both directions and returns to center when released.
- **Passenger footpeg height adjustment:** Be sure the passenger is comfortable with the footpeg height. Adjust as necessary.
- **Weight:** Ensure that total load on the vehicle (including operator, passenger, cargo and added accessories) does not exceed 240 kg (525 lb).
- **Trailer:** If a trailer is towed, be sure its cargo is properly loaded and secured, the covers are latched, the trailer and safety chains are properly latched to vehicle hitch and all the trailer lights work and reflectors are clean. Check trailer tire condition and pressure. Set the trailer mode as described in *SETTING THE TRAILER MODE* (p. 90) (SE5 model).

### Turn Ignition Key to the ON Position:

- **Multifunction gauge:** Check the gauges, indicators, messages and the fuel level.
- **Lights:** Check operation of headlights, tail light, 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 forward slowly a few feet then apply brake to test.

Always lock Safety Card back into position.

# ***TRANSPORTING AND STORING***

# TRANSPORTING THE SPYDER ROADSTER

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:

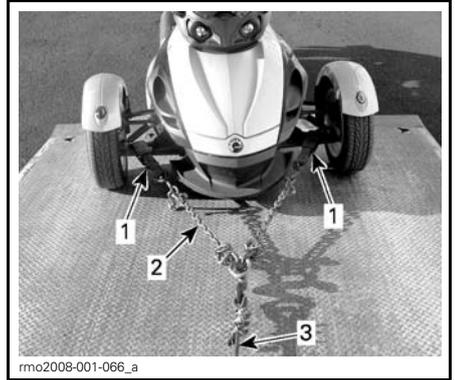
1. Shift the vehicle into NEUTRAL (N).
2. Remove the key from the ignition switch.
3. Put a strap around the lower arm of each front suspension.



1. Lower suspension arm
2. Strap between shock absorber and fin

**NOTICE** Do not place the strap over the fin. This could break it.

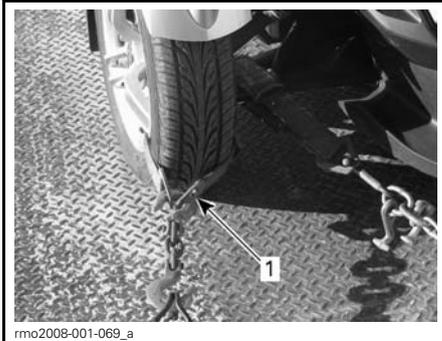
4. Attach the straps to the winch cable. If possible, use chains or additional straps to attach the straps to the winch cable as indicated below to avoid damaging the bumper cover.



## TYPICAL

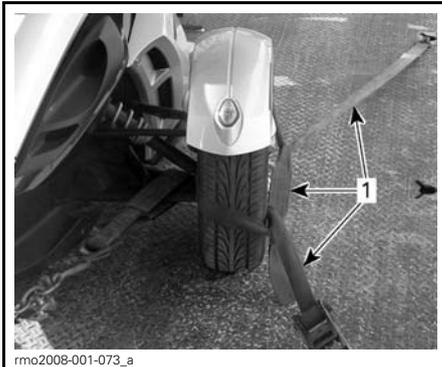
1. Strap around front suspension lower arms
2. Chains to avoid damaging the bumper cover
3. Winch cable

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

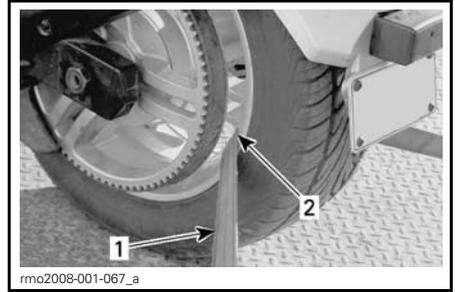


**TYPICAL FRONT WHEELS ATTACHMENT — METHOD 2**

1. Strap around each wheel and fixed to the front and rear of trailer

10. Pass a tie-down strap around 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

---

## STORING THE SPYDER ROADSTER

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 filter (p.129). Go to an authorized Can-Am roadster dealer if necessary.
3. Check engine coolant (p.129), brake fluid (p.129) and clutch fluid (p.131) 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 (p.119).
6. Clean the vehicle (p.134).
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 (p.130) at the recommended charging rate of 2 A. It is not necessary to remove the battery.

### To Remove the Vehicle from Storage:

1. Uncover and clean the vehicle (p.134).
2. Charge the battery if needed (p.130).
3. Perform a pre-ride inspection (p.104), then test-ride the vehicle at low speed.

# ***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.

PERIODIC MAINTENANCE SCHEDULE						
A: Adjust C: Clean I: Inspect L: Lubricate R: Replace	Break-in inspection 1 000 km (600 mi)					
	Every 5 000 km (3,000 mi)					
	Every 10 000 km (6,000 mi) or 1 year					
	Every 20 000 km (12,000 mi) or 2 years					
	To be performed by			Note		
<b>ENGINE</b>						
Engine oil and oil filter	R	R			Customer	Check oil level every 500 km (300 mi)
Oil tank strainer	I, C			I, C	Dealer	Inspect and clean if necessary
Transmission oil filter (SE5 model)	R			R	Customer	
Valve clearance				A	Dealer	Inspect first at 10 000 km (6,000 mi)
Air filter			I	R	Customer	
Air filter housing			C		Customer	Wipe off any oil in housing
Clutch fluid (SM5 model)			I	R	I: Customer R: Dealer	
Engine coolant	I	I		R	Dealer	
Radiator, hoses and water pump			I		Dealer	Check condition, leak and cleanliness
Radiator cap/cooling system pressure test				I	Dealer	
Exhaust "Y" pipe front gaskets				R	Dealer	
Reverse mechanism (SM5 model)			A		Dealer	
<b>ELECTRONIC MANAGEMENT SYSTEMS</b>						
Fault codes	I		I		Dealer	
Wheel speed sensor			I		Dealer	Adjust every time rear wheel is loosened
Passenger switch			I		Dealer	
<b>FUEL SYSTEM</b>						
Throttle body			I, C		Dealer	
Throttle twist grip			I		Dealer	
Fuel hoses			I		Dealer	
Fuel filter	Replace every 5 years or 30 000 km (19,000 mi)				Dealer	

**PERIODIC MAINTENANCE SCHEDULE**

A: Adjust C: Clean I: Inspect L: Lubricate R: Replace	<b>Break-in inspection 1 000 km (600 mi)</b>					
	<b>Every 5 000 km (3,000 mi)</b>					
	<b>Every 10 000 km (6,000 mi) or 1 year</b>					
	<b>Every 20 000 km (12,000 mi) or 2 years</b>					
	<b>To be performed by</b>			<b>Note</b>		

**ELECTRICAL SYSTEM**

Spark plugs	I		I	R	Dealer	
Battery connections			I, C		Customer	
Lighting system (Brake light, hazard warning lights, turn signal lights, position lights, license plate light)			I		Customer	
Electric windshield			I		Customer	
Control switches			I		Customer	

**DRIVE SYSTEM**

Drive belt	I, A		I, A		Dealer Customer	Inspect wear, alignment and tension
Rear sprocket bearing				I	Dealer	Replace every 50 000 km (31,000 mi)
Rear axle bearings				I	Dealer	
Bearing seals, O-rings and wear sleeves of rear axle				R	Dealer	

**WHEELS**

Wheel bearings				I	Dealer	
Front wheel nuts		I			Dealer	
Rear wheel nut			I		Dealer	

**STEERING**

Steering play			I		Dealer	
Tie rod			I		Dealer	
Front wheel alignment			I		Dealer	

PERIODIC MAINTENANCE SCHEDULE						
A: Adjust C: Clean I: Inspect L: Lubricate R: Replace	Break-in inspection 1 000 km (600 mi)					
	Every 5 000 km (3,000 mi)					
	Every 10 000 km (6,000 mi) or 1 year					
	Every 20 000 km (12,000 mi) or 2 years					
	To be performed by			Note		
<b>SUSPENSION</b>						
Shock absorbers				I	Dealer	
Front suspension arms	L			L	Dealer	
Ball joints				I	Dealer	
ACS rear shock absorber hoses and fittings			I		Customer	
<b>BRAKES</b>						
Brake fluid			I	R	I: Customer R: Dealer	
Brake pads and discs		I			Customer	
Brake hoses			I		Dealer	
Parking brake	I	I			Dealer	
<b>BODY/FRAME</b>						
Passenger handholds		I			Customer	Check solidness
Footpegs			L		Customer	Use multi-purpose lubricant
Plastic parts fasteners			I		Customer	Check solidness
Storage compartment latches, key barrels, and hinges	I		I, L		Customer	Use CABLE LUBRICANT (P/N 293 600 041) or an equivalent

---

## **BREAK-IN INSPECTION**

We recommend that after the first 1 000 km (600 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 break-in inspection is at the expense of the vehicle owner.

We recommend that this inspection be signed by an authorized Can-Am dealer.

---

Date of break-in 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.

## Tool Kit

The tool kit is located under the seat.

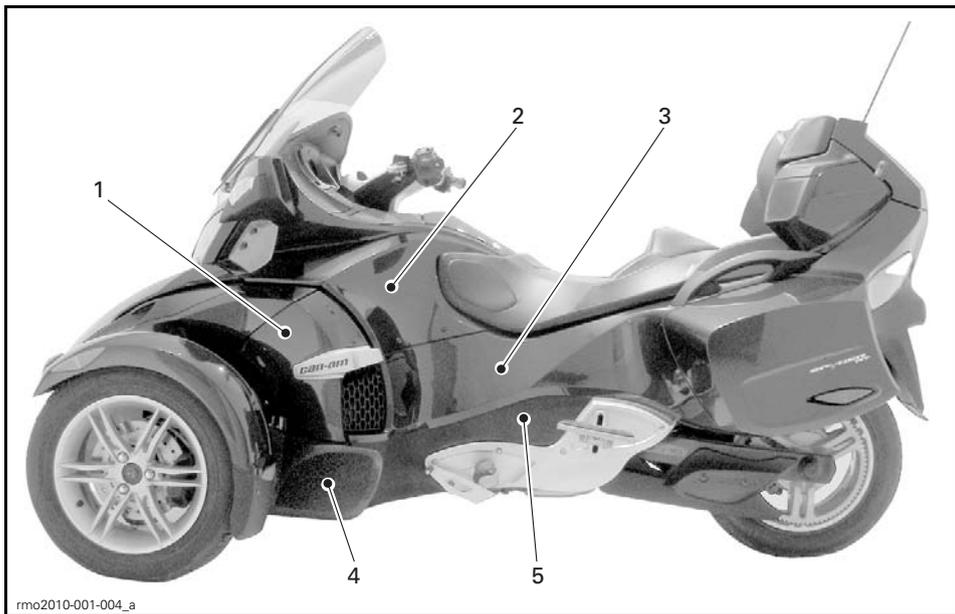
The tool kit contains the tools for the basic maintenance described in this Operator's Guide.

## Body Panels

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

### **⚠ 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.



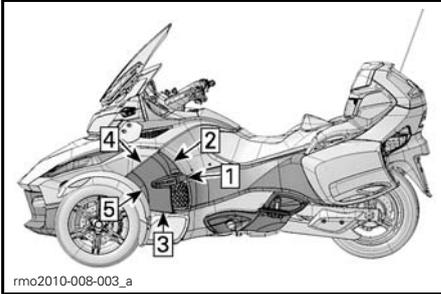
rmo2010-001-004\_a

### LEFT HAND SIDE PANELS

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

## Middle Side Panel

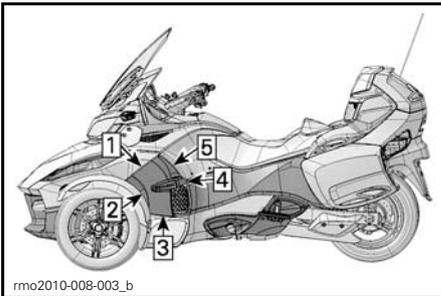
### Removal



### REMOVAL SEQUENCE

1. Pull the rear of panel out of its grommet.
2. Slide down the top of the panel to free panel hook.
3. Pull the bottom of the panel out of its grommet.
4. Pull the front of the panel out of its grommet.
5. Slide the front of the panel to remove it.

### Installation



### INSTALLATION SEQUENCE

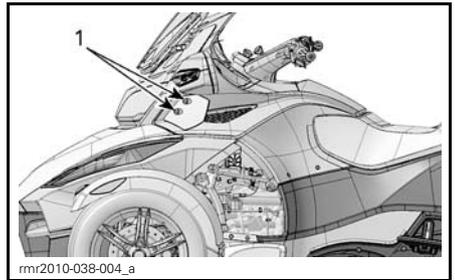
1. Push the front of panel in its grommet.
2. Rotate the panel and clip it on the support.
3. Push the bottom of the panel in its grommet.

4. Push the rear of the panel in its grommet.
5. Push the top of the panel to fix the plastic hook.

## Top Side Panel

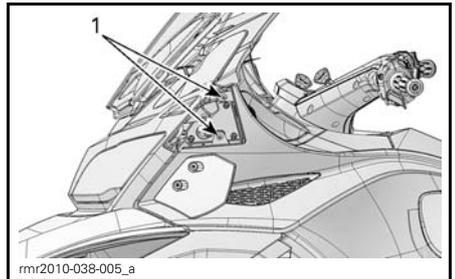
### Removal

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



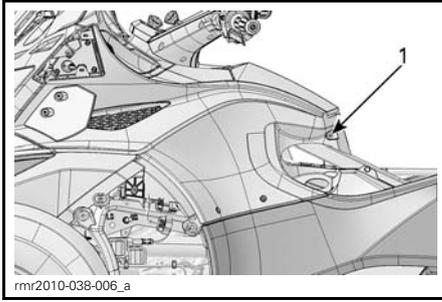
1. Retaining screws of wind deflector

5. Remove mirror:
  - 5.1 Pull bottom of mirror to release the locking tabs.
  - 5.2 Slide up mirror and remove from body.
6. Remove upper retaining screws from top side panel.

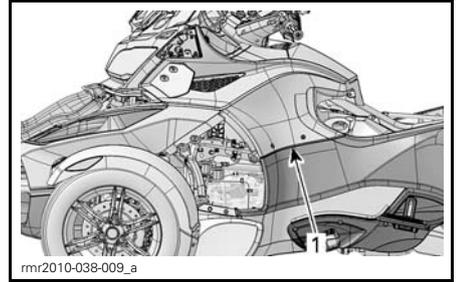


1. Upper retaining screws

7. Remove rear retaining screw from top side panel.

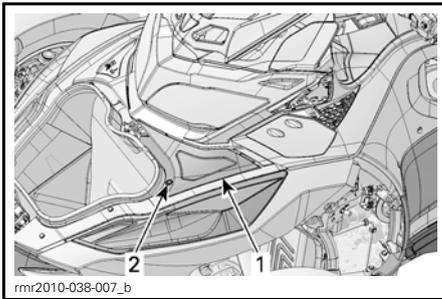


1. Rear retaining screw



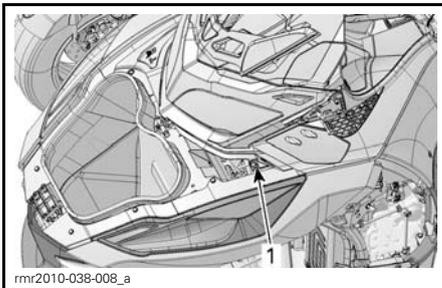
1. Top side panel

- Remove left service cover by removing plastic rivet.



1. Left service cover  
2. Plastic rivet

- Remove front retaining screw from top side panel.



1. Front retaining screw

- Remove lower retaining screws of top panel.
- Remove top side panel by lifting it upwards.

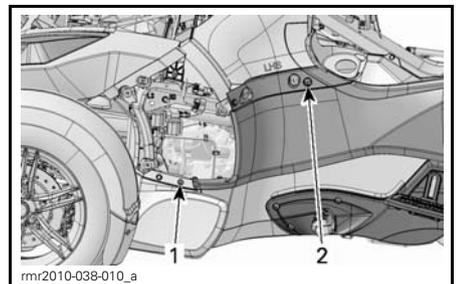
## Installation

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

## Rear Side Panel

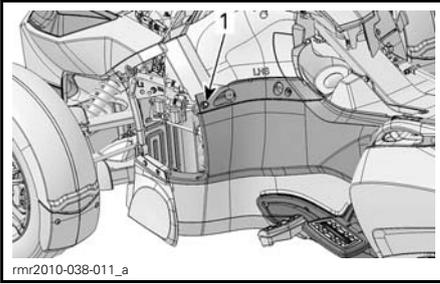
### Removal

- Remove middle side panel.
- Remove top side panel.
- Remove front retaining screw of rear side panel.
- Remove upper retaining screw and washer from rear side panel.



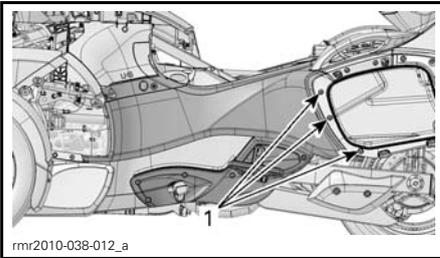
1. Front retaining screw  
2. Upper retaining screw

- Remove front plastic rivet from rear side panel.



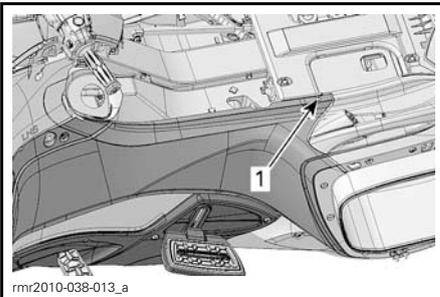
1. *Front plastic rivet*

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.

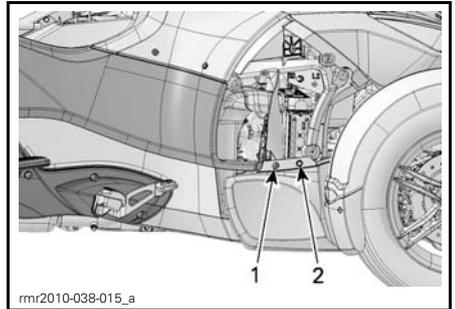
### Installation

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

### Bottom Front Side Panel

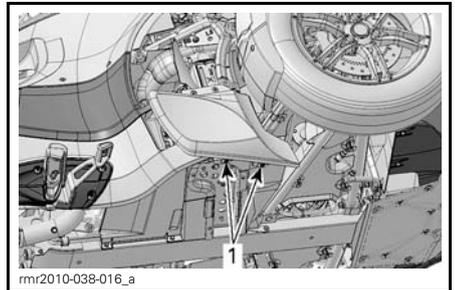
#### Removal

1. Remove middle 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. From the bottom, pull on the panel to remove push-in clips.



1. *Push-in clips*

5. Remove bottom front side panel from vehicle.

#### Installation

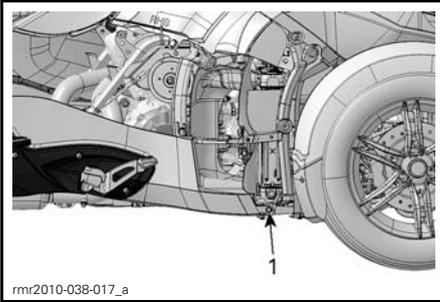
Reinstall bottom front side panel in the reverse order of the removal.

### Bottom Rear Side Panel

#### Removal

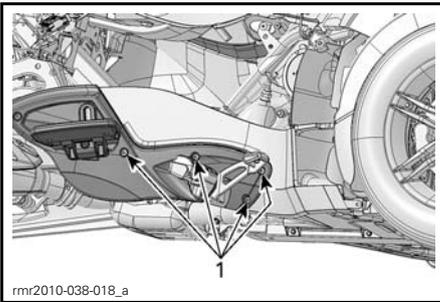
1. Remove middle side panel.

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



1. Front retaining nut

6. Remove retaining screws from bottom rear side panel.



1. Retaining screws

7. Remove bottom rear side panel from vehicle.

### Installation

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

## Tires

### **⚠ WARNING**

Tires that are not the recommended type, damaged, worn down below the minimum tread wear limit indicator or improperly 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.

### 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 PRESSURE RECOMMENDATION	
<b>FRONT</b>	
Nominal	103 kPa (15 PSI)
Minimum	89 kPa (13 PSI)
Maximum	117 kPa (17 PSI)
<b>REAR</b>	
Nominal	193 kPa (28 PSI)
Minimum	179 kPa (26 PSI)
Maximum	207 kPa (30 PSI)

**NOTE:** The pressure difference between the left and right side tire should not exceed 3.4 kPa (.5 PSI).

For your convenience, an electronic pressure gauge is supplied in the tool kit.

### 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.

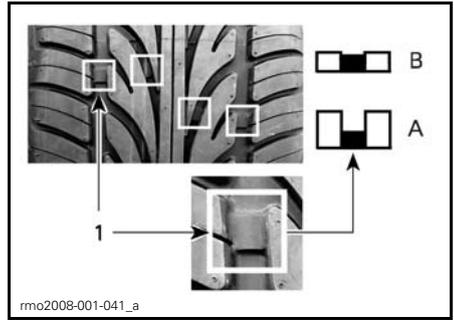
If any of the above occurs, have the tire repaired or replaced as soon as possible by an authorized Can-Am roadster dealer.

### 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 (T.I.N.) associated

with the Vehicle Identification Number (V.I.N.) (p.152) 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.

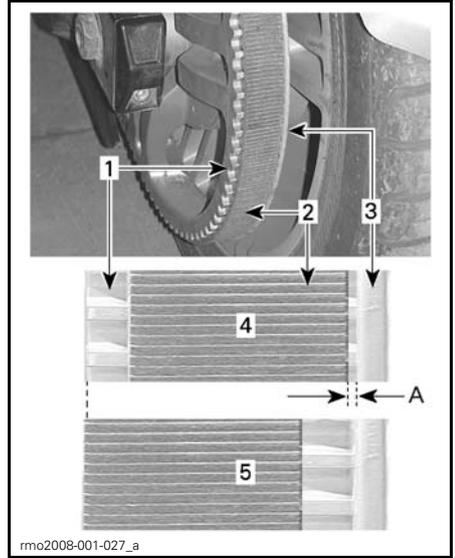
### Drive Belt

Visually inspect belt alignment and condition before each ride. Refer to *MAINTENANCE SCHEDULE* (p.110) for scheduled maintenance intervals.

Belt alignment and deflection adjustment should always be performed by an authorized Can-Am roadster dealer.

### Drive Belt Alignment

The gap between the belt (2) and the sprocket internal flange (3) should be a minimum of 1 mm (1/32 in). If belt goes beyond the outside edge of sprocket (5), have the belt properly aligned by an authorized Can-Am roadster dealer as soon as possible.

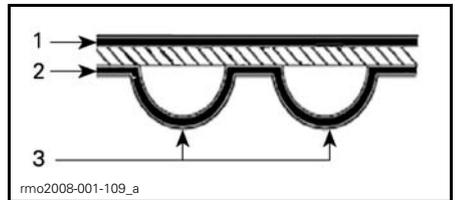


#### BELT ALIGNMENT

1. Rear sprocket teeth
  2. Belt
  3. Sprocket internal flange
  4. Proper belt alignment
  5. Belt exceeding external edge – have aligned
- A. MIN. 1 mm (1/32 in)

### 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 	None
Hairline cracks 	Monitor condition
Minor chipping 	Monitor condition
Opened cracks 	Replace belt
Hook wear 	Replace belt
Missing teeth 	Replace belt
Belt fabric worn, exposing internal components 	Replace belt
Stone damage 	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 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.

### Engine Oil

**NOTICE** The procedures for checking the Spyder roadster oil level and replacing oil are different from most of the motor vehicles today. Properly follow instructions provided in this section.

#### Recommended Engine Oil

The same oil is used for the engine, gearbox, clutch, and the HCM in the SE5 model.

Use the XPS SYNTHETIC BLEND OIL (SUMMER GRADE) (P/N 293 600 121) or a 5W 40 semi-synthetic (minimum) or synthetic motorcycle oil meeting the requirements for API service SL, SJ, SH or SG classification. Always check the API service label on the oil container.

**NOTICE** To avoid damaging the clutch, do not use a motor oil meeting the API service SM or ILSAC GF-4 classification. Clutch slippage will occur.

#### Engine Oil Level Verification

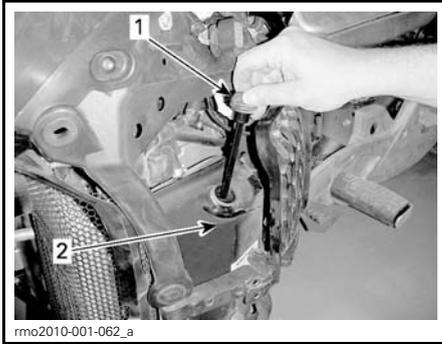
**NOTICE** To obtain a precise reading of the engine oil level, follow this procedure and make sure engine is at normal operating temperature.

1. Park the vehicle on a level surface.
2. Remove the LH middle side panel. Refer to *BODY* section.

3. With the engine already at normal operating temperature, start engine and let it run for at least 30 seconds.

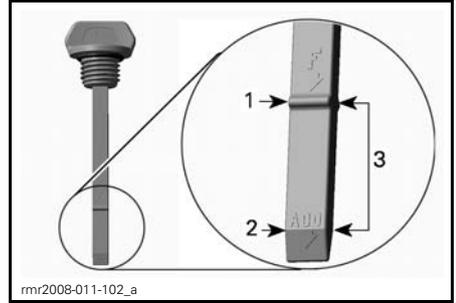
**NOTE:** Running engine for at least 30 seconds allows the suction oil pump to drain the oil from the engine crankcase back into the oil tank. Not carrying out this step could result in overfilling the engine oil.

4. Stop engine.
5. Unscrew and remove the oil dipstick.



1. Oil dipstick
2. Oil tank

6. Wipe off the dipstick.
7. Reinsert and **completely screw in** the dipstick to assure an accurate reading.
8. Unscrew and remove the dipstick again.
9. Check the oil level on the dipstick. It should be near or equal to the upper mark.



1. Full
2. Add
3. Operating range

**Oil Level is at or Near Upper Mark:**

1. Properly insert and tighten dipstick.
2. Install the LH middle side panel. Refer to *BODY* section.

**Oil Level Under Operating Range:**

1. Add a small amount of recommended oil.
2. Repeat the above steps until oil level reaches the dipstick's upper (F) mark. **Do not overfill.**
3. Properly insert and tighten dipstick.
4. Install the LH middle side panel. Refer to *BODY* section.

**Engine Oil Change**

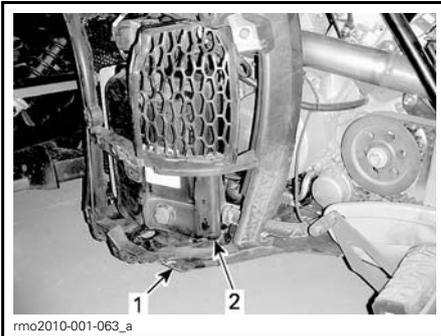
Prior to changing the oil, ensure vehicle is on a level surface.

**NOTICE** Oil and oil filter must be replaced at the same time. Oil change should be carried out with a warm engine.

**CAUTION** Engine oil can be very hot.

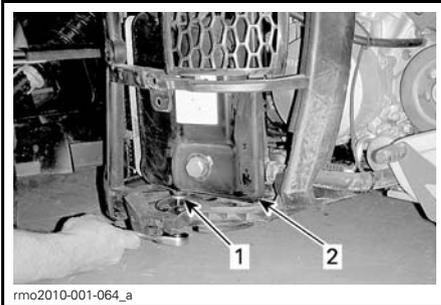
1. Remove the following LH body panels. Refer to *BODY* section:
  - Middle side panel
  - Top side panel
  - Rear side panel
  - Bottom front side panel
  - Bottom rear side panel.

- Remove the bottom plate under oil tank.



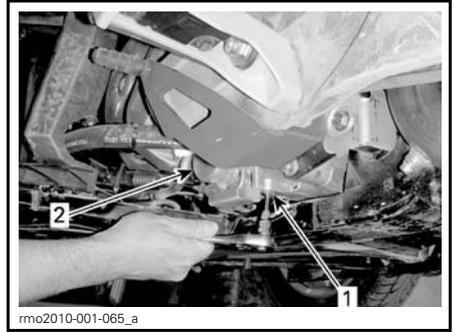
- Bottom plate
- Oil tank

- Clean area around drain plug under oil tank.
- Place an appropriate drain pan under oil tank.
- Remove the tank drain plug and discard the sealing washer.



- Reservoir drain plug
- Oil tank

- Remove the dipstick.
- Allow sufficient time for oil to completely drain out of tank.
- Clean area around engine drain plug.
- Place an appropriate drain pan under the engine.
- Remove the engine oil drain plug and discard the sealing washer.



- Engine oil drain plug
- Oil filter cover

- Allow sufficient time for oil to completely drain from crankcase.
- Clean the magnet on the engine drain plug.
- Using **NEW** sealing washers, install engine and oil tank drain plugs.

**NOTICE** Never reuse the drain plug sealing washer. Always replace it with a new one.

- Torque drain plugs (engine and oil tank) 20 N•m (15 lbf•ft).
- Replace engine oil filter. Refer to *ENGINE OIL FILTER REPLACEMENT* further in this section.
- Replace HCM oil filter if necessary (SE5 model). Refer to *HCM OIL FILTER REPLACEMENT* further in this section.
- Pour 3 L (3 qt (U.S. liq.)) of the recommended oil into oil tank.
- Start engine and **let idle for two minutes**.

**NOTICE** Do not rev up engine during idling period as this may cause permanent engine damage.

**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 and recheck oil level.

19. Ensure oil filter cover, engine drain plug and oil tank drain plug are not leaking.
20. Stop engine.

**NOTE:** The oil level dipstick is accurate when the oil temperature is at 80°C (176°F). If the oil level is checked when the oil is at room temperature 20°C (68°F), the proper oil level indication is half way between the lower (ADD) and upper (F) marks on the dipstick. This must be considered to prevent overfilling the oil tank.

**SM5 Models**

21. Add .9L (1 qt (U.S. liq.)) of the recommended oil in the oil tank 3.8 L (4 qt (U.S. liq.)) total quantity.
22. Check oil level immediately and adjust if required.
23. Reinstall all removed body panels.
24. Dispose of used oil as per your local environmental regulations.

**SE5 Model**

25. Add 1.2 L (1.3 qt (U.S. liq.)) of the recommended oil in the oil tank 4.2 L (4.4 qt (U.S. liq.)) total quantity.
26. Check oil level immediately and adjust if required.

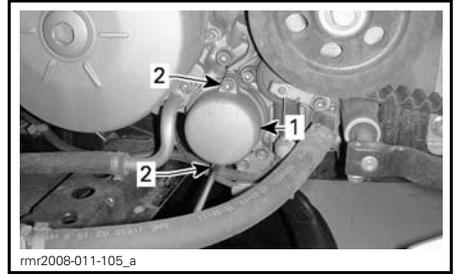
**NOTE:** If both the engine oil filter and the HCM oil filter are replaced, the total oil quantity to add will be 4.3 L (4.5 qt (U.S. liq.)).

27. Reinstall all removed body panels.
28. Dispose of used oil as per your local environmental regulations.

**Engine Oil Filter**

**Oil Filter Removal**

1. Refer to *ENGINE OIL CHANGE (p. 123)* to remove the required body panels.
2. Remove oil filter cover screws.



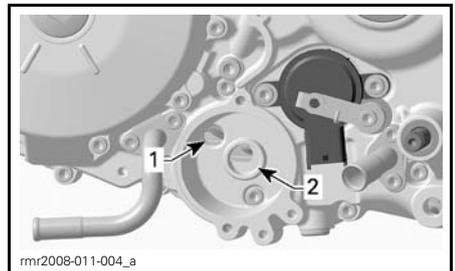
**TYPICAL**  
 1. Oil filter cover  
 2. Cover screws

3. Remove oil filter cover with O-ring. Discard O-ring.
4. Remove oil filter.
5. Dispose filter as per your local environmental regulations.

**Oil Filter Installation**

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

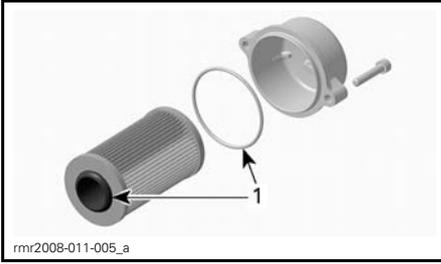
1. Check and clean the oil inlet and outlet orifices in crankcase for dirt and contaminants.



**TYPICAL**  
 1. Oil inlet orifice from oil pressure pump  
 2. Oil outlet orifice to engine lubrication system

2. Install a NEW O-ring on the oil filter cover.

To ease assembly and prevent displacement of the O-ring during installation, slightly oil filter and O-ring, refer to following illustration.



1. Apply oil here

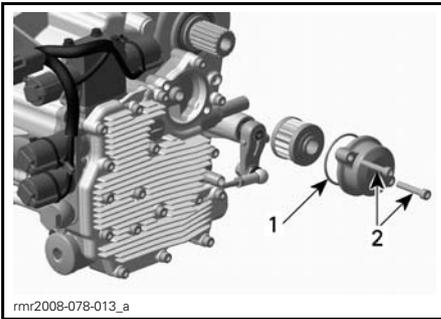
## HCM Oil Filter (SE5 Model)

**NOTE:** The HCM (Hydraulic Control Module) uses the same oil as the engine, but has its own oil filter.

### HCM Oil Filter Removal

Refer to *MAINTENANCE SCHEDULE* (p. 110) for replacement frequency.

1. Drain engine oil. Refer to *ENGINE OIL CHANGE* (p. 123) section.
2. Remove oil filter cover screws.



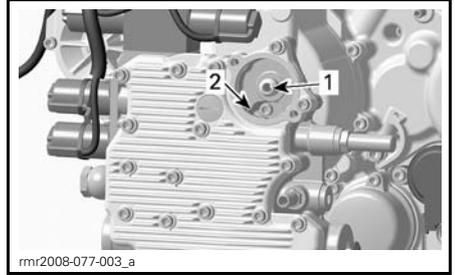
1. Oil filter cover
2. Cover screws

3. Remove oil filter cover with O-ring. Discard O-ring.
4. Remove oil filter.
5. Dispose filter as per your local environmental regulations.

## HCM Oil Filter Installation

The installation is the reverse of the removal procedure. Pay attention to the following.

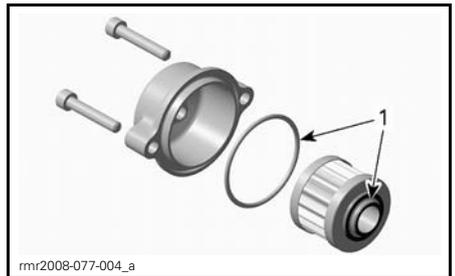
1. Check and clean the oil inlet and outlet orifices in hydraulic control module for dirt and contaminations.



1. Oil outlet orifice to the hydraulic control module lubrication system
2. Oil inlet orifice to the oil pump

2. Install a **NEW** O-ring on oil filter cover.

To ease assembly and prevent displacement of the O-ring during installation, slightly oil filter and O-ring, refer to following illustration.



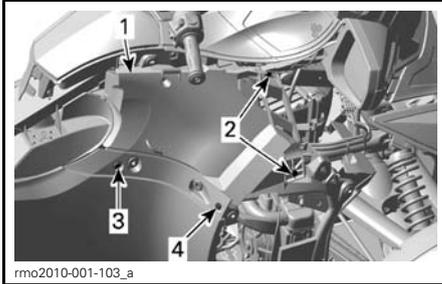
1. Apply oil here

## Air Filter

### Air Filter Removal

1. Remove the right middle side panel.
2. Remove the right top side panel.
3. Remove the right acoustic panel.
4. Remove both screws on the right side of the acoustic panel.

5. Remove the leftmost screw from the rear side panel.
6. Remove the dart from the rear side panel.



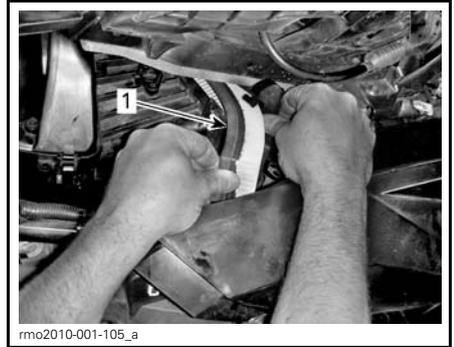
1. Acoustic panel
2. Retaining screws on right side
3. Leftmost screw of rear side panel
4. Dart on rear side panel

Release the 3 retaining clips from the air filter cover.



- RIGHT SIDE SHOWN**
1. Retaining clips
  2. Air filter cover

Tip air filter cover to expose air filter.  
Pull out filter.



- RIGHT SIDE SHOWN**
1. Air filter

**NOTE:** The presence of some oil in the air filter area and housing is normal. Clean as necessary.

### 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.  
Properly position air filter cover then secure with all clips.  
Reinstall parts in the reverse order of their removal.

## Engine Coolant

### Engine Coolant Level Verification

#### **⚠ WARNING**

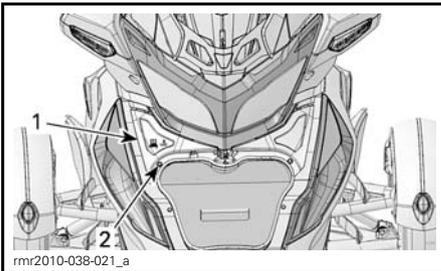
When opening the reservoir, the coolant can be very hot and spray out if the engine is hot. In order to avoid getting burned, check the coolant level when the engine is cold.

The cooling system must be filled with distilled water and antifreeze solution (50% distilled water, 50% antifreeze).

For best performance, use the BRP PREMIXED COOLANT (P/N 219 700 362).

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

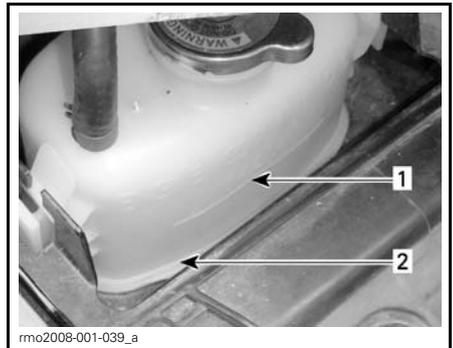
4. Pull down the service cover using the recess to release upper tabs from the front fascia.



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. Coolant must be visible without exceeding the MAX. level mark.



1. Coolant MAX. level mark
2. Coolant must be visible

8. If required, add coolant until it is visible in the reservoir without exceeding the MAX. level mark. Use a funnel to avoid spillage. **Do not overflow.**

9. Reinstall the service cover.

**NOTE:** A coolant system that frequently requires coolant indicates leaks or engine problems. See 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. An opened container may be contaminated or may have absorbed moisture from the air.

**NOTICE** To avoid serious damage to the braking system, do not use non-recommended fluids. Brake fluid can damage plastic and painted surface. Handle with care.

### **⚠ WARNING**

Avoid getting brake fluid on skin or in eyes – it may cause severe burns. In case of contact with the skin, wash thoroughly. In case of contact with the eyes, immediately rinse with plenty of water for at least 10 minutes and then consult a doctor immediately.

Check the brake fluid level as follows:

### **⚠ WARNING**

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

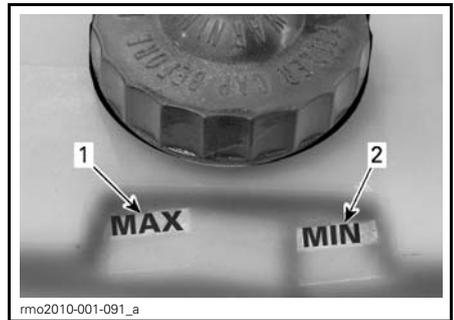
1. Park the vehicle on a firm, level surface.
2. Unlatch and lift the seat *OPENING THE SEAT* (p. 39).

3. Check the brake fluid level in both reservoirs, near the back of the seat. They should both be above the MIN. mark.

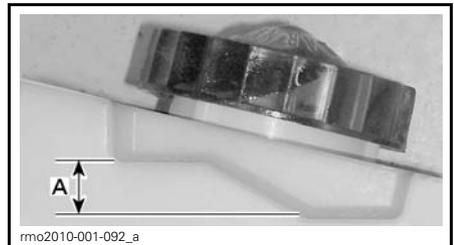


1. Brake fluid reservoir

4. Clean the filler caps before removing.
5. Add fluid as required. Do not overfill.



1. Brake fluid MAX. level mark  
2. Brake fluid MIN. level mark



A. Operating range

6. Immediately wipe up spills if necessary.
7. Reinstall both caps of the reservoir.
8. Close the seat and ensure it is fully latched.

**NOTE:** Low brake fluid may indicate leaks or worn brake pads. See an authorized Can-Am roadster dealer.

### 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* (p. 110):

- 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.

See an authorized Can-Am roadster dealer if there are any problems with the brake system.

## Battery

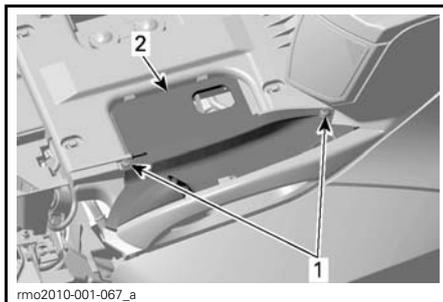
### Battery Location

The battery is located under the seat on the rear.

To access the battery:

Remove the rear side panel (p. 117).

Remove battery panel.



1. Retaining screws
2. Battery 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 as the battery is installed sideways on the vehicle. 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. The battery terminals are located under the seat.

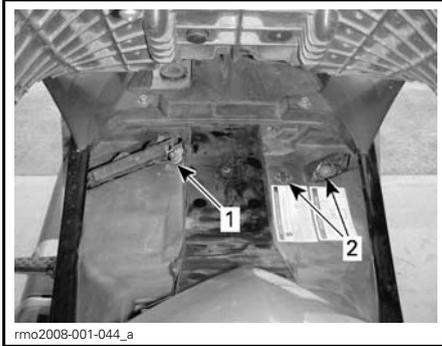
**NOTICE** Follow the instructions provided with your battery charger. Improper charging may damage the battery.

To charge the battery, proceed as follows:

1. Unlatch and lift the seat.
2. First connect the POSITIVE (+) cable to the corresponding terminal.

3. 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

4. Start the battery charger. Charging time will depend on the charging rate.

When the battery is charged:

5. First disconnect the NEGATIVE (-) cable.
6. Disconnect the POSITIVE (+) cable.

**NOTICE** Always disconnect the NEGATIVE (-) cable first to avoid damaging the electrical system of the vehicle.

7. Close the seat and ensure that it is latched.

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 (p. 138).

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.

## Clutch Fluid (SM5 Model)

Check the clutch fluid level when the clutch does not operate normally or when it is difficult to shift gears with the gearshift lever.

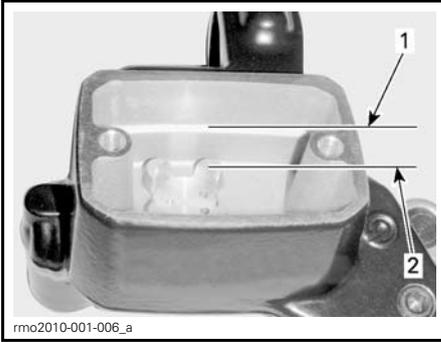
The clutch fluid reservoir is near the reverse button on the left handlebar.

Check the clutch fluid level as follows:

1. Park the vehicle on a firm, level surface.
2. Set the handlebar in the straight ahead position.
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.
8. Level should be within the maximum level line and the minimum level indicated by the protuberances in the bottom of reservoir.



**FLUID REMOVED FOR CLARITY PURPOSE**

1. Maximum level line
  2. Minimum level (top of protuberance)
9. If the fluid level is lower than specified, add fluid to the reservoir up to the maximum level line. Use only DOT 4 brake fluid.
  10. Add fluid as required. Do not overfill.

**⚠ WARNING**

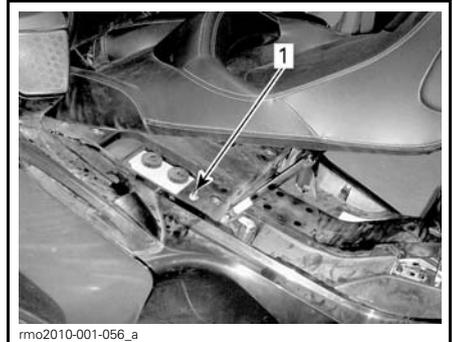
Avoid getting brake fluid on skin or in eyes — it may cause severe burns. In case of contact with the skin, wash thoroughly. In case of contact with the eyes, immediately rinse with plenty of water for at least 10 minutes and then consult a doctor immediately.

11. Immediately wipe up spills if necessary.
12. Ensure that the seal located inside the cap is collapsed.
13. Reinstall the cap to the reservoir.
14. Tighten cap screws.
15. Wipe off reservoir if necessary.

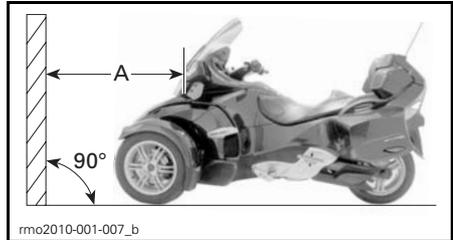
**Headlights and Fog Lights**

**Headlights Aiming Verification**

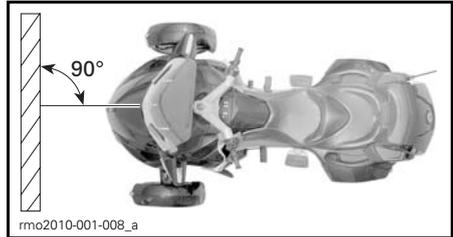
1. Set the rear suspension air pressure to 0 kPa (0 PSI) using the schrader valve located under the seat.



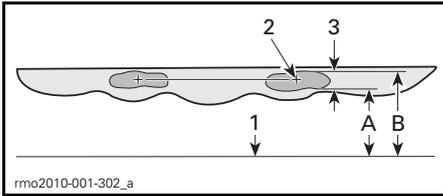
1. Schrader valve
2. Position the vehicle 10 m (33 ft) in front of a test surface (wall or screen).



- A. 10 m (33 ft)

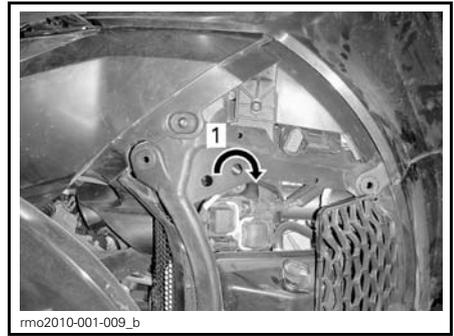


3. On the test surface, trace a mark at 642 mm (25.3 in) above ground then another at 732 mm (28.8 in).
4. Select low beam.
5. Beam aiming is correct when the focus point (brightest spot) of the headlight reflection is within the marks.



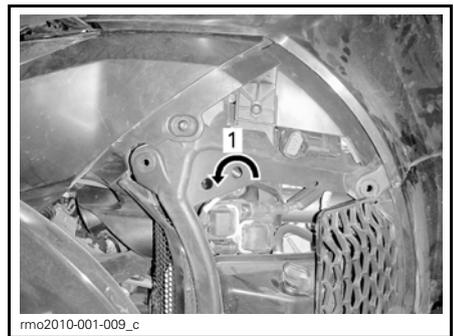
**TYPICAL HEADLIGHT REFLECTION ON SURFACE TEST**

1. Ground
2. Focus point
3. Focus point within the marks
- A. Mark at 642 mm (25.3 in) above ground
- B. Mark at 732 mm (28.8 in) above ground



**LEFT ADJUSTMENT SCREW**

1. To raise headlight beam

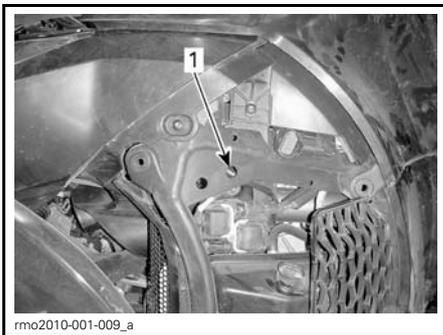


**ADJUSTMENT SCREW**

1. To lower headlight beam

**Headlights Aiming Adjustment**

1. Each headlight can be adjusted by turning the adjustment screws located behind the middle side panel.
2. Remove both middle side panels. Refer to *BODY* section.
3. Use the Allen key located in toolkit.
4. Insert the Allen key through the rear adjustment hole into the adjustment screw.



**LEFT SIDE SHOWN**

1. Adjust through this hole

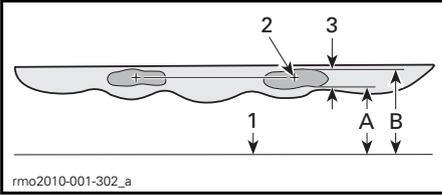
5. Turn the adjustment screw clockwise to raise the headlight beam and conversely turn the adjustment screw counterclockwise to lower the headlight beam. Adjust both headlights evenly.

**NOTE:** The high beam becomes adjusted at the same time.

6. Reinstall middle side panels. Refer to *BODY* section.

**Fog Lights Aiming Adjustment (Option Package)**

On the test surface, trace a mark at 415 mm (16-5/16 in) above ground then another at 515 mm (20-9/32 in).



**TYPICAL FOG LIGHTS REFLECTION ON SURFACE TEST**

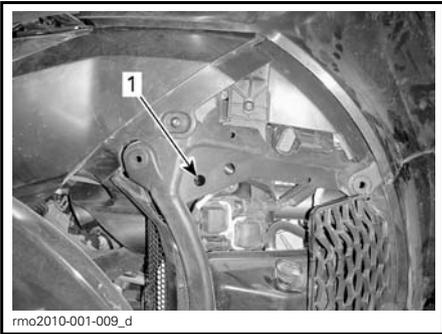
1. Ground
  2. Focus point
  3. Focus point within the marks
- A. Mark at 415 mm (16-5/16 in) above ground  
 B. Mark at 515 mm (20-9/32 in) above ground

Proceed as for headlights adjustment but use the front adjustment screw instead.

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.

3. While washing the vehicle, check for grease or oil. You can use BRP PLASTIC & VINYL CLEANER (P/N 413 711 200) or a mild automotive degreaser. Thoroughly follow the manufacturer's instructions.
4. Dry the vehicle with a chamois or a soft towel.



**LEFT SIDE SHOWN**  
 1. Adjust through this hole

**Vehicle Waxing**

Apply only nonabrasive wax safe for clearcoat paints on glossy finishes.

Avoid applying wax on matte surfaces.

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.

**Vehicle Body**

**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** Do not clean the windshield with alkaline or acid cleaner, gasoline or solvent to avoid windshield damage.

To clean the vehicle:

1. Rinse the vehicle thoroughly with water to remove loose dirt.

# ***ROAD SIDE REPAIRS***

# PROBLEMS

**NOTICE** If the vehicle must be transported, do not have it towed — towing can seriously damage the vehicle. Refer to *TRANSPORTING THE SPYDER ROADSTER* (p. 106) for detailed instructions.

## Will not Shift into First Gear (SM5 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 (SE5 Model)

If the gearbox cannot shift into neutral when vehicle is not moving:

1. The engine speed will be automatically increased to approximately 1800 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.

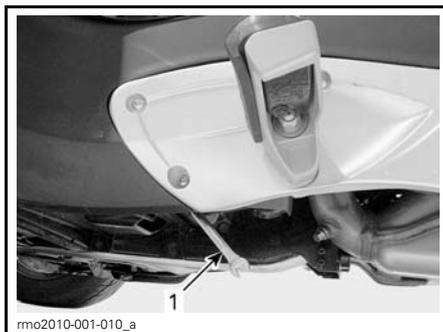
## Will not Shift (SE5 Model)

If a transmission control failure occurs, you can manually move the transmission in gear.

1. Stop the engine.

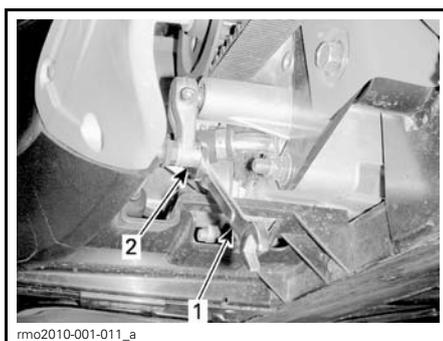
**NOTICE** The engine must be stopped before you manually move the transmission.

2. From underneath the vehicle on the left side of engine, place the 13 mm open wrench (from toolkit) on the hexagonal nut of shifting shaft cam where shown.



LEFT SIDE OF ENGINE

1. 13 mm wrench



UNDERNEATH LH SIDE OF VEHICLE

1. 13 mm wrench
2. Shifting shaft cam

3. Rotate the wrench clockwise to downshift.



DOWNSHIFT



**UPSHIFT**

4. Rotate the wrench counterclockwise to upshift.

**NOTICE** Do not force shifting mechanism. If unable to shift, rock the vehicle back and forth to move the gears in the transmission and try again.

**⚠ WARNING**

When you will restart the vehicle, it will be in gear. Do not apply throttle unless you are ready to go.

**NOTE:** SE5 model will not start in gear without brake pedal depressed.

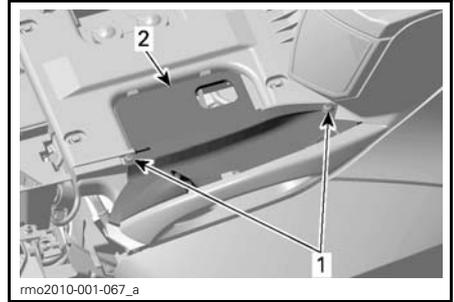
**Lost Keys**

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 D.E.S.S. electronic module, 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**

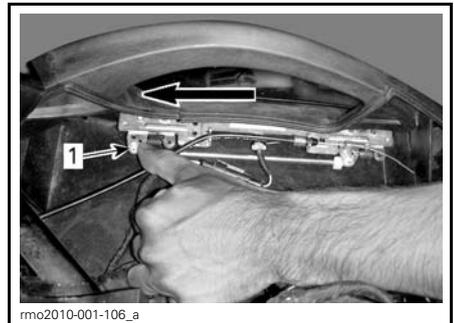
1. Retaining screws
2. Panel

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 SPYDER ROADSTER* (p. 106) 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**

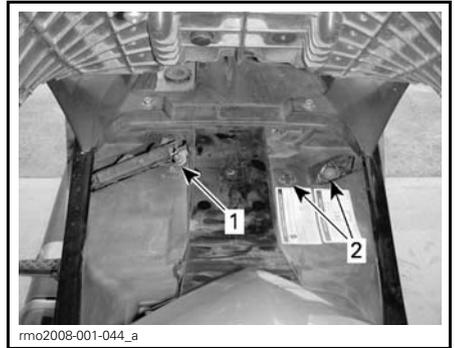
Connect the jumper cables as specified in the jump start procedure.

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 on the left side 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. Unlatch and lift the seat of the Spyder roadster *OPENING THE SEAT* (p. 39).
6. Make sure the ignition switch is set to OFF.
7. Connect one end of the red POSITIVE (+) jumper cable to the POSITIVE (+) terminal under the seat of the Spyder roadster.

8. Connect the other end of the red POSITIVE (+) jumper cable to the POSITIVE (+) terminal of the booster battery.
9. Connect one end of the black NEGATIVE (-) jumper cable to the NEGATIVE (-) terminal of the booster battery.
10. Connect the other end of the black NEGATIVE (-) jumper cable to the NEGATIVE (-) terminal under the seat of the Spyder roadster.



1. NEGATIVE (-) terminal
2. POSITIVE (+) terminal

11. 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 (p. 106) and repaired by the nearest authorized Can-Am roadster dealer.
12. As soon as the engine starts, disconnect both jumper cables in the reverse connection order, starting with the NEGATIVE (-) cable connected to the Spyder roadster.
13. Run the engine at an idle of 1200 to 1500 RPM for a couple of minutes.

14. Have the battery fully recharged with a battery charger (p.130) or by a qualified service station as soon as possible.

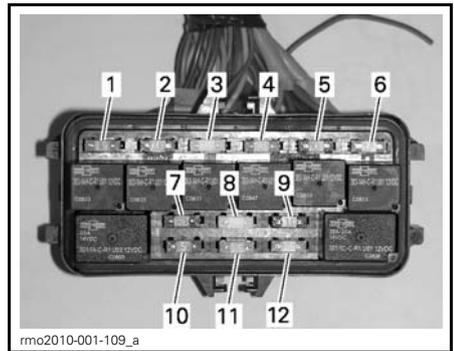
If the engine dies shortly after it has been jump started or when the jumper cables are disconnected, there might be a problem with the charging system. Have the vehicle transported (p. 106) and repaired by the nearest authorized Can-Am roadster dealer.

After recharging battery, have the vehicle inspected by an authorized Can-Am roadster dealer.



1. Fuse box located under the seat

### Fuse Description



FUSES LOCATED IN FRONT STORAGE COMPARTMENT

## Electrical Accessories Failure

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.

## Fuses

### Fuse Locations

Fuses are located:

- In the front storage compartment.
- Under the seat on the right side of the vehicle.



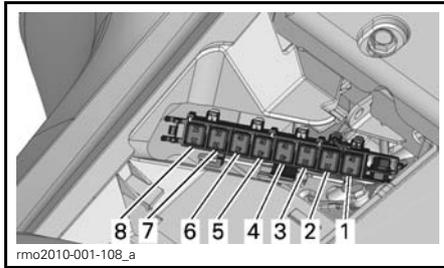
**TYPICAL**

1. Fuse box in front storage compartment

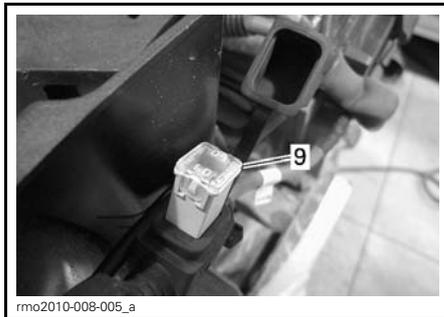
NO.	DESCRIPTION	RATING
1	Lights: tail, position, plate & day Vbat: Cluster, VIM & DLC	15 A
2	Vbat Control: main relays Vkey: SAS, YRS, VCM, ECM, D.E.S.S., PRS & MSR	10 A
3	Vbat: Main relay Vrelayed: WPM, CL, FG, CTG, PBS pilot light, TCM, DPS	25 A
4	Vbat: Cooling fan relay	15 A
5	Vbat: Hazard, brake light switch	10 A
6	Vbat: radio (XM, CB, GPS, "iPod")	15 A
7	Vbat: Backup actuator & trailer module	10 A

NO.	DESCRIPTION	RATING
8	Vbat: Horn, shedding relay Vrelayed: suspension relay, heated grips, HA, LED Pilot lights: CSS, FHS, FGS	20 A
9	Vbat: Accessory plugs	10 A
10	Vrelayed: ECM	5 A
11	Vrelayed: Injectors & ignition coils	15 A
12	Vrelayed: HO2S1 & 2, EVAP, CAPS, fuel pump motor, CSV, pre-starting relay	15 A

NO.	DESCRIPTION	RATING
1	Accessories	40 A
2	TCM valves (SE5 model)	20 A
3	Spare	60 A
4	Main fuse	40 A
5	Dynamic Power Steering (DPS) motor	40 A
6	VSS pump	40 A
7	Headlights	30 A
8	VSS valves	25 A
9	Rectifier	60 A



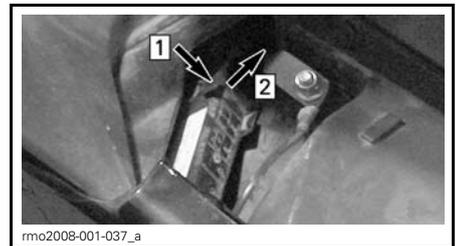
*FUSES LOCATED UNDER THE SEAT*



*FUSE LOCATED UNDER THE LH REAR SIDE PANEL*

### Fuse Replacement

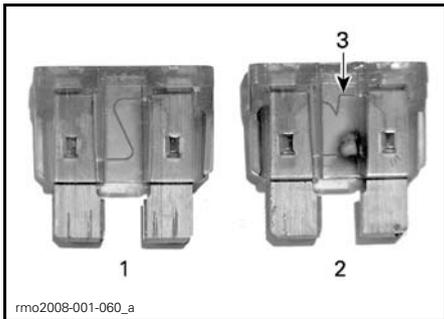
1. Open either the front storage compartment cover or the seat to access the relevant fuse box.
2. Set the ignition switch to OFF.
3. To open the fuse box under the seat, push down on the tab and pull off the cover.



### *OPENING FUSE BOX UNDER SEAT*

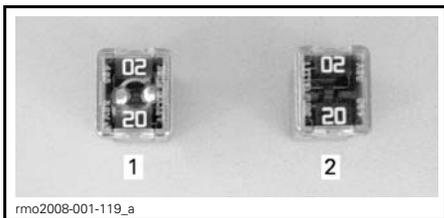
- Step 1: Push tab*  
*Step 2: Pull cover*

4. Pull the fuse out. A fuse removal tool is available in the fuse box located behind the front storage compartment under the service cover.
5. Check whether the filament is melted.



**FUSE IN THE FRONT STORAGE COMPARTMENT**

1. Good fuse
2. Blown fuse
3. Melted filament



**FUSE UNDER THE SEAT**

1. Good fuse
2. Blown fuse

6. Replace the fuse with one with the same rating.

**NOTICE** Using a higher-rated fuse can cause severe damage.

7. Install or close the fuse box cover.
8. Close the front storage compartment or seat.

**Light Failure**

**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.

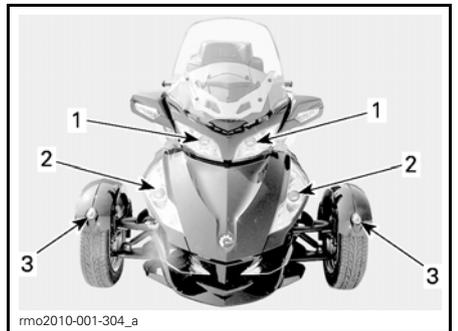
If a light described here stop working on the vehicle, replace bulb of defective light. The lights not described here should be serviced by an authorized Can-Am roadster dealer.

If the light failure still occurs, have the vehicle serviced by an authorized Can-Am roadster dealer.

**⚠ WARNING**

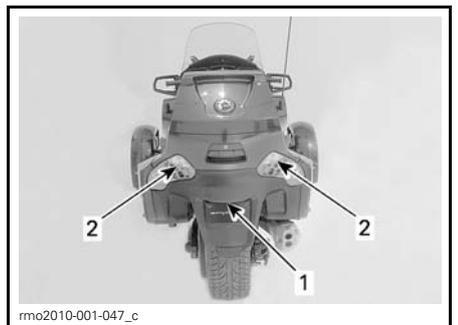
**Always turn the ignition switch to the OFF position before replacing a bulb to avoid electric shock.**

Always check light operation after replacement.



**LIGHTS LOCATION — FRONT OF VEHICLE**

1. Headlight
2. Fog light (option package)
3. Position light



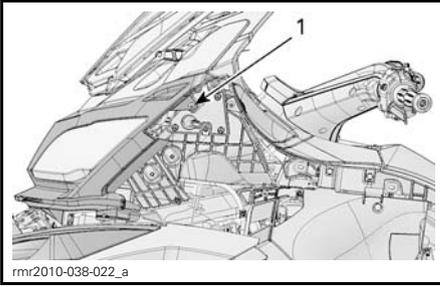
**LIGHTS LOCATION – REAR OF VEHICLE**

1. License plate light
2. Backup light

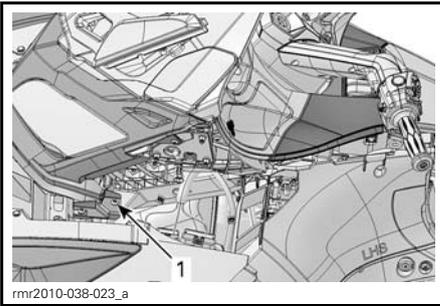
**Headlight**

1. Remove the top side panel.
2. Remove the upper retaining screws from front fascia.

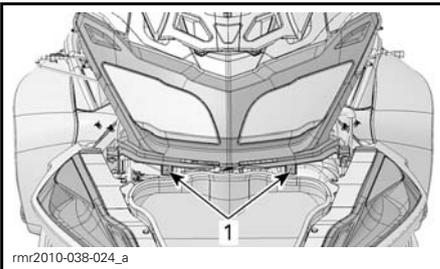
**PROBLEMS**



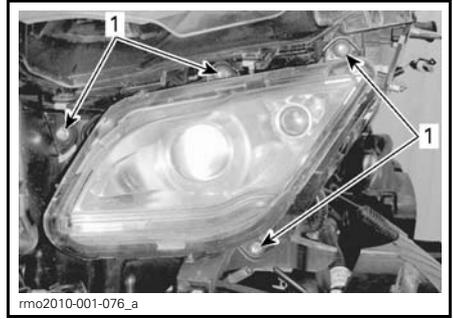
1. Upper retaining screw
3. Remove middle retaining screws from front fascia.



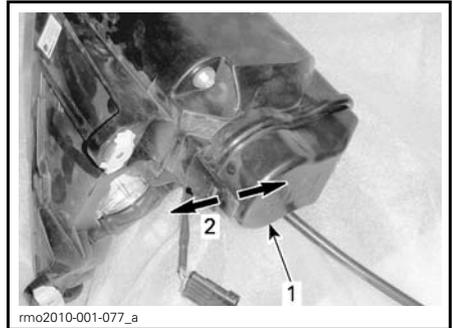
1. Middle retaining screw
4. Remove lower retaining screws and washers from front fascia.



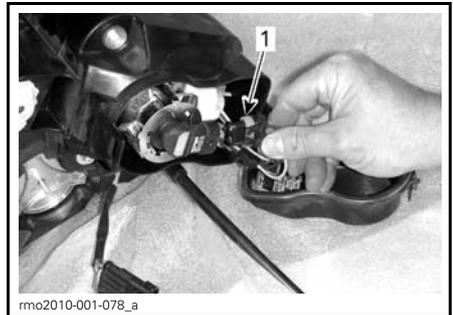
1. Lower retaining screw
5. Remove front fascia from vehicle.
6. Remove from headlight the 4 retaining screws.



1. Retaining screws
7. Pull apart the tabs to unlock cover.



1. Headlight cover
2. Pull tabs apart
8. Pull cover out.
9. Disconnect the bulb connector.



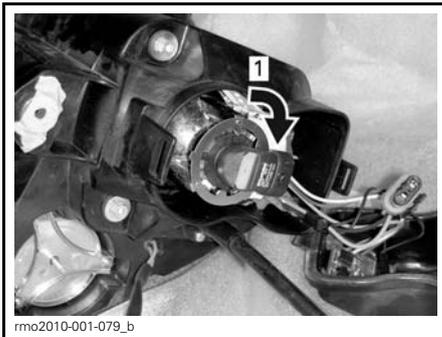
1. Unplug connector
10. Turn the bulb counterclockwise to unlock it.



1. Turn counterclockwise

11. Pull bulb out.
12. 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

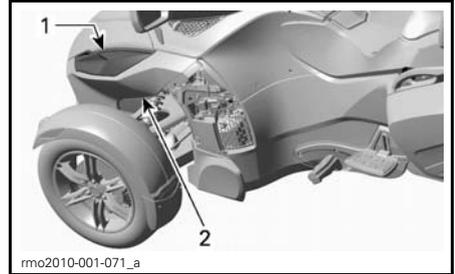
13. Plug connector to the bulb.
14. Reinstall headlight cover and remaining parts in the reverse order of the removal.

### Fog Light (Option Package)

Remove the middle side panel to better see the fog light back area.

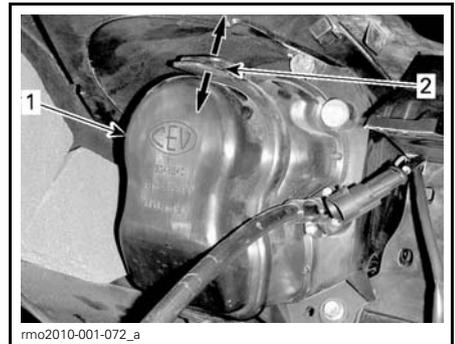
Clean the back area of fog light.

Insert your hand through the opening above the upper arm of front suspension.



1. Fog light
2. Access to the fog light bulb

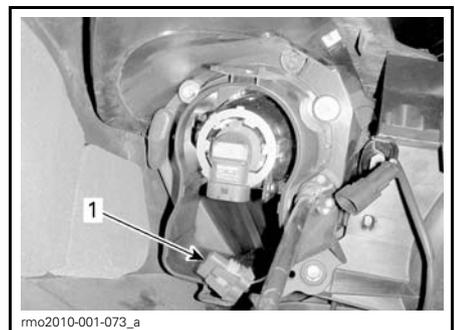
Pull apart the tabs to unlock cover.



1. Fog light cover
2. Pull tabs apart

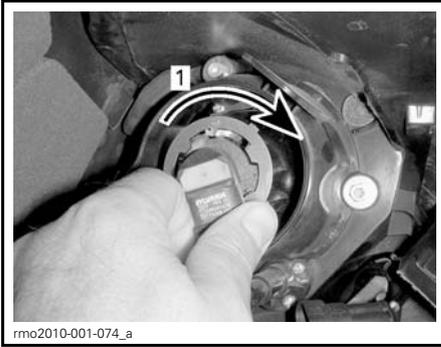
Pull cover out.

Disconnect bulb connector.



1. Unplugged connector

Turn bulb counterclockwise to unlock it.

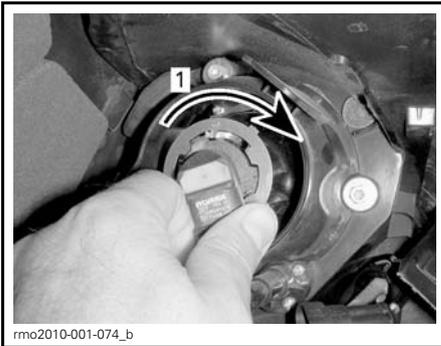


1. Turn counterclockwise

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 fog light cover and middle side panel in the reverse order of the removal.

### Position Light

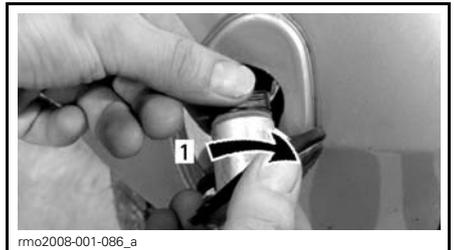
1. Push then hold lens towards rear of fender.



2. Lift front portion of lens with your thumb or a small screwdriver to release.

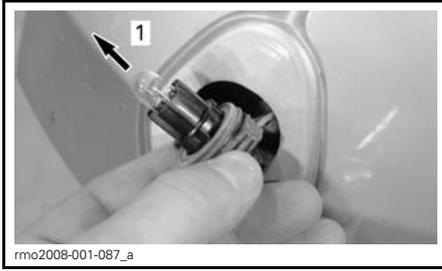


3. Turn the bulb holder clockwise and remove it from the connector.



1. Turn clockwise

4. Pull out the bulb from 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.

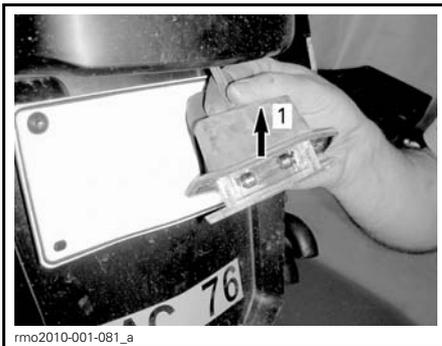
### License Plate Light

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.

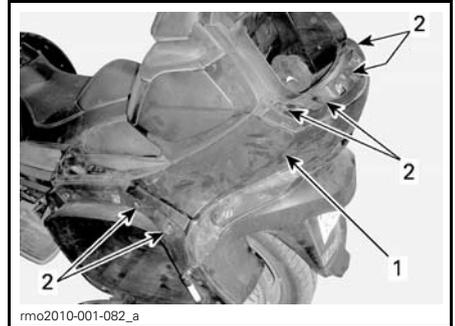


1. Pull out

4. Install the new bulb by pushing it in.
5. Reinstall the lens.

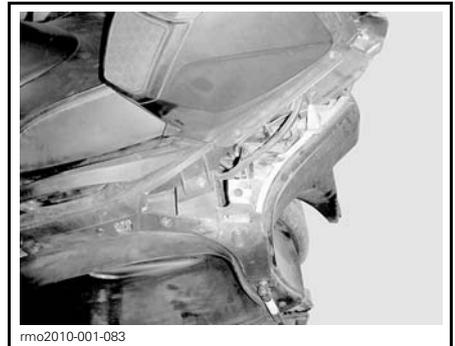
### Backup Light

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.

---

## 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.*
3. Clutch lever not engaged (SM5 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 (p. 130).*
  - *Check the battery connections under the seat and on the battery terminals (p. 130).*
6. Blown fuse.
  - *Check fuse condition (p. 139).*
7. Transmission is in gear (SE5 model).
  - *Depress brake pedal if transmission is in gear.*

---

### ENGINE TURNS OVER, BUT DOES NOT START

---

1. Low fuel.
  - *Fill the fuel tank. Refer to (FUELING (p. 45)).*
2. Weak battery.
  - *Check battery charge. Recharge if necessary (p. 130).*
  - *Check the battery connections under the seat and on the battery terminals (p. 130).*
3. Engine management problem.
  - *Check to see whether the engine indicator lamp is ON while starting. See an authorized Can-Am roadster dealer.*

# 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 special messages.

If a fault is displayed, press the MODE button to skip the error message.

If a problem persists, go to an authorized Can-Am roadster dealer.

INDICATOR LAMP(S)	MAIN DIGITAL DISPLAY	CAUSE	WHAT TO DO
E displayed instead of selected gear	None	Gearbox position sensor malfunction	Have the vehicle repaired by an authorized Can-Am roadster dealer.
	N + R flashing quickly	Undetermined gear position	Stop vehicle and allow to reach neutral.
None	BAD KEY	Wrong or defective key	Use the right key for the vehicle or contact an authorized Can-Am roadster dealer.
	REAR STORAGE COMPARTMENT OPEN	Top or side storage compartment cover open	Close and latch cover.
	COMMUNICATION FAULT	CAN (controller area network) communication problem	Have the vehicle repaired by an authorized Can-Am roadster dealer. *If vehicle is not functional, have the vehicle transported to the nearest authorized Can-Am roadster dealer.
	On	HI TEMP LIMP HOME	Engine is overheating *Have the vehicle transported to the nearest authorized Can-Am roadster dealer.
	On	LO BATT VOLT	Low battery voltage – Recharge battery (p. 130). – Check battery connections.
	On	HI BATT VOLT	High battery voltage Have the vehicle transported to the nearest authorized Can-Am roadster dealer. NOTE: This message will be displayed if a defective battery charger is used.
	On	ABS FAULT	ABS malfunction. No ABS operation Have the vehicle transported to the nearest authorized Can-Am roadster dealer.
	On	VSS FAULT LIMP HOME	VSS malfunction *Have the vehicle transported to the nearest authorized Can-Am roadster dealer.
	On	SEAT SWITCH DEFECTIVE	Defective pillion rider seat switch Check fuse (p. 139).

INDICATOR LAMP(S)		MAIN DIGITAL DISPLAY	CAUSE	WHAT TO DO
	On	EBD FAULT	VSS malfunction	Have the vehicle transported to the nearest authorized Can-Am roadster dealer.
	On	BRAKE FAILURE	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 (p. 129).</li> </ul>
BRAKE FAILURE		Faulty parking brake or component	Check fuse no 3 ( <i>FUSES (p. 139)</i> ). Have the vehicle repaired by an authorized Can-Am roadster dealer.	
	On	ENGINE FAULT	Engine management component malfunction	Have the vehicle repaired by an authorized Can-Am roadster dealer.
	On	CHECK DPS	Dynamic power steering component malfunction	Have the vehicle repaired by an authorized Can-Am roadster dealer.
	On	CHECK TCM	Transmission Control Module component malfunction	<ul style="list-style-type: none"> <li>– Remove and reinsert key.</li> <li>– Have the vehicle repaired by an authorized Can-Am roadster dealer.</li> </ul>
	Flashing	LIMP HOME	Important engine management component or VSS malfunction	*Have the vehicle transported to the nearest authorized Can-Am roadster dealer.
	On	None	Low oil pressure	<ul style="list-style-type: none"> <li>– Check for oil leaks.</li> <li>– Check oil level and adjust (p. 122).</li> </ul> <p>If the problem remains, have the vehicle transported to the nearest authorized Can-Am roadster dealer.</p>
	On	None	Low fuel level	Fill fuel tank <i>FUELING (p. 45)</i> .

\* 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.

***This page is  
intentionally blank***

# ***TECHNICAL INFORMATION***



# SPECIFICATIONS

MODEL			SPYDER RT		
ENGINE					
Engine type			ROTAX 991 60° V-Twin		
			4-stroke, Dual Over Head Camshaft (DOHC), liquid cooled		
Number of cylinders			2		
Number of valves			8 valves		
Bore			97 mm (3.82 in)		
Stroke			68 mm (2.68 in)		
Displacement			998 cm <sup>3</sup> (60.9 in <sup>3</sup> )		
Compression ratio			12.2:1		
Lubrication	Type		Dry sump with separate oil tank and oil cooler		
	Oil filter	Engine		BRP Rotax paper type, replaceable	
		Transmission (SE5)		BRP Rotax paper type, replaceable	
	Engine oil Capacity	Oil change with new engine filter	SM5	3.9 L (4.1 qt (U.S. liq.))	
		Oil change with new engine filter	SE5	4.2 L (4.4 qt (U.S. liq.))	
		Oil change with new engine and HCM filters		4.3 L (4.5 qt (U.S. liq.))	
	Recommended Engine Oil			XPS SYNTHETIC BLEND OIL (SUMMER GRADE) (P/N 293 600 121) or a 5W 40 semi-synthetic (minimum) or synthetic motorcycle oil meeting the requirements for API service SL, SJ, SH or SG classification	
Clutch	SM5 model	Type	Wet, multi-plate, manual operation through a hydraulic piston, vacuum assist		
		Fluid	DOT 4		
	SE5 model	Type	Centrifugal clutch + wet multi-plate clutch automatically controlled by TCM		
		Engage-ment	2000 +/- 200 RPM (centrifugal)		
		Stall	3200 +/- 200 RPM (centrifugal)		
Exhaust system			2 into 1 with catalytic converter		
Air filter			Paper element		

**SPECIFICATIONS**

<b>MODEL</b>		<b>SPYDER RT</b>
<b>GEARBOX</b>		
Type	SM5	Sequential Manual 5-speed (SM5) with reverse
	SE5	Sequential Electronic 5-speed (SE5) with reverse
<b>COOLING SYSTEM</b>		
Type		Liquid cooled, single radiator with cooling fan
Coolant	Type	Ethyl glycol/water mix (50% coolant, 50% water). Use premixed coolant sold by BRP (P/N 219 700 362) or coolant specifically designed for aluminum engines
	Capacity	3.2 L (.85 U.S. gal.)
<b>ELECTRICAL SYSTEM</b>		
Magneto generator output		650 W at 2000 RPM
Ignition system type		Electronic ignition with dual output coil
Ignition timing		Electronically controlled, not adjustable
Spark plug	Quantity	2
	Make and type	NGK DCPR9E (apply heat-sink paste P12 (P/N 420 897 186) on spark plug thread)
	Gap	0.7 mm to 0.8 mm (.028 in to .031 in)
Engine RPM limiter setting	Forward	9500 RPM
Battery	Type	Maintenance free
	Voltage	12 volts
	Nominal rating	21 A•h
	Recommended charging rate	2 A
Headlight		2 x 55 W Halogen
Fog light (Spyder RT-S)		2 x 35 W Halogen
Taillight/brake light		2 x 0.25 W/2 x 2.5 W
Turn signal lights	Front	2 x 4.5 W
	Rear	2 x 20 W
Position lights		2 x 5 W
License plate light		5 W
Backup light		2 x 20 W
Day light (Spyder RT-S)		0.5 W
Front storage compartment light (Spyder RT-S)		0.15 W
Fuses		Refer to <i>FUSES</i> (p. 139)

MODEL		SPYDER RT	
<b>FUEL SYSTEM</b>			
Fuel delivery	Type	Multi-point Electronic Fuel Injection (EFI) with ETC (Electronic Throttle Control) Dual throttle body (51 mm) with an actuator	
Fuel pump	Type	Electrical module in fuel tank	
Idle speed		1400 ± 100 RPM (electronically controlled, not adjustable)	
Fuel	Type	Regular unleaded gasoline	
	Octane no.	Inside North America	Recommended for optimum performance: 91 (R+M)/2 Minimum: 87 (R+M)/2
		Outside North America	Recommended for optimum performance: 95 RON Minimum: 92 RON
Fuel tank capacity		25 L (6.6 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		151 mm (5.9 in)	
Shock absorber	Qty	2	
	Type	Oil damper	
Spring preload adjustment		5 position cam adjustment	
<b>REAR SUSPENSION</b>			
Suspension type		Air Controlled Suspension (ACS) Compressor-controlled (ACS with remote adjustment only) Swing arm with monoshock	
Suspension travel		145 mm (5.7 in)	
Shock absorber	Qty	1	
	Type	Oil damper	
Preload adjustment (ACS with manual adjustment)		Adjustable air pressure: 135 kPa to 625 kPa (20 PSI to 90 PSI)	
Preload adjustment (ACS with remote adjustment)		5 positions	

**SPECIFICATIONS**

<b>MODEL</b>		<b>SPYDER RT</b>
<b>BRAKES</b>		
Type		Foot-actuated, fully integrated hydraulic 3-wheel braking system with ABS and EBD
Front brake		Dual discs (250 mm (9.8 in) x 6 mm (.24 in)) with 4 piston calipers
Rear brake		Single disc (250 mm (9.8 in) x 6 mm (.24 in)) with 1 piston caliper
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		5.33 mm (.21 in)
Maximum brake disc warp		0.13 mm (.005 in)
<b>TIRES</b>		
Type (use only tires recommended by BRP)	Front	MC 165/65R14 47H (special motorcycle type)
	Rear	MC 225/50R15 76H (special motorcycle type)
Pressure	Front	Nominal.: 103 kPa (15 PSI) Min.: 89 kPa (13 PSI) Max.: 117 kPa (17 PSI)
	Rear	Nominal.: 193 kPa (28 PSI) Min.: 179 kPa (26 PSI) Max.: 207 kPa (30 PSI) <b>NOTE:</b> The pressure difference between the left and right side tire should not exceed 3.4 kPa (.5 PSI).
Minimum tire tread depth	Front	2.5 mm (3/32 in)
	Rear	4 mm (5/32 in)
<b>WHEELS</b>		
Size (diameter X width)	Front	355 mm (14 in) x 127 mm (5 in)
	Rear	381 mm (15 in) x 178 mm (7 in)
Front wheel nuts torque		90 N•m to 120 N•m (66 lbf•ft to 89 lbf•ft)
Rear drive axle nut torque		123 N•m to 137 N•m (91 lbf•ft to 101 lbf•ft)

MODEL		SPYDER RT
<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		780 mm (30.7 in)
Wheelbase		1 708 mm (67.2 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 (Spyder RT)		400 kg (882 lb)
Dry weight (Spyder RT Audio & Convenience Package)		413 kg (911 lb)
Dry weight (Spyder RT-S)		422 kg (930 lb)
Front storage compartment	Capacity	55 L (14.5 U.S. gal.)
	Maximum load	16 kg (35 lb)
Glove box	Capacity	1.8 L (.5 U.S. gal.)
	Maximum load	2 kg (4 lb)
Side storage compartment	Capacity	23.5 L (6.2 U.S. gal.)
	Maximum load	7 kg (15 lb)
Rear storage compartment	Capacity	40.5 L (10.7 U.S. gal.)
	Maximum load	9 kg (20 lb)
Total vehicle load allowed (including operator, passenger, cargo and added accessories)		240 kg (525 lb)
Gross vehicle weight rating (GVWR)		663 kg (1,462 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.

***This page is  
intentionally blank***

# ***WARRANTY***

---

# **BRP LIMITED WARRANTY — USA AND CANADA: 2010 Can-Am™ SPYDER™ ROADSTER**

## **1. SCOPE OF THE LIMITED WARRANTY**

Bombardier Recreational Products Inc. (“BRP”)\* warrants its 2010 Can-Am Spyder roadsters sold by authorized Spyder Dealers (as defined below) in the fifty United States and in Canada 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 Spyder roadster was used for racing or any other competitive activity, at any point, even by a previous owner; (2) the odometer was removed or has been tempered with; (3) the Spyder roadster was used off-road; or (4) the Spyder roadster 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 Spyder parts and accessories installed on the roadster by an authorized Spyder Dealer at the time of delivery of the roadster carry the same warranty as that of the roadster.

## **2. LIMITATIONS OF LIABILITY**

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. INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE EXCLUDED FROM COVERAGE UNDER THIS WARRANTY. SOME STATES/PROVINCES DO NOT ALLOW FOR THE DISCLAIMERS, LIMITATIONS AND 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 STATE TO STATE, OR PROVINCE TO PROVINCE.

Neither the distributor, any Spyder Dealer nor any other person has been authorized to make any affirmation, representation or warranty regarding the roadster, 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 roadsters sold while this warranty is in effect.

## **3. EXCLUSIONS — ARE NOT WARRANTED**

The following are not warranted under any circumstances:

- Replacement of routine maintenance items such as, without limitation, oil, lubricants, fluids, 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 roadster, including without limitation scratches, dents, fading, flaking, peeling and damages to seat cover material.

- Damage caused by failure to provide proper maintenance 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 roadster, or damage resulting from repairs done by a person that is not an authorized servicing Spyder Dealer.
- Damage resulting from the installation of parts with specifications that differ from the original Spyder parts, such as, without limitation, different tires, exhaust system, wheels or brakes.
- Damage resulting from abuse, abnormal use, neglect or operation of the Spyder roadster 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 fluids 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 towing, storage, telephone, rental, taxi, inconvenience, insurance coverage, loan payments, loss of time, loss of income.

#### **4. WARRANTY COVERAGE PERIOD**

This warranty will be in effect from the date of delivery to the first retail consumer or the date the roadster is first put into use, whichever occurs first and for the following periods:

1. for private, recreational use, **TWENTY FOUR (24) CONSECUTIVE MONTHS**, except for the items covered in points (2) to (5) below; and for commercial use **TWELVE (12) CONSECUTIVE MONTHS**, except for the items covered in points (2) to (5) below.  
A roadster is used commercially when it is used in connection with any work or employment that generates income, during any part of the warranty period. A roadster is also used commercially when, at any point during the warranty period, it is licensed for commercial use;
2. for the battery, **SIX (6) CONSECUTIVE MONTHS**;
3. for the tires, **6 CONSECUTIVE MONTHS** or until tires are worn to the last three thirty-seconds of an inch (3/32 inch) (2.38 millimeters) for the front tires and the last five thirty-seconds of an inch (5/32 inch) (3.97 millimeters) for the rear tire, whichever occurs first;
4. for Spyder roadsters sold to residents of the United States, **FIVE (5) YEARS or THIRTY THOUSAND (30 000) KILOMETERS (18,641 MILES)**, whichever occurs first, on the emission related components included in the chart below:

WARRANTY EMISSION PART LIST	
Oxygen sensor	Oil filler cap
Intake manifold	Catalytic converter
Ignition coil	Rear exhaust manifold
Spark plug wire (front cylinder)	Front exhaust manifold
Spark plug wire (rear cylinder)	Fuel return hose
Fuel tank	Evaporative Emission Control System (EVAP)
Fuel tank cap	Engine Control Module (ECM)

5. for Spyder roadsters produced for sale in the state of California, that are originally sold to residents or subsequently warranty registered to residents in the state of California, please also refer to the applicable California Emissions Control Warranty Statement.

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.

## 5. CONDITIONS TO HAVE WARRANTY COVERAGE

This warranty coverage is available **only** if **each** of the following conditions has been fulfilled:

- The Spyder roadster must be purchased as new and unused by its first owner from a Spyder dealer authorized to distribute Spyder roadsters in the country in which the sale occurred (“Spyder Dealer”).
- The BRP-specified pre-delivery inspection process must be completed, documented and signed by the purchaser.
- The Spyder roadster must have undergone proper warranty registration by an authorized Spyder Dealer.
- The Spyder roadster must be purchased in the country in which the purchaser resides.
- Routine maintenance must be performed as indicated in the Operator’s Guide. 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 the preceding conditions have 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 Spyder roadster upon the appearance of an anomaly. The customer must notify a servicing Spyder Dealer within two (2) days 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 Spyder 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.

## **7. WHAT BRP WILL DO**

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 Spyder parts without charge for parts and labor, at any authorized Spyder Dealer during the warranty coverage period. 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 Spyder roadster to the owner.

In the event that service is required outside of the country of original sale, 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 any products manufactured.

## **8. TRANSFER**

If the ownership of a Spyder roadster 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:

1. The former owner contacts BRP (at the phone number provided below) or an authorized Spyder Dealer and gives the coordinates of the new owner; or
2. BRP or an authorized Spyder 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**

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 dealership level. We recommend discussing the issue with the authorized Spyder Dealer's service manager or owner.

If the issue has not yet been resolved, please submit your complaint in writing or call the appropriate number below:

### **In Canada:**

**BOMBARDIER RECREATIONAL  
PRODUCTS INC.**  
SPYDER ROADSTER  
Customer Assistance Center  
75 J.-A. Bombardier Street  
Sherbrooke QC J1L 1W3  
Tel.: 819 566-3366

### **In USA:**

**BRP US INC.**  
SPYDER ROADSTER  
Customer Assistance Center  
7575 Bombardier Court  
Wausau WI 54401  
Tel.: 715 848-4957

# **CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT**

## **YOUR WARRANTY RIGHTS AND OBLIGATIONS:**

The California Air Resources Board and BRP US Inc. ("BRP")\*, on behalf of Bombardier Recreational Products Inc., are pleased to explain the emission control system warranty on your 2010 Can-Am Spyder roadster. In California, new motor vehicles must be designated, built and equipped to meet the State's stringent anti-smog standards. BRP must warrant the emission control system on your Spyder roadster for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your roadster.

Your emission control system may include parts such as the fuel-injection system, ignition system, catalytic converter and engine computer. Also included may be hoses, connectors and other emission-related assemblies. Where a warrantable condition exists, BRP will repair your roadster at no cost to you including diagnosis, parts and labor.

## **MANUFACTURER'S WARRANTY COVERAGE**

– For 5 years or 30 000 kilometers (19,000 miles), whichever occurs first.

## **OWNER'S WARRANTY RESPONSIBILITIES:**

As the Spyder roadster owner, you are responsible for the performance of the required maintenance listed in your Operator's Guide. BRP recommends that you retain all receipts covering maintenance on your roadster, but BRP cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

You are responsible for presenting your Spyder roadster to a Spyder dealer as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

As the Spyder roadster owner, you should also be aware that BRP may deny you warranty coverage if your roadster or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

If you have any questions regarding your warranty rights and responsibilities, you should contact BRP's customer assistance center at 1 715 848-4957 or the California Air Resource Board at 9528 Telstar Avenue, El Monte, CA 91731.

\* In the USA, products are distributed and serviced by BRP US Inc.

© 2009 Bombardier Recreational Products Inc. All rights reserved.

™ trademarks of Bombardier Recreational Products Inc. or its affiliates.

---

# **BRP LIMITED WARRANTY OUTSIDE USA AND CANADA: 2010 Can-Am™ SPYDER™ ROADSTER**

## **1. SCOPE OF THE LIMITED WARRANTY**

Bombardier Recreational Products Inc. ("BRP")\* warrants its 2010 Can-Am Spyder roadsters (the "Products") sold by authorized Can-Am Spyder roadster distributors and 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**

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 COUNTRIES OR 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.

Neither the authorized Distributors/Dealers nor any other person have 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 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 failure to provide proper maintenance 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 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 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:

1. 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;

2. for the battery, SIX (6) CONSECUTIVE MONTHS;
3. for the tires, 6 CONSECUTIVE MONTHS or until tires are worn to the last three thirty-second of an inch (3/32 inch) (2.38 millimeters) for the front tires and the last five thirty-second of an inch (5/32 inch) (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.

## 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 predelivery 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.
- 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 the preceding conditions have not been met. Such limitations are necessary in order to allow BRP to protect the safety of its products, 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**

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 above. 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.

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 modify products from time to time without assuming any obligation to modify all products 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:

1. 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
2. BRP or an authorized Distributor/Dealer receive a proof that the former owner agreed to the transfer of ownership, in addition to the coordinates of the new owner.

## **9. CONSUMER ASSISTANCE**

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 dealership level. We recommend discussing the issue with the authorized Distributor/Dealer's service manager or owner. In countries where there are authorized distributors, their coordinates may be found on [www.brp.com](http://www.brp.com).

If the issue is not resolved with the help of your authorized Distributor/Dealer, complaints may be submitted in writing or by calling BRP or one of its subsidiaries as follows.

### **For Countries within Europe, Middle East, Africa, Russia & 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 or our Canadian Office:**

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 distributors, coordinates on [www.brp.com](http://www.brp.com).

\* 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.

© 2009 Bombardier Recreational Products Inc. All rights reserved.

™ trademarks of Bombardier Recreational Products Inc. or its affiliates.

***This page is  
intentionally blank***

# ***CUSTOMER INFORMATION***

---

## 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, Quebec  
Canada,  
JOE 2L0

---

## 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

***This page is  
intentionally blank***





 **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.

219 000 721

CA

OPERATOR'S GUIDE, SPYDER RT / ENGLISH  
GUIDE DU CONDUCTEUR, SPYDER RT / ANGLAIS

FAIT AU / MADE IN CANADA

U/M:P.C.