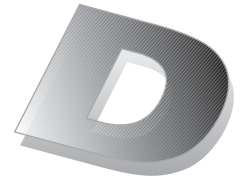




**ROADSTER
PREDELIVERY
Bulletin**



November 16, 2012 Subject: **Can-Am™ Spyder™ RS Predelivery Inspection**

No. **2013-1**

REVISION 2
March 14th, 2013

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2013	Spyder RS Series	Refer to table on next pages for complete listing	All

►Text(s) between arrows is (are) modified element(s) to the original publication.◄

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IMPORTANT NOTICE

This bulletin must be used in conjunction with the check list enclosed in the bag with the *OPERATOR'S GUIDE*. Make sure that Spyder roadster *PRE DELIVERY CHECK LIST* is completed and signed.

WARNING

To obtain warranty coverage, predelivery procedures must be performed by an authorized BRP Can-Am roadster dealer/distributor. Apply all necessary torques as indicated.

NOTE: The information and components/system descriptions 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, there might be some differences between the manufactured product and the descriptions and/or specifications in this document. BRP reserves the right at any time to discontinue or change specifications, designs, features, models or equipment without incurring obligation.

The illustrations in this document show the typical construction of the different assemblies and may not reproduce the full detail or exact shape of the parts. However, they represent parts that have the same or similar function.

The content of this bulletin is designed as a guideline only. All mechanics performing predelivery procedures should have attended the current model-year service training.

Further information or inquiries should be directed to your service representative and specific *SHOP MANUAL* sections.

Make sure the customer receives the *OPERATOR'S GUIDE*, *PREDELIVERY CHECK LIST* signed copy and *SAFETY DVD*.

WARNING

Torque wrench tightening specifications must be strictly adhered to. Where specified, install new locking devices (e.g. lock tabs, elastic stop nuts). If the efficiency of a locking device is impaired, it must be renewed.

UPDATE SUMMARY

This summary highlights updates to the Predelivery Inspection for MY2013. It does not supersede procedures detailed further in this publication.

IMPORTANT: Technicians should read and apply all procedures in this PDI bulletin as applicable to model.

APPLICABLE TO	UPDATE DESCRIPTION	REFERENCE
RS Models	Uncrating method	<i>UNCRATING</i>
	Battery installation	<i>PARTS TO BE INSTALLED</i>
	New rear fenders installation procedure	<i>REAR FENDER</i>

MODEL LISTING

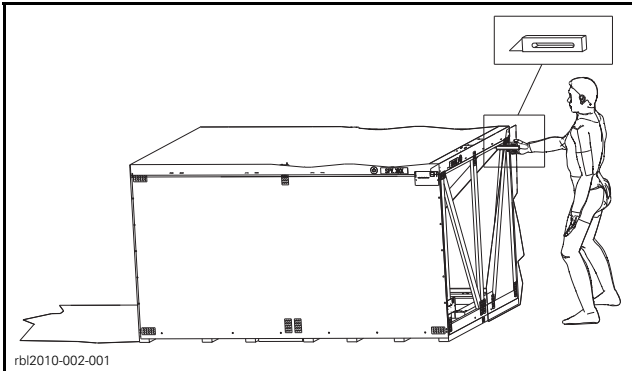
YEAR	MODEL	MODEL NUMBER	COUNTRY	PREDELIVERY KIT	SERIAL NUMBER
2013	Spyder RS SM5	A1DE	Brazil	(P/N 703 100 385)	All
		A1DC, A1DF	Canada United States of America		
		A1DB, A1DD	Europe		
	Spyder RS SE5	A2DD	Brazil		
		A2DC, A2DE	Canada United States of America		
		A2DB	Europe		
	Spyder RS-S SM5	B6DB, B6DC, B6DD, B6DE, B6DG, B6DH	Canada United States of America	(P/N 703 100 400)	
	Spyder RS-S SE5	B1DH, B1DJ	Australia		
		B1DL	Brazil		
		B1DB, B1DC, B1DD, B1DE, B1DG, B1DK, B1DM, B1DN	Canada United States of America		
B1DB, B1DD, B1DF		Europe			

UNCRATING

Crate Cover Removal

NOTICE Allowing the crate to drop may cause serious damage to vehicle.

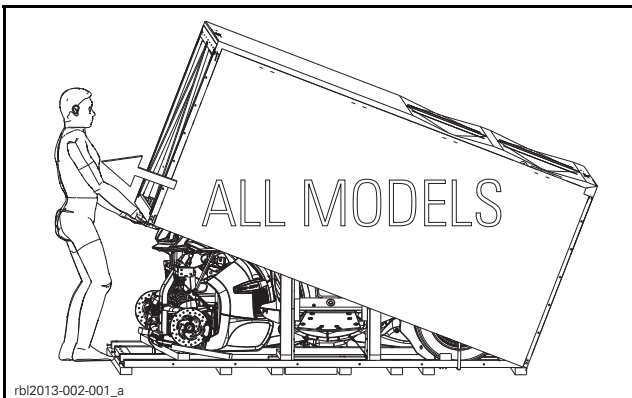
1. Position the crate on a firm, level surface.
2. Carefully cut both ends of crate tarpaulin to locate the front of vehicle.



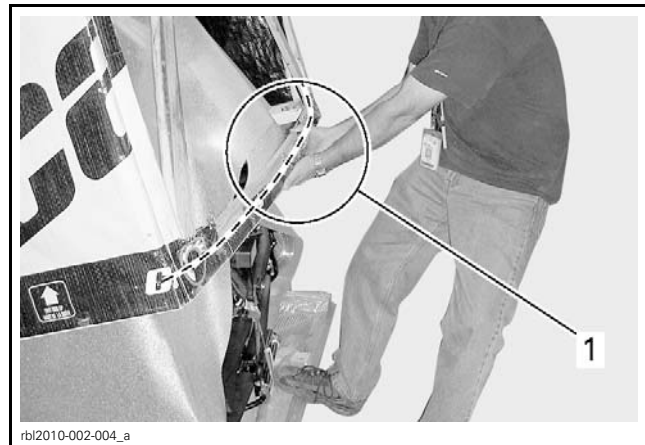
CUT BOTH END OF CRATE TARPAULIN

3. Remove all screws holding crate cover to crate base.
4. Tilt cover from the front side of the vehicle then pull cover toward you to clear vehicle fascia.

NOTICE Do not raise cover vertically. Tilt cover located on the front side of the vehicle. Refer to illustration.



TYPICAL - TILT COVER THEN PULL IT



FRONT OF VEHICLE

1. Pull crate cover to clear front fascia of the vehicle

NOTICE The crate cover must be pulled toward the outside while lifting it to avoid to damage vehicle.

NOTE: Screws that are used are Robertson† #2 type (or equivalent) that require the use of an appropriate screwdriver.

Parts and Sub-crates Removal

NOTICE Be careful not to scratch the cover bumper and the front fascia.

NOTE: The sub-crates are located on each side of the vehicle.

1. Remove protective foam from vehicle.



2. On LH side, remove all screws holding front cargo module sub-crate.

† Robertson is a registered trademark of Robertson Inc.



rbl2013-002-002_a

TYPICAL - LH SIDE

1. Sub-crate that contains front cargo module

3. Remove front wheels from crate base.

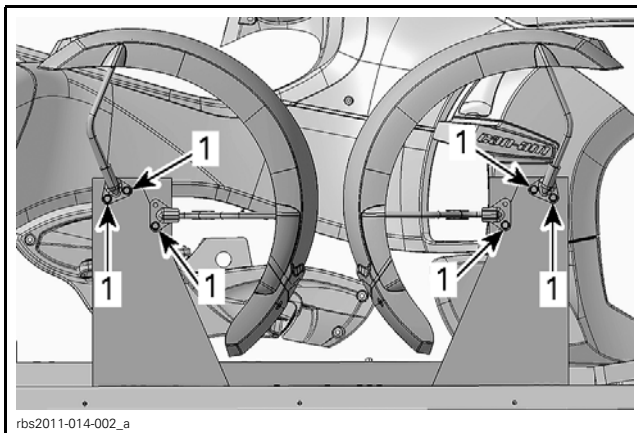


rbl2013-003-001_b

TYPICAL

1. Front wheels

4. On RH side, remove six bolts and two fenders from sub-crate.



rbs2011-014-002_a

TYPICAL - RH SIDE - SUB-CRATE THAT CONTAINS FRONT FENDER

1. Bolts

5. On RH side, remove all **nails** holding front fender sub-crate and remove sub-crate.**Parts Check**

Ensure that the crate includes the following items (inside front storage compartment or secured to front of vehicle):

DESCRIPTION	MODEL	QTY
Operator's guide	All	1
Predelivery check list		1
Safety DVD		1
Predelivery kit		1
Service cover		1
Wheel caps		2
Fender reinforcement brackets		2

The predelivery kit includes the following items:

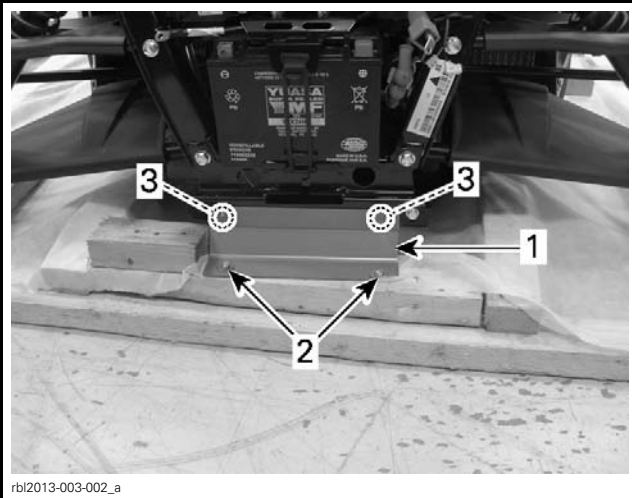
DESCRIPTION (LOCATION)	QTY
Wheel lug nut - chrome (front wheel) (RS)	6
Wheel lug nut - black (front wheel) (RS-S)	6
M6 X 20 hexagonal flange screw (front storage compartment)	4
M6 X 12 hexagonal flange screw (front storage compartment)	2
M6 panel nut (body panels)	4
M6 x 20 Torx screw (body panels)	4
Plastic washer (body panels)	4
M8 x 20 hexagonal flange screw (front fender)	8
M6 x 12 hexagonal flange screw (rear fender reinforcement)	4
Locking tie (rear fender)	4
M6 X 20 Torx screw (rear fender)	4
M6 X 16 Torx screw (rear fender reinforcement)	4
Plastic washer (rear fender)	4
M6 elastic flange nut (rear fender)	4
M6 elastic flange nut (rear fender reinforcement)	4
Battery installation kit (2 bolts and 2 nuts)	1

Lifting the Front of Vehicle

⚠ WARNING

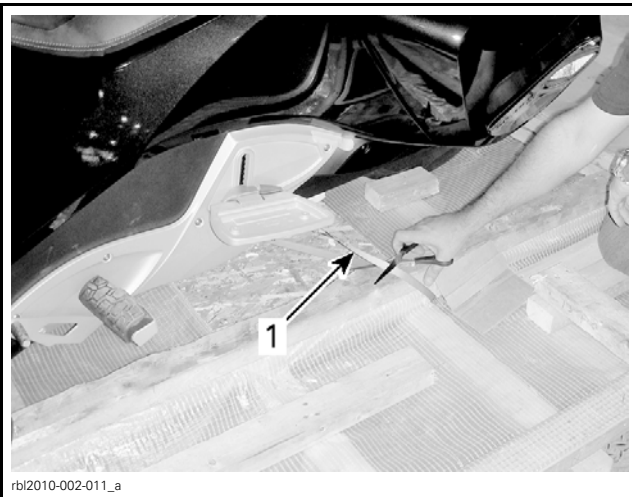
No one should be standing in front or at the back of the vehicle while straps are being cut.

1. Remove plate retaining front of vehicle to crate base by removing screws and nuts.



1. Plate
2. Screws
3. Screw and nuts

2. Remove strap retaining side of vehicle to crate base.



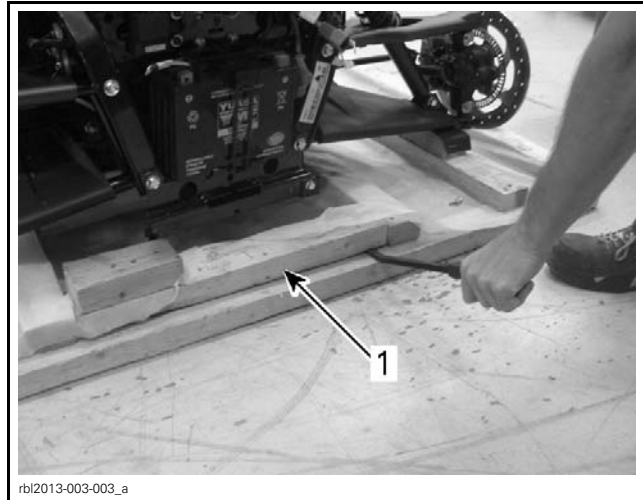
- TYPICAL**
1. Side strap

NOTE: The following steps will describe two methods to lift the front of the vehicle. The conventional one uses a hydraulic jack and the alternate one uses a chain block. Use the proper method according to your shop layout.

Conventional Method

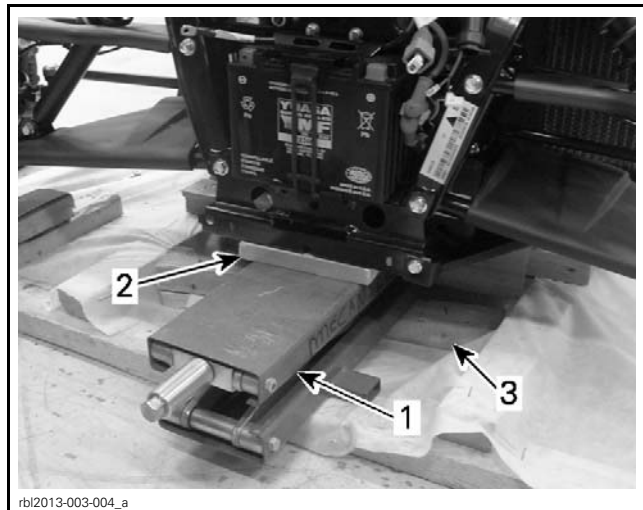
1. Remove piece of wood located at the front of the vehicle.

NOTE: This piece of wood can be used to level the jack.



1. Wood piece to remove

2. Install a jack with a piece of wood on top to increase contact surface.

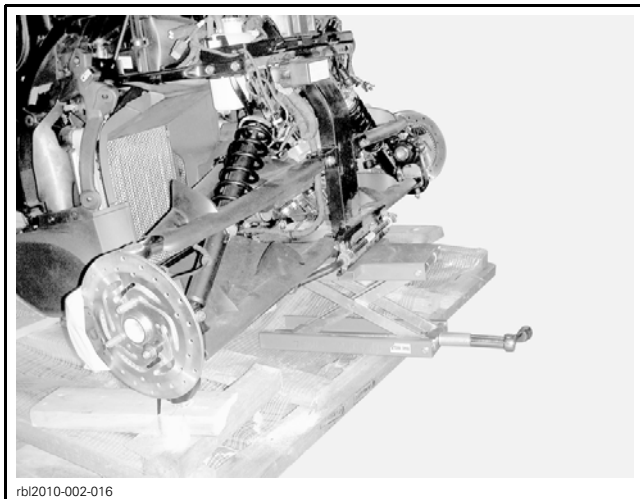


TYPICAL - FRONT OF VEHICLE

1. Jack
2. Wood piece
3. Wood piece removed earlier

⚠ CAUTION Approach with care when vehicle is jacked because it may be unstable.

3. Lift the vehicle.



rbl2010-002-016

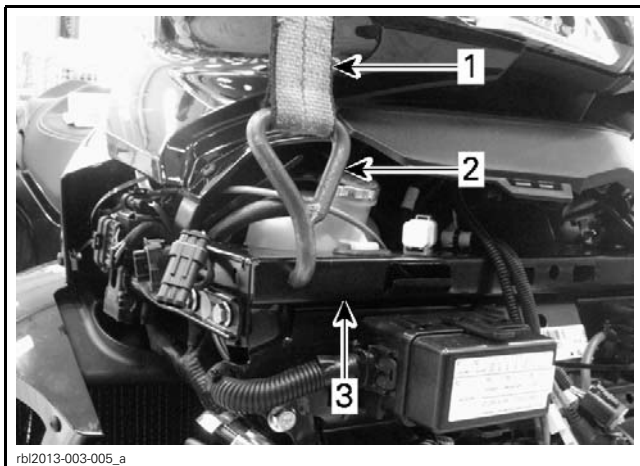
TYPICAL

NOTICE Never lift vehicle by the suspension arm.

Alternate Method

1. Install proper straps with hooks on RH and LH lateral supports of vehicle.

NOTE: Insert hooks through the holes in the frame.



1. Strap
2. Hook
3. Frame

2. Hook straps on an appropriate lifting kit.
3. Lift vehicle using a chain block.

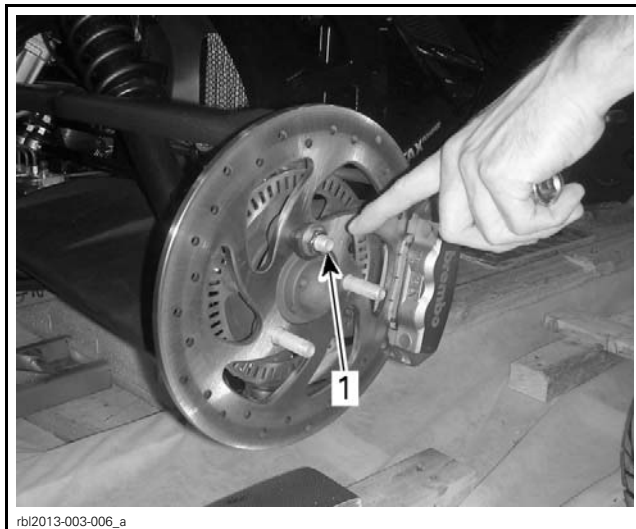
NOTICE Never lift vehicle by the suspension arm.

Front Wheels Installation

1. Clean front and rear brake discs using XPS BRAKES AND PARTS CLEANER (USA) (P/N 219 701 705) and a clean rag.

NOTICE A thin layer of anticorrosion treatment is present on the brake discs and must be removed before using the vehicle. Not conforming to this procedure may lead to a brake chattering squeaking and brake pad replacement would be necessary.

2. Remove nut securing front brake discs to vehicle.



rbl2013-003-006_a

1. Nut

3. Install front wheels on vehicle.
4. Ensure that the rotation direction shown by the arrow is respected.

WARNING

The tires are only designed to rotate in one direction. Do not switch the left and right front wheels.

5. Tighten wheels lug nuts by hand (from PDI kit).
6. Lower vehicle on crate base.
7. Remove the jack.



TYPICAL

8. Torque wheels lug nuts.

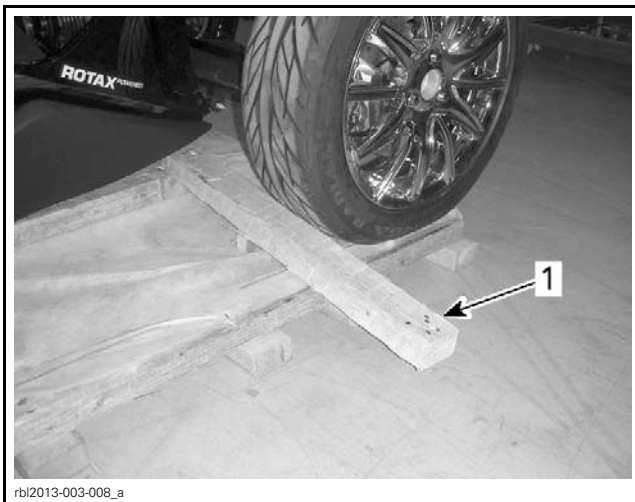
PART	TORQUE
Wheel lug nut	105 N•m (77 lbf•ft)

9. Install wheel caps (inside front storage compartment).

Vehicle Removal

NOTE: Parking brake pedal brakes only the rear wheel. Press it down to operate. The parking brake pedal is behind the operator's left footpeg.

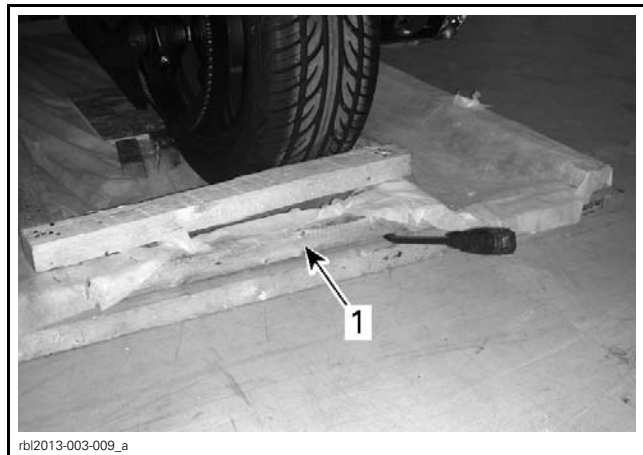
1. Put a piece of wood behind the front wheels to prevent the vehicle from rolling.



TYPICAL - FRONT RH WHEEL

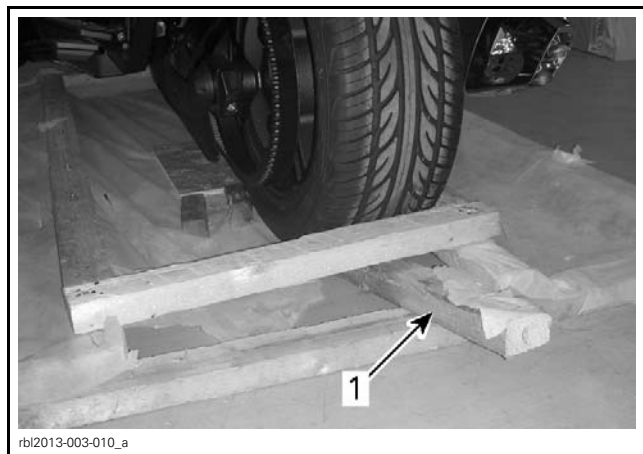
1. Wood piece

2. Remove the piece of wood at the back of the crate and insert it under the rear wheel.



TYPICAL

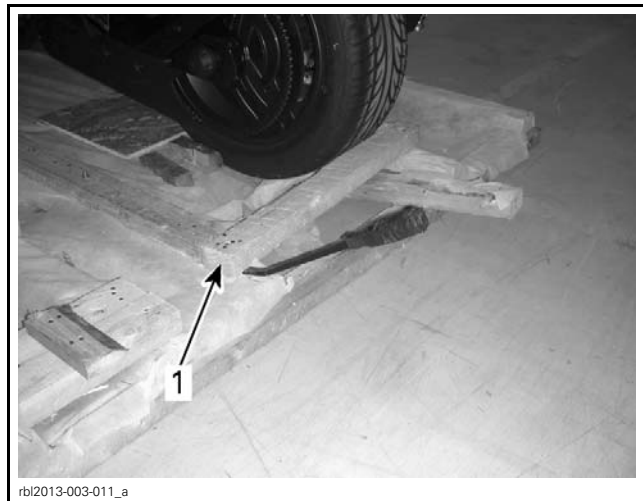
1. Wood piece



TYPICAL

1. Wood piece removed earlier

3. Remove the piece of wood from behind the rear wheel.

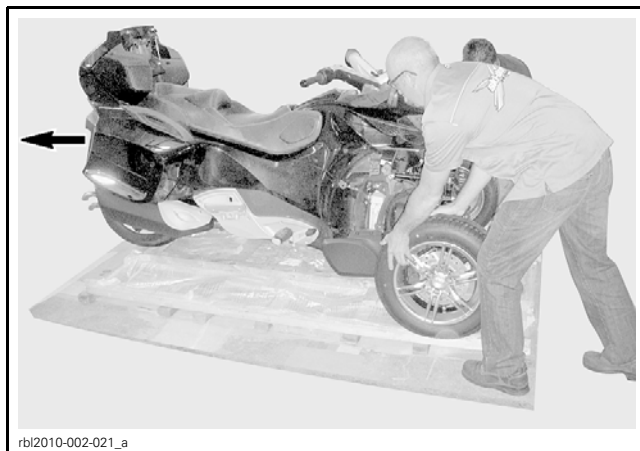


TYPICAL

1. Wood piece behind rear wheel

4. Carefully remove pieces of wood positioned earlier behind the front wheels.

5. With the help of your assistant, move vehicle rearward out of the crate base.



rbl2010-002-021_a

TYPICAL

NOTICE Always move vehicle rearward out of the crate base.

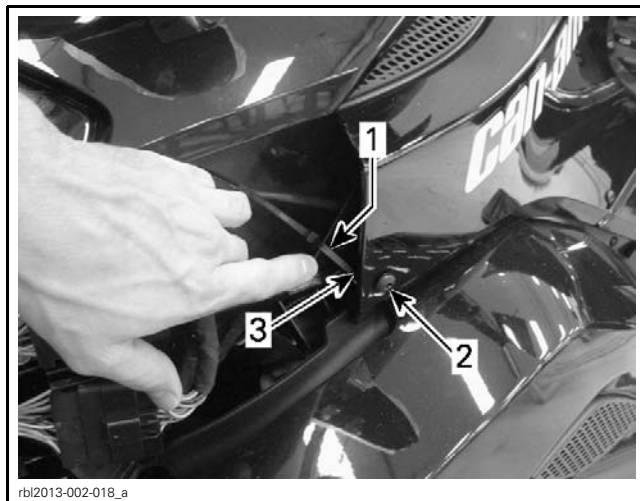
PARTS TO BE INSTALLED

Front Cargo Module

⚠ WARNING

Make sure battery is not connected before installing front cargo module. Do not install front cargo module if battery is connected because sparks can occur if tools touch battery terminals.

1. Remove LH and RH upper side panels.
 - 1.1 Cut locking tie retaining front screw and panel nut.



rbl2013-002-018_a

TYPICAL

1. Locking tie
2. Front panel screw
3. Panel nut

- 1.2 Remove rear panel screws.

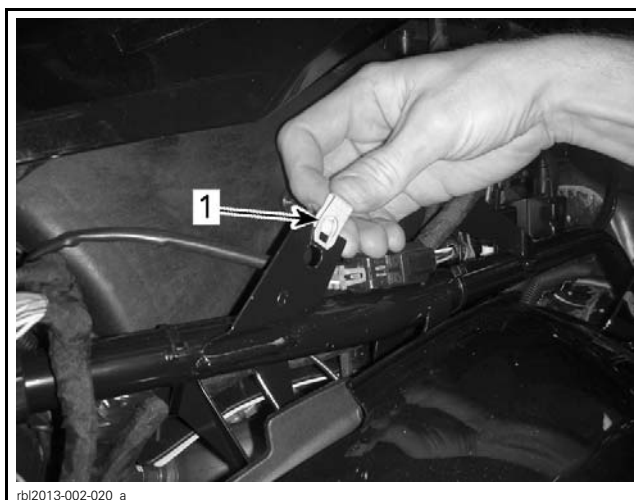


rbl2013-002-019_a

TYPICAL

1. Rear panel screws

- 1.3 Install the previously removed panel nut on lateral bracket.

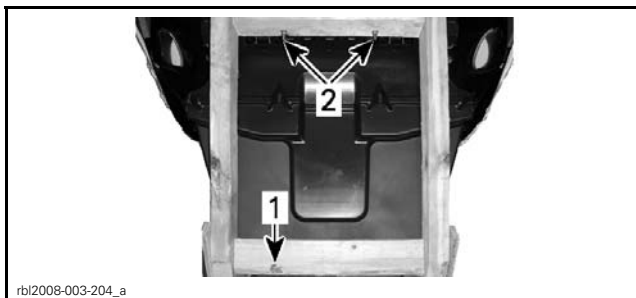


rbl2013-002-020_a

TYPICAL

1. Panel nut

2. Assisted by another person, remove and discard bolts holding the bottom and the top sections of sub-crate.



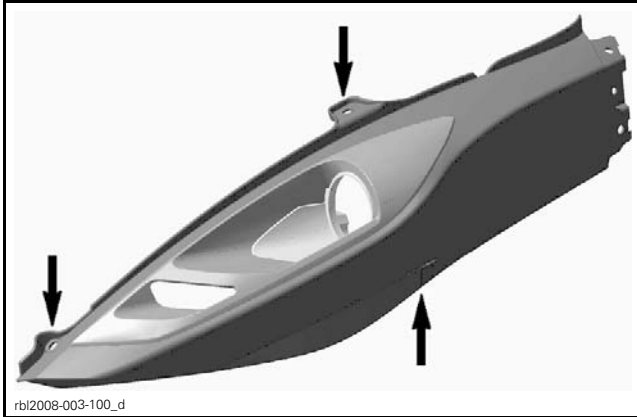
rbl2008-003-204_a

1. Lower retaining bolt
2. Upper retaining bolts

NOTE: Be careful not to lose the caged nut located in the bottom fixation hole of the front cargo module.

3. Open front storage compartment cover.

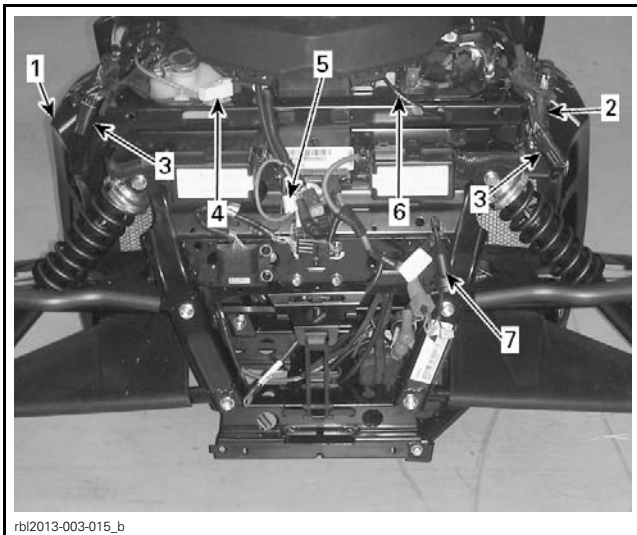
4. Remove plastic rivets securing front panels.



FRONT PANELS PLASTIC RIVETS LOCATION

5. Cut locking ties securing horn and AAPTSS harness to frame.

6. Ensure that the following cables and connectors are accessible prior to installing front cargo module, cut locking ties if required.



TYPICAL - REFER TO THE FOLLOWING TABLE FOR ITEMS DESCRIPTION

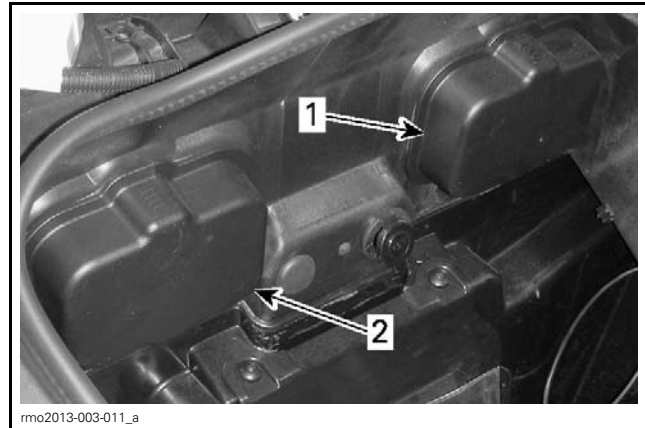
ITEMS	DESCRIPTION
1	AAPTSS sensor connector (hidden on the illustration)
2	Horn connector (hidden on the illustration)
3	Low beam light (CE)
4	DLC connector (B.U.D.S.)
5	Storage cover switch connector (option package)
6	Storage cover cable
7	12 V power outlet (option package)

7. Verify low beam headlights aiming. Refer to *LIGHTS* in *SETUP*.

All Models

8. Before installing storage compartment, remove the fuse service covers as follows:

8.1 Push down on the fuse service covers to open the fuse boxes and pull the covers off.



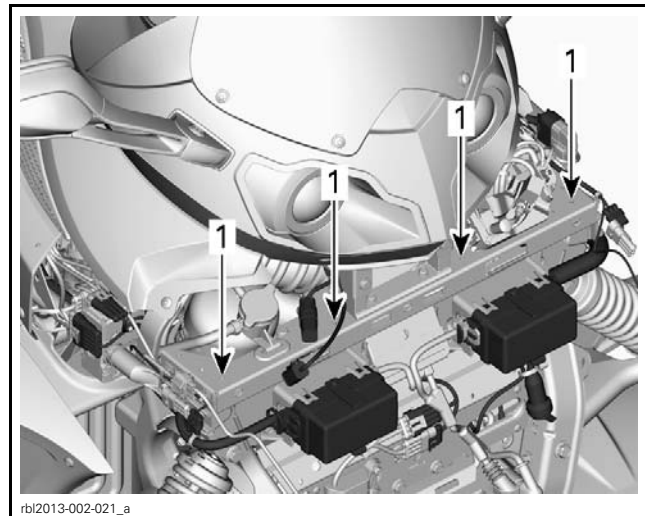
1. Left fuse service cover
2. Right fuse service cover

All Models

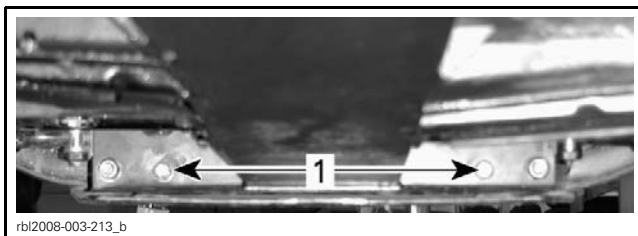
9. Assisted by another person, position front storage compartment into support slots of vehicle.

NOTE: Ensure that all cables are accessible prior to installing front storage compartment.

10. Secure the front storage compartment.
 – On TOP, use four M6 x 20 hexagonal flange screws
 – At the bottom, use two M6 x 12 hexagonal flange screws.



TOP SCREWS
1. M6 X 20 hexagonal flange screws



rbl2008-003-213_b

BOTTOM SCREWS

1. M6 X 12 hexagonal flange screws

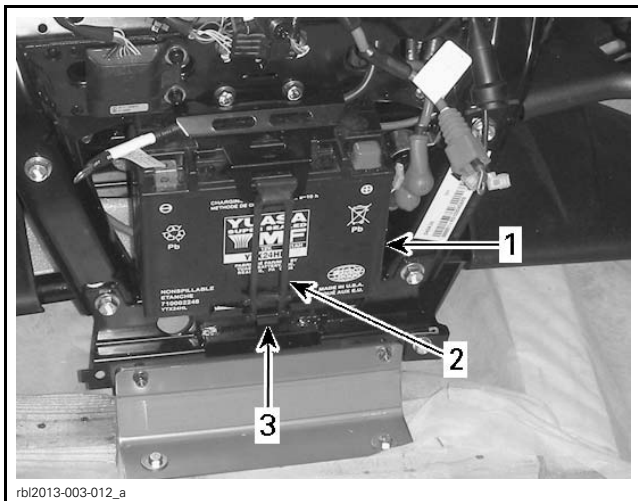
NOTE: Install all screws before tightening them.

FRONT STORAGE COMPARTMENT SCREW	TORQUE
M6 X 20 hexagonal flange screw	4.5 N•m (40 lbf•in)
M6 X 12 hexagonal flange screw	10 N•m (89 lbf•in)

Battery

The battery is located at the front of the cargo module.

1. Pull down the rubber strap to disengage it from the hook.



rbl2013-003-012_a

TYPICAL

1. Battery
2. Rubber strap
3. Hook

2. Remove bracket and battery from the vehicle.



rbl2013-003-012_b

TYPICAL

1. Battery
2. Bracket

NOTE: If you do not have a fully charged battery at hand, the fully charged battery can be put in place later.

IMPORTANT: It is of the utmost importance for the battery life span that the battery initial charging be performed. Refer to **the latest CAN-AM ROADSTER BATTERY ACTIVATION, CHARGING AND MAINTENANCE**. Correct keywords to search **the latest** Service Bulletin in BOSSWEB or Knowledge Center are :**"roadster battery activation"** including quotation marks.

3. Install charged battery in battery rack.

NOTICE Always charge battery before its installation on the vehicle.

4. Connect RED (+) positive battery cables using battery screws from the PDI kit.

⚠ WARNING

Always connect RED (+) cable first.

5. Tighten positive post battery screw.

PART	TORQUE
Post battery screw	4 N•m (35 lbf•in)

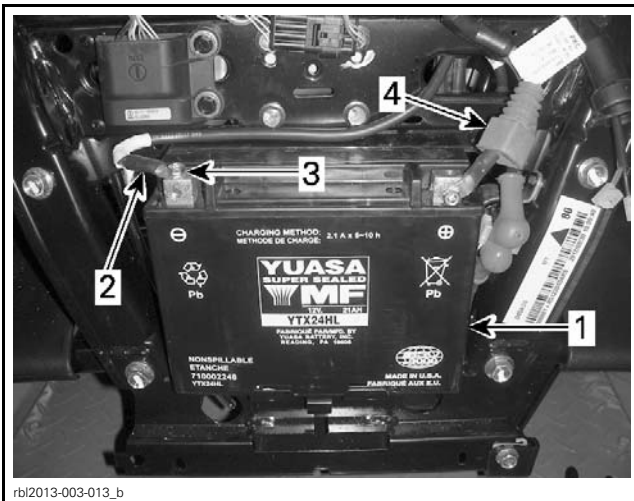


1. Battery
2. RED (+) positive battery cable
3. Positive post battery screw

6. Apply DIELECTRIC GREASE (P/N 293 550 004) on battery posts.
7. Connect BLACK (-) negative battery cables using battery screws from the PDI kit.
8. Tighten negative post battery screw.

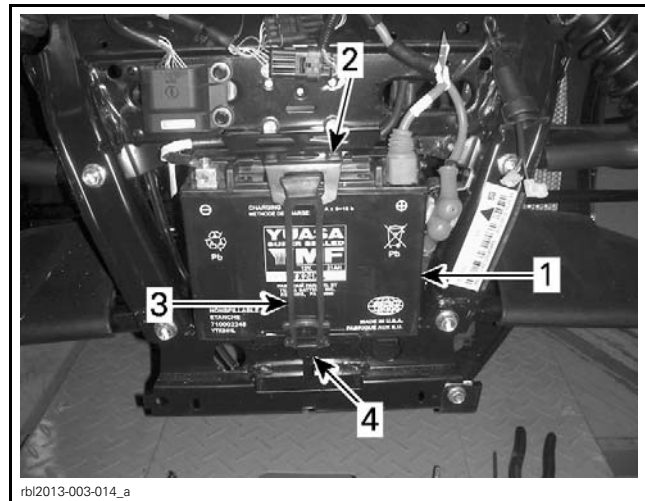
PART	TORQUE
Post battery screw	4 N•m (35 lbf•in)

9. Close RED rubber boot cover.



1. Battery
2. Black (-) negative battery cable
3. Negative post battery screw
4. RED rubber boot cover

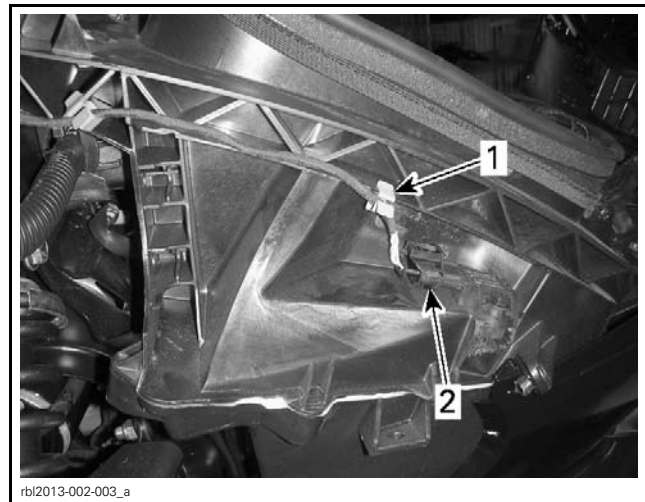
10. Put bracket back in position on battery.
11. Install rubber strap and pull it down to engage it with the hook.



1. Battery
2. Bracket
3. Rubber strap
4. Hook

AAPTS (Ambient Air Pressure and Temperature Sensor) Installation

1. Connect connector and route cable through retaining guide clips.



1. Cable retaining clip
2. Connector

Low Beam Headlight Connection

All CE Models

1. Connect wiring harness to low beam headlights.

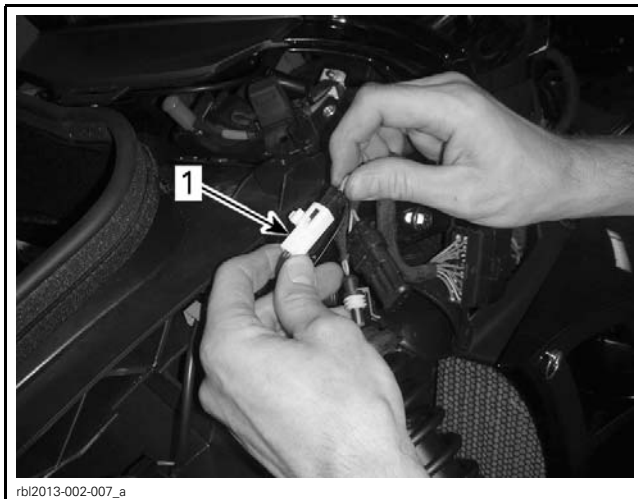


rbl2008-003-215_b

1. Low beam headlight connector

Horn Connection

1. Connect horn connector.
2. Route cable through the retaining guide clips.

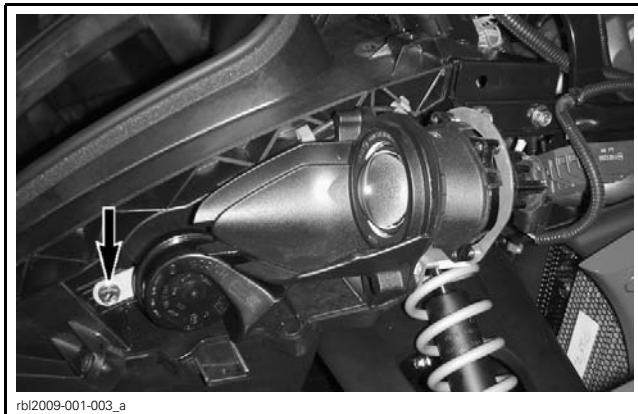


rbl2013-002-007_a

1. Horn connector

CE Models

If necessary, remove horn from vehicle to ease connector installation.



rbl2009-001-003_a

TYPICAL - HORN RETAINING BOLT LOCATION

Hood Latch Release Cable

1. Attach hood latch release cable into bracket.
2. Squeeze bracket legs to prevent cable from coming out using pliers.



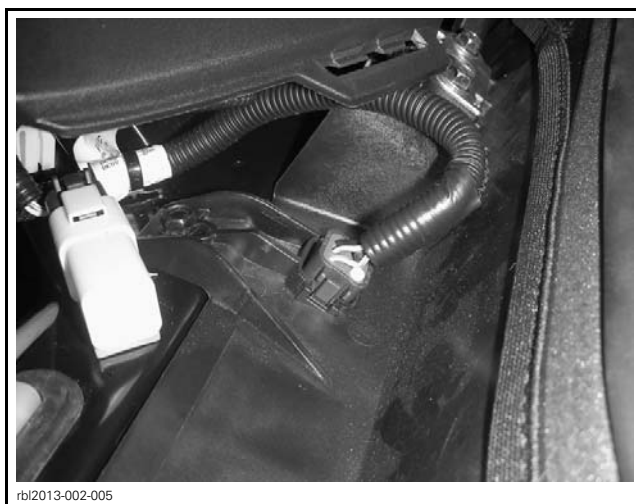
rbl2013-002-004

3. Verify if the front storage compartment cover opens and closes correctly.
4. Adjust cable if necessary.

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

Diagnostic Link Cable (DLC)

1. Insert diagnostic link cable (DLC) into its housing on the front section of vehicle.

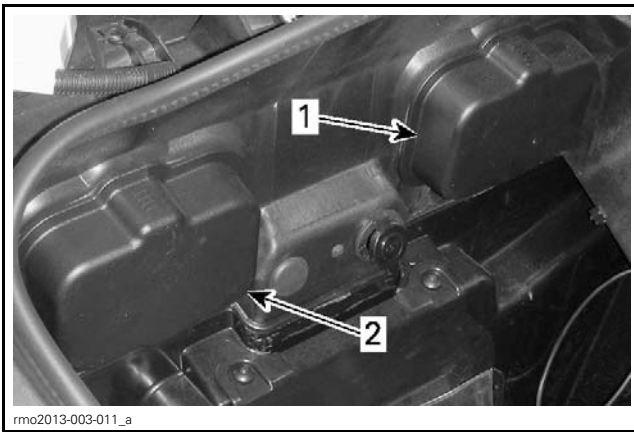


rbl2013-002-005

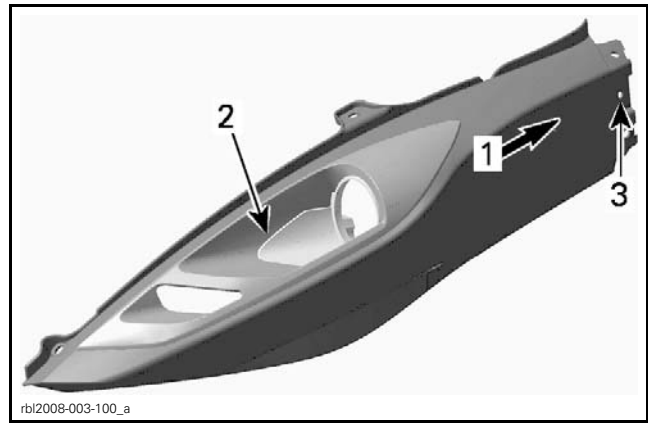
DLC CABLE INSERTION

All Models

2. After installing storage compartment, reinstall the fuse service covers as follows:
 - 2.1 Position the fuse service covers and push down carefully until the fuse service covers engage.



rmo2013-003-011_a
 1. Left fuse service cover
 2. Right fuse service cover



rbl2008-003-100_a
CE MODEL SHOWN
 1. Move side air deflector backward
 2. Area that must be fit
 3. Front panel screw

Body Parts Installation

NOTICE Do not overtighten screws. Any deformation on the panel around the screw is an indication that it is too tight. Be careful not to damage the panels.

Front Panels

1. Install M6 panel nuts on front panels (included in the PDI kit)
2. Install front panels on vehicle.

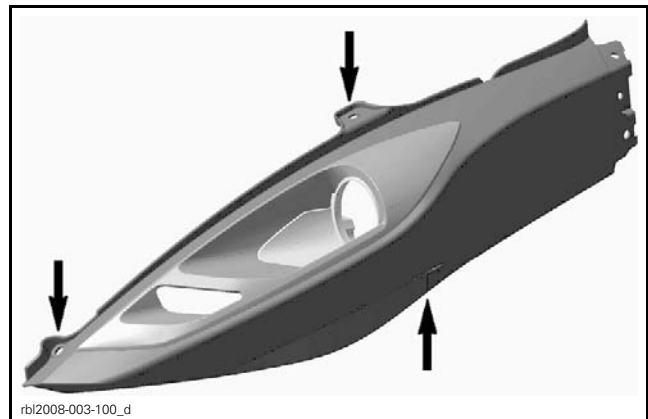


rbl2009-001-004_a
RH FRONT PANEL SHOWN
 1. Front M6 panel nuts

3. Secure front panels. Use screw removed during front panel removal.

NOTE: On CE models, move side air deflector backward for a best fit.

4. Install plastic rivets.



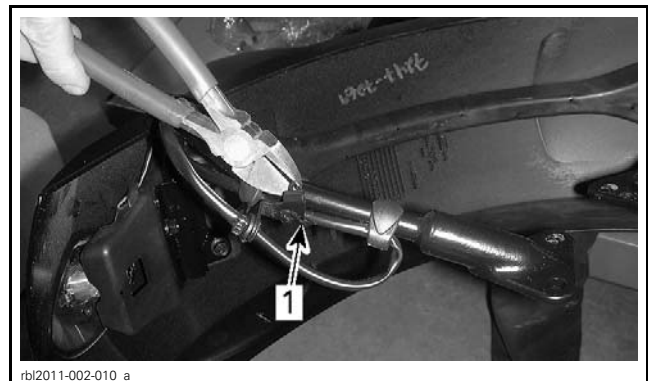
rbl2008-003-100_d
FRONT PANELS PLASTIC RIVETS LOCATION

Service Cover

Install service cover on the front of vehicle (included in front service compartment).

Front Fenders

1. Cut locking tie that hold harness bracket on fender.



rbl2011-002-010_a
TYPICAL
 1. Locking tie

NOTE: Do not remove protection from suspension arms.



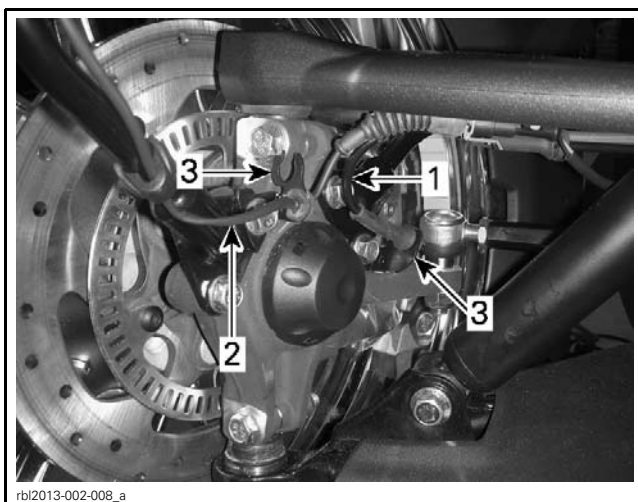
TYPICAL

2. Position front fender on vehicle.



TYPICAL

3. Route front ABS sensor harness and fender light harness on fender hooks.



TYPICAL

- 1. ABS sensor harness
- 2. Fender light harness
- 3. Fender hooks

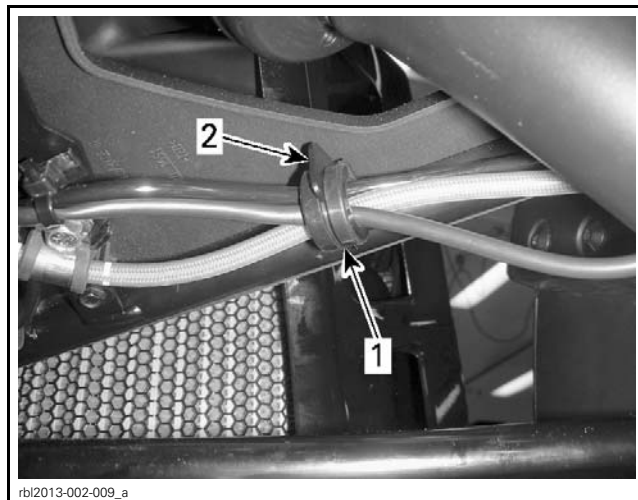
NOTE: Properly insert cable grommet on harness bracket.

4. Connect fender light connector.

NOTE: Make sure harnesses are properly secured through grommet.



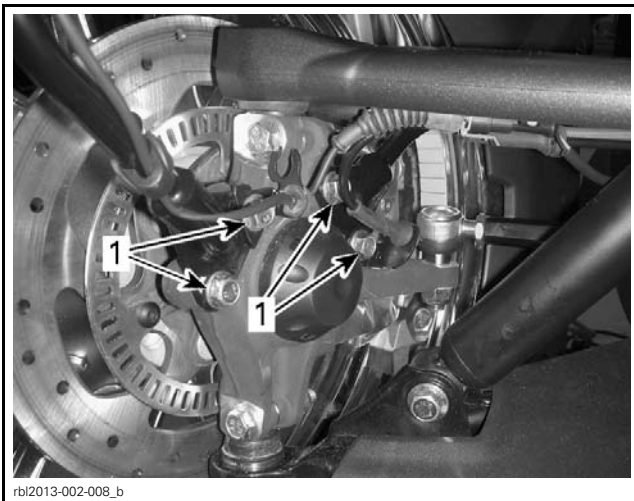
1. Fender light connector



1. Cable grommet
2. Harness bracket

5. Secure fender support on wheel hub.

6. Remove protection from suspension arms.



1. M8 x 20 hexagonal flange screws

7. Install 4 M8x 20 hexagonal flange screws to complete the fender support installation.

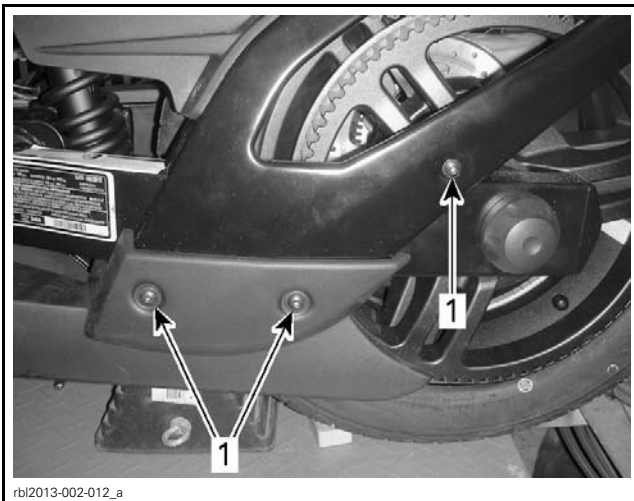
FENDER SUPPORT RETAINING SCREW
24 N•m (18 lbf•ft)

8. Carry out the same procedure for the other side.

Rear Fender

NOTE: Before applying any torque, install all nuts and screws.

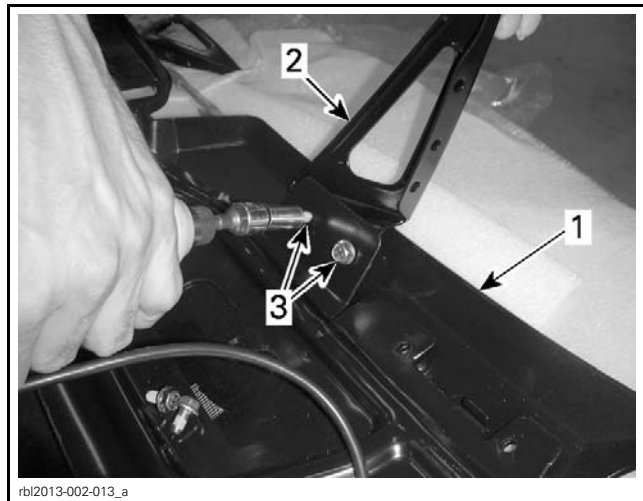
1. Remove rear fender packaging.
2. Loosen LH and RH fender support screws.



LEFT SIDE FENDER SUPPORT

1. Screws, washers and nuts

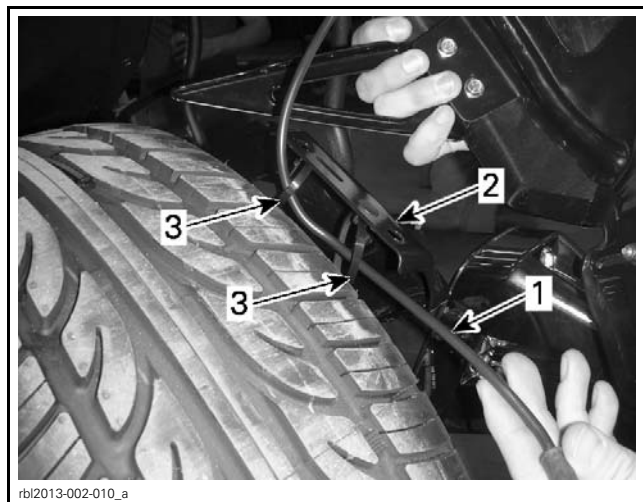
3. Pre-assemble rear fender to its LH and RH rear fender brackets with M6 x 12 screws, flat plastic washers and M6 nuts (on back side).



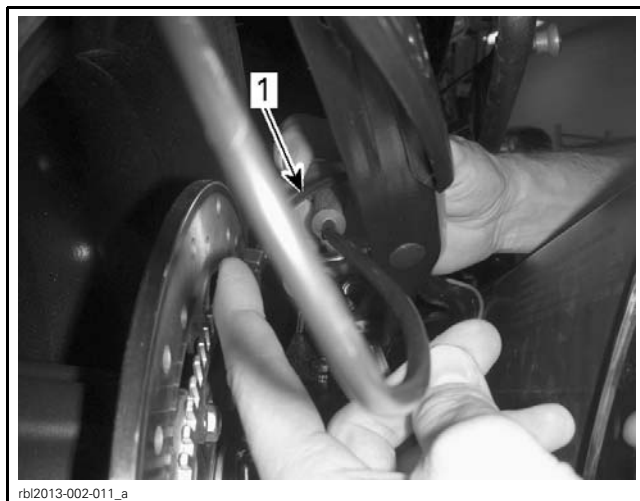
1. Rear fender
2. Support
3. M6 x 12 Screws, washers and nuts

NOTE: Do not torque screws.

4. Connect license plate light connector.
5. Secure license plate light harness inside RH rear fender support using 4 locking ties (from PDI kit) into factory installed retainers.

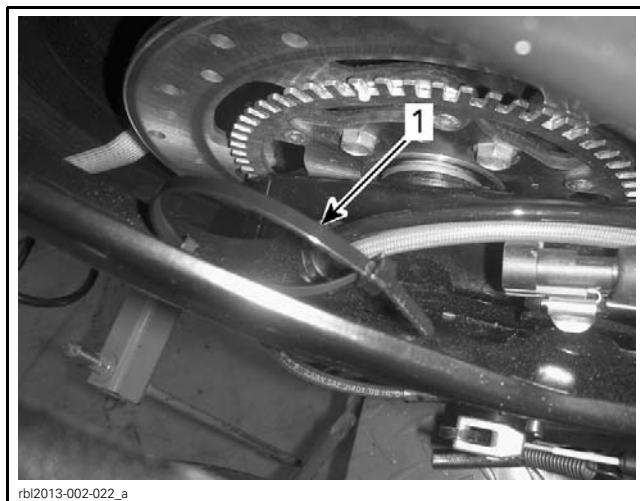


1. License plate light harness
2. Rear fender support
3. Locking ties in retainers



rb12013-002-011_a

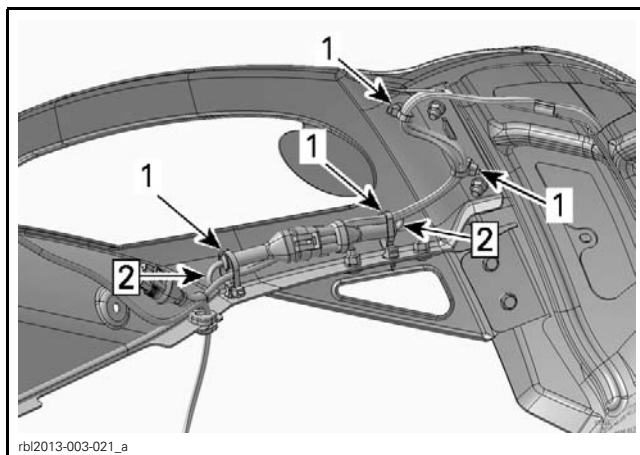
1. Locking tie



rb12013-002-022_a

1. Locking tie

NOTE: For **Australian models** route the back-up light harness making a loop in the locking ties as shown.

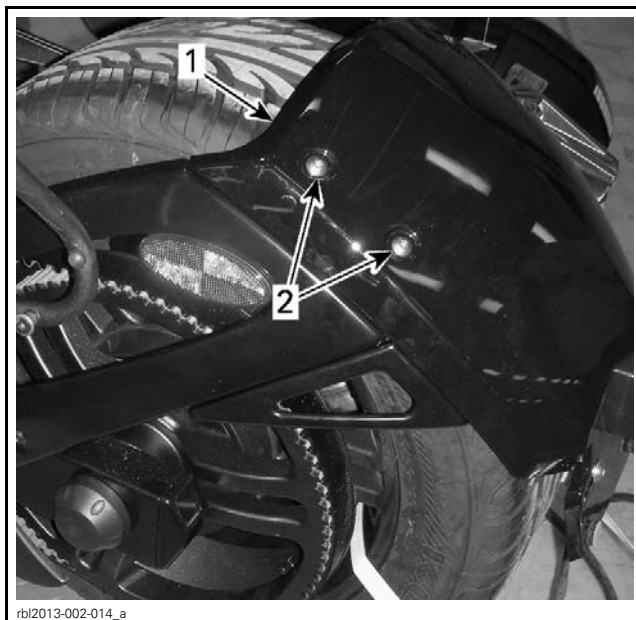


rb12013-003-021_a

1. Locking ties
2. Locking ties in a loop

6. Put fender in position and install two M6 x 20 screws on each side.

NOTE: Do not torque screws.

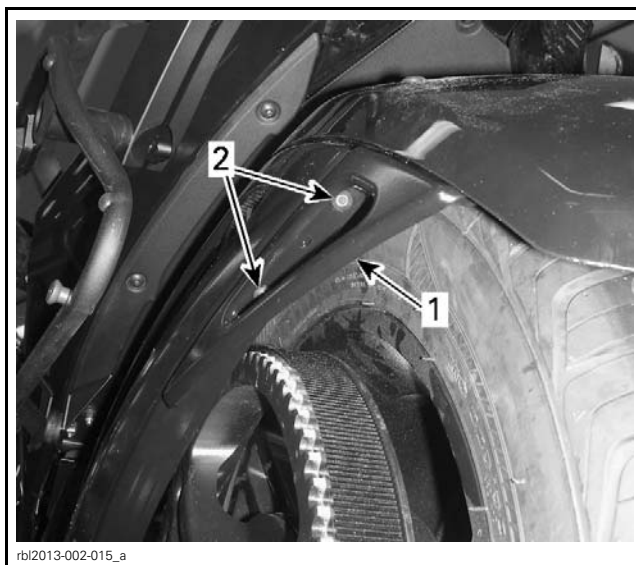


rb12013-002-014_a

TYPICAL
1. Fender
2. Screws

7. Install two screws and nuts on each side of fender reinforcement plate.

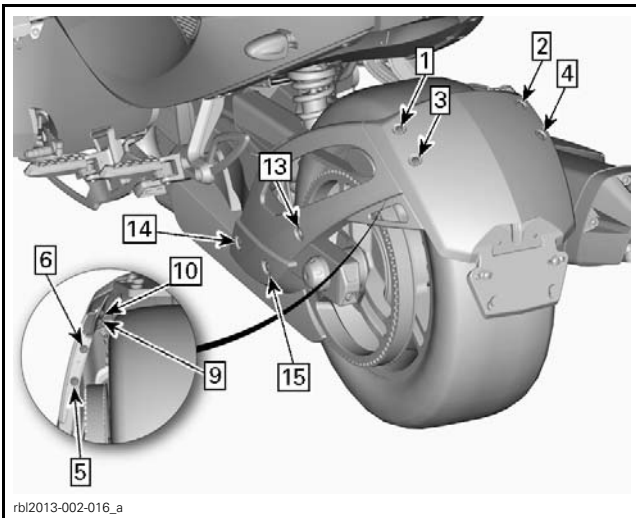
NOTE: Do not torque screws and nuts.



rb12013-002-015_a

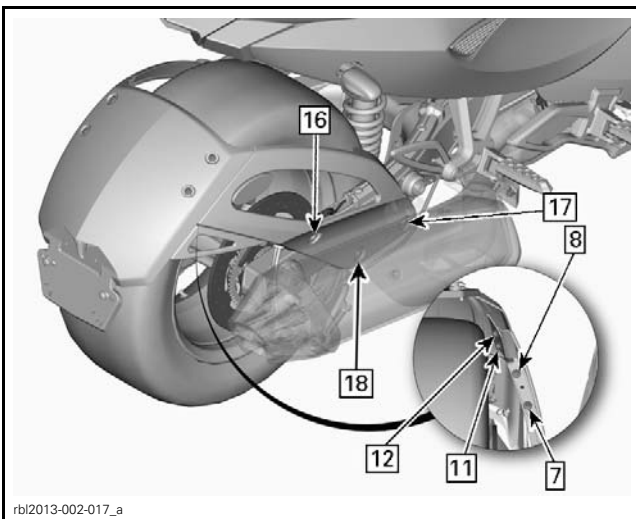
TYPICAL
1. Fender reinforcement plate
2. Screws and nuts

8. Torque screws and nuts according to the following tightening sequence:



rbl2013-002-016_a

TYPICAL



rbl2013-002-017_a

TYPICAL

PARTS	TORQUE
Screws and nuts	7.5 N•m ± 0.5 N•m (66 lbf•in ± 4 lbf•in)

Hang Tag and Safety Labels

This vehicle comes with a hang tag and labels containing important safety information. The labels are considered permanent parts of the vehicle and should not be removed. Hang tag is to be removed by the owner only.

Any person who rides this vehicle should read and understand all the information given on hang tag and safety labels before riding.

Safety labels of several language can be chosen by customer, according to availability.

▲ 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.

704601500C

▲ AVERTISSEMENT

Le roadster Spyder est un véhicule différent - sa conduite exige des habiletés et des connaissances particulières. Apprenez comment le roadster Spyder diffère des autres véhicules.

Lisez le guide du conducteur (dans le compartiment de rangement avant) et visionnez la vidéo de sécurité.

Suivez une formation (si disponible), exercez-vous, apprenez à maîtriser les commandes et obtenez le permis approprié. Consultez la carte de sécurité avant de conduire le véhicule.

Portez toujours un casque et des vêtements appropriés.

Sur ce type de véhicule, les utilisateurs sont exposés à davantage de risques routiers qu'en automobile. Même un conducteur habile peut être frappé par un autre véhicule ou perdre le contrôle. Ce véhicule ne vous protégera pas en cas de collision.

Limites de manoeuvrabilité et conditions routières

Le système de stabilité du véhicule (VSS) ne peut pas vous empêcher de perdre le contrôle, de faire des tonneaux ou de tomber si vous dépassez les limites du véhicule. Apprenez à connaître ces limites dans différentes conditions routières. Ne conduisez pas sur la glace, sur la neige ou hors route. Évitez les flaques et les ruissellements d'eau. Ce type de véhicule peut faire de l'aquaplanage sur les chaussées détrempées et déraiser sur les routes recouvertes de gravier, de terre ou de sable. Si vous devez conduire dans ces conditions, ralentissez.

Seul le client doit enlever cette étiquette.

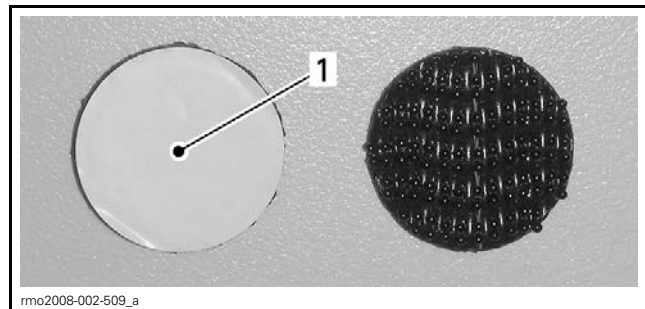
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Licence Plate Installation

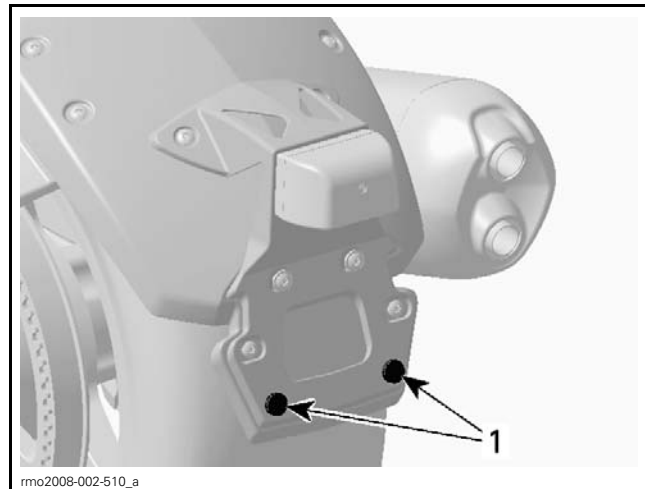
NOTE: When a license plate needs to be installed or replaced, ensure to install two new damping pads (P/N 293 740 028) on plate to be installed.

1. Remove existing plate on vehicle (if applicable).
2. Peel off backing of new damping pads.



1. Damping pad backing

3. Position new damping pads over existing pads on vehicle plate support.



1. Damping pads

4. Secure upper portion of license plate on vehicle plate support using existing hardware.

- Squeeze license plate and support together at each lower corner.

Accessories Installation

- Install accessories (if any) as per their installation instructions (included in each kit).
- Install any other equipment required by law (if any).

Vehicle Decals

- Install decals on vehicle according to customer country language and local legislation.
- Ensure that the new decals are installed at the same location and over the factory installed decals.

FLUIDS

General Guidelines

All fluids (except fuel) have already been filled at factory, it is only necessary to validate them. However, if refill is needed, refer to the appropriate *ROADSTER SHOP MANUAL* for the proper procedure.

Fuel

- Add fuel in the fuel reservoir.



FUEL RESERVOIR

Recommended Fuel

Use regular unleaded gasoline containing MAXIMUM 10% ethanol. The gasoline must have the following minimum octane requirements.

In Brazil, use regular unleaded gasoline containing MAXIMUM 25% ethanol.

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

FUEL OCTANE RATING	
OUTSIDE NORTH AMERICA	
Recommended: 95 RON	Minimum: 92 RON
Use premium unleaded fuel for optimum engine performance.	

⚠ WARNING

Never top off the fuel tank before placing the vehicle in a warm area. As temperature increases, fuel expands and may overflow. Fuel is flammable and explosive under certain conditions. Always wipe off any fuel or oil spillage from the vehicle.

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

NOTICE Never mix oil with fuel these vehicles are equipped with a 4-stroke engine.

Clutch Fluid (SM5 Model)

Recommended Clutch Fluid

Use DOT 4 brake fluid from a sealed container. An opened container may be contaminated or may have absorbed moisture from the air.

Clutch Fluid Level Verification

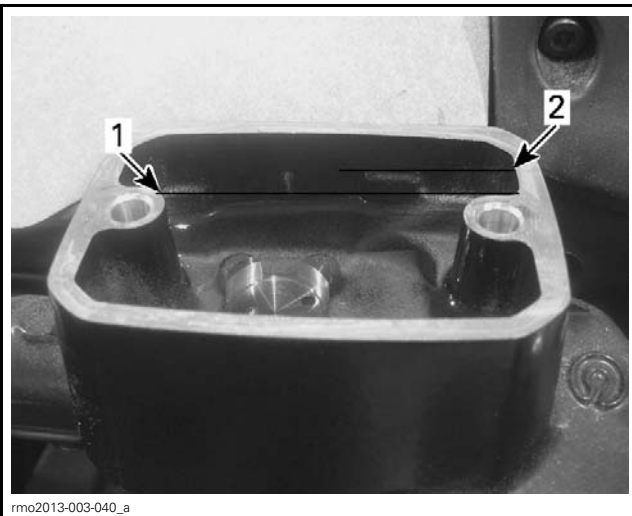
The clutch fluid reservoir is near the reverse button on the left handlebar.

Check the clutch fluid level as follows:

- Park the vehicle on a firm, level surface.
- Set the handlebar straight in order to position the top of clutch fluid reservoir horizontally.
- Wipe clean the cap area.
- Use the Phillips head screwdriver located in the toolkit.
- Unscrew cap retaining screws.



6. Carefully remove cap. Pay attention not to drop the cap seal.
7. Look inside the reservoir to see the fluid level. Check clutch fluid level inside the reservoir:
 - The fluid must be flush to the fill level line (protuberance on the reservoir wall).



FLUID REMOVED FOR CLARITY PURPOSE

1. Minimum
2. Maximum

8. Add recommended 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.

9. Immediately wipe up spills if necessary.
10. Ensure that the seal located inside the cap is collapsed.

11. Reinstall the cap to the reservoir.
12. Tighten cap screws.
13. Wipe off reservoir if necessary.

Engine Coolant

⚠ 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 coolant level when engine is cold.

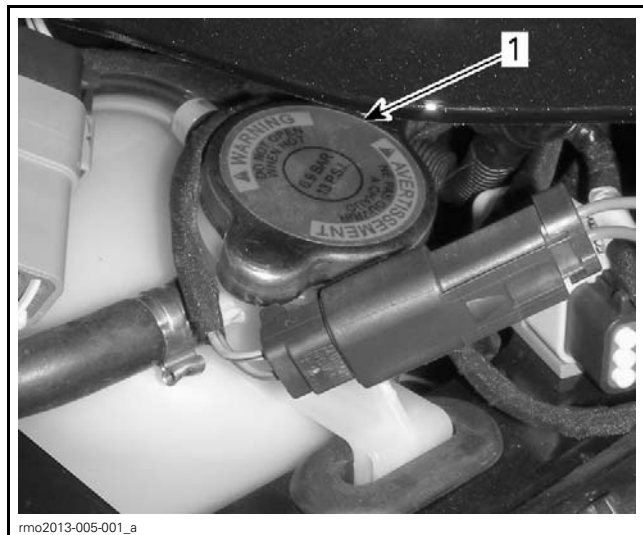
Recommended Coolant

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

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

Coolant Level Verification

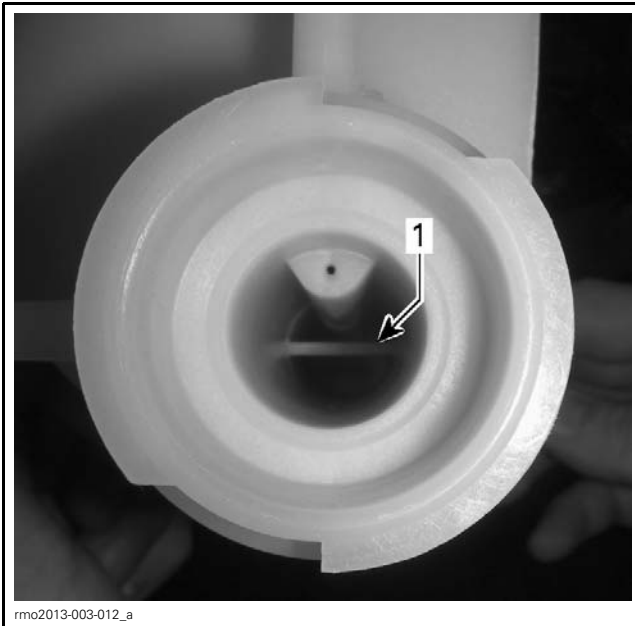
1. Park vehicle on a firm level surface.
2. Pull out the service cover with both hands.
3. Check the coolant level on the right hand side. Coolant must be visible without exceeding the COLD. level mark.



1. Coolant reservoir cap

4. If required, add coolant until it is visible in the reservoir without exceeding the COLD level mark. Use a funnel to avoid spillage. Do not overfill.

NOTE: As an indication, look directly inside the reservoir to make sure the coolant arrives at the reference line.



1. Coolant level reference line

5. Reinstall the service cover.

Brake Fluid

⚠ WARNING

Avoid contact of brake fluid with skin or eyes because 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.

NOTICE Do not overfill brake fluid reservoir.

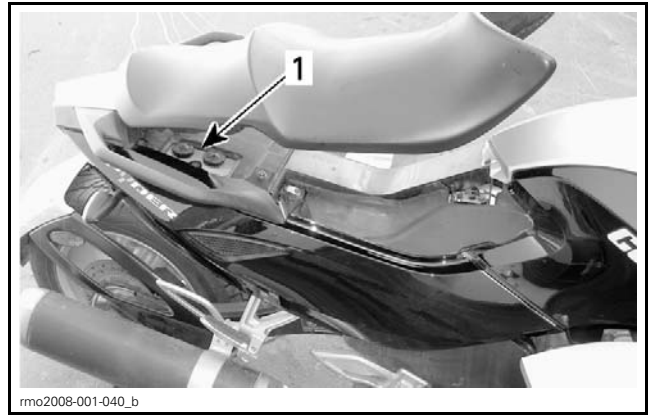
Recommended Fluid

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.

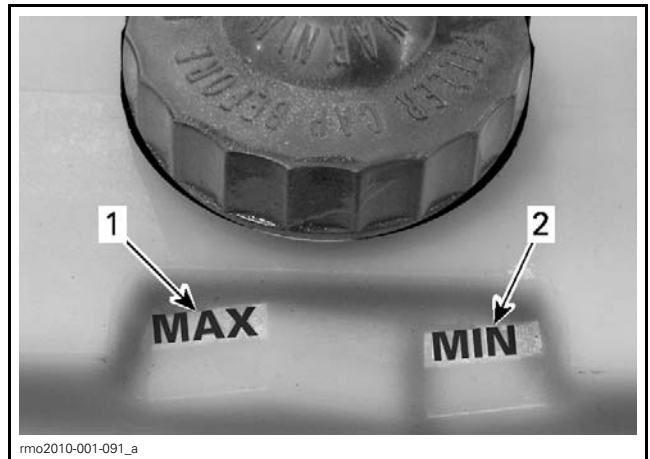
Brake Fluid Level Verification

1. Park vehicle on a firm level surface.
2. Unlatch and lift the seat.
3. Remove reservoir caps.

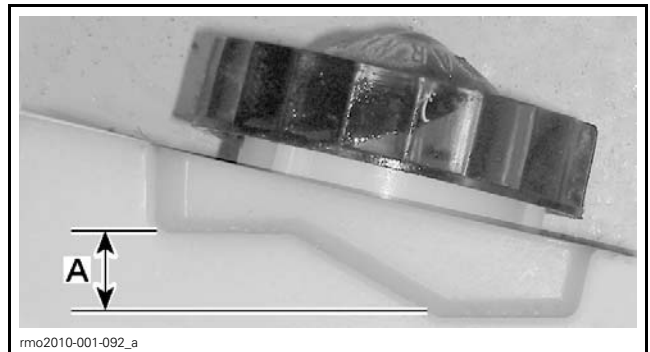


1. Brake fluid reservoir caps

4. Check brake fluid level in both reservoirs, near the back of the seat.
5. Ensure that fluid is above the MIN. mark.

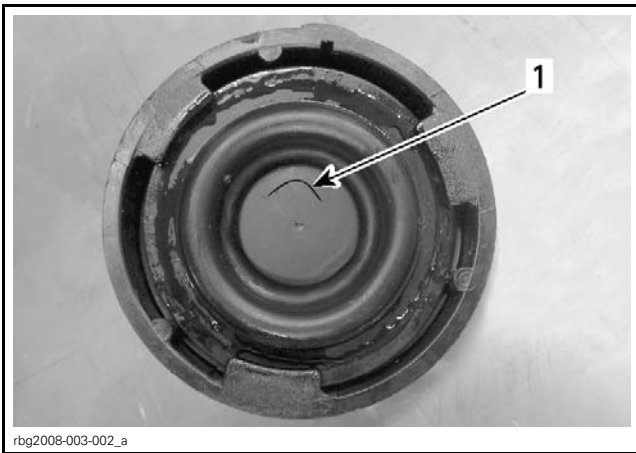


1. Brake fluid MAX. level mark
2. Brake fluid MIN. level mark



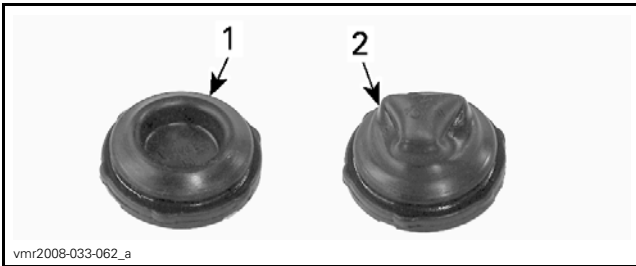
A. Operating range

6. If necessary, add recommended brake fluid.
7. Immediately wipe out spills if necessary.
8. Prior to installing brake fluid reservoir caps:
 - Check that V slit is in good condition.
 - Ensure diaphragm are properly positioned.



rbg2008-003-002_a

TYPICAL
1. V slit



vmr2008-033-062_a

TYPICAL
1. Correct position
2. Wrong position

9. Reinstall both reservoir caps.
10. Close seat and ensure it is fully latched.

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

NOTE: For SM5 models, the same oil lubricates the engine, the gearbox and the clutch.

NOTE: For SE5 models, the same oil lubricates the engine, the gearbox, the clutch and the HCM (hydraulic control module).

Use XPS 4-STROKE SYNTH. BLEND OIL (SUMMER) (P/N 293 600 121).

If not available, use a 5W40 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.

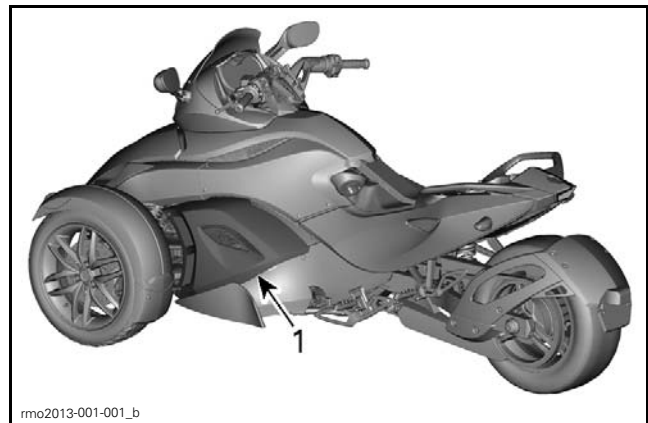
NOTICE To avoid damaging the clutch, do not use a motor oil meeting the API service SM or ILSAC GF-4 classification. Clutch slippage will occur. Motorcycle oils designed for use with a wet-clutch are the best alternative.

NOTICE Do not add any oil additives to the recommended oil. This may lead to gearbox and clutch malfunctions.

Vehicle Preparation for Engine Oil Level Verification

NOTICE The Spyder roadster has a dry sump type lubrication system. To obtain a precise reading of the engine oil level, you must follow this procedure.

1. Park the vehicle on a level surface.
2. Remove LH middle side panel.



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1. Middle side panel

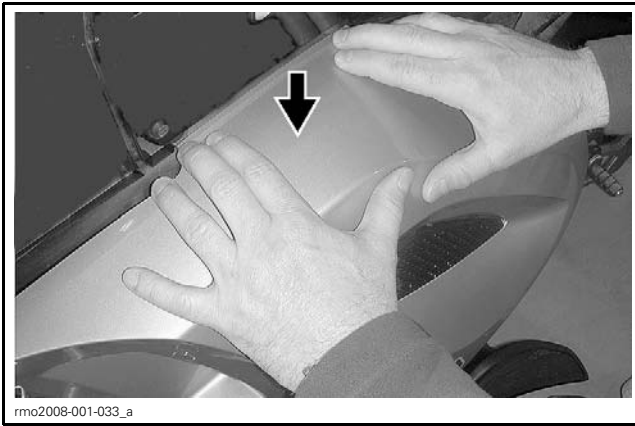
3. Unscrew 3 clips.



rmo2008-001-032_a

1. Middle side panel clips

4. Press down panel top edge with both hands and pull out.



5. Remove middle side panel from vehicle by lifting it.

Oil Level Verification Procedure

⚠ WARNING

Before starting vehicle ensure vehicle in a well ventilated area or is outside. Smoke will come from the engine for 10 minutes as the anti corrosion coating on the exhaust system and engine burns off.

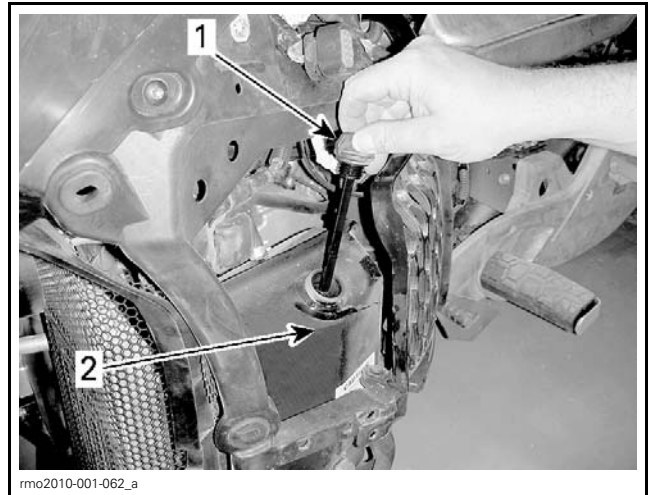
NOTICE For an accurate oil level reading, it is necessary to ride vehicle for 5–7 minutes to ensure that the engine is at its operating temperature. If oil level is verified when vehicle is not at operating temperature, oil level must be between lower and upper marks on dipstick.

NOTICE Never add oil in the engine if the verification is performed when the engine is cold.

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

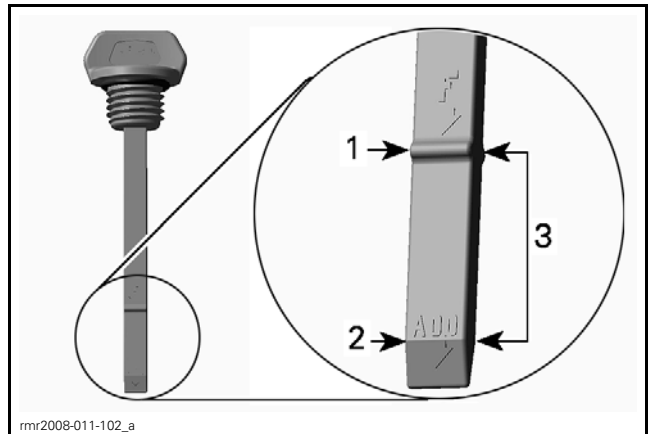
NOTE: Running engine for at least 30 seconds allows the suction oil pump to drain the oil from the engine crankcase back into the oil tank. Not carrying out this step could result in overfilling the engine oil.

2. Stop engine.
3. Unscrew and remove oil dipstick.



1. Oil dipstick

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



1. Upper mark (full)
2. Lower mark (add)
3. Operating range

If oil level is at or near upper mark:

- Do not add oil.
- Properly insert and tighten dipstick.
- Install the LH middle side panel.

If oil level adjustment:

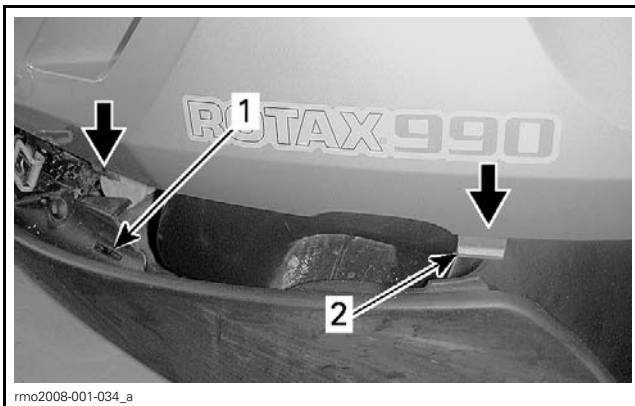
- Adjust oil level until it is in the operating range, close to the upper mark. **Do not overfill.**
- Properly insert and tighten dipstick.
- Install the LH middle side panel.

NOTE: At the lower mark, 500 ml (.5 qt (U.S. liq.)) of oil is required.

Vehicle Parts Reinstallation

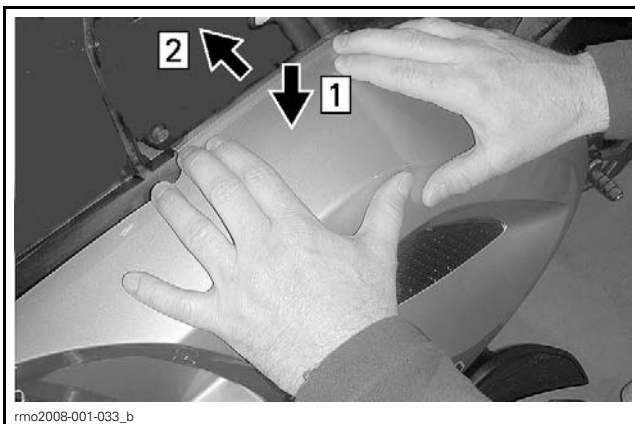
1. Install LH middle panel.

2. Insert the middle side panel tabs into the bottom side panel slots.



1. Bottom side panel slot
2. Middle side panel tab

3. Press down panel top edge with both hands and push in.
4. While pressing, ensure that lower tabs remain in slots while pressing.



1. Press down top edge
2. Push top edge under top side panel edge

5. Secure panel by pushing and turning each clip clockwise (1/4 turn).



NOTE: Clip is properly fixed when a small amount of force is required while turning clip to its maximum rotation. Clip is not properly fixed when it is loose while turning.

SETUP

Guidelines

All adjustments have already been performed at factory. It is only necessary to validate them. However, if readjustment is needed, refer to the appropriate *ROADSTER SHOP MANUAL* for the proper procedure.

Brake Discs Cleaning

NOTICE A thin layer of anticorrosion treatment is present on the brake disc and must be removed before using the vehicle. Not conforming to this procedure may lead to a brake chattering squeaking and brake pad replacement would be necessary.

1. Clean rear brake disc using XPS BRAKES AND PARTS CLEANER (USA) (P/N 219 701 705) and a clean rag.
2. Apply parking brake.
3. Lift the front of vehicle.
4. Remove front wheels and clean brake discs using XPS BRAKES AND PARTS CLEANER (USA) (P/N 219 701 705) and a clean rag.
5. Reinstall front wheels on vehicle.
6. Ensure that the rotation direction shown by the arrow is respected.

⚠ WARNING

The tires are only designed to rotate in one direction. Do not switch the left and right front wheels.

7. Tighten wheels lug nuts by hand.
8. Lower vehicle.
9. Torque wheels lug nuts.

WHEEL LUG NUT TIGHTENING TORQUE
105 N•m (77 lbf•ft)

10. Release parking brake.
11. Install wheel caps (located inside front storage compartment).

Tires Pressure

⚠ WARNING

Low pressure may cause tire to deflate and rotate on wheel. Overpressure may burst the tire. Always follow recommended pressure.

NOTICE Always check pressure when tires are cold before using the vehicle.

NOTE: Tire pressure changes with temperature and altitude. Recheck pressure if one of these conditions has changed (e.g., significant weather change, driving in the mountains).

1. Inflate tires to the specified air pressure. Refer to the following table.

COLD TIRE PRESSURE RECOMMENDATION	
FRONT	REAR
103 kPa ± 14 kPa (15 PSI ± 2 PSI)	193 kPa ± 14 kPa (28 PSI ± 2 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.

Drive Belt

NOTICE Always verify drive belt tension with all parts at room temperature and the rear wheel lifted of the ground.

1. Place vehicle on a level surface.
- NOTE: The area must be protected against wind and must have a very low background noise.
2. Set transmission to NEUTRAL.
 3. Lift rear of vehicle by the frame until rear wheel is off the ground.

NOTICE Do not lift under rear shock absorber. Always lift by the frame. Refer to illustration.



TYPICAL - LIFT BY THE FRAME

4. To check the drive belt tension use the BELT TENSION METER (P/N 529 036 115).



529036115

5. Enter the following specifications to program the meter.

MASS	WIDTH	SPAN
8.4 g/m	28.0 mm/R	1028 mm



rmr2008-031-002

SONIC TENSION METER DISPLAY

NOTE: Refer to the manufacturer's instructions to set the informations into the device.

6. Turn rear wheel to align a wheel spoke with the swing arm.



rmr2008-031-003

TYPICAL - SWING ARM ALIGNS WITH A SPOKE

7. Position the sensor behind the LH passenger footrest and hold the sonic tension meter sensor approximately 1 cm (1/2 in) from belt or closer without touching the belt.



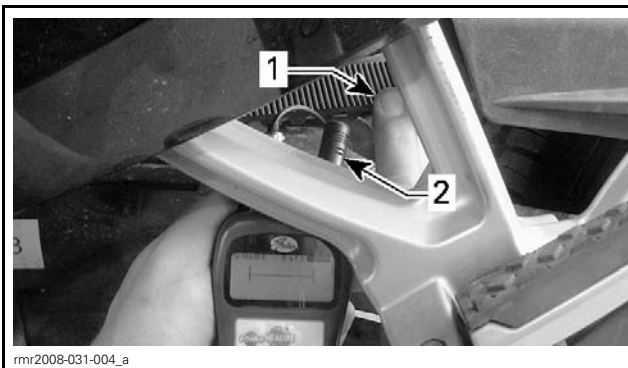
rbs2010-006-002

SPYDER GS/RS

8. Tap the belt to make the belt vibrate and note the measurement.

9. Repeat step 8.

NOTE: The second value should be within $\pm 25N$. If not, repeat measurements until tolerance is met.



rmr2008-031-004_a

TYPICAL - SPYDER RS SHOWN

1. Tap the belt
2. Sonic tension meter sensor

10. Repeat steps 6 to 9 for the 2 remaining wheel spokes.

The average of the 3 obtained values (at the 3 spokes) must be within the following range:

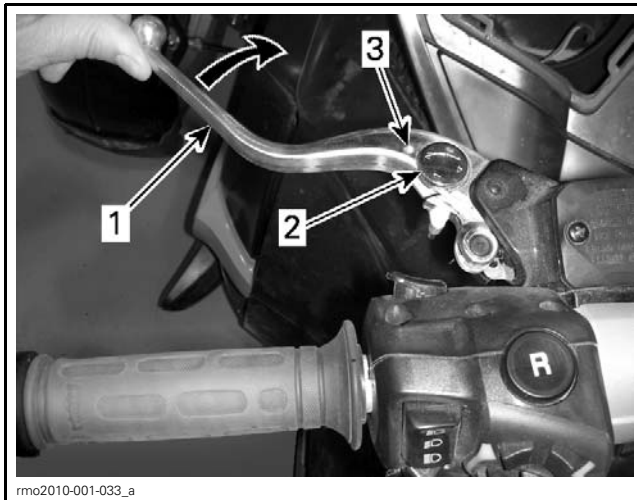
<p>DRIVE BELT TENSION (PARTS AT ROOM TEMPERATURE AND REAR WHEEL LIFTED)</p>
<p>▶ 1050N ± 150N ◀</p>

If the tension of drive belt is out of specification, adjust drive belt as per *DRIVE BELT TENSION ADJUSTMENT*. Refer to *DRIVE SYSTEM* subsection in the proper *CAN-AM ROADSTER SHOP MANUAL*.

Clutch Lever

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

1. Adjust the clutch lever as per the owner's preference.
 - 1.1 Push the clutch lever forward to release the adjuster dial. Hold in position.
 - 1.2 Turn the adjuster dial to the desired position aligning the dial number with the dot on the lever.
 - 1.3 Release the clutch lever.



CLUTCH LEVER ADJUSTMENT
 1. Clutch lever
 2. Adjuster dial
 3. Dot

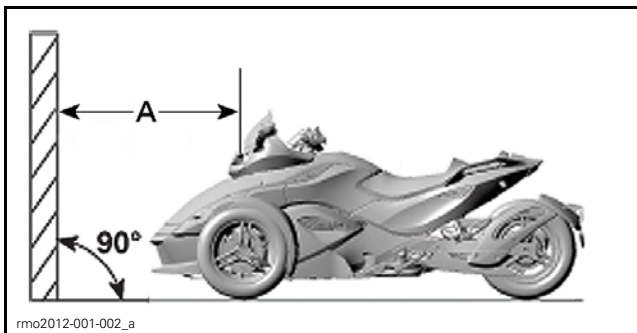
Lights

Headlight Aiming Adjustment

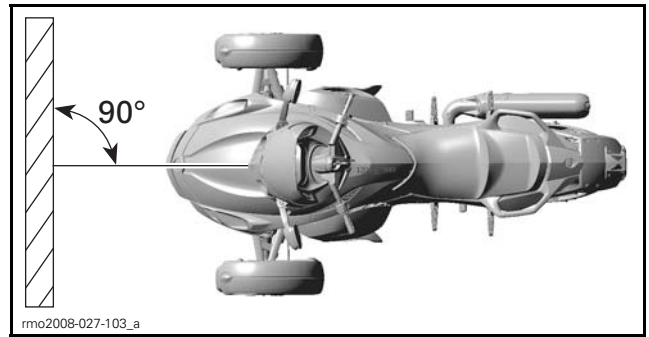
North American Models

Position the vehicle 10 m (33 ft) in front of a test surface as shown.

Have a person of at least 91 kg (200 lb) taking place on the driver's seat.



A. 10 m (33 ft)

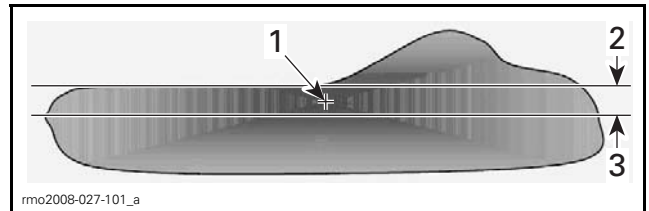


Trace 2 lines parallel to the ground on the test surface as follows:

LINES ON THE TEST SURFACE	
Line 2	700 mm (27-1/2 in) above ground
Line 3	610 mm (24 in) above ground

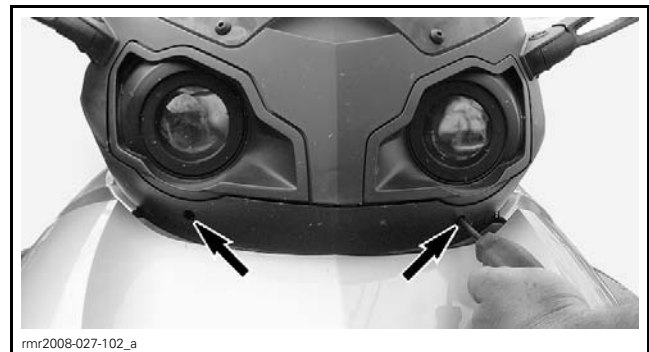
Select low beam.

Beam aiming is correct when the focus point (brightest spot) of headlight reflection is between marks.



TYPICAL - HEADLIGHT REFLECTION ON TEST SURFACE
 1. Focus point
 2. 700 mm (27-1/2 in) above ground
 3. 610 mm (24 in) above ground

Each headlight can be adjusted by turning the adjustment screws located in the front of the lower console with a Phillips screwdriver. Adjust both headlights evenly.

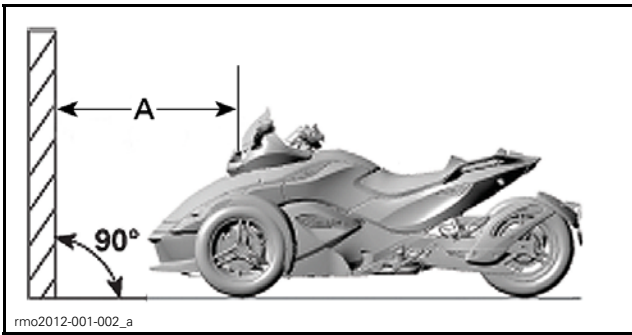


ADJUSTMENT SCREWS

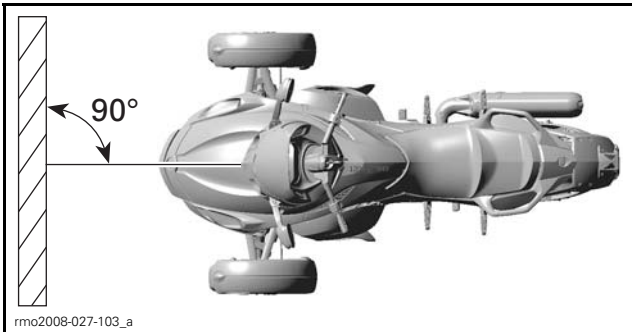
European Models

Position the vehicle 10 m (33 ft) in front of a test surface as shown.

Have a person of at least 91 kg (200 lb) taking place on the driver's seat.



rmo2012-001-002_a
A. 91 kg (200 lb)



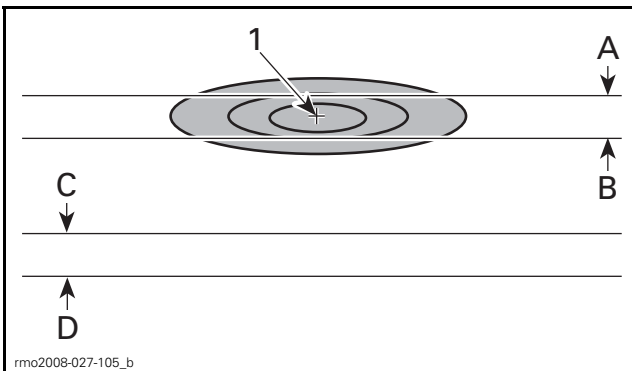
rmo2008-027-103_a

Trace 4 lines parallel to the ground on the test surface as follows:

LINES ON THE TEST SURFACE	
Line A	828 mm (32-19/32 in) above ground
Line B	738 mm (29-1/16 in) above ground
Line C	464 mm (18-9/32 in) above ground
Line D	374 mm (14-23/32 in) above ground

Select high beam.

Beam aiming is correct when the focus point (center point of ellipse) of headlight reflection is between upper marks.

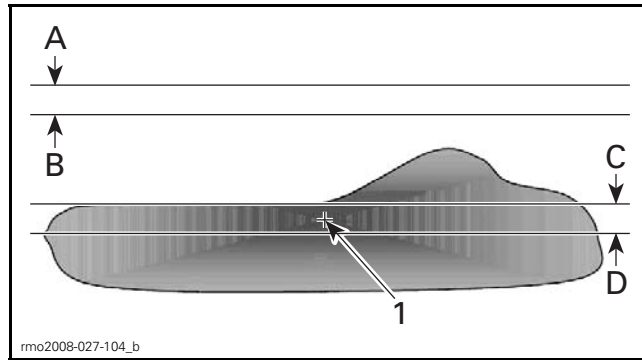


rmo2008-027-105_b
HEADLIGHT REFLECTION ON TEST SURFACE — HIGH BEAM
1. Focus point

- A. 828 mm (32-19/32 in) above ground
- B. 738 mm (29-1/16 in) above ground
- C. 464 mm (18-9/32 in) above ground
- D. 374 mm (14-23/32 in) above ground

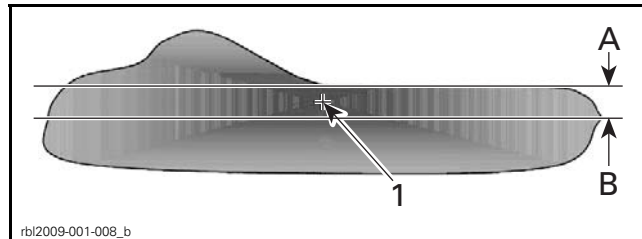
Select low beam.

Beam aiming is correct when the focus point (brightest point) of headlight reflection is between lower marks.



rmo2008-027-104_b
RH TRAFFIC HEADLIGHT REFLECTION ON TEST SURFACE — LOW BEAM

- 1. Focus point
- A. 828 mm (32-19/32 in) above ground
- B. 738 mm (29-1/16 in) above ground
- C. 464 mm (18-9/32 in) above ground
- D. 374 mm (14-23/32 in) above ground



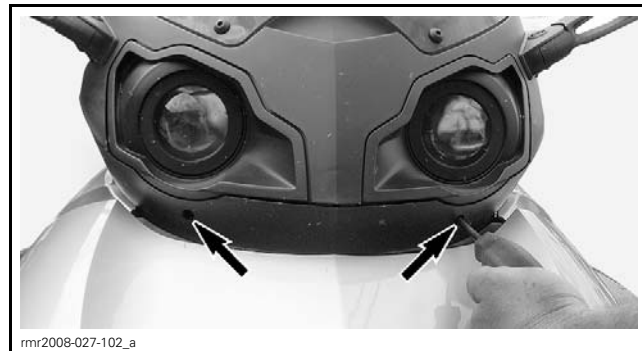
rbj2009-001-008_b
LH TRAFFIC HEADLIGHT REFLECTION ON TEST SURFACE — LOW BEAM

- 1. Focus point
- A. 464 mm (18-9/32 in) above ground
- B. 374 mm (14-23/32 in) above ground

NOTE: For LH traffic country application, low beam headlights must have been replaced as described in this predelivery bulletin.

High Beam

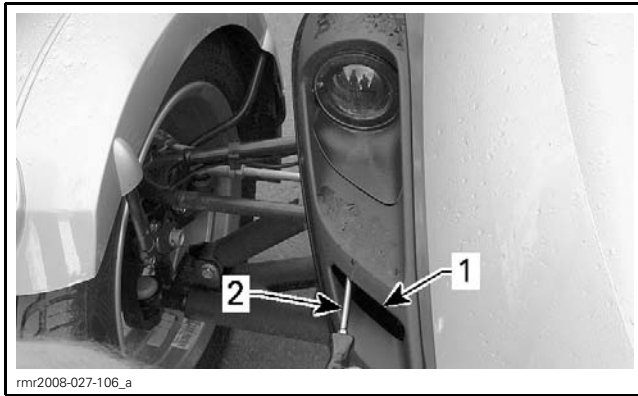
Turn adjustment screws to adjust beam height. Adjust both headlights evenly.



rmr2008-027-102_a
ADJUSTMENT SCREWS

Low Beam

Insert a long Phillips screwdriver into air duct to reach the adjustment screws.



- 1. Air duct
- 2. Screwdriver

Turn adjustment screws to adjust beam height. Adjust both headlights evenly.

B.U.D.S. Programming




Always use the latest B.U.D.S. version on your shop computer. It is available from the following web site:

WWW.BOSSWEB.BRP.COM

Please note that the latest B.U.D.S. version is also available in Knowledge Center.

NOTICE During data transfer, make sure that:

- Voltage (12V) remains stable before starting update. Charge the battery or use a power pack to have enough power.
- Although screen "freezes" for a while, remain on the B.U.D.S. because update still continues
- Never disconnect any cable while updating ECM.

MANDATORY TOOLS	
A personal computer (laptop or desktop)	
MPI-2 INTERFACE CARD (P/N 529 036 018)	
MPI-2 DIAGNOSTIC CABLE (P/N 710 000 851)	
OPTIONAL TOOL	
Extension cable available at electronic retail outlets. Do not exceed 7.5 m (25 ft)	

NOTE: B.U.D.S. is not used to program the hard keys (included keys are ready to use).

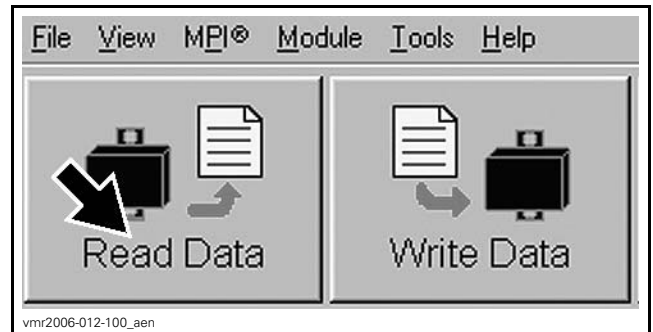
Use B.U.D.S. to

- Enter Customer's Name
- Reset Trip Hours and Trip Distances

- Reset Last Service
- Set Speedometer Units
- Set Cluster Language
- Check fault codes (if any).

Connecting PC to Vehicle

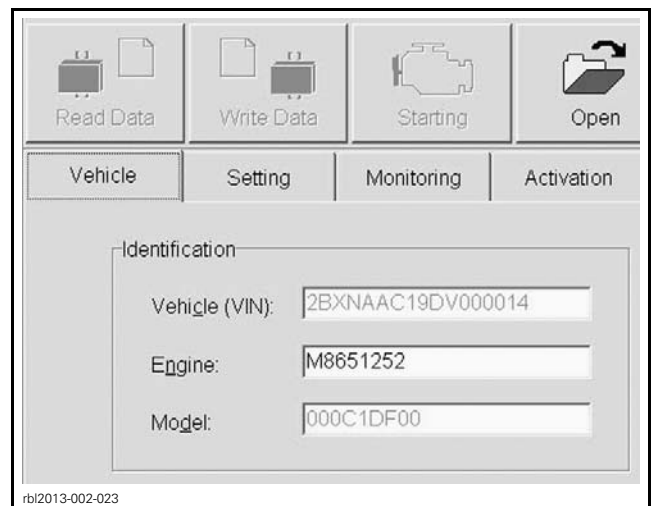
1. Remove service cover from vehicle.
2. Connect the PC to vehicle. Refer to the latest edition of *CAN-AM ROADSTER B.U.D.S. SOFTWARE AND COMMUNICATION TOOLS* for the proper connecting procedure.
3. Press READ DATA button from the tool bar to initiate communication with the vehicle.



Entering Customer's Name

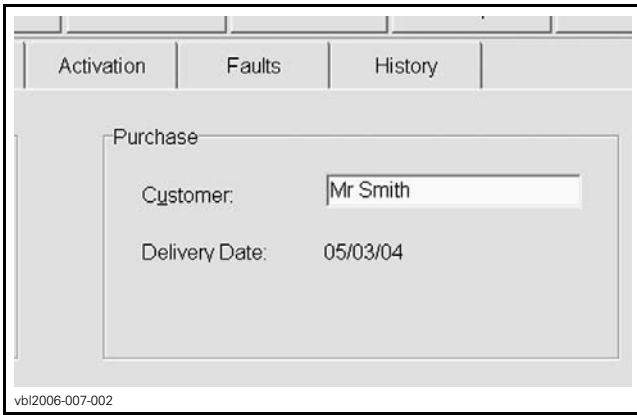
NOTE: When starting the vehicle, the multifunction display will show the name of the customer; for example: "HI JOHN SMITH". If the customer's name is not programmed, only "HI" will be visible when turning the vehicle ON.

1. Click on the VEHICLE tab to open the vehicle information page.



TYPICAL

2. Type the name of the customer.



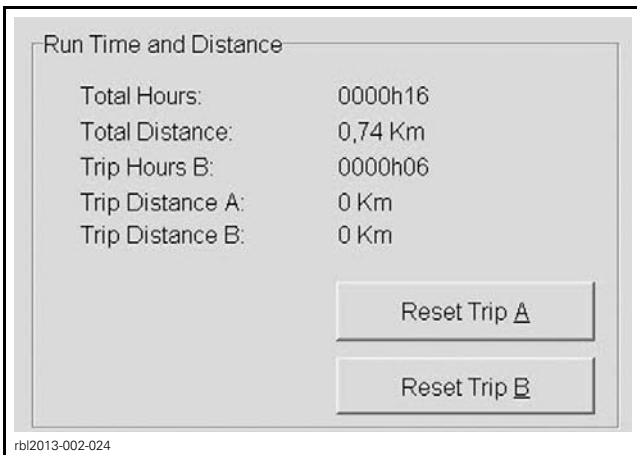
TYPICAL

3. Click on WRITE DATA to save the information in the vehicle ECM.

NOTE: After you are finished typing the name, B.U.D.S. automatically updates the Delivery Date on the screen.

Resetting Trip Hours and Trip Distances

1. Ensure that the VEHICLE tab is selected.
2. Click on the RESET TRIP buttons to reset the information.

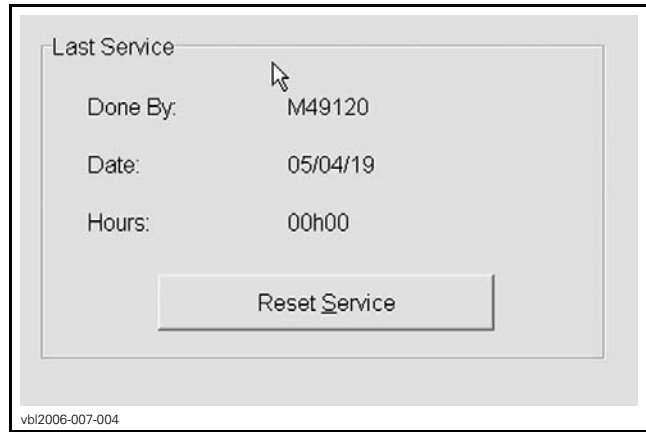


TYPICAL

NOTE: It can also be done directly on the info-center, using the selector button.

Resetting Last Service

1. Click on the RESET SERVICE button to reset the informations.



TYPICAL

NOTE: After each maintenance service, Last Service should be reset to keep a good track of vehicle service history.

Speedometer Units

NOTE: The speedometer is factory preset in miles but it is possible to change it to kilometer reading. Any unit modification is applied to the speedometer, odometer and trip meter.

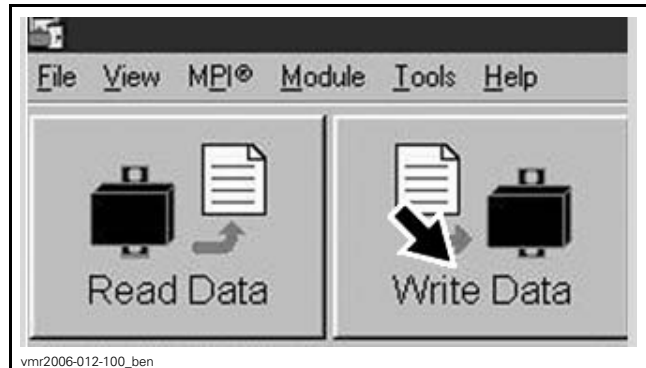
1. Select the SETTING tab in B.U.D.S.
2. Select CLUSTER page.
3. Select **Metric** or **Imperial** from the **Cluster Units** section.

NOTE: No data will be lost when changing this setting.

Ending a B.U.D.S. Session

NOTICE After a problem has been solved, ensure to clear the fault(s). This will properly reset the appropriate counter(s).

1. Click on FAULT tab and check if there are active faults. If so, service vehicle then clear the faults in B.U.D.S
2. Click on WRITE DATA button to transfer new settings and information to the modules.



WRITE DATA BUTTON

3. Click on EXIT button (right most) to end session.

4. Reinstall DCL connector into its housing.
5. Reinstall service cover on vehicle.

Cluster Units and Clock Units Setting

Base Model

Pressing the SET button on the RECC to scroll through the different functions.

MAIN DISPLAY FUNCTIONS	
Function sequence	INFORMATION DISPLAYED
Outside temperature	XX °C (Celsius) XX °F (Fahrenheit)
Tachometer (revolutions per minutes)	XXXX RPM

Pressing the MODE button on the RECC will scroll through the different functions.

SECONDARY DISPLAY FUNCTIONS	
Function sequence	INFORMATION DISPLAYED
Clock	XX:XX (24:00 time base) XX:XX A or P (12:00 AM/PM time base)
Cumulative distance odometer	XXXXX.X Km or mi
Trip distance — odometer A (TRIP A)	XXXXX.X Km or mi
Trip distance — odometer B (TRIP B)	XXXXX.X Km or mi
Trip time chronometer (HrTRIP)	XXXXX.X
Engine time chronometer (Hr)	XXXXX.X
Date (Month - Day)	XX-XX Month and Day

Setting Metric/Imperial Units

1. Push and hold SET button on the RECC for three seconds.
2. Push **_down arrow_** to select KM, push up arrow to select MI.

Setting Clock

1. Press MODE button to select clock display.
2. Push and hold MODE button for three seconds.
3. Press down arrow to select 12:00 AM PM or up arrow to select 24:00 time base.
4. If 12:00 AM PM time base is selected, AM PM is displayed in upper LCD. Press up or down arrow to select A (AM) or P (PM).
5. Press on the right arrow to display Hr in upper LCD. The hour number flashes in the lower LCD. Press up or down arrow to select the applicable hour value.
6. Press on the right arrow to display Min in upper LCD. The minute number flashes in the lower LCD. Press up or down arrow to select the applicable minute value.

7. When completed, press the right arrow to exit the menu.

NOTE: You can always return to previous selection using the left arrow.

Setting Language

The gauge display language can be changed..

Clock Setting

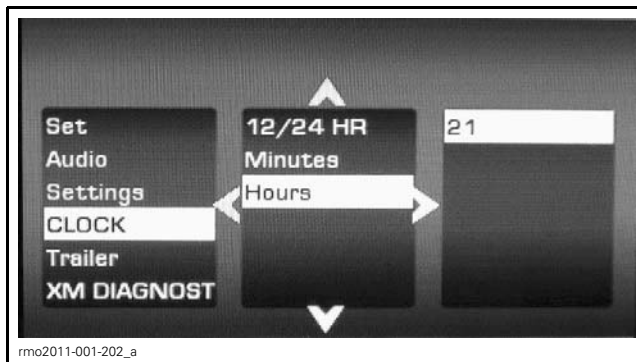
RS-S Model

NOTE: It is normal that the **check engine** indicator lamp is displayed while the clock is adjusted.

Setting the Time

To set the hours:

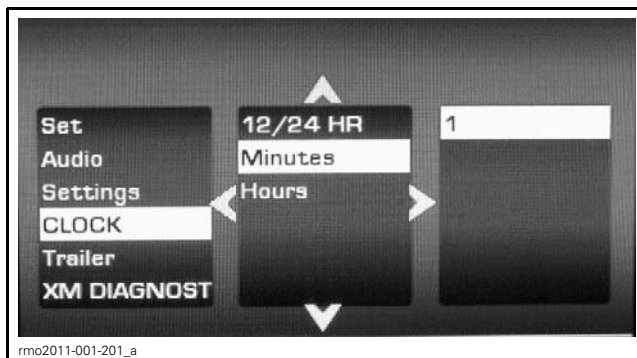
Select CLOCK in main category of Preferences Screen.



Select HOURS in secondary category.
Adjust the unit value using the UP and DOWN arrow.

To set the minutes:

Select CLOCK in main category of Preferences Screen.

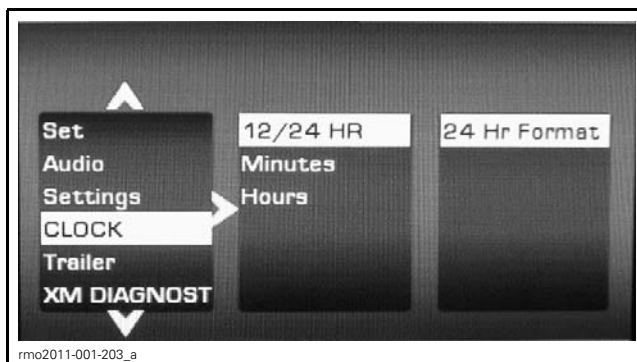


Select MINUTES in secondary category.
Adjust the unit value using the UP and DOWN arrow.

Selecting the Hour Mode

To select the 12/24 hour mode:

Select CLOCK in main category of Preferences Screen.



Select 12/24 HOUR in secondary category.
Select the appropriate value in main unit or setting.

ASSEMBLY INSPECTION

Inspect the following parts to make sure that the vehicle is properly assembled.

NOTE: Ensure that all protective materials are removed from vehicle.

1. Front compartment cover and seat locks
2. Passenger grab handles
3. Front wheel lug nut torque (must be 105 N•m (77 lbf•ft))
4. Suspension arm ball joint cotter pins
5. Tie rod end nuts and cotter pins
6. Rear axle nut and cotter pin
7. Gearshift pedal operation
8. Parking brake pedal and cable operation
9. Brake lines
10. Foot pegs.

NOTE: Refer to the Predelivery Check List to confirm that all items are covered by your inspection.

FINAL INSPECTION

Vehicle Test Run

Ride the vehicle to ensure proper operation of all systems and components.

NOTE: It is normal for the shock absorbers not to provide their optimal performance during the first test ride. They will be set after a few suspension strokes.

1. Instrument cluster operation and indicator-warning pilot lamps functioning on power up.
2. Display of safety message in cluster.
3. Starter interlock mechanism operation.
 - 3.1 Press start button to make sure engine can not be started if M button is not depressed to acknowledge safety message.
4. Cluster mode button and set button operation.
5. Check for error messages in cluster and correct if necessary.
6. Verify that both ignition keys allow the engine to start.
7. Brake operation.
 - The brake pedal is in front of the right foot-peg.

- Press it down to operate.
 - This pedal brakes all three wheels.
- 7.1 Ensure brake pedal is firm when pressure is applied and that it returns freely.
8. Parking brake operation.
- The parking brake pedal is behind the operator's left footpeg. This pedal brakes only the rear wheel.
- 8.1 Press it down firmly until it locks to apply the parking brake.
- 8.2 Firmly press the pedal down a second time to release the parking brake.
- 8.3 Ensure parking brake is shut-off.
9. Reverse button operation (SE5 Model).
- 9.1 Start engine.
- 9.2 Shift in first gear, slightly apply on throttle then release.
- 9.3 Shift in reverse, slightly apply on throttle then release.
- 9.4 Shift in neutral position, slightly apply on throttle then release.
10. Reverse interlock operation (SM5 Model).
- 10.1 With the engine running, attempt to shift into reverse without pulling the reverse interlock lever back.
- 10.2 Release the clutch lever.
- 10.3 If the transmission is allowed to shift to reverse, the reverse interlock will need to be adjusted.
11. Throttle operation.
- The throttle is the right handgrip, and it controls engine speed. To increase engine speed, roll the throttle toward you. To decrease engine speed, roll the throttle away from you. The throttle is spring loaded and should return to idle when you release it.
- 11.1 With handlebars turned fully left and then fully right, ensure that the throttle returns completely to idle position.
12. Clutch lever operation (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 to disengage power and released to engage power.

13. Engine stop switch operation.
- The engine stop switch is near the right handgrip. It 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.
14. Operation of the following lights:
- Headlights
 - Taillights
 - Brake light
 - Position lights
 - Turn signals
 - Hazard lights
 - Licence plate light.
15. Dimmer switch operation.
16. Headlight overrun button operation.
- There is a headlight override button on the front of the right handgrip.
17. Horn operation.
- The horn button is located near the left handgrip.
18. Leakage of the following fluids:
- Fuel
 - Engine oil
 - Engine coolant
 - Brake fluid
 - Clutch fluid

Vehicle Cleaning

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

NOTICE Never use a high pressure washer to clean the vehicle. USE LOW PRESSURE ONLY (like a garden hose). The high pressure can cause electrical or mechanical damage.

NOTICE It is necessary to use flannel cloths on plastic parts to avoid damaging surfaces.

NOTICE Do not wash the seat with a vinyl or plastic cleaner because the seat may become slippery.

NOTICE Certain plastic or vinyl cleaners will damage the seat cover. Use only mild detergent, such as soap specially formulated for motorcycles or automobiles.

1. Wet the vehicle thoroughly with water.

2. Wash the vehicle with water mixed with a mild detergent, such as soap specially formulated for motorcycles or automobiles.
3. Dry the vehicle with a chamois or a soft towel.

NOTE: While washing the vehicle, check for grease or oil. If necessary, use a mild automotive degreaser and follow the manufacturer's instructions.

Delivery to Customer

Complete the *PREDELIVERY CHECK LIST*.

The customer and dealer must read and sign the *PREDELIVERY CHECK LIST*.

SPECIFICATIONS

Canada and USA

MODEL			SPYDER RS	
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			67.5 mm (2.6575 in)	
Displacement			998 cm ³ (60.9 in ³)	
Compression ratio			12,2:1	
Lubrication	Type		Dry sump with separate oil tank and oil cooler	
	Oil filter	Engine	BRP Rotax microglass fibre type, replaceable	
		Transmission (SE5)	BRP Rotax microglass fibre 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		Use XPS 4-STROKE SYNTH. BLEND OIL (SUMMER) (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 brake fluid	
	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		
GEARBOX				
Type	SM5		Sequential Manual 5-speed (SM5) with remote electronic reverse interlock	
	SE5		Sequential Semi-automatic 5-speed (SE5) with remote electronic reverse interlock	
COOLING SYSTEM				
Type			Liquid cooled, single radiator with cooling fan	
Coolant	Type		Ethyl glycol/water mix (50% coolant, 50% distilled water). Use premixed coolant sold by BRP (P/N 219 700 362) or coolant specifically designed for aluminum engines	
	Capacity		3 L (.79 U.S. gal.)	

MODEL		SPYDER RS	
ELECTRICAL SYSTEM			
Magneto generator output		500 W	
Ignition system type		Electronic ignition with dual output coil	
Ignition timing		Not adjustable	
Spark plug	Quantity	2	
	Make and type	NGK KR8Bi	
	Gap	0.7 mm - 0.8 mm (.028 in - .031 in)	
Engine RPM limiter setting	Forward	9500 RPM	
Battery	Type	Yuasa YTX24HL-BS	
	Voltage	12 volts	
	Nominal rating	21 A•h	
	Recommended charging rate	2 A	
Headlight		2 x 55 W	
Taillight/brake light		2 x 5/21 W	
Turn signal lights	Front	21 W	
	Rear	10 W	
Position lights		2 x 5 W	
License plate light		10 W	
Fuses		Refer to <i>FUSES</i> in <i>HOW TO REPLACE FUSES AND LIGHTS</i> in the appropriate <i>OPERATOR'S GUIDE</i>	
FUEL SYSTEM			
Fuel delivery	Type	Multi-point Electronic Fuel Injection (EFI) with ETC (Electronic Throttle Control) dual 51 mm throttle body with an actuator	
Fuel pump	Type	Electrical module in fuel tank	
Idle speed		1400 ± 100 RPM (not adjustable)	
Fuel	Type	Regular unleaded gasoline (fuel which may contain up to 10% MAX ethanol)	
	Octane no.	Inside North America	87 (R+M)/2 or higher
		Outside North America	92 RON or higher
Fuel tank capacity		25 L (6.6 U.S. gal.)	
DRIVE SYSTEM			
Final drive type		Carbon reinforced drive belt	
Final drive ratio		28/79	
STEERING			
Type		Dynamic Power Steering (DPS)	
FRONT SUSPENSION			
Suspension type		Double A-arm with anti-sway bar	
Suspension travel	RS	151 mm (5.94 in)	
	RS-S	142 mm (5.59 in)	
Shock absorber	Qty	2	
	Type	SACHS twin-tube coil-over	
Spring preload adjustment		No adjustment	

SPECIFICATIONS

MODEL		SPYDER RS
REAR SUSPENSION		
Suspension type		Swing arm with monoshock
Suspension travel		152 mm (5.98 in)
Shock absorber	Qty	1
	Type	SACHS twin-tube coil-over
Spring preload adjustment		No adjustment
BRAKES		
Type		Brembo
Front brake	RS	Dual 270 mm (11 in) rigid discs, radially mounted Brembo monobloc
	RS-S	Dual 270 mm (11 in) rigid discs radially mounted Brembo monobloc with 4 piston calipers, 2-pad
Rear brake		Single 270 mm (11 in) disc with 1 piston floating caliper with integrated parking
Brake fluid	Capacity	0.530 L (.14 U.S. gal.)
	Type	DOT 4
Parking brake		Mechanical, left foot pedal 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 warpage		0.12 mm (.005 in)
TIRES		
Type (use only tires recommended by BRP)	Front	Kenda KR31 165/55R15
	Rear	Kenda KR21A 225/50R15
Pressure	Front	Nominal.: 103 kPa (15 PSI) Min.: 89 kPa (13 PSI) Max.: 117 kPa (17 PSI) NOTE: The pressure difference between the left and right side tire should not exceed 3.4 kPa (.5 PSI).
	Rear	Nominal.: 193 kPa (28 PSI) Min.: 179 kPa (26 PSI) Max.: 207 kPa (30 PSI)
Minimum tire tread depth	Front	2.5 mm (3/32 in)
	Rear	4.0 mm (5/32 in)
WHEELS		
Size (diameter X width)	Front	381 mm (15 in) x 127 mm (5 in)
	Rear	381 mm (15 in) x 178 mm (7 in)
Front wheel nuts torque		105 N•m (77 lbf•ft)
Rear drive axle nut torque		130 N•m (96 lbf•ft)

MODEL		SPYDER RS
DIMENSIONS		
Overall length		2 667 mm (105 in)
Overall width		1 506 mm (59.3 in)
Overall height		1 145 mm (45.1 in)
Seat (top) height		737 mm (29 in)
Wheel base		1 711 mm (67.4 in)
Front wheel track		1 308 mm (51.5 in)
Ground clearance, front and under engine		110 mm (4.3 in)
WEIGHT AND LOADING CAPACITY		
Dry weight		362 kg (798.1 lb)
Front storage compartment	Capacity	58 L (15.32 U.S. gal.)
	Maximum load	16 kg (35 lb)
Total vehicle load allowed (including operator, all other loads and added accessories)		208 kg (459 lb)
Gross vehicle weight rating (GVWR)		593 kg (1,307 lb)

Europe

MODEL		SPYDER RS (CE)		
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		67.5 mm (2.66 in)		
Displacement		998 cm ³ (60.9 in ³)		
Compression ratio		12.2:1		
Lubrication	Type	Dry sump with separate oil tank and oil cooler		
	Oil filter	Engine	BRP Rotax microglass fibre type, replaceable	
		Transmission (SE5)	BRP Rotax microglass fibre 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	Use XPS 4-STROKE SYNTH. BLEND OIL (SUMMER) (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 Brake Fluid	
	SE5 model	Type	Centrifugal clutch + wet multi-plate clutch automatically controlled by TCM	
		Engagement	2000 +/- 200 RPM (centrifugal)	
		Stall	3200 +/- 200 RPM (centrifugal)	
	Exhaust system		2 into 1 with catalytic converter	
Air filter		Paper element		
GEARBOX				
Type	SM5	Sequential Manual 5-speed (SM5) with remote electronic reverse interlock		
	SE5	Sequential Semi-automatic 5-speed (SE5) with remote electronic reverse interlock		
COOLING SYSTEM				
Type		Liquid cooled, single radiator with cooling fan		
Coolant	Type	Ethyl glycol/water mix (50% coolant, 50% distilled water). Use premixed coolant sold by BRP (P/N 219 700 362) or coolant specifically designed for aluminum engines		
	Capacity	3 L (.79 U.S. gal.)		

MODEL		SPYDER RS (CE)	
ELECTRICAL SYSTEM			
Magneto generator output		500 W	
Ignition system type		Electronic ignition with dual output coil	
Ignition timing		Not adjustable	
Spark plug	Quantity	2	
	Make and type	NGK KR8Bi (apply heat-sink paste P12 (P/N 420 897 186) on spark plug threads)	
	Gap	0.7 mm - 0.8 mm (.028 in - .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		4 X 60 W	
Tail light/brake light		2 X 5/21 W	
Backup light (Australian model only)		21 W	
Turn signal lights	Front	21 W	
	Rear	21 W	
Position lights		2 X 5 W	
License plate light		10 W	
Fuses		Refer to <i>FUSES</i> in <i>HOW TO REPLACE FUSES AND LIGHTS</i> in the appropriate <i>OPERATOR'S GUIDE</i>	
FUEL SYSTEM			
Fuel delivery	Type	Multi-point Electronic Fuel Injection (EFI) with ETC (Electronic Throttle Control) dual 51 mm throttle body with an actuator	
Fuel pump	Type	Electrical module in fuel tank	
Idle speed		1400 ± 100 RPM (not adjustable)	
Fuel	Type	All vehicles except Brazilian	Regular unleaded gasoline (fuel which may contain up to 10% MAX ethanol)
		Brazilian	Regular unleaded gasoline (fuel which may contain up to 25% MAX ethanol)
	Octane no.		92 RON or higher
Fuel tank capacity		25 L (6.6 U.S. gal.)	
DRIVE SYSTEM			
Final drive type		Carbon reinforced drive belt	
Final drive ratio		28/79	
STEERING			
Type		Dynamic Power Steering (DPS)	

SPECIFICATIONS

MODEL		SPYDER RS (CE)
FRONT SUSPENSION		
Suspension type		Double A-arm with anti-roll bar
Suspension travel	RS	151 mm (5.94 in)
	RS-S	142 mm (5.59 in)
Shock absorber	Qty	2
	Type	SACHS twin-tube coil-over
Front preload adjustment		No adjustment
REAR SUSPENSION		
Suspension type		Swing arm with monoshock
Suspension travel		152 mm (5.98 in)
Shock absorber	Qty	1
	Type	SACHS twin-tube coil-over
Rear preload adjustment		No adjustment
BRAKES		
Type		Foot-actuated, fully integrated hydraulic 3-wheel braking system with ABS and EBD
Front brake	RS	Dual 270 mm (11 in) rigid discs, radially mounted Brembo monobloc
	RS-S	Dual 270 mm (11 in) rigid discs, radially mounted Brembo monobloc with 4 piston calipers, 2-pad
Rear brake		Single 270 mm (11 in) disc with 1 piston floating caliper with integrated parking
Brake fluid	Capacity	0.530 L (.14 U.S. gal.)
	Type	DOT 4
Parking brake		Mechanical, left foot pedal 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 warpage		0.12 mm (.005 in)
TIRES		
Type (use only tires recommended by BRP)	Front	KR31 165/55R15
	Rear	KR21 225/50R15
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)
Minimum tire tread depth	Front	2.5 mm (3/32 in)
	Rear	4.0 mm (5/32 in)

MODEL		SPYDER RS (CE)
WHEELS		
Size (diameter X width)	Front	381 mm (15 in) x 127 mm (5 in)
	Rear	381 mm (15 in) x 178 mm (7 in)
Front wheel nuts torque		105 N•m (77 lbf•ft)
Rear drive axle nut torque		130 N•m ()
DIMENSION		
Overall length		2 667 mm (105 in)
Overall width		1 506 mm (59.3 in)
Overall height		1 145 mm (45.1 in)
Seat (top) height		737 mm (29 in)
Wheel base		1 711 mm (67.4 in)
Front wheel track		1 308 mm (51.5 in)
Ground clearance, front and under engine		110 mm (4.3 in)
WEIGHT AND LOADING CAPACITY		
Dry weight		362 kg (798.1 lb)
Front storage compartment	Capacity	58 L (15.3 U.S. gal.)
	Maximum load	16 kg (35 lb)
Total vehicle load allowed (including operator, all other loads and added accessories)		208 kg (459 lb)
Gross vehicle weight rating (GVWR)		593 kg (1,307.3 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.