can-am BRP

WARRANTY
CAMPAIGN

ROADSTER
WARRANTY
Bulletin

CAUTION: *All involved customers must be notified, all involved units must be corrected as per instructions herein.*

Campaign no.: 2010–0006

July 26, 2010

Subject: **A) Radio Antenna Installation**
B) Middle Side Panel Rubber Grommets
C) Rear Suspension Inspection and Calibration
D) Fault Codes: P0504 and C0040

No. **2010-6**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2010	Spyder™ RT	All	All
	Spyder RT Audio & Convenience		
	Spyder RT-S		

PROBLEM

A) On RT Audio & Convenience and RT-S models, the radio antenna may loosen under certain conditions.

B) Middle side panel rubber grommets may be pushed in when the side panel is installed and create rattle.

C) Rear shock absorber may top out under certain conditions. Repeat topping out could damage the shock internally.

D) Fault codes P0504 and C0040 may appear under certain conditions.

SOLUTION

A) Verify if the M6 stainless steel lock washer has been installed at PDI and add LOCTITE 243 (BLUE) (P/N 293 800 060).

B) Gluing the rubber grommets retaining the middle side panel (three on each side).

C) Check rear shock absorber condition. Replace it as required. On RT-S series, reset the ACS position sensor using the new provided procedure and values.

D) Check the most common conditions required to generate these fault codes.

REQUIRED TOOLS, PARTS AND PRODUCTS

To perform this bulletin you will need the following

Problem A

PRODUCT	QTY
LOCTITE 243 (BLUE) (P/N 293 800 060)	One drop

PART	QTY
M6 stainless steel lock washer (P/N 234 161 601)	1 (If missing)

Problem B

PRODUCT	QTY
LOCTITE 414 (P/N 413 705 800) or LOCTITE 495 (GLUE) (P/N 293 800 021)	Approximately 12 drops

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PART	QTY
180-grit or a 220-grit sandpaper	1

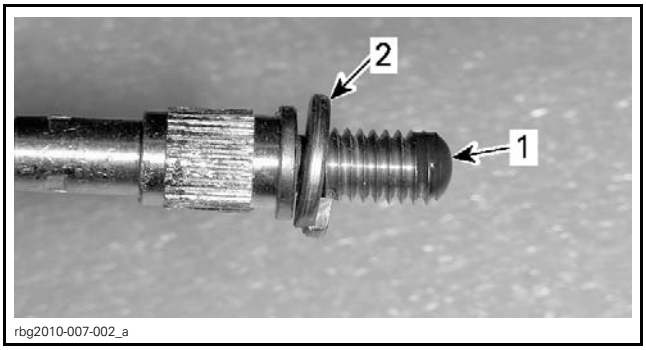
Problem C

MANDATORY TOOLS	
2 pieces of wood (refer to step 7 in *ACS POSITION SENSOR RESET (RT-S SERIES ONLY)* section for proper lengths	
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)	

A – ANTENNA INSTALLATION

1. Unscrew the radio antenna and check if the lock washer is installed (provided in the PDI kit). If not, install a M6 stainless steel lock washer (P/N 234 161 601).
2. When reinstalling the radio antenna, apply one drop of LOCTITE 243 (BLUE) (P/N 293 800 060) on the first thread of the antenna.

NOTICE **To avoid hydro-lock or further loosening problems, do not add the threadlocker in other location and do not apply more than the recommended quantity of threadlocker.**



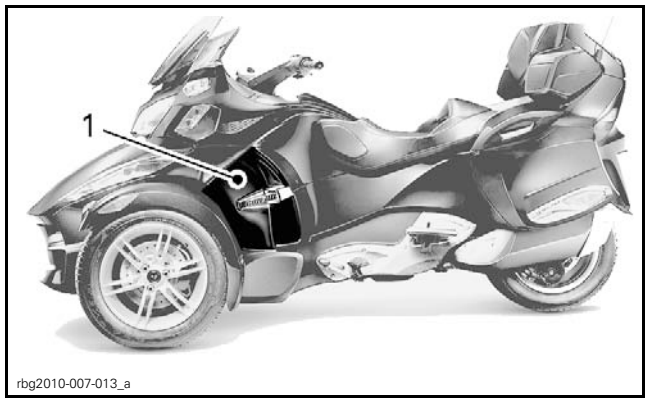
1. Drop of LOCTITE 243
2. M6 stainless steel lock washer

3. Tighten antenna then install rubber cap on vehicle (tighten by hand).

NOTE: Loctite 243 can also be added on CB antenna.

B – MIDDLE SIDE PANEL RUBBER GROMMETS

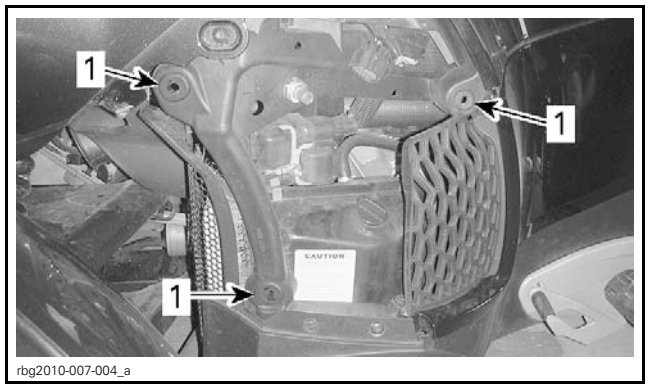
1. Remove the middle side panel.



1. Middle side panel

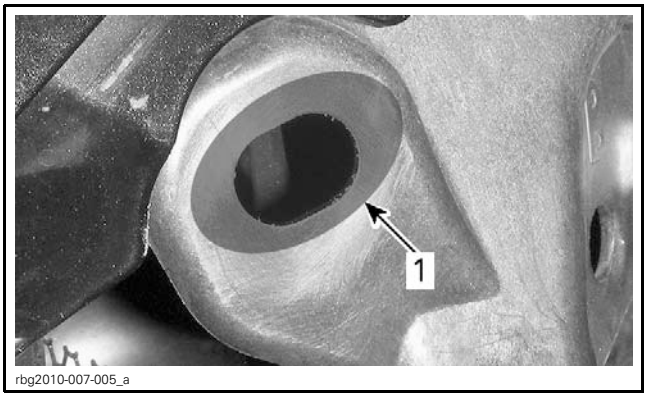
2. Remove the three rubber grommets retaining the middle side panel.

NOTE: On some vehicles, 2 rubber grommets are factory glued, do not remove them.



LH SIDE OF VEHICLE SHOWN
1. Remove these rubber grommets

3. Using a 180-grit or a 220-grit sandpaper, prepare the surface where the lip of the rubber grommet is in contact with the side panel support (repeat for each rubber grommet).



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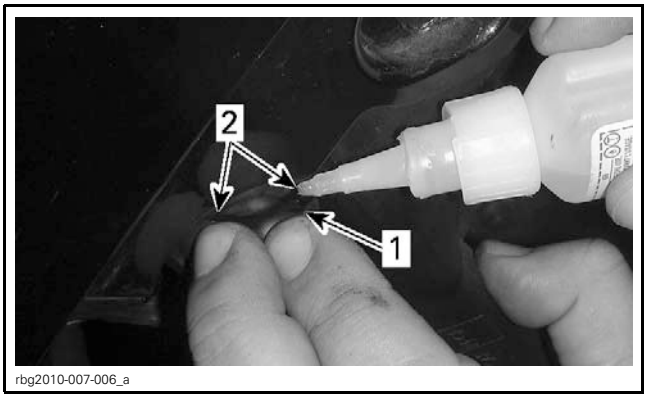
1. Prepare the shaded area

4. Clean the sanded surfaces and rubber grommet lips using isopropyl alcohol or an equivalent product. Let dry thoroughly.
5. Install a rubber grommet. Make sure rubber grommet is properly positioned.
6. Lower the lip and apply two drops of LOCTITE 414 (P/N 413 705 800) or LOCTITE 495 (GLUE) (P/N 293 800 021).



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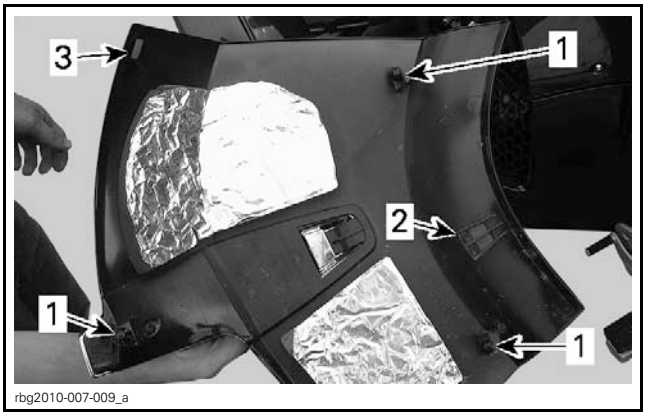
1. Lower rubber grommet lip
2. Apply glue here

7. Press the rubber grommet lip against the support for at least 30 seconds.
8. Repeat steps 5 to 7 for the remaining rubber grommets.
9. Reinstall the panel.
   - 9.1 Spray water or soapy water on panel tabs to ease installation through rubber grommets.
   - 9.2 Carefully push the panel tabs through the rubber grommets.
   - 9.3 On so equipped panels, ensure front and rear retaining hooks are properly locked.



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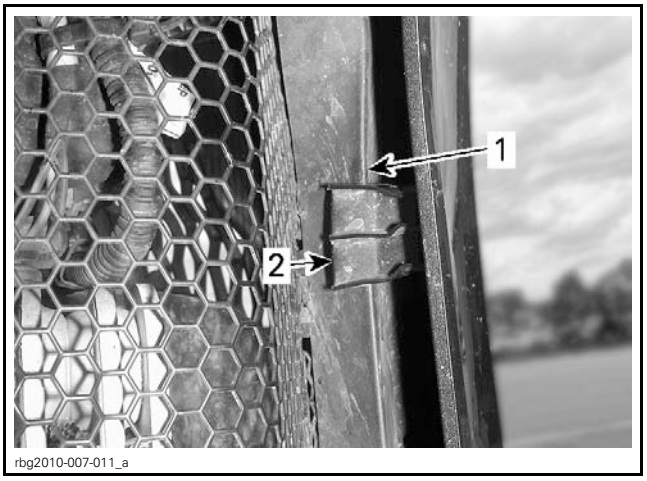
1. Panel tabs
2. Front retaining hook
3. Rear retaining hook

NOTE: When the panel is installed properly, the radiator grille support (RH of vehicle) or the oil cooler grille support (LH of vehicle) is inserted behind the panel hook.



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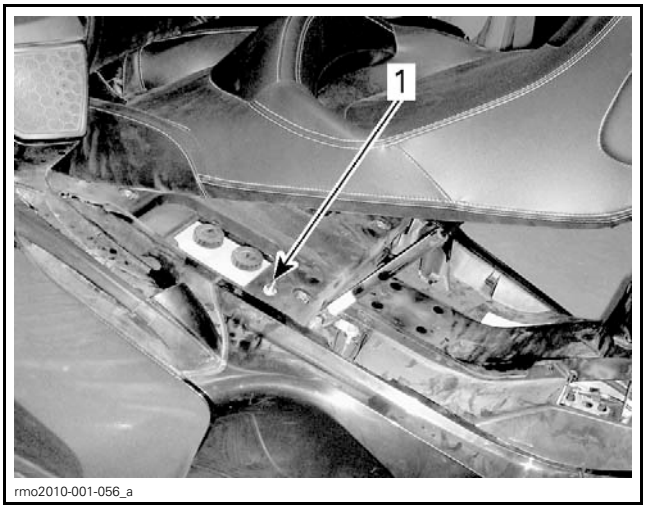
LH SIDE OF VEHICLE SHOWN
1. Oil cooler grille support
2. Front retaining hook

10. Repeat the whole procedure on the other side of vehicle.

C – REAR SUSPENSION INSPECTION AND CALIBRATION

Rear Shock Absorber Rebound Verification

1. Park the vehicle straight on a level surface.
2. Turn ignition switch to OFF position.
3. Open seat.
4. Locate the ACS schrader valve.



1. Schrader valve

5. Check air pressure in rear suspension system.

NOTE: If air suspension pressure is 0 (zero) and/or if a leak is expected, refer to *SERVICE BULLETIN 2010-15, REAR AIR SUSPENSION LEAKAGE INSPECTION*.

6. Manually adjust air suspension pressure to 207 kPa ± 20 kPa (30 PSI ± 3 PSI).
7. From the rear of the vehicle, press down as much as possible and release to let suspension return upward.

If the suspension bounces freely or returns quickly and bangs to the top, the shock absorber needs to be replaced.

NOTICE On RT-S series, ALWAYS detach link rod from ACS position sensor before removing the rear shock absorber. At installation make sure to position the link in proper position. See the first 2 illustrations in *ACS POSITION SENSOR RESET (RT-S SERIES ONLY)* section, further in this bulletin.

Rear shock absorber replacement must be performed using the regular warranty channel. Refer to the *DEALER/DISTRIBUTOR WARRANTY GUIDE*.

Rear Air Suspension Adjustment (RT and RT Audio & Convenience Models)

Adjust suspension accordingly with the following chart and riding conditions.

NOTICE Do not exceed the maximum allowed pressure. This might damage the shock absorber and the air suspension components.

⚠ WARNING

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

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

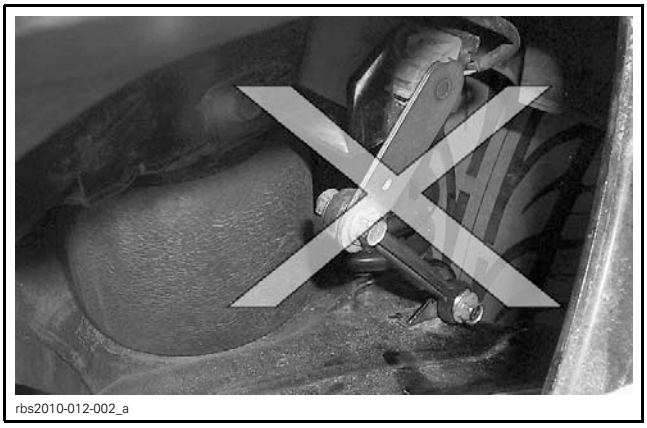
When finished, ensure to reinstall cap on the valve.

ACS Position Sensor Reset (RT-S Series Only)

NOTE: Before performing this procedure, check battery voltage. The battery must be fully charged or use a power pack to have enough power for the duration of the procedure.

1. Park vehicle straight on a level surface.
2. Check rear tire pressure and make sure that tire is inflated at 193 kPa (28 PSI).
3. Ensure the ACS lever is pointing rearward and the mounting bracket of the ACS position sensor is not bent. Repair if required before performing this procedure.

ACS LEVER – CORRECT ORIENTATION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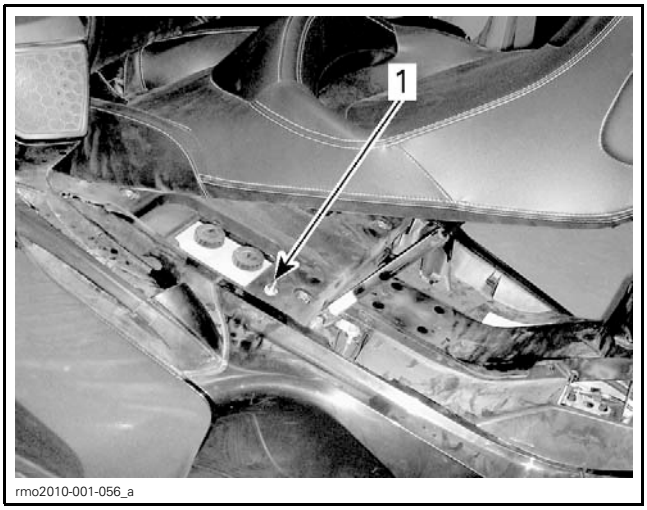
ACS LEVER – INCORRECT ORIENTATION

4. Connect the MPI-2 INTERFACE CARD (P/N 529 036 018) and the MPI-2 DIAGNOSTIC CABLE (P/N 710 000 851) to the vehicle. Do not start B.U.D.S. a this moment. Refer to *CAN-AM 2010 SPYDER RT SHOP MANUAL* - Section 03 ELECTRONIC MANAGEMENT SYSTEMS (Subsection 3) *COMMUNICATION TOOLS AND B.U.D.S. SOFTWARE* for details.
5. Ensure you have B.U.D.S. version P2.3.29 installed on your computer. If no, this version is available on BOSSWeb.
6. Locate the ACS schrader valve and release all air pressure from the rear air suspension system.



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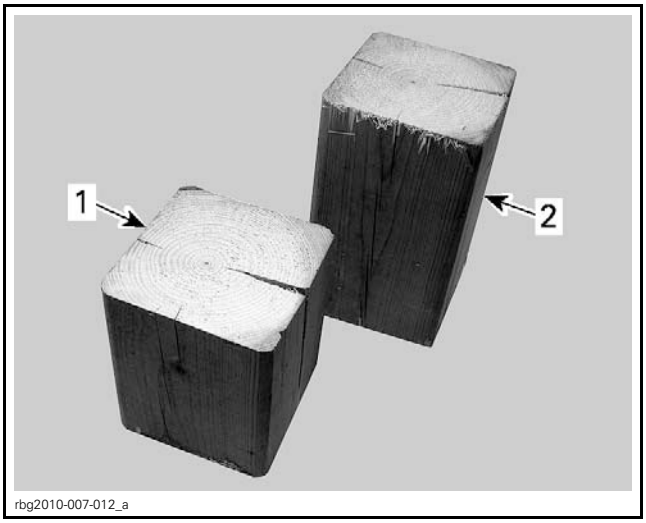
1. Schrader valve

7. Cut two pieces of wood or an equivalent to the following lengths to create special measurement tools.

MEASUREMENT TOOL	LENGTH
Measurement tool A	105 mm (4-1/8 in)
Measurement tool C	150 mm (5-7/8 in)



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1. Measurement tool A
2. Measurement tool C

8. Lift the vehicle and from the LH side of the vehicle, insert measurement tool A in front of the curved portion of the frame as shown.

NOTE: Make sure measurement tool does not touch other parts of vehicle.

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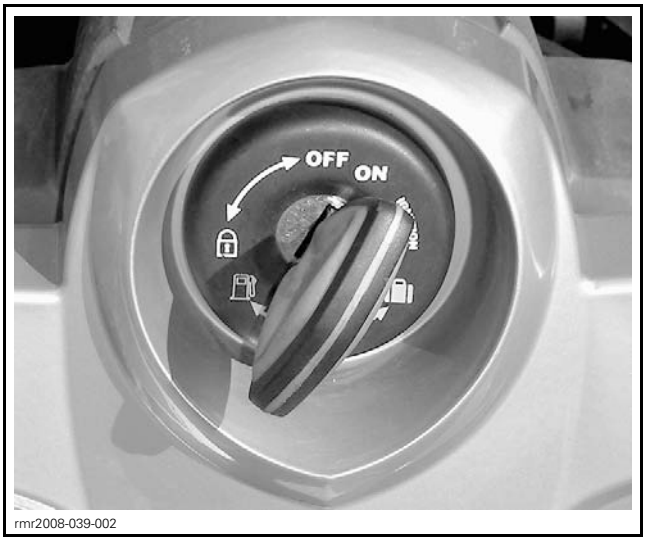
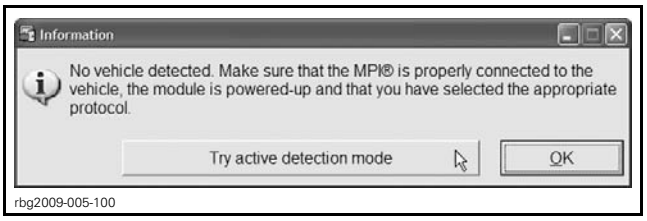
LH SIDE OF THE VEHICLE SHOWN
1. Front of vehicle
2. Catalytic converter

9. Lower the vehicle on measurement tool A.
10. Place ignition switch to ON position.

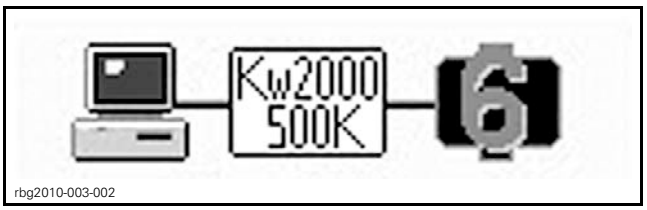


11. Start B.U.D.S. and logon.

NOTE: The following message will be displayed momentarily. If it does not disappear automatically, click on the "**Try active detection mode**" button.



NOTE: The Kw2000 (500K) icon will appear at the bottom of the screen indicating a successful connection. The number to the right indicates the quantity of modules detected.

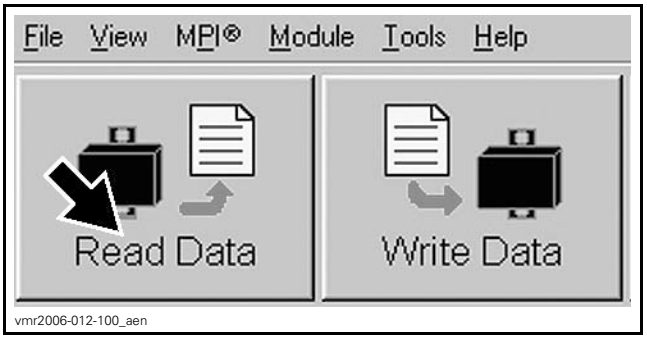


TYPICAL — SM5 ILLUSTRATED
1. Icon indicating a successful connection

12. Ensure all modules are detected.

SPYDER RT MODEL	QUANTITY OF MODULES
SM5	6
SE5	7

13. In B.U.D.S., click on **Read Data** button.

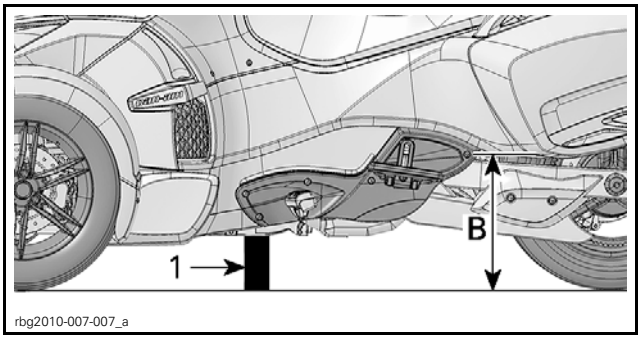


READ DATA BUTTON

14. Select **Setting** page.
15. Select **ACC** folder.
16. Place approximately 95 kg (210 lb) on passenger seat.
17. Check measurement B from center of rear screw to floor as shown below.

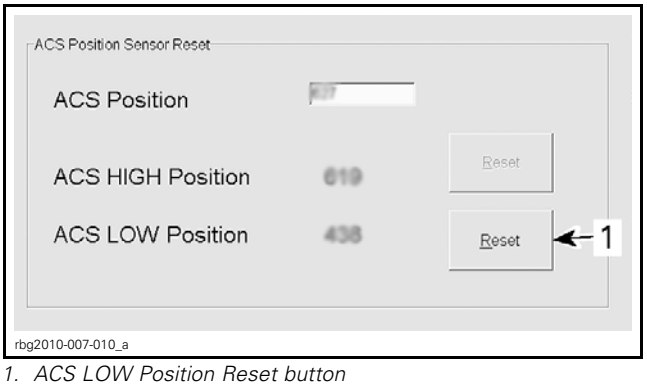
NOTE: You may need to manually lift or push down the rear of the vehicle to reach measurement B.

LOW POSITION SENSOR RESET	
Measurement B	330 mm ± 3 mm (13 in ± 1/8 in)



ACS POSITION SENSOR RESET (LOW POSITION)
1. Measurement tool A
B. 330 mm ± 3 mm (12.992 in ± .118 in)

18. When measurement B is obtained, hold the vehicle in this position and press the **ACS LOW Position Reset** button.



1. ACS LOW Position Reset button

NOTICE ALWAYS use measurements provided in this bulletin to reset the ACS position sensor. The ACS position values indicated in B.U.D.S. do not match with the suspension height measurement AND are specific for each vehicle. These values must NEVER be used to adjust or confirm the position of the ACS position sensor during the ACS position sensor reset procedure. Futhermore, DO NOT try to match these values on other vehicles.

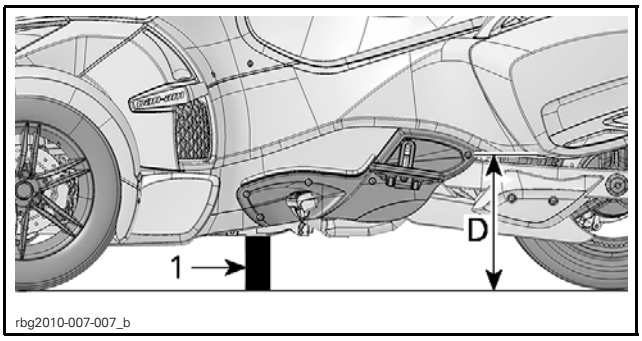
19. Install measurement tool C in place of measurement tool A.

NOTE: Remove lifting tool (jack, straps, etc) used to insert the measurement tool C

20. Check measurement D from center of rear screw to floor as shown below.

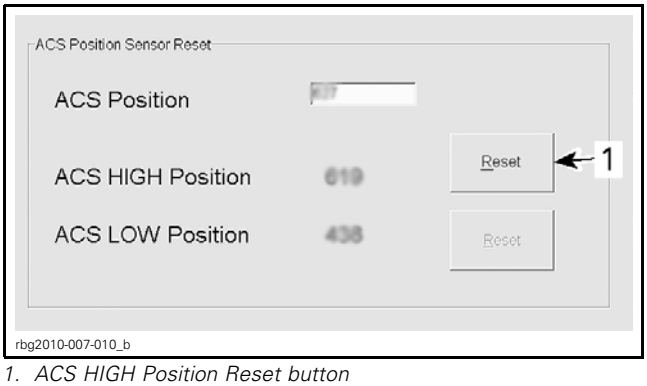
NOTE: You may need to manually lift or push down the rear of the vehicle to reach measurement D.

HIGH POSITION SENSOR RESET	
Measurement D	385 mm ± 3 mm (15-5/32 in ± 1/8 in)



ACS POSITION SENSOR RESET (HIGH POSITION)
1. Measurement tool C
D. 385 mm ± 3 mm (15.157 in ± .118 in)

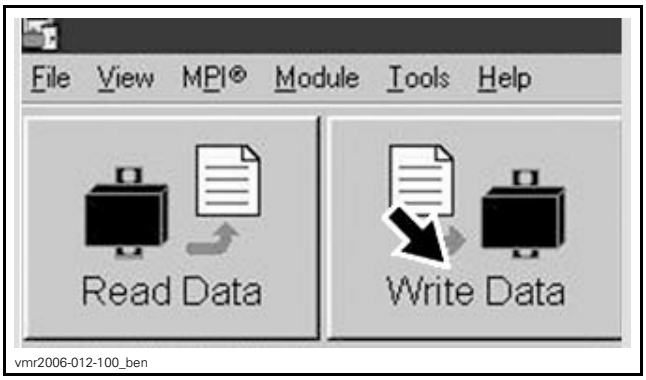
21. When measurement D is obtained, hold vehicle in this position and press the ACS HIGH Position Reset button.



1. ACS HIGH Position Reset button

NOTICE ALWAYS use measurements provided in this bulletin to reset the ACS position sensor. The ACS position values indicated in B.U.D.S. do not match with the provided measurement values AND are specific for each vehicle. These values must NEVER be used to adjust or confirm the position of the ACS position sensor during the ACS position sensor reset procedure. Futhermore, DO NOT tries to match these values on other vehicle.

22. Save new settings in the ECU by clicking the Write Data button.



23. Disconnect the MPI connections and store the communication connector in its protective cap.
24. Remove weight from vehicle.
25. Remove measurement tool C.
26. Lower vehicle on the ground.
27. Start engine.
28. Release parking brake.
29. Let it run at idle in 1st gear to check if ACS suspension works properly.

D – FAULT CODES: P0504 AND C0040

We take advantage of this bulletin to inform you about fault codes P0504 and C0040.

All of the following situations are required at the same time to activate these fault codes:

– The brake light switch must be ON for 60 seconds
– The vehicle speed must be over 10 km/h (6 MPH)
– And the hydraulic pressure at the master cylinder must be below 500 kPa (73 PSI).

In most cases, these fault codes are generated by the following:

– The rider drives the vehicle with his foot on the brake pedal. A small pressure is created, activating the brake light switch but not enough to apply hydraulic pressure to the cylinder.
– Brake pedal does not fully return at its initial position.

Verify these points with the customer and on the vehicle before replacing any components.

WARRANTY

Submit a warranty claim using the following information:

RT SERIES AND RT A&C SERIES	
Campaign Number	2010-0006
Claim Type	Campaign Claim
Action	Repair
Flat Rate Time	0.5 hours

RT-S SERIES	
Campaign Number	2010-0006
Claim Type	Campaign Claim
Action	Repair
Flat Rate Time	0.7 hours

Click in the *REPAIR BOX* while completing your claim on BOSSWeb.

NOTE: This flat rate includes time for inspection and repair even if you perform the inspection only.

REPAIR	✔

Claiming Procedure

For claiming procedure, refer to the *DEALER/DISTRIBUTOR WARRANTY GUIDE*.