▶ *NOTE: Repair only if described symptoms exist or are noticed.*

Campaign no.: 2011–0018
2012–0012

October 22th, 2012   Subject: **Spyder RT - Analog Fuel Gauge**   No. **2012-12**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2011	Spyder RT Audio & Convenience	All	All for listed models
	Spyder RT Techno		
	Spyder RT-S		
	Spyder RT LTD		
2012	Spyder RT Audio & Convenience		
	Spyder RT Techno		
	Spyder RT-S		
	Spyder RT LTD		

PROBLEM

Analog fuel gauge needle does not have any dampening causing a variable fuel level reading.

SOLUTION

Replace the analog fuel gauge with a new improved one (with stepper motor).

After fuel gauge installation, update the cluster software.

REQUIRED PARTS

Order the new fuel gauge with stepper motor through the regular channel.

FUEL GAUGE WITH STEPPER MOTOR				
MODEL YEAR	MODEL	DESCRIPTION	PART NUMBER	QTY
2011	S and LTD	White backlight/Stainless steel bezel	710 003 506	1
	Audio & Convenience and Techno	White backlight/Black bezel	710 003 507	1
2012	S and LTD	Amber backlight/Stainless steel bezel	710 002 975	1
	Audio & Convenience and Techno	Amber backlight/Black bezel	710 002 976	1

PROCEDURE

Fuel Gauge Replacement

1. Remove the 4 gauge trim retaining screws.

rmr2010-030-009_a

1. Gauge trim retaining screws

2. Steer handlebar completely to the right.

3. Lift the LH lower section of gauge trim.

4. Unplug the analog fuel gauge.

5. Install the new fuel gauge.
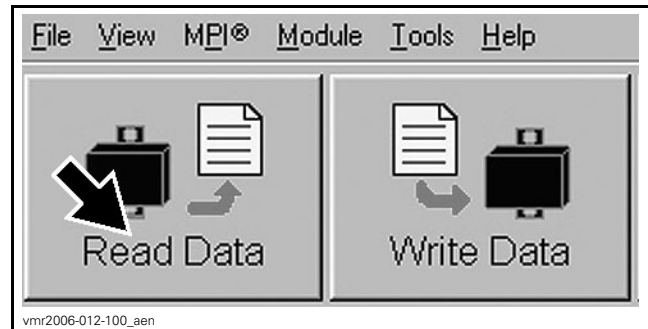
6. Reinstall all removed parts.

| TIGHTENING TORQUE	
Gauge trim screws	2.5 N•m (22 lbf•**in**)

Manual Cluster Update

1. Connect B.U.D.S. (**R3.4.2**. or a newer version) to vehicle.

NOTE: It is very important to use this version to have all required updates.

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

vmr2006-012-100_aen

3. Click on **Module** then select **Cluster/ Update**

NOTE: If an update is available, the following windows will appear. If the update is not needed (update grayed out), proceed with Cluster Software Validation.

rbg2012-012-007_a

rbg2012-012-005

rbg2012-012-008
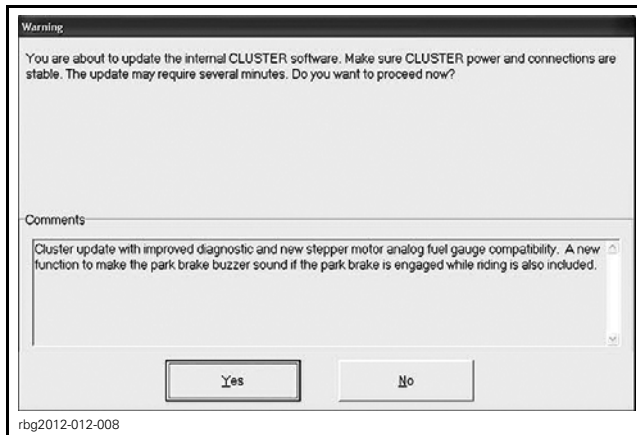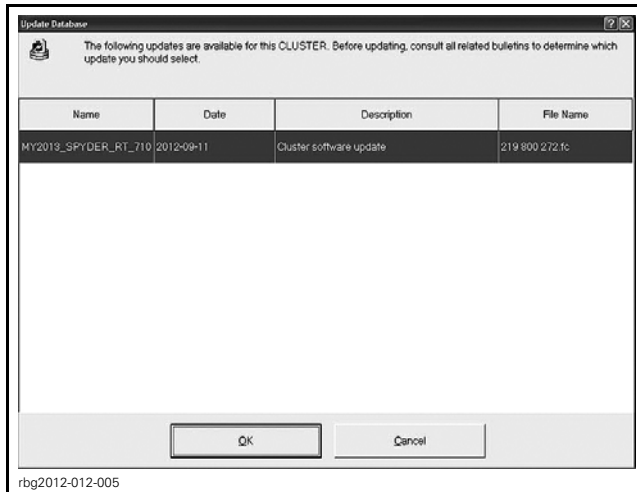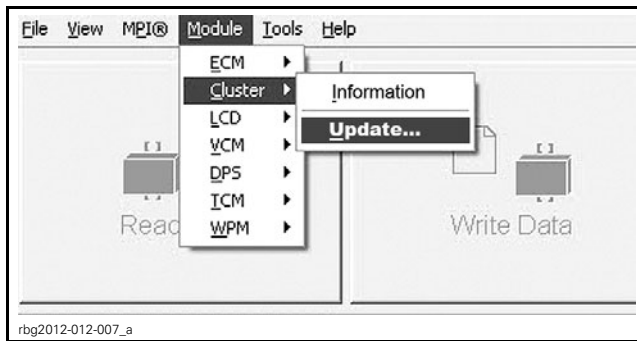
4. Choose "YES".

NOTE: You are about to start reflashing and it takes about 2 minutes. Make sure you have stable voltage (12V) before starting update. Although screen ''freezes'' for a while, you must remain on the B.U.D.S.. The update still continue. It is important to never disconnect any cable while updating the cluster.

5. Click "OK" after the message: UPDATE HAS BEEN SUCCESSFULLY TRANSFERRED INTO CLUSTER.

6. Turn ignition key to OFF and remove it as per the following message.

rbg2012-012-009

7. Check the BRP Software Number as described in *CLUSTER SOFTWARE VERSION VALIDATION*

Cluster Software Version Validation

### Symptom if the Cluster Does not Use the Proper Software Version

If the new fuel gauge with stepper motor is installed with an old version of the cluster software, the following situations may be observed:

– Fuel level is displayed in the digital display.
– Wrong fuel level appears on the analog gauge.
– Even if the fuel tank is full, the digital display may show 3 bars and the analog fuel gauge half.
– The "low fuel" signal turns on when the analog fuel tank will show half.
– The temperature gauge needle indicates the maximum (overheat) even if the engine is cold.

Using B.U.D.S. **R3.4.2**. or a newer version, check the Cluster Software Version.

Cluster Software Validation

1. Turn ignition key to ON position.

2. Click on **Read Data**.

3. Select **Module** drop down list, **Cluster** then **Information**
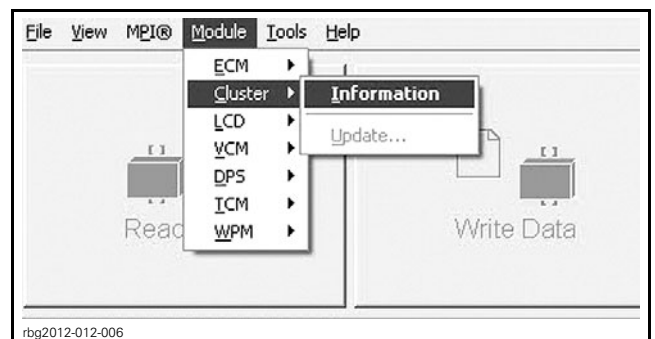
rbg2012-012-006

4. Look at the **"BRP Software Number"**.

rbg2012-012-002_a

INFORMATION ITEM	VALUE
BRP Software Number	710003447

If the BRP Software Number corresponds, turn ignition key OFF then unplug B.U.D.S. from vehicle.

NOTICE To avoid potential vehicle damage, it is very important to turn ignition key off BEFORE exiting B.U.D.S. or unplugging the MPI-2 diagnostic cable from the vehicle.

If the BRP Software Number is different, perform a manual Cluster Update.

WARRANTY

Submit a campaign claim using the following information. This will credit labor for the software update and parts installation.

Please keep parts at dealer's facility for 90 days.

2011 Models

Campaign Number	2011-0018
Claim Type	Campaign Claim
Action	Repair
Flat Rate Time	0.3 hour

Click in the **Repair** check box.

mbg2012-010-004_ben

2012 Models

Campaign Number	2012-0012
Claim Type	Campaign Claim
Action	Repair
Flat Rate Time	0.3 hour

Click in the **Repair** check box.

mbg2012-010-004_ben