



## VRSC Fuel Level Sensor Assembly and Calibration Update

### Purpose

The purpose for this bulletin is to inform dealers the fuel level sensor part number 75210-07B is obsolete and part number 75210-09 will retrofit 2007 and 2008 models (except VRSCR) with the required fuel gauge recalibration utilizing Digital Technician.

#### NOTE

*This was done to eliminate a part number only. There is no need to replace the fuel level sensor unless an issue is verified.*

### Models Involved

Fuel level sensor 75210-09 will fit 2009 and later VRSC models without need for calibration update.

If replacing a fuel level sensor on 2007 or 2008 VRSC models, 75210-09 will retrofit, but will require a fuel gauge calibration using Digital Technician.

### Required Dealer Action

#### WARNING

When servicing the fuel system, do not smoke or allow open flame or sparks in the vicinity. Gasoline is extremely flammable and highly explosive, which could result in death or serious injury. (00330a)

#### WARNING

Gasoline can drain from the fuel line when disconnected from fuel tank. Gasoline is extremely flammable and highly explosive, which could result in death or serious injury. Wipe up spilled fuel immediately and dispose of rags in a suitable container (00260a).

#### WARNING

To prevent spray of fuel, be sure quick-connect fittings are properly mated. Gasoline is extremely flammable and highly explosive, which could result in death or serious injury. (00268a)

When fuel level sensor replacement is required on 2007 and 2008 VRSC models, the fuel gauge must be calibrated using the update available in Digital Technician, located in the "Vehicle Set-up" in the "Toolbox" icon.

#### NOTES

- Some variance can be experienced with fuel level sensor readings dependent on temperature of fuel, temperature of fuel tank, etc.
- If replacing a 75210-07, 75210-07A or 75210-07B fuel level sensor, with a 75210-09 fuel level sensor, the fuel gauge MUST be recalibrated using Digital Technician to ensure proper fuel gauge operation. If fuel level sensor 75210-09 is installed on a 2007 or 2008 VRSCA/D model without fuel gauge recalibration, it will cause inaccurate readings and the actual fuel level will be approximately 1/8 tank less than what is displayed on fuel gauge.
- Starting in 2009 model year, the motorcycle MUST be moving and receiving vehicle speed input in order for the instrument module to properly update the fuel gauge. This is to prevent an inaccurate reading while the motorcycle is on the side stand. After fuel refill on these models, it is normal for the low fuel light to remain on and the fuel gauge to indicate a lower than actual fuel level until the motorcycle is moving.
- Because the ultrasonic fuel level sensor accuracy diminishes slightly as the fuel temperature increases, temperature compensation is applied and the fuel gauge may display less than the actual fuel level to prevent fuel runouts at high fuel temperature. At higher motorcycle/fuel temperatures, when the fuel level indicates empty, it is normal that less fuel is required to fill the fuel tank than at cooler temperatures. It is also normal to see a slight increase in fuel level indication after the motorcycle has cooled.
- DO NOT attempt to install an older version of the fuel level sensor assembly into 2009 model year motorcycles. 2009 models MUST use 75210-09.

### Replacement Procedure

Remove and replace fuel level sensor per procedure in service manual.

#### IMPORTANT NOTE

*In the interest of preserving customer safety and satisfaction, always check for outstanding recalls whenever any motorcycle is brought into your dealership for either maintenance or service.*

ROUTING	SERVICE MANAGER	SALES MANAGER	PARTS MANAGER	WARRANTY PROCESS MANAGER	LEAD TECHNICIAN	TECHNICIAN NO.1	TECHNICIAN NO. 2	TECHNICIAN NO. 3	RETURN THIS TO
INITIAL HERE									

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## Recalibration Procedure

1. Turn ignition to ON and connect Digital Technician to motorcycle.
2. Go to VEHICLE INFORMATION on Digital Technician menu.
3. Enter all required motorcycle information into Digital Technician.
4. Go to TOOLBOX on Digital Technician menu.
5. Go to VEHICLE SET-UP on Digital Technician menu.
6. Press REFLASH IM.
7. Fill fuel tank with fuel.
8. Start motorcycle and check for leaks.
9. Allow motorcycle to reach operating temperature.
10. Ride motorcycle between 1.0-2.0 mi. (1.6-3.2 km) to introduce fuel vapor to newly recalibrated fuel level sensor.

### NOTE

*After fuel level sensor replacement, fill fuel tank and ride motorcycle between 1.0-2.0 mi. (1.6-3.2 km) to allow fuel vapor to fully saturate the fuel tank. Then, verify fuel level sending unit operation. DO NOT check with motorcycle on side stand.*