

# FUEL TANK SERVICE KIT

P/N 2204144 (Application: 2006-2008 Vegas® / Vegas Jackpot® Models)

P/N 2204148 (Application: 2006-2008 Hammer® / Kingpin® Models)



This kit contains a 2009-current style fuel tank / fuel pump assembly that offers improved performance over the original tank / pump assembly.

- The fuel pump has been pre-installed in the fuel tank, so the tank is ready for installation on the motorcycle.
- Fuel pump operating pressure is similar to the original pump, so re-calibration is *not* required.
- Tank badges must be ordered separately and replaced, or the old badges can be removed from existing tank (refer to appropriate **Service Manual** for procedure) and installed with new adhesive patch PN 8560068 (ordered separately).
- **Please note that all parts from this kit must be installed with the fuel tank as directed in the instructions.**
- Some original parts will be re-used, including the vent line and water drain lines, the fuel cap, and the fuel line hose clamp at the fuel rail (use the new fuel line provided in the kit with your existing clamp). Closely inspect these parts prior to installation of this kit and replace any that fail inspection.

Before you begin, read the instructions and make sure all parts and tools are accounted for. Please retain these installation instructions for future reference and parts ordering information.

Approximate Installation Time: 30 Minutes

This kit includes:

Qty.	Part Description	Part Number
1	Fuel Tank & Pump Assembly, Vegas (Spine)	2521063-xxx (color)
OR		
1	Fuel Tank & Pump Assembly, Kingpin / Hammer (No Spine)	2521064-xxx (color)
1	Fuel Line, Tank to Rail, 2003-2007	5413838
1	Fuel Line, Tank to Rail, 2008	5413413
6	Isolator	5414144
3	Bushing	5136665
1	Instructions	9922609

You will need to supply:

4, 5 and 8 mm Internal Hex Socket

Torque Wrench

Hand Tools

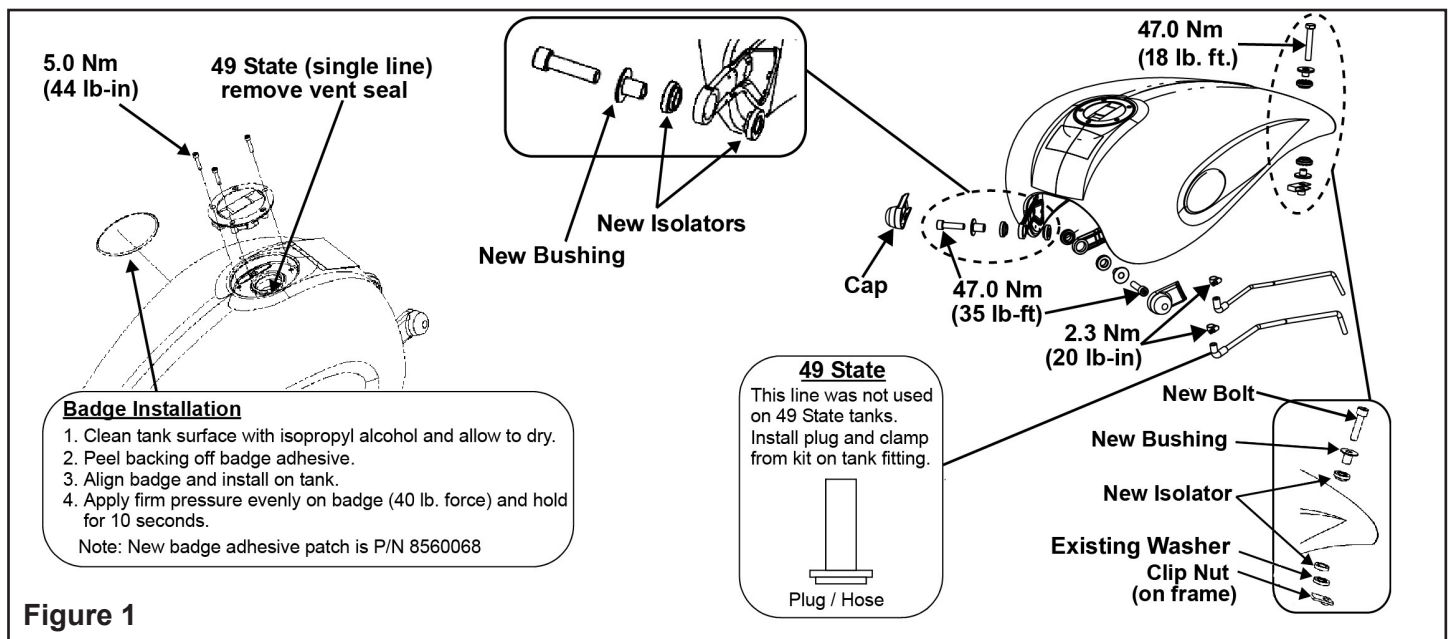


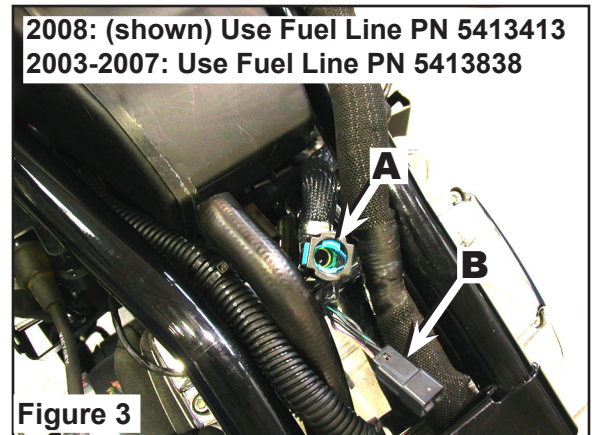
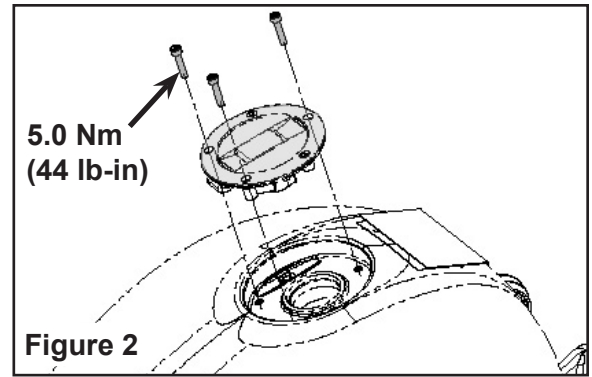
Figure 1

## INSTALLATION INSTRUCTIONS

1. Refer to the appropriate **Service Manual or Owner's Manual** to de-pressurize the fuel system and remove the side covers, seat, and fuel tank.

### Kit Fuel Tank Preparation / Installation

1. Remove three fuel cap retaining screws and cap. Figure 2.
2. Install fuel cap on tank from kit. Install screws and tighten evenly to 5 Nm (44 lb-in).
3. Loosen clamps and remove water drain and vent hose from old tank.
4. Inspect rubber elbow fittings and replace if cracked or damaged. Install hoses on new tank. Figure 3.
  - Install large diameter hose (water drain) on front most fitting on tank.
  - Install smaller diameter hose (vent) to rear most fitting on tank.
  - Tighten clamps to 2.3 Nm (20 lb-in).
5. Install new front tank mount bushings and new isolators supplied with kit to new tank. Figure 1.
6. Install the new rear tank mount bushing and isolators supplied with kit. Figure 1.
7. Route new fuel line **(A)** from kit between frame rails and inside of main wire harness to the fuel rail, but do not connect line to the rail. Figure 3.
8. Route pump wire harness connector **(B)** to rear of fuel line. Figure 3.
9. With front wheel pointed straight ahead, place tank on frame, carefully guiding front of tank to front frame mounts. Loosely install front tank mount bolts.
10. Lift rear of tank enough to connect fuel pump wire harness and to connect fuel line to pump. Press straight upward on quick-connect fitting until you hear it click securely in place on the pump fitting.
11. Lower the tank, making sure the fuel line and pump connection have clearance to any obstructions that could stress the fitting.
12. Torque all mounting bolts to 47 Nm (35 lb-ft).



13. **2003-2007:** Place hose clamp (removed from old fuel line) onto new fuel line and push fuel line fully onto rail fitting. Position hose clamp 3-4 mm (1/8 - 5/32") from end of line and tighten to 2.5 Nm (25 lb-in).  
**2008:** Press straight inward on quick-connect fitting until you hear it click securely in place on the rail fitting.
14. Connect water drain hose and vent hose to "Y" fitting at rear left side of tank. Figure 4. **NOTE: On California models, be sure to connect the vent line to the line that leads to the evaporative emissions canister, and the water drain to the line that leads to the bottom of frame (atmosphere).**
15. Open throttle and release it to be sure it returns freely and completely to the idle position. If any interference is noted re-check routing of fuel line and fuel pump wiring harness.
16. Add at least two gallons of fuel to tank. Prime the fuel system (engine stop switch to RUN; turn ignition switch ON until pump stops running; turn key OFF; wait 10 seconds; repeat ON / OFF cycle at least 5 times).
17. Start the motorcycle and let it idle. **NOTE:** If equipped with a fast idle lever (2006-2007) move it to the OFF position. Turn handlebars from full right to full left. The idle speed should not change in any steering position. If idle speed increases when handlebars are turned refer to the appropriate **Service Manual** to hose and cable routing and throttle cable free play.