INSTRUCTIONS

-J02645 REV. 04-9-03

Kit Number 61338-95C and 63338-95D

VACUUM OPERATED FUEL SUPPLY VALVE KIT

General

This kit is designed for installation on 1994-2001 FL® (Touring), 1995-2001 Dyna®, 1995-2001 FXST® and 1999-2000 FXR2®, FXR3® and FXR4® models.

Kit Number 61338-95C

Qty	Description	Part Number
1	Fuel supply valve, vacuum operated	61338-02

Kit Number 63338-95D

Qty	Description	Part Number
1	Nut, fuel supply valve	62161-02
1	Gasket, fuel supply valve	62172-02
1	Filter, fuel supply valve (long screen) (FL and Dyna models)	62170-02
1	Filter, fuel supply valve (short screen) (Softail models)	62166-02

NOTE

To prevent the possibility of fuel leakage, the hose clamp MUST be discarded and replaced each time it is removed. A replacement hose clamp, (Part Number 10014) and HOSE CLAMP PLIERS (Part Number HD-97087-65B) are available separately from your Harley-Davidson Dealer.

⚠WARNING

A Service Manual is required to install this kit. The rider's safety depends upon the correct installation of this kit. If the procedure is not within your capabilities or you do not have the correct tools, have your Harley-Davidson dealer perform the installation. Improper installation of this kit could result in death or serious injury.

NOTE

A Service Manual for your model motorcycle is available from your Harley-Davidson dealer.

Installation

Remove the Old Fuel Supply Valve

⚠WARNING

To prevent accidental vehicle start-up, which could cause death or serious injury, disconnect negative battery cable before proceeding. (00047a)

1. Refer to the Service Manual and follow the instructions given to remove the seat and disconnect the negative battery cable.

⚠WARNING

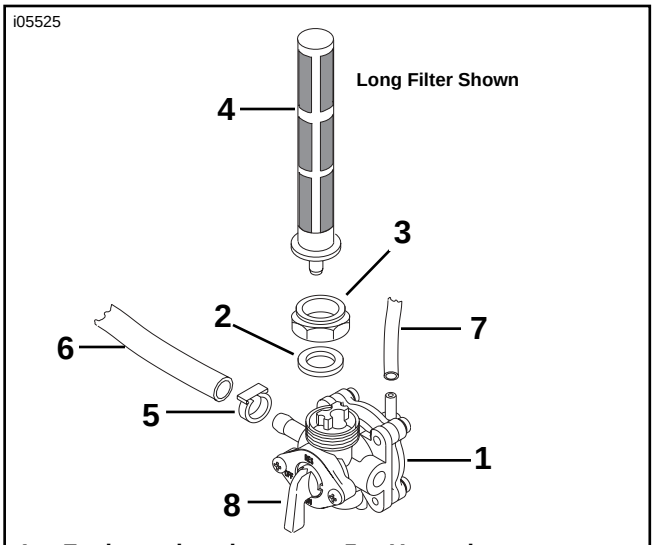
Do not smoke or allow open flame or sparks near gasoline. Gasoline is extremely flammable and highly explosive, which could result in death or serious injury.

2. See Figure 1. Turn the fuel supply valve petcock (8) to the “OFF” position.
3. Remove the fuel hose (6) from the fuel outlet nipple on the fuel supply valve. Discard the hose clamp (5).
4. Remove the vacuum hose (7) from the nipple on the fuel supply valve.
5. Attach a length of fuel hose onto the fuel outlet nipple and route the hose into a clean, approved gasoline container.
6. Turn the fuel supply valve petcock (8) to the “RES” position.
7. Using the appropriate hose adapter, connect a PLASTIC MITY-VAC® HAND PUMP (Part Number HD-23738-A) to the vacuum nipple on the fuel supply valve.
8. Gently apply a vacuum of 1 to 10 inches of Mercury (Hg), or just enough to get a good flow of gasoline draining into the container.

⚠WARNING

Gasoline is extremely flammable and highly explosive. Even with the fuel tank completely drained, a small amount of gasoline may leak from the bore when the fuel supply valve is loosened or removed. Thoroughly wipe up any spilled fuel immediately, and dispose of rags in a suitable manner. Inadequate safety precautions could result in death or serious injury.

9. After the tank has completely drained, turn the fitting (3) that attaches the supply valve to the fuel tank counterclockwise to remove the fuel supply valve (1), gasket (2) and filter (4). Discard these items.



1.	**Fuel supply valve**	**5.**	**Hose clamp**
2.	**Gasket, fuel valve**	**6.**	**Fuel hose**
3.	**Nut, fuel valve**	**7.**	**Vacuum hose**
4.	**Filter, fuel valve**	**8.**	**Fuel valve petcock**

Figure 1. Fuel Supply Valve (Old)

Install the New Fuel Supply Valve

1. See Figure 3. Coat the threads on the new fuel supply valve (1) with LOCTITE PIPE SEALANT WITH TEFLON or equivalent.

2. Place the new gasket (2) from the kit onto the valve mounting surface, and install the new fuel filter (4) onto the fuel supply valve. **NOTE**: For FL and Dyna Models, use Fuel Filter, long screen (Part Number 62170-02). For Softail models, use Fuel Filter short screen (Part Number 62166-02). Both are provided in this kit.

⚠WARNING

Do not thread the valve into the nut more than two turns to avoid "bottoming" the nut on the valve. This could cause a gasoline leak, creating a fire hazard, which could result in death or serious injury.

3. See Figures 2 and 3. Attach the fuel supply valve (1) to the fuel tank using this sequence.

   a. Thread the new fuel supply valve nut (3) from the kit onto the right-hand threads of the fuel tank adapter for two turns.

   b. Hold the fuel supply valve nut, and thread the new fuel supply valve into the left-hand threads of the nut for two turns.

   c. Hold the fuel supply valve and tighten the fuel valve nut clockwise to 15-20 ft-lbs (20.3-27.1 Nm).

4. Using a **new** hose clamp (5) and HOSE CLAMP PLIERS (Part Number HD-97087-65B), connect the fuel hose (6) to the the fuel outlet nipple on the fuel supply valve.

CAUTION

Do not allow dirt or fluids to get into the vacuum hose assembly that connects the fuel supply valve to the carburetor. Contaminants could block the vacuum signalor inhibit free motion of moving parts, which could cause the fuel supply valve to remain open.

NOTE

If the vacuum line is connected to the atmosphere vent nipple (at the bottom of the valve) the valve will not open.

5. Connect the vacuum hose (7) to the vacuum nipple on the upper portion of fuel supply valve.

6. Fill the fuel tank with gasoline, and check to ensure that there are no fuel leaks or seepage.

7. Connect the negative battery cable.

⚠WARNING

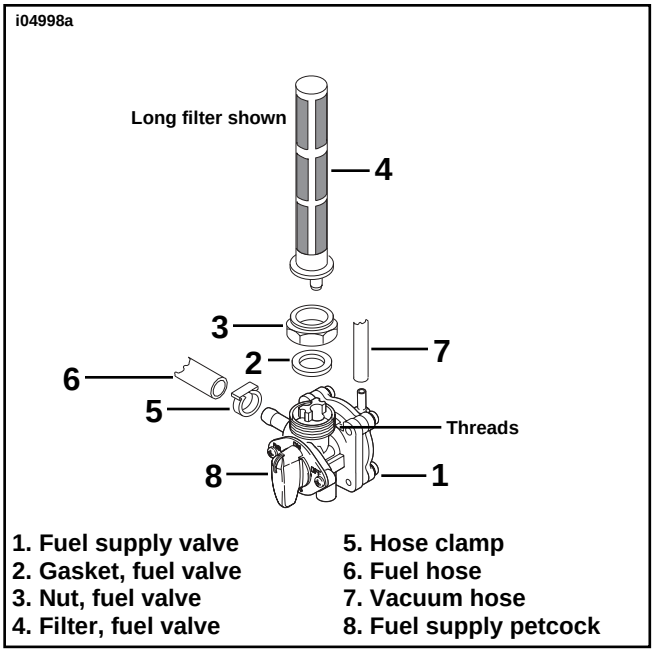
After installing seat, pull upward on front of seat to be sure it is in locked position. While riding, a loose seat can shift causing loss of control, which could result in death or serious injury. (00070a)

8. Refer to the Service Manual, and follow instructions to install the seat.

NOTE

No special procedures are required to start fuel flow.

9. Turn the fuel supply valve petcock (8) to the "ON" position and start the engine. Check for fuel leaks.



3. Fuel Supply Valve (New)

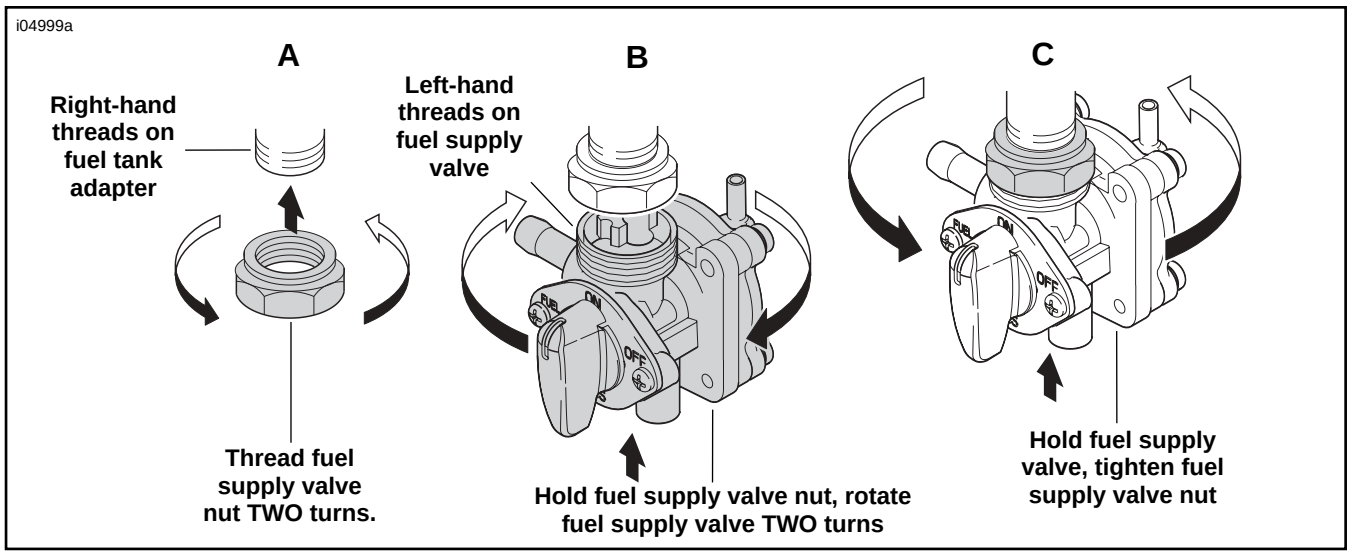


Figure 2. Attaching the New Fuel Supply Valve to the Tank