

FUEL TANK SELECTOR VALVE REMOVAL AND INSTALLATION

REQUIRED TOOLS:

- Assorted Hand Tools

PRIOR TO REMOVAL

Please read the following instructions before installation.

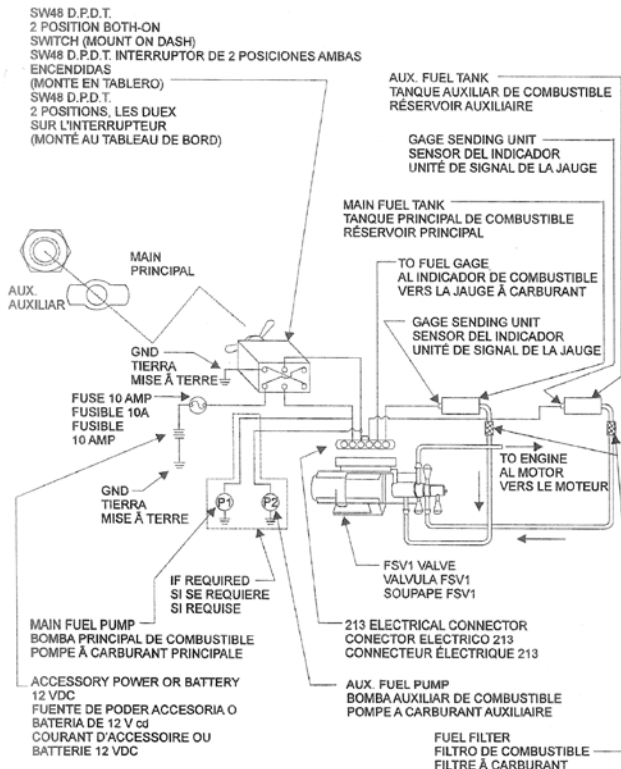
NOTE: In order to complete the replacement of this universal fuel switching valve, Double Pole, Double Throw Toggle Switch and Wells Pigtail #213 are required.

GENERAL INFORMATION:

The FSV1 Selector Valve is intended for vehicles that meet the following criteria:

- Vehicle has one main and one auxiliary fuel tank
- 12 volt DC electrical system
- Vehicles with in-tank fuel pumps or vehicles with a single fuel pump between the valve and engine
- Gasoline and diesel fuel systems only
- Not for use in fuel systems operating or having the potential to develop over 60 PSI
- Not for marine applications

INSTALLATION INSTRUCTIONS



(Figure 1)

The electrical and fuel systems should be connected to the valve as shown above (Figure 1).

1. Choose a protected location near the original fuel lines and using proper length 5/16-18 bolts, securely mount selector valve to the chassis or other solid mounting surface.
2. Orient it such that the side of the valve with the four ports points towards the fuel tanks. Route the auxiliary tank's source line to the valve.
3. Drain the fuel in the main tank and cut the original fuel lines. Be prepared to catch and safely store any fuel spilling from the cut line.
4. Using properly tightened "worm" style hose clamp and fuel-approved flexible fuel hose, connect the fuel lines to the proper ports on the selector valve. Install fuel filters in the source lines as shown. The fuel line routing should minimize the number of bends and have the largest possible radii to minimize the flow restrictions.
5. Choose a position on the dash and mount the toggle switch, available separately.
6. Cut the original wire from the fuel tank sending unit to the fuel gage and connect both ends to the 213 connector as shown, available separately.
7. Connect the new tank's sending unit to the connector.
8. 'Cross-wire' the toggle switch as shown connecting one pair of terminals to a good ground and the other pair of terminals to +12 volts through a 10 amp fuse.
9. Connect the middle terminals on the switch to the connector as shown.

NOTE: Connections must be secure and the splices to the 213 connector should be secure, electrically insulated and sealed to prevent corrosion of the splices.

10. Double check the system to be sure all the electrical and fuel connections have been installed.
11. Place a small quantity of fuel back into the fuel tanks to check the system for leaks. After it has been determined there are no fuel leaks, start the vehicle engine and switch the tanks to determine if the valve is functioning properly.
12. Check the gas gauge when transferring between tanks for proper fuel level indication.
13. After it has been determined everything has been installed properly, refill the fuel tanks.

VALVE OPERATION

- With +12 VDC to terminal E and ground to D, the fuel will flow from the main fuel tank thru the filter, thru the valve, to the engine.
- Reversing the polarity to terminals E and D will cause the fuel to flow from the auxiliary fuel tank thru the filter, thru the valve, to the engine.

NOTE: All wiring to be 18 GA. or heavier. All fuel supply lines to be 3/8 I.D.