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## Electric Fuel Tank Switch

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The Pollak 42-103 selector valve is intended for use with the following:

- Vehicles with one main and one aux. fuel tank.
- Vehicles without fuel return lines (vehicles with fuel return lines use 42-153 or 42-159 6-port selector valve).
- 12 volt systems
- Ambient temperatures between -40° and +180° F.
- The selector valve must be located between the pump and the fuel tanks. **NOT** for systems with in-tank fuel pumps or pumps located between the tanks and valve. **NOTE:** Fuel injection systems and diesel fuel systems commonly have in-tank pressure pumps. Use p/n 42-159 for these applications.
- Vacuum must not exceed 8 psi.
- **NOT** for marine applications.
- **DO NOT** allow the valve to remain dry (no fuel) for an extended period of time.

### INSTALLATION INSTRUCTIONS

Selector valve should be installed as shown in the following illustration.

Choose a protected area near the original fuel line and mount the selector valve to the frame rail (horizontal position preferred).

Bolt the valve mounting bracket to the chassis using an external tooth lock-washer to insure a good electrical grounding.

Route the aux. tank fuel line to the selector valve.

Cut the original fuel line.

Using fuel approved 5/16" flexible hose and hose clamps connect the fuel lines to the selector valve as shown in the following illustration.

Fuel line routing should have the largest radius bends possible for optimum fuel flow.

A fuel filter must be placed between each tank and the selector valve to prevent foreign matter from entering the selector valve to insure long life and to prevent possible failure.

After installation, check for hardware and hose clamp tightness and leaks.

Choose a position on the dash to mount the p/n 34-575 toggle switch.

Cut the original wire from the sending unit to the fuel gauge and connect it to the selector switch as shown in the diagram.

Connect a new 18 ga. wire from the switch to the aux. tank sending unit. and another new wire to the selector valve.

The connection to the selector valve should be made by placing the properly stripped wire between the two washers and wrapping it twice in a clockwise direction around the terminal.

The nut should be securely tightened and a coating of grease applied to prevent corrosion.

Connect a new wire from the accessory power to the selector toggle switch through a 1 amp fuse.

Indicator plate 42-201 should be used for proper indication of tank selected.

It is normal for "constant duty" solenoids to run warm.

### Fuel flow

Valve de-energized: Flow is from the main tank through the valve to the fuel pump.

Valve energized: Flow is from the auxiliary tank through the valve to the fuel pump.

POLLAK 42-103 SELECTOR VALVE INSTALLATION SHEET IS - 32 REV. E  
18SEP95

