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ACDelco U7001

ACDelco U7001 Professional Fuel Tank Selector Valve Instruction Manual

Model: U7001

1. INTRODUCTION

The ACDelco U7001 Professional Fuel Tank Selector Valve is a premium aftermarket replacement component designed for vehicles equipped with dual fuel tanks. This valve manages the flow of fuel, allowing the vehicle's system to draw from and return fuel to the selected tank. Proper installation and maintenance are crucial for optimal performance and vehicle safety.

2. SAFETY INFORMATION

Working with fuel systems involves inherent risks. Always observe the following safety precautions:

- Ensure the vehicle's battery is disconnected before beginning any work on the fuel system.
- Work in a well-ventilated area to avoid inhaling fuel vapors.
- Keep open flames, sparks, and other ignition sources away from the work area.
- Wear appropriate personal protective equipment, including safety glasses and fuel-resistant gloves.
- Have a fire extinguisher readily available.
- Properly dispose of any drained fuel or contaminated materials according to local regulations.
- If you are unsure about any step, consult a qualified automotive technician.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon opening the package:

- 1 x ACDelco U7001 Professional Fuel Tank Selector Valve

Note: Additional hardware or seals may be required for installation and are typically sold separately or reused from the original assembly.

4. SPECIFICATIONS

Feature	Detail
Brand	ACDelco
Model Number	U7001
Material	Metal
Item Weight	10.5 ounces
Product Dimensions (L x W x H)	6.8 x 3.3 x 3.4 inches
Inlet Connection Type	Flare
Outlet Connection Type	Flare
Manufacturer Part Number	12336291
OEM Part Number	12336291
GTIN / UPC	036666252736

5. INSTALLATION

Installation of the fuel tank selector valve requires mechanical aptitude and familiarity with vehicle fuel systems. It is recommended that this procedure be performed by a certified automotive technician. Always refer to your vehicle's specific service manual for detailed instructions and torque specifications.

5.1 General Installation Steps (Consult Vehicle Manual for Specifics)

- 1. Prepare the Vehicle:** Park the vehicle on a level surface, engage the parking brake, and disconnect the negative battery terminal. Allow the engine to cool.
- 2. Relieve Fuel System Pressure:** Follow your vehicle's service manual to safely relieve pressure from the fuel system.
- 3. Locate the Existing Valve:** The fuel tank selector valve is typically located on the vehicle frame, often near the fuel tanks.
- 4. Disconnect Electrical Connector:** Carefully disconnect the electrical wiring harness from the old valve.
- 5. Disconnect Fuel Lines:** Using appropriate tools, disconnect all fuel lines (supply, return, and vent lines) from the old valve. Be prepared for residual fuel leakage and use suitable containers to catch it. Note the position of each line for correct reinstallation.
- 6. Remove Old Valve:** Unbolt and remove the old fuel tank selector valve from its mounting bracket.
- 7. Install New Valve:** Position the new ACDelco U7001 valve and secure it with the mounting bolts. Ensure it is oriented correctly.
- 8. Connect Fuel Lines:** Reconnect all fuel lines to the new valve, ensuring they are securely fastened and in their original positions. Use new clamps or seals if recommended by the vehicle manufacturer.
- 9. Connect Electrical Connector:** Reconnect the electrical wiring harness to the new valve.
- 10. Inspect for Leaks:** Reconnect the battery. Turn the ignition to the ON position (without starting the engine) to allow the fuel pump to prime the system. Carefully inspect all connections for any signs of fuel leaks.
- 11. Test Operation:** Start the engine and test the fuel tank selection functionality. Monitor fuel pressure and check for any diagnostic trouble codes.

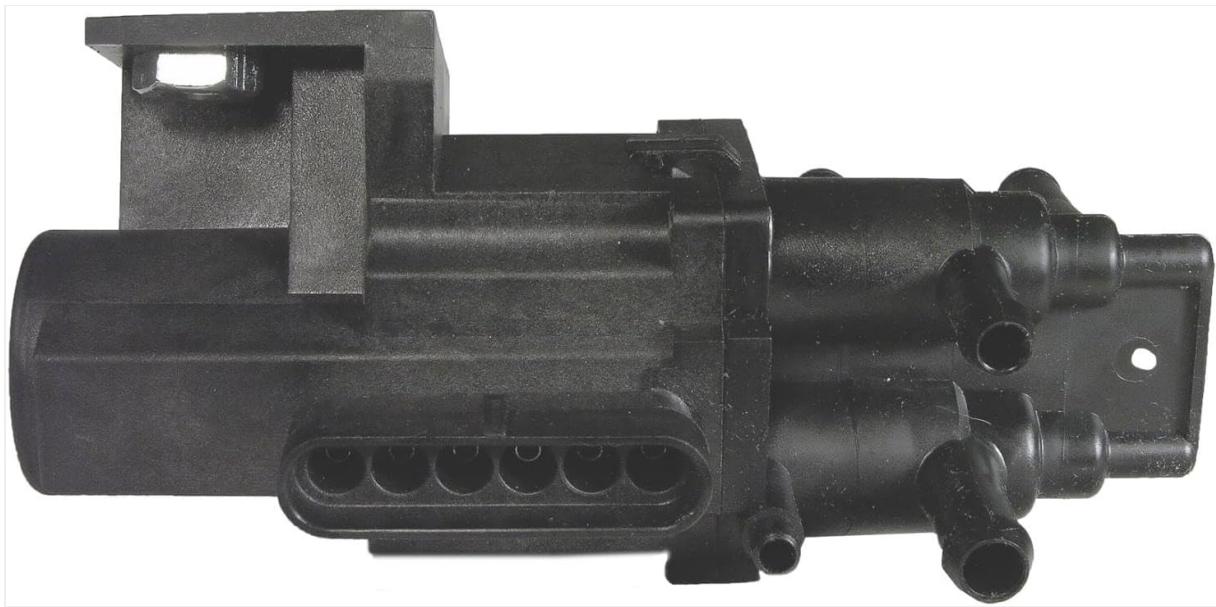


Figure 1: Side view of the ACDelco U7001 Fuel Tank Selector Valve, showing the main body and electrical connector. This image highlights the overall shape and the multi-pin electrical connection point.

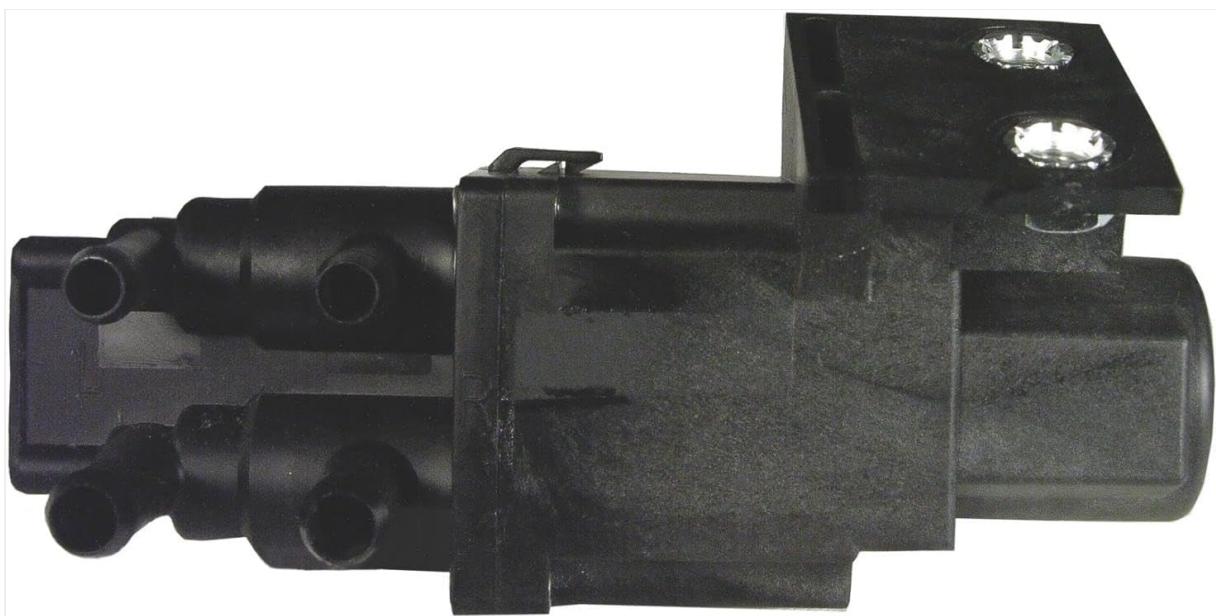


Figure 2: Top-down view of the ACDelco U7001 Fuel Tank Selector Valve, illustrating the mounting points and hose connections. This perspective helps identify the various ports for fuel lines.

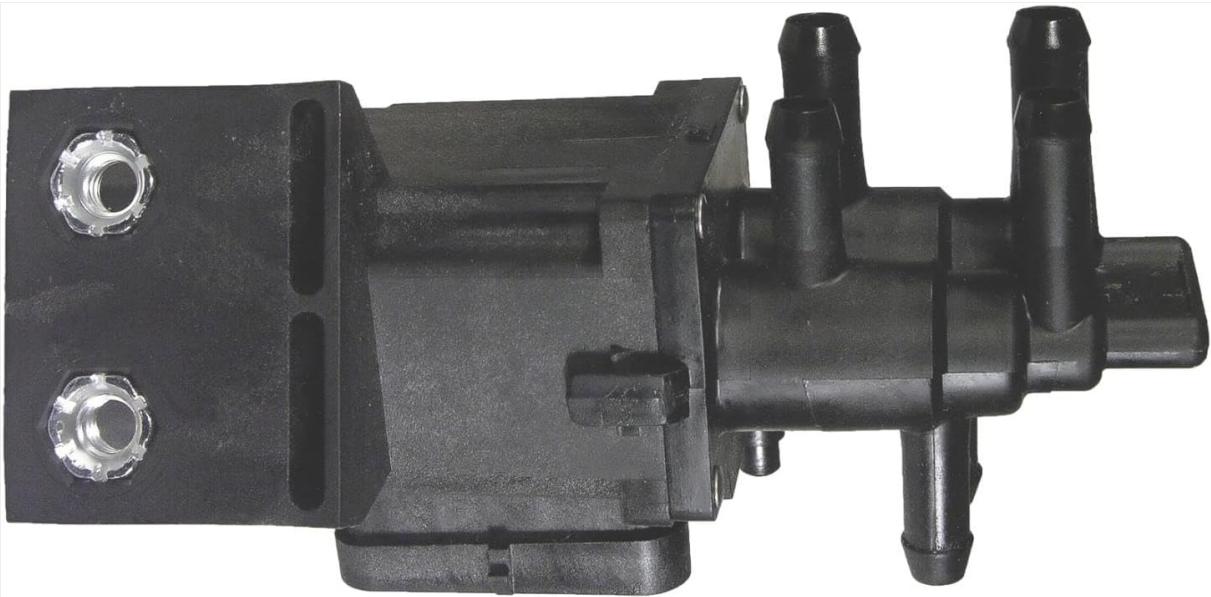


Figure 3: Angled view of the ACDelco U7001 Fuel Tank Selector Valve, providing a clearer look at the multiple inlet and outlet ports. This image is useful for understanding the routing of fuel lines.

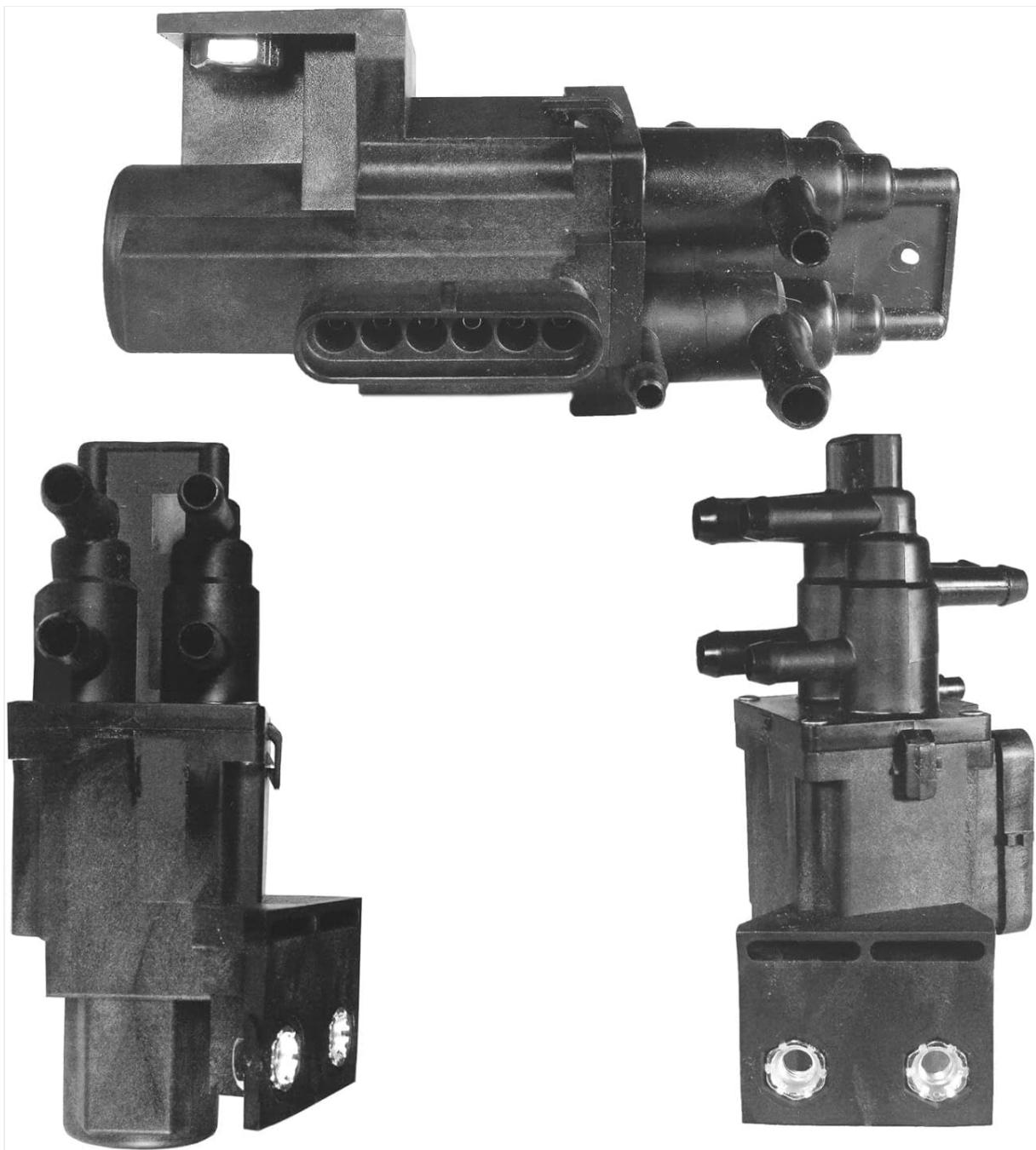


Figure 4: Composite image displaying the ACDelco U7001 Fuel Tank Selector Valve from several different angles. This provides a comprehensive visual reference for all sides of the component.

6. OPERATION

The ACDelco U7001 Fuel Tank Selector Valve operates in conjunction with your vehicle's fuel tank selector switch (typically located in the cabin). When the driver selects a fuel tank, the switch sends an electrical signal to the selector valve. The valve then mechanically redirects the fuel flow:

- It opens the fuel supply line from the selected tank to the engine.
- It closes the fuel supply line from the unselected tank.
- It opens the fuel return line from the engine to the selected tank.
- It closes the fuel return line to the unselected tank.

This ensures that fuel is consistently drawn from and returned to the active fuel tank, and that the fuel level gauge accurately reflects the contents of the selected tank.

7. MAINTENANCE

The ACDelco U7001 Fuel Tank Selector Valve is designed for long-term reliability and typically requires no routine maintenance. However, periodic inspection of the surrounding fuel lines and electrical connections is recommended:

- **Visual Inspection:** Regularly check fuel lines connected to the valve for cracks, leaks, or signs of wear. Ensure all clamps are secure.
- **Electrical Connections:** Verify that the electrical connector is clean, free of corrosion, and securely seated.
- **System Performance:** Pay attention to any changes in fuel delivery, fuel gauge accuracy, or difficulty switching between tanks.

If any issues are observed, consult a qualified technician for diagnosis and repair.

8. TROUBLESHOOTING

This section outlines common issues related to fuel tank selector valves and potential diagnostic steps. Always prioritize safety and consult a professional if you are unsure.

Problem	Possible Cause	Solution
Difficulty switching tanks or no switch functionality	Faulty selector valve Faulty selector switch in cabin Wiring issue to the valve	Inspect electrical connections. Test selector switch for proper operation. If switch and wiring are good, valve replacement may be necessary.
Incorrect fuel level readings	Faulty selector valve (internal issue) Faulty fuel sending unit in tank Wiring issue to fuel gauge	Verify valve is correctly switching fuel level signals. Diagnose fuel sending units. Check wiring continuity.
Fuel leaks around the valve	Loose or damaged fuel lines/clamps Damaged valve housing or seals Improper installation	Tighten or replace fuel lines and clamps. Inspect valve for physical damage. Re-evaluate installation steps.
Engine stalls or runs poorly after switching tanks	Valve not fully switching fuel flow Air in fuel lines Contaminated fuel in one tank	Verify valve operation. Bleed air from fuel system if applicable. Check fuel quality in both tanks.

9. WARRANTY AND SUPPORT

ACDelco Professional parts are backed by a limited warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official ACDelco website. For technical support, product inquiries, or warranty claims, please contact ACDelco customer service through their official channels. You can find more information and contact details on the [ACDelco Brand Store on Amazon](#) or the official ACDelco website.

10. DISCLAIMER

This instruction manual provides general guidance. ACDelco is not responsible for any damage or injury resulting from improper installation, misuse, or unauthorized modification of this product. Always follow vehicle manufacturer's recommendations and safety procedures.