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> [ACDelco M100059 GM Original Equipment Fuel Pump Module Assembly Instruction Manual](#)

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ACDelco M100059 GM Original Equipment Fuel Pump Module Assembly Instruction Manual

Model: M100059

1. PRODUCT OVERVIEW

The ACDelco M100059 GM Original Equipment Fuel Pump Module Assembly is engineered as a direct replacement for your vehicle's original component. This module integrates an electric fuel pump and a jet pump to ensure consistent fuel delivery from the tank to the engine. It is manufactured to GM's original equipment specifications, providing reliable performance and durability.

Key Features:

- Designed with guide rods to maintain proper alignment and reduce pinching.
- Includes a reservoir and jet pump to prevent fuel pump starvation, especially when fuel levels are low.
- Most strainers are positioned inside the module to minimize the risk of puncture.
- Constructed with acetyl plastic for enhanced tolerance to high-alcohol fuels.
- Electrical connections are designed to mitigate high resistance caused by vehicle vibration.





Image 1.1: ACDelco M100059 Fuel Pump Module Assembly. This image displays the ACDelco M100059 fuel pump module assembly, showing the main pump body, electrical connectors, fuel lines, and a separate green O-ring gasket for sealing the unit to the fuel tank.

2. SAFETY INFORMATION

Always prioritize safety when working with automotive components, especially fuel systems. Failure to follow safety precautions can result in serious injury or damage to the vehicle.

- **Professional Installation Recommended:** Installation of this fuel pump module requires specialized tools

and knowledge of automotive fuel systems. It is highly recommended that installation be performed by a qualified automotive technician.

- **Flammable Materials:** Fuel is highly flammable. Ensure adequate ventilation and keep all ignition sources (sparks, open flames, hot surfaces) away from the work area. Do not smoke.
- **Electrical Hazards:** Disconnect the vehicle's battery before beginning any work on the fuel system to prevent electrical shorts and accidental fuel pump activation.
- **Fuel Pressure:** The fuel system operates under pressure. Relieve fuel system pressure according to the vehicle manufacturer's service manual before disconnecting any fuel lines.
- **Eye Protection:** Always wear appropriate eye protection to shield against fuel splashes or debris.
- **Proper Disposal:** Dispose of old fuel and components according to local environmental regulations.

3. PACKAGE CONTENTS

Verify that all items are present and undamaged upon opening the package.

- 1 x ACDelco M100059 Fuel Pump Module Assembly
- 1 x Fuel Tank Sealing Gasket (O-ring)

4. INSTALLATION / SETUP

The following steps provide a general overview. Always refer to your specific vehicle's service manual for detailed, model-specific instructions and torque specifications.

1. **Prepare Vehicle:** Park the vehicle on a level surface, engage the parking brake, and disconnect the negative terminal of the battery.
2. **Relieve Fuel Pressure:** Follow the vehicle manufacturer's procedure to safely relieve fuel system pressure.
3. **Access Fuel Tank:** Depending on the vehicle, access to the fuel pump module may require lowering the fuel tank or accessing it from under the rear seat/cargo area.
4. **Drain Fuel (if necessary):** If required by the vehicle's service procedure, safely drain fuel from the tank.
5. **Disconnect Components:** Disconnect electrical connectors and fuel lines from the existing fuel pump module. Be prepared for residual fuel leakage.
6. **Remove Old Module:** Carefully remove the retaining ring or fasteners securing the old fuel pump module. Extract the module from the fuel tank.
7. **Install New Module:** Clean the fuel tank opening. Install the new fuel tank sealing gasket (O-ring) onto the new ACDelco M100059 module. Carefully insert the new module into the fuel tank, ensuring it is properly seated and aligned.
8. **Secure Module:** Install the retaining ring or fasteners, tightening to the vehicle manufacturer's specified torque.
9. **Reconnect Components:** Reconnect fuel lines and electrical connectors. Ensure all connections are secure.
10. **Final Checks:** Reconnect the battery. Turn the ignition to the ON position (without starting the engine) for a few seconds to allow the fuel pump to prime the system. Check for any fuel leaks. Start the engine and re-check for leaks.

5. OPERATION

The ACDelco M100059 Fuel Pump Module is an integral part of your vehicle's fuel delivery system. Upon ignition, the electric fuel pump within the module activates, drawing fuel from the tank and sending it under pressure to the engine's fuel rail. The integrated jet pump assists in maintaining a consistent fuel level within the module's internal

reservoir, which is crucial for preventing fuel starvation during vehicle maneuvers or when the fuel tank level is low.

6. MAINTENANCE

The ACDelco M100059 Fuel Pump Module is designed for reliable, long-term operation and typically does not require routine maintenance. However, the overall health of your vehicle's fuel system can impact the longevity of the fuel pump. Consider the following:

- **Fuel Filter:** If your vehicle is equipped with an external fuel filter, ensure it is replaced at the intervals recommended by your vehicle manufacturer. A clogged fuel filter can put undue strain on the fuel pump.
- **Fuel Quality:** Using high-quality fuel can help prevent contaminants from entering the fuel system and potentially affecting the pump's performance.
- **Avoid Running on Low Fuel:** Consistently running the vehicle with very low fuel levels can expose the fuel pump to air and reduce its cooling, potentially shortening its lifespan.

7. TROUBLESHOOTING

If you suspect an issue with your fuel pump module, it is recommended to consult a qualified automotive technician for diagnosis and repair. Common symptoms of a failing fuel pump module may include:

- Engine misfires or hesitation
- Difficulty starting the engine
- Reduced engine power or acceleration
- Whining noise from the fuel tank area
- Check Engine Light illumination (with relevant diagnostic trouble codes)

Attempting to diagnose or repair complex fuel system issues without proper training and tools can be dangerous and may cause further damage.

8. SPECIFICATIONS

Attribute	Value
Model	M100059
Brand	ACDelco
Manufacturer	ACDelco
OEM Part Number	22957143
Product Dimensions (L x W x H)	36.58 x 20.57 x 18.03 cm
Item Weight	1.9 kg
Material	Plastic
Position	Inside (Fuel Tank)
Mounting Type	Tank Mount
Gas Type	Gasoline

9. WARRANTY AND SUPPORT

For detailed warranty information, terms, and conditions related to your ACDelco M100059 Fuel Pump Module Assembly, please refer to the official ACDelco website or the documentation provided with your purchase. For technical assistance or support, contact an authorized ACDelco dealer or customer service. Please retain your proof of purchase for any warranty claims.