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> Gates 19089 Premium Molded Heater Hose User Manual

Gates 19089

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Model: 19089

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Gates 19089 Premium Molded Heater Hose. Please read these instructions carefully before proceeding with any installation or service to ensure optimal performance and safety.



A black, molded heater hose with a curved shape, designed for automotive coolant, water, and air applications. The hose features a ribbed exterior texture.

SETUP AND INSTALLATION

The Gates 19089 Premium Molded Heater Hose is designed for specific automotive applications. Professional installation is recommended to ensure correct fitment and system integrity.

1. **Safety First:** Ensure the engine is cool and the vehicle is on a stable, level surface. Disconnect the battery's negative terminal.
2. **Drain Coolant:** Carefully drain the engine's cooling system according to your vehicle manufacturer's specifications.
3. **Remove Old Hose:** Loosen hose clamps and carefully remove the old heater hose. Be prepared for residual coolant.
4. **Inspect Connections:** Clean the connection points on the engine and heater core to ensure a proper seal with the new hose.
5. **Install New Hose:** Position the Gates 19089 hose, ensuring it matches the original routing and does not kink or rub against other components. Secure with new or properly functioning hose clamps.
6. **Refill System:** Refill the cooling system with the appropriate coolant mixture as specified by your vehicle manufacturer. Bleed any air from the system.
7. **Check for Leaks:** Start the engine and allow it to reach operating temperature. Carefully inspect all connections for leaks. Monitor coolant levels.

This hose is engineered to resist electrochemical degradation, a common cause of hose failure, providing reliable performance when installed correctly.

OPERATING CONDITIONS

The Gates 19089 Premium Molded Heater Hose is designed for use in coolant, water, and air applications within automotive systems. It is also approved for marine applications.

- **Temperature Range:** -40°F to 275°F (-40°C to 135°C).
- **Material Composition:** EPDM tube, synthetic fiber knit reinforcement, EPDM cover.
- **Standards:** Meets SAE 20R3 Type EC Class D-1 and D-2 specifications.

Ensure that the operating environment and fluid types are compatible with these specifications to maintain hose integrity and performance.

MAINTENANCE

Regular inspection and maintenance are crucial for the longevity and reliable performance of your heater hose.

- **Visual Inspection:** Periodically check the hose for signs of wear, cracks, bulges, hardening, or softening. Pay close attention to areas near clamps and bends.
- **Leak Detection:** Inspect for any signs of coolant leaks around the hose and its connections.
- **Clamp Condition:** Ensure hose clamps are secure and free from corrosion. Replace any damaged or corroded clamps.
- **Coolant Quality:** Maintain proper coolant levels and ensure the coolant is clean and free of contaminants. Old or contaminated coolant can accelerate hose degradation.
- **Replacement:** Replace the hose if any signs of damage or degradation are observed, or as part of routine vehicle maintenance schedules.

TROUBLESHOOTING

If you encounter issues with your heater hose, consider the following common problems and solutions:

- **Coolant Leaks:**

- **Cause:** Loose clamps, damaged hose, corroded connection points.
- **Solution:** Tighten or replace clamps, inspect hose for damage and replace if necessary, clean connection surfaces.

- **Hose Swelling or Softening:**

- **Cause:** Exposure to incompatible fluids, internal degradation, excessive heat.
- **Solution:** Replace the hose immediately. Verify correct coolant type and system temperature.

- **Hose Collapse:**

- **Cause:** Vacuum in the cooling system, internal reinforcement failure.
- **Solution:** Check for proper functioning of the radiator cap and cooling system components. Replace the hose if internal damage is suspected.

Always consult a qualified mechanic for complex issues or if you are unsure about diagnosis and repair.

SPECIFICATIONS

Brand	Gates
Model Number	19089
Material	EPDM, Synthetic Fiber
Color	Black
Item Weight	9.6 ounces
Temperature Range	-40°F to 275°F (-40°C to 135°C)
SAE Specifications	SAE 20R3 Type EC Class D-1 and D-2
Manufacturer Part Number	19089
OEM Part Number	4662182

WARRANTY AND SUPPORT

For specific warranty information regarding the Gates 19089 Premium Molded Heater Hose, please refer to the official Gates website or contact your authorized Gates dealer or retailer. Warranty terms typically cover manufacturing defects.

If you require technical assistance or have questions about this product, please contact Gates customer support directly. Contact information can usually be found on the official Gates website (www.gates.com).

