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## Gates 19223

# Gates 19223 Premium Molded Heater Hose Instruction Manual

## 1. PRODUCT OVERVIEW

The Gates 19223 Premium Molded Heater Hose is an OEM-style component designed for automotive heating and cooling systems. This hose is factory-molded to ensure a precise fit within modern engine compartments, accommodating smaller and tighter spaces. It is suitable for various applications including coolant, water, and air, and is also approved for marine use.



This image displays the Gates 19223 Premium Molded Heater Hose, a black, pre-formed hose designed for specific automotive applications. Its molded shape ensures a precise fit within engine compartments.

## 2. KEY FEATURES

- **OEM Specifications:** Manufactured to meet or exceed original equipment manufacturer specifications, ensuring compatibility and performance.
- **Electrochemical Degradation Resistance:** Engineered to resist electrochemical degradation, a primary cause of hose failure, extending product lifespan.
- **Material Composition:** Constructed with an EPDM (Ethylene Propylene Diene Monomer) tube, synthetic fiber knit reinforcement, and an EPDM cover for durability and flexibility.
- **SAE Compliance:** Meets SAE 20R3 Type EC Class D-1 and D-2 specifications, indicating adherence to industry standards for automotive coolant hoses.

- **Temperature Range:** Operates effectively within a temperature range of -40°F to 275°F (-40°C to 135°C).

### 3. INSTALLATION GUIDELINES

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Proper installation is crucial for the performance and longevity of the Gates 19223 Premium Molded Heater Hose. It is recommended that installation be performed by a qualified automotive technician using appropriate tools and safety procedures.

#### 3.1 Pre-Installation Checks

- Ensure the engine and cooling system are cool to prevent burns.
- Verify that the replacement hose matches the original hose in shape, length, and diameter.
- Inspect hose clamps for corrosion or damage; replace if necessary.

#### 3.2 Installation Steps (General)

1. Drain the cooling system fluid according to vehicle manufacturer specifications.
2. Loosen and remove the old hose clamps.
3. Carefully remove the old heater hose.
4. Clean the connection points on the engine and heater core to remove any residue.
5. Position the new Gates 19223 hose, ensuring it is not kinked or rubbing against other components.
6. Secure the hose with new or inspected clamps, tightening them to the manufacturer's recommended torque.
7. Refill the cooling system with the appropriate coolant and bleed any air from the system as per vehicle manufacturer guidelines.
8. Start the engine and check for leaks, allowing the engine to reach operating temperature.

### 4. OPERATION

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Once installed, the Gates 19223 Premium Molded Heater Hose functions as a critical component within your vehicle's heating and cooling system. It is designed to transport hot coolant between the engine and the heater core, facilitating cabin heating and contributing to engine temperature regulation. No specific user operation is required for the hose itself beyond its proper installation and integration into the vehicle's system.

### 5. MAINTENANCE

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Regular inspection of the Gates 19223 Premium Molded Heater Hose is recommended to ensure optimal performance and prevent potential issues.

#### 5.1 Inspection Schedule

- Inspect the hose during routine vehicle maintenance, such as oil changes or coolant flushes.
- Check for signs of wear, cracking, swelling, hardening, or softness.
- Look for any coolant leaks around the hose connections or along the hose body.

#### 5.2 Replacement

Replace the hose if any signs of damage or degradation are observed. Adhere to the vehicle manufacturer's recommended service intervals for hose replacement, even if no visible damage is present, as hoses can degrade internally over time.

## 6. TROUBLESHOOTING

If issues arise with your vehicle's heating or cooling system, the heater hose may be a contributing factor. Always consult a qualified technician for diagnosis and repair.

### 6.1 Common Issues and Potential Causes

- **Coolant Leaks:** May indicate loose clamps, a damaged hose, or a compromised connection point.
- **Poor Cabin Heating:** Could be due to a blockage in the heater hose, air in the cooling system, or a faulty heater core.
- **Overheating Engine:** While less common for a heater hose specifically, a severe leak can lead to low coolant levels and engine overheating.

### 6.2 Diagnostic Steps (General)

- Visually inspect the hose for any obvious damage or leaks.
- Check the tightness of hose clamps.
- Ensure the cooling system is properly filled and bled of air.

## 7. PRODUCT SPECIFICATIONS

Specification	Detail
Brand	Gates
Model Number	19223
Material	EPDM, Synthetic Fiber
Color	Black
Item Weight	0.5 Pounds (approx. 8 ounces)
UPC	072053631173
Temperature Range	-40°F to 275°F (-40°C to 135°C)
SAE Specifications	SAE 20R3 Type EC Class D-1 and D-2
OEM Part Number	15652878

## 8. WARRANTY AND SUPPORT

For specific warranty information regarding the Gates 19223 Premium Molded Heater Hose, please refer to the official Gates website or contact Gates customer support directly. Keep your purchase receipt as proof of purchase.

For technical assistance, product inquiries, or support, please visit the official Gates website or contact their customer service department. Contact information can typically be found on the Gates corporate

website.