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Gates 23087

Gates 23087 Premium Molded Coolant Hose Instruction Manual

Model: 23087

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1. PRODUCT OVERVIEW

The Gates 23087 Premium Molded Coolant Hose is engineered to meet or exceed OEM specifications for various coolant applications, including upper, lower, bypass, and heater hose connections. This hose is designed for durability and reliable performance within your vehicle's cooling system.



Image: Gates 23087 Premium Molded Coolant Hose, a black, pre-shaped hose designed for vehicle cooling systems.

2. KEY FEATURES

- **Material Composition:** Constructed with EPDM tube, synthetic fiber knit reinforcement, and a heat-

ozone-, and chemical coolant-resistant EPDM cover for enhanced durability.

- **Collapse Resistance:** Specifically-engineered materials resist collapse under vacuum conditions, maintaining coolant flow.
- **Electrochemical Degradation Resistance:** Designed to resist electrochemical degradation, a primary cause of hose failure, extending product life.
- **Precision Fit:** Pre-shaped to ensure a perfect fit and securely sealed conditions, simplifying installation and preventing leaks.
- **Industry Standards:** Meets the requirements of SAE 20R4, class D2, and DIN 73411, class A (except for tolerances), indicating high quality and performance.

3. PRODUCT SPECIFICATIONS

Attribute	Detail
Brand	Gates
Model Number	23087
Material	EPDM, Synthetic Fiber
Color	Black
Item Weight	1.5 Pounds
Manufacturer Part Number	23087
OEM Part Numbers	15173088, 15797888, 15832218

4. INSTALLATION GUIDELINES

Proper installation is crucial for the longevity and performance of your coolant hose and the entire cooling system. If you are unsure about any steps, it is recommended to consult a qualified automotive technician.

Safety Precautions:

- Always allow the engine to cool completely before working on the cooling system.
- Wear appropriate personal protective equipment, including gloves and eye protection.
- Be aware that coolant is toxic; dispose of it properly according to local regulations.

General Installation Steps:

1. **Drain Coolant:** Place a drain pan under the radiator and open the drain cock to drain the coolant.
2. **Remove Old Hose:** Loosen the hose clamps on the old coolant hose. Carefully twist and pull the old hose off the fittings.
3. **Inspect Fittings:** Clean the connection points on the radiator and engine block. Inspect for any corrosion or damage.
4. **Install New Hose:** Slide new hose clamps onto the new Gates 23087 hose. Position the new hose onto the fittings, ensuring a snug fit.

5. **Secure Clamps:** Tighten the hose clamps securely, but do not overtighten, as this can damage the hose.
6. **Refill Coolant:** Close the radiator drain cock. Refill the cooling system with the manufacturer-recommended coolant mixture.
7. **Bleed Air:** Start the engine and allow it to reach operating temperature with the heater on high. Monitor the coolant level and add more as needed to remove any trapped air.
8. **Check for Leaks:** After the engine has cooled, recheck the coolant level and inspect all connections for leaks.

Visual Guide: Don't Forget Your Coolant Hoses

Your browser does not support the video tag.

Video: This video emphasizes the importance of inspecting and replacing coolant hoses as part of routine cooling system maintenance to prevent unexpected breakdowns.

5. MAINTENANCE AND CARE

Regular inspection and maintenance of your Gates coolant hose and the entire cooling system are essential for optimal vehicle performance and to prevent costly repairs.

Recommended Maintenance Intervals:

Refer to your vehicle's owner's manual for specific cooling system maintenance schedules. Generally, coolant hoses should be inspected regularly and replaced every 4-5 years or 60,000-100,000 miles, whichever comes first, or immediately if signs of wear are present.

Hose Inspection:

- **Visual Check:** Look for cracks, bulges, leaks, or signs of abrasion on the hose surface.
- **Feel Test:** Squeeze the hose when the engine is cold. It should feel firm and pliable. If it feels excessively soft, spongy, or hard and brittle, it may need replacement.
- **Clamp Condition:** Ensure hose clamps are tight and free from corrosion.

Cooling System Maintenance:

Ensure the coolant level is maintained and flushed according to your vehicle manufacturer's recommendations. A properly maintained cooling system extends the life of all its components, including hoses.

Visual Guide: Properly Maintain Your Cooling System

Your browser does not support the video tag.

Video: This video provides essential information on the importance of maintaining your vehicle's cooling system to ensure optimal engine performance and prevent overheating.

6. TROUBLESHOOTING COMMON ISSUES

If you experience issues with your vehicle's cooling system, consider the following common problems and potential solutions:

Coolant Leaks:

- **Symptom:** Puddles of coolant under the vehicle, low coolant level, sweet smell.
- **Possible Cause:** Loose hose clamps, cracked or worn hose, damaged radiator, water pump seal failure.
- **Action:** Inspect all hoses and connections for visible leaks. Tighten clamps or replace damaged components.

Engine Overheating:

- **Symptom:** Temperature gauge rising, steam from under the hood, warning lights.
- **Possible Cause:** Low coolant level, faulty thermostat, clogged radiator, failing water pump, air in the system.
- **Action:** Safely pull over and allow the engine to cool. Check coolant level. Do not open the radiator cap when hot. Consult a technician if the issue persists.

Visual Guide: Protect the Ride - Your High Mileage Vehicle

Your browser does not support the video tag.

Video: This video highlights the specific maintenance needs and potential issues that can arise in high-mileage vehicles, emphasizing the importance of proactive care for critical components like coolant hoses.

7. ADDITIONAL RESOURCES

For more information on Gates products, technical support, or to locate a distributor, please visit the official Gates website.

Gates NaviGates App:

The NaviGates app is a convenient tool for finding the right Gates parts for your vehicle. You can search by vehicle market, OE competitor part number, or scan a VIN number to view all Gates belt, hose, and product solutions.

Visual Guide: Introducing NaviGates - An Online and App Based Catalog

Your browser does not support the video tag.

Video: This video introduces the NaviGates online and app-based catalog, demonstrating how users can efficiently find specific Gates automotive parts using various search methods.

8. WARRANTY AND SUPPORT

For information regarding the warranty of your Gates 23087 Premium Molded Coolant Hose, please refer to the official Gates warranty policy available on their website or contact Gates customer support directly.

Gates is committed to providing high-quality products and support for their customers.

For technical assistance or product inquiries, please visit the **Gates Store on Amazon** or the official Gates website.
