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Motorcraft KT-64

Motorcraft KT-64 Heater Hose Instruction Manual

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INTRODUCTION

This manual provides comprehensive instructions for the proper installation, function, maintenance, and troubleshooting of the Motorcraft KT-64 Heater Hose. Please read this manual thoroughly before proceeding with any installation or maintenance to ensure safe and effective use of the product. Retain this manual for future reference.

SAFETY INFORMATION

Always prioritize safety when working with automotive components. Failure to follow these safety guidelines may result in personal injury or damage to the vehicle.

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves, during installation and maintenance.
- Ensure the vehicle's engine is cool before working on the cooling system to prevent burns from hot coolant or engine components.
- Disconnect the vehicle's battery before performing any electrical work or if instructed by vehicle service procedures.
- Dispose of old coolant and parts responsibly according to local environmental regulations.
- If you are unsure about any step, consult a qualified automotive technician.

PRODUCT OVERVIEW

The Motorcraft KT-64 Heater Hose is a critical component of your vehicle's heating and cooling system. It is designed to transport hot engine coolant to the heater core, which then provides warmth to the vehicle's cabin. This hose is engineered to withstand high temperatures and pressures inherent in the automotive cooling system, ensuring reliable performance and durability.



Image showing the Motorcraft KT-64 Heater Hose, a component designed for automotive cooling systems.

INSTALLATION

Tools Required:

- Hose clamp pliers or screwdriver (depending on clamp type)
- Drain pan for coolant
- New coolant (if necessary)
- Rag or shop towels
- Safety glasses and gloves

Pre-Installation Checks:

1. Ensure the engine is completely cool to avoid burns.
2. Verify that the new Motorcraft KT-64 Heater Hose matches the old hose in length and diameter.
3. Have a drain pan ready to collect coolant.

Installation Steps:

1. **Drain Coolant:** Place a drain pan under the radiator or a convenient point in the cooling system.

Open the drain cock or disconnect a lower hose to drain a sufficient amount of coolant to bring the level below the heater hose connections.

2. **Locate and Remove Old Hose:** Identify the heater hose to be replaced. Use hose clamp pliers or a screwdriver to loosen and remove the clamps securing the old hose to the engine and heater core connections. Carefully twist and pull the old hose off the fittings. Be prepared for residual coolant to spill.
3. **Clean Connections:** Inspect the fittings on the engine and heater core. Clean any corrosion or debris from the connection points to ensure a good seal with the new hose.
4. **Install New Hose:** Slide new hose clamps onto the new Motorcraft KT-64 Heater Hose. Carefully push the new hose onto the engine and heater core fittings until it is fully seated.
5. **Secure Clamps:** Position the hose clamps over the connection points and tighten them securely. Do not overtighten, as this can damage the hose or fittings.
6. **Refill Coolant:** Close the drain cock (if opened) and refill the cooling system with the appropriate type and amount of coolant.
7. **Bleed Air:** Start the engine and allow it to reach operating temperature with the heater on full hot. Monitor the coolant level and add more as needed to purge air from the system. Check for leaks around the new hose connections.

FUNCTION AND OPERATION

Once installed, the Motorcraft KT-64 Heater Hose operates continuously as part of the vehicle's closed-loop cooling system. Hot coolant from the engine circulates through this hose to the heater core, where heat is exchanged with the cabin air. The cooled coolant then returns to the engine to be reheated. Proper function of this hose is essential for both cabin heating and maintaining engine temperature stability. During vehicle operation, the hose will be hot to the touch. Avoid contact with the hose when the engine is running or recently shut off to prevent burns.

MAINTENANCE

Regular inspection of the heater hose is crucial for preventing cooling system failures. Follow these maintenance guidelines:

- **Visual Inspection:** Periodically inspect the hose for signs of wear, such as cracks, bulges, hardening, softening, or fraying. Check for any signs of coolant leaks around the hose connections.
- **Hose Condition:** Squeeze the hose when the engine is cool. It should feel firm but pliable. A hose that is excessively hard, brittle, or mushy indicates degradation and requires replacement.
- **Clamp Security:** Ensure that hose clamps are tight and free from corrosion. Loose clamps can lead to leaks.
- **Coolant Level:** Regularly check the coolant reservoir level and top up with the correct type of coolant as needed. A consistently low coolant level without visible leaks may indicate a slow leak in the system, including the heater hose.
- **Replacement Interval:** Heater hoses typically have a lifespan, which can vary based on vehicle usage and environmental conditions. Consult your vehicle's service manual for recommended replacement intervals. Replace the hose proactively if it shows any signs of degradation.

TROUBLESHOOTING

If you experience issues related to your vehicle's heating system or coolant leaks, the heater hose may be a contributing factor. Here are common issues and troubleshooting steps:

Issue: Coolant Leak

- **Symptom:** Visible coolant dripping or puddling under the vehicle, especially near the firewall or engine.
- **Diagnosis:**
 - a. Inspect the entire length of the heater hose for cracks, punctures, or bulges.
 - b. Check the hose connections at both ends (engine and heater core) for signs of seepage or loose clamps.
 - c. If a leak is found on the hose itself, replace the hose. If the leak is at a connection, try tightening the clamp. If the clamp is corroded or damaged, replace it.

Issue: No Heat in Cabin or Inconsistent Heat

- **Symptom:** The vehicle's heater does not produce warm air, or the heat is intermittent.
- **Diagnosis:**
 - a. While a heater hose itself rarely causes a "no heat" condition unless it's completely blocked or collapsed, a significant leak in the hose can lead to low coolant levels, which will affect heating.
 - b. Check coolant level. If low, refill and check for leaks.
 - c. Feel both heater hoses (inlet and outlet) when the engine is warm and the heater is on. Both should be hot. If one is cold, it could indicate a blockage in the hose, heater core, or a problem with the water pump or thermostat.
 - d. If the hose is suspected of being blocked, it should be replaced.

Note: Many factors can cause heating system issues. If troubleshooting steps do not resolve the problem, consult a professional mechanic.

SPECIFICATIONS

Brand	Motorcraft
Model Number	KT-64
Material	Plastic
Color	Black
Product Dimensions	33.02 x 55.88 x 10.16 cm
Item Weight	4.54 kg
UPC	031508597723

WARRANTY AND SUPPORT

For information regarding the warranty of your Motorcraft KT-64 Heater Hose, please refer to the warranty documentation provided with your purchase or visit the official Motorcraft website. For technical support or further assistance, please contact Motorcraft customer service directly.

