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Kumar Bros USA KBCO4009TH3

Instruction Manual: Kumar Bros USA 160°F Thermostat

For Yanmar Tractor Models F215D, FX215, F255, FX255 and others

1. INTRODUCTION

Thank you for choosing the Kumar Bros USA 160°F Thermostat. This manual provides essential information for the proper installation, operation, and maintenance of your new thermostat. Please read this manual thoroughly before installation and keep it for future reference. This thermostat is designed as a direct replacement for Yanmar Part #129155-49800, ensuring compatibility and reliable performance in your Yanmar tractor's cooling system.

2. PRODUCT OVERVIEW

The Kumar Bros USA 160°F Thermostat is a brand new, aftermarket unit engineered to meet or exceed OEM specifications for fit and performance. It is a critical component in your engine's cooling system, regulating coolant flow to maintain optimal engine operating temperature.

Key Features:

- 100% Brand New Aftermarket Unit
- Not Remanufactured
- Meets or Exceeds OEM Specifications for Fit and Performance



Main view of the thermostat, showing its overall structure including the spring and valve mechanism.



Angled side view of the thermostat, highlighting the metal housing and internal spring.



Straight side view of the thermostat, providing a clear look at its cylindrical body and flange.



Top-down view of the thermostat, showing the upper valve and mounting points.



Bottom-up view of the thermostat, revealing the main valve and spring mechanism from below.

3. COMPATIBILITY

This thermostat is compatible with the following Yanmar Tractor models:

- F18
- F26D, FX26
- F28D, FX28
- F37D, FX42
- F195, FX195
- F215D, FX215
- F255, FX255
- FX285
- FX305

It directly replaces Yanmar Part #129155-49800.

4. SETUP AND INSTALLATION

Installation of a thermostat requires basic mechanical knowledge and tools. If you are unsure about any step, it is recommended to seek professional assistance. Always ensure the engine is cool before beginning any work on the cooling system.

General Installation Steps:

1. **Safety First:** Ensure the engine is completely cool. Disconnect the battery's negative terminal.
2. **Drain Coolant:** Place a drain pan under the radiator and open the drain cock to drain the coolant.
3. **Locate Thermostat Housing:** The thermostat is typically located in a housing on the engine block or cylinder head, where the upper radiator hose connects.
4. **Remove Housing:** Carefully unbolt the thermostat housing and remove it. Be prepared for residual coolant to spill.
5. **Remove Old Thermostat:** Take out the old thermostat and gasket. Clean the mating surfaces thoroughly to ensure a good seal for the new gasket.
6. **Install New Thermostat:** Place the new Kumar Bros USA thermostat with a new gasket into the housing, ensuring it is oriented correctly (usually with the spring facing the engine).

7. **Reassemble:** Reattach the thermostat housing, tightening bolts evenly to the manufacturer's specified torque. Reconnect the radiator hose.
8. **Refill Coolant:** Close the radiator drain cock and refill the cooling system with the appropriate coolant mixture.
9. **Bleed Air:** Start the engine and allow it to reach operating temperature with the radiator cap off (or bleed valve open) to purge any trapped air from the system. Top off coolant as needed.
10. **Check for Leaks:** Inspect all connections for leaks after the engine has reached operating temperature.

5. OPERATING PRINCIPLE

The thermostat's primary function is to regulate the engine's operating temperature. When the engine is cold, the thermostat remains closed, preventing coolant from circulating through the radiator. This allows the engine to warm up quickly to its optimal operating temperature. As the coolant temperature reaches 160°F (the thermostat's opening temperature), the wax pellet inside the thermostat expands, opening the valve and allowing coolant to flow to the radiator for cooling. When the temperature drops, the wax contracts, and the valve closes, restricting flow. This continuous opening and closing action ensures the engine operates within its ideal temperature range, promoting efficiency and reducing wear.

6. MAINTENANCE

While the thermostat itself requires no routine maintenance, regular inspection of your tractor's cooling system is crucial for its longevity and performance.

Maintenance Tips:

- **Coolant Level:** Regularly check the coolant level in the reservoir and radiator. Top up with the correct coolant type as needed.
- **Coolant Condition:** Inspect the coolant for discoloration or debris. Flush and replace coolant according to your tractor manufacturer's recommendations.
- **Hoses and Clamps:** Check radiator and heater hoses for cracks, bulges, or leaks. Ensure hose clamps are secure.
- **Radiator Fins:** Keep radiator fins clean and free of debris to ensure efficient heat dissipation.
- **Thermostat Housing:** Periodically check the thermostat housing for any signs of leaks around the gasket.

7. TROUBLESHOOTING

Common issues related to thermostats and their potential causes:

Symptom	Possible Cause	Solution
Engine Overheating	Stuck closed thermostat, low coolant, faulty water pump, clogged radiator.	Check coolant level, inspect for leaks, test or replace thermostat, inspect water pump/radiator.
Engine Runs Cold / Slow to Warm Up	Stuck open thermostat, faulty temperature sensor.	Test or replace thermostat, check temperature sensor.
Erratic Temperature Gauge Readings	Faulty thermostat, air in cooling system, faulty temperature sensor.	Bleed air from system, test or replace thermostat/sensor.
Coolant Leaks at Thermostat Housing	Damaged gasket, loose housing bolts, cracked housing.	Replace gasket, tighten bolts to spec, inspect housing for damage.

If troubleshooting steps do not resolve the issue, consult a qualified mechanic.

8. SPECIFICATIONS

Attribute	Detail
Brand	Kumar Bros USA
Part Number	KBCO4009TH3
Opening Temperature	160°F
Replaces OEM Part #	Yanmar 129155-49800
Condition	New Aftermarket Unit

9. WARRANTY INFORMATION

This Kumar Bros USA thermostat comes with a **6-Month Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage due to improper installation, misuse, neglect, accident, or unauthorized modifications. For warranty claims, please retain your proof of purchase and contact Kumar Bros USA customer support.

10. SUPPORT AND CONTACT

For further assistance, technical support, or inquiries regarding your Kumar Bros USA thermostat, please refer to the contact information provided by your retailer or visit the official Kumar Bros USA website. When contacting support, please have your product model number (KBCO4009TH3) and purchase details ready.

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