EPMAN EPOL0520

EPMAN AN10 Oil Cooler Thermostat Module EPOL0520

Instruction Manual

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your EPMAN AN10 Oil Cooler Thermostat Module, model EPOL0520. Please read these instructions carefully before installation and use to ensure optimal performance and safety.

2. Product Features

- **Universal Application:** Designed for broad compatibility with various oil cooling systems.
- **Thermostatic Control:** Features an internal 70°C (160°F) thermostat that precisely regulates fluid temperature. The thermostat opens at 72°C and closes upon cooling.
- **Compact Design:** Ideal for custom projects where space is limited.
- **Durable Construction:** Machined from high-quality 6061 CNC Billet Aluminum.
- **Secure Connections:** Equipped with four -10AN fittings and high-quality DUBTY seals for leak-free operation.

3. Specifications

Model Number	EPOL0520
Thermostat Opening Temperature	72°C (160°F)
Material	6061 CNC Billet Aluminum
Color	Black
Port Size	M20 x 1.5
Fittings Included	Four -10AN fittings with DUBTY seals

Overall Dimensions (Module Only)	Approximately 3.92" x 2.03" x 1.47"
Overall Dimensions (With Fittings)	Approximately 3.95" x 4.41" x 1.47"
Working Torque Range (Fittings)	15-25 ft-lbs
Maximum Torque Rating	35 ft-lbs

Note: Due to manual measurement, slight variations in dimensions (0.5-1 inch) may occur.

4. Setup and Installation

This product is designed for DIY installation. Professional installation is recommended if you are not familiar with automotive oil cooling systems. Ensure the engine is cool and depressurized before beginning installation.

4.1 Connection Diagram



Figure 1: Connection points for the oil cooler thermostat module. Ensure correct routing from the oil tank, to the oil pump, to the oil cooler, and from the oil cooler.

4.2 Installation Steps

1. Identify the appropriate location for mounting the thermostat module within your oil cooling system.
2. Connect the AN10 fittings to the module. Apply a working torque of 15-25 ft-lbs.**Do not exceed the maximum torque rating of 35 ft-lbs** to prevent damage.
3. Route the oil lines according to your system's design and the connection diagram (Figure 1). Ensure connections are made correctly: from the oil tank, to the oil pump, to the oil cooler, and from the oil cooler.
4. Securely attach all oil lines to the AN10 fittings on the module and to other components of your oil cooling system.
5. **Crucial Step:** Before starting the vehicle, the installer is responsible for thoroughly checking all thermostat plugs, NPT plugs, line fittings, and other connections to ensure they are completely tightened and leak-free.

4.3 Thermostat Removal (Optional)

The internal 70°C (160°F) thermostat can be easily removed if a constant flow or a different temperature control method is desired. Consult a professional if you are unsure about this modification.

5. Operation

Once installed, the EPMAN AN10 Oil Cooler Thermostat Module operates automatically to regulate oil temperature. The internal thermostat will open when the oil reaches approximately 72°C (160°F), allowing oil to flow through the oil cooler. As the oil cools below this temperature, the thermostat will close, bypassing the cooler to help the oil reach optimal operating temperature more quickly.

6. Maintenance

Regular inspection and maintenance are crucial for the longevity and safe operation of your oil cooling system.

- **Initial Check:** After installation, and especially within the first few miles of vehicle operation, carefully inspect all connections (thermostat plugs, NPT plugs, line fittings) for any signs of leaks or loosening.

- **Periodic Checks:** We recommend checking all connections at regular intervals as part of your routine vehicle maintenance.
- **Cleaning:** Keep the exterior of the module clean from dirt and debris to ensure proper heat dissipation and prevent corrosion.

7. Troubleshooting

This section provides general guidance for common issues. For complex problems, consult a qualified automotive technician.

- **Oil Leaks:** If oil leaks are observed, immediately shut down the engine. Re-check all fittings and connections for proper torque and ensure seals are correctly seated. Replace any damaged seals or fittings.
- **Incorrect Oil Temperature:** If the oil temperature is consistently too high or too low, verify the thermostat is functioning correctly. Ensure the module is installed in the correct orientation and that oil flow is not restricted.
- **Reduced Oil Flow:** Check for kinks or obstructions in the oil lines. Ensure all fittings are clear and not impeding flow.

8. Safety Information

- Always ensure the vehicle is turned off, cool, and depressurized before performing any installation or maintenance.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection, during installation.
- Handle oil and other automotive fluids responsibly and dispose of them according to local regulations.
- Ensure all connections are properly tightened to prevent oil leaks, which can be a fire hazard.
- If you are unsure about any part of the installation or operation, consult a qualified professional.

9. Additional Product Images



Figure 2: Front view of the EPMAN AN10 Oil Cooler Thermostat Module with red AN fittings.



Figure 3: Top-down view of the EPMAN AN10 Oil Cooler Thermostat Module, showcasing its compact design.

10. Warranty and Support

For warranty information or technical support, please refer to the documentation provided with your purchase or contact the retailer/manufacturer directly. Keep your proof of purchase for warranty claims.