

- Manuals.plus /
- › Fel-Pro /
 - › FEL-PRO ES 73076 Oil Cooler Mounting Set Instruction Manual

Fel-Pro ES73076

FEL-PRO ES 73076 Oil Cooler Mounting Set Instruction Manual

Model: ES73076

- Introduction
- Safety Information
- What's in the Box
- Setup & Installation
- Operation
- Maintenance
- Troubleshooting
- Specifications
- Warranty & Support

1. INTRODUCTION

The FEL-PRO ES 73076 Oil Cooler Mounting Set provides essential gaskets for sealing the oil cooler assembly in various automotive applications. Fel-Pro gaskets are engineered to meet or exceed original equipment specifications, offering reliable sealing solutions with high performance and durability. This set is designed to facilitate the replacement of worn or leaking oil cooler gaskets, restoring proper function and preventing fluid loss.



Image 1.1: Components of the FEL-PRO ES 73076 Oil Cooler Mounting Set. This image displays the two primary gaskets included in the set: a larger, irregularly shaped rubber gasket and a smaller, flat, rectangular gasket with integrated blue sealing rings, both crucial for sealing the oil cooler.

2. SAFETY INFORMATION

Always prioritize safety when working on automotive systems. Failure to follow safety precautions can result in serious injury or damage to the vehicle.

- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and protective clothing.
- Ensure the vehicle is securely supported on jack stands or a lift before working underneath it. Never rely solely on a jack.
- Allow the engine and associated components to cool completely before beginning work to prevent burns from hot fluids or surfaces.
- Disconnect the vehicle's battery to prevent accidental electrical shorts or activation of components.
- Handle automotive fluids (oil, coolant) with care. Dispose of used fluids responsibly according to local regulations.
- Work in a well-ventilated area to avoid inhaling fumes.
- Keep a fire extinguisher readily available.
- If you are unsure about any step of the installation process, consult a qualified automotive technician.

Proposition 65 Warning: This product may expose you to chemicals including carbon black, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

3. WHAT'S IN THE BOX

The FEL-PRO ES 73076 Oil Cooler Mounting Set typically includes the following components:

- One (1) Oil Cooler Gasket (often an O-ring style or similar sealing ring)
- One (1) Oil Cooler Mounting Gasket (a flat gasket for the mounting surface)

Note: The exact appearance and number of gaskets may vary slightly depending on the specific vehicle application, but the set is designed to provide all necessary sealing components for the oil cooler mounting.

4. SETUP & INSTALLATION

Installation of the oil cooler mounting set requires mechanical aptitude and specific tools. It is recommended to consult a vehicle-specific service manual for detailed instructions and torque specifications. Professional installation is advised if you are not familiar with automotive repair procedures.

4.1 Required Tools (Typical)

- Socket set and ratchet (with various extensions)
- Wrenches
- Torque wrench
- Drain pans for oil and coolant
- Pliers (long-reach needle nose pliers may be helpful)
- Scraper or gasket removal tool
- Clean rags or shop towels
- Brake cleaner or suitable degreaser
- New engine oil and coolant (as needed)

4.2 Installation Steps (General Guide)

1. Preparation:

- Park the vehicle on a level surface and engage the parking brake.
- Allow the engine to cool completely.
- Safely lift and support the vehicle using jack stands or a lift.
- Locate the oil cooler assembly. Access may require removing other components (e.g., wheel, inner fender liner, air box).

2. Fluid Drainage:

- Place drain pans beneath the vehicle.
- Drain the engine oil.
- Drain the engine coolant, as the oil cooler often has coolant lines connected to it.

3. Disassembly:

- Carefully disconnect any coolant hoses and oil lines attached to the oil cooler. Be prepared for residual fluid spillage.
- Remove the bolts securing the oil cooler to the engine block or mounting surface.
- Carefully remove the oil cooler assembly.

4. Surface Preparation:

- Thoroughly clean both the oil cooler mounting surface on the engine block and the mating surface on the oil cooler itself.
- Remove all traces of old gasket material, dirt, and oil using a scraper and degreaser. Ensure surfaces are smooth and free of nicks or scratches that could compromise the seal.

5. Gasket Installation:

- Install the new FEL-PRO gaskets onto the oil cooler or engine block as per the vehicle service manual's instructions. Ensure correct orientation.
- Some gaskets may require a thin coat of engine oil for lubrication during installation, but avoid excessive sealant unless specified by the manufacturer.

6. Reassembly:

- Carefully position the oil cooler assembly with the new gaskets onto the mounting surface.
- Install the retaining bolts. Tighten them finger-tight first, then follow the vehicle service manual's specified torque sequence and values using a torque wrench. **Do not overtighten**, as this can damage the gaskets or components.
- Reconnect all coolant hoses and oil lines, ensuring clamps are secure.

7. Post-Installation:

- Lower the vehicle.
- Refill the engine with the correct type and amount of engine oil.
- Refill the cooling system with the appropriate coolant, bleeding air from the system as per vehicle manufacturer guidelines.
- Start the engine and allow it to reach operating temperature. Carefully inspect for any leaks around the oil cooler assembly.
- Check fluid levels again after the engine has cooled and top up if necessary.

5. OPERATION

Once the FEL-PRO ES 73076 Oil Cooler Mounting Set is correctly installed, the oil cooler system should operate as intended, maintaining optimal engine oil temperature and preventing leaks. The primary function of the gaskets is to create a leak-proof seal between the oil cooler and the engine block, ensuring proper circulation of engine oil and coolant without intermixing or external leakage.

- **Initial Check:** After installation and the first drive cycle, re-inspect the area around the oil cooler for any signs of oil or coolant leaks.
- **Fluid Levels:** Regularly monitor engine oil and coolant levels as part of routine vehicle maintenance. Significant drops in fluid levels could indicate a leak.

6. MAINTENANCE

The FEL-PRO ES 73076 Oil Cooler Mounting Set itself does not require specific maintenance beyond proper installation. However, regular vehicle maintenance practices contribute to the longevity of all engine components, including gaskets.

- **Regular Inspections:** During routine oil changes or other under-hood checks, visually inspect the oil cooler and surrounding areas for any signs of fluid leaks, cracks, or damage to hoses and connections.
- **Fluid Quality:** Ensure engine oil and coolant are changed at recommended intervals and that the correct types are used. Contaminated or degraded fluids can accelerate wear on seals and gaskets.
- **Temperature Management:** Address any issues with engine overheating promptly, as excessive temperatures can

degrade gasket materials over time.

7. TROUBLESHOOTING

If issues arise after installing the oil cooler mounting set, the following points may help in diagnosis:

7.1 Common Symptoms of a Faulty Oil Cooler Gasket

- **Visible Oil Leaks:** Oil puddles or drips under the vehicle, especially near the oil filter housing or engine block.
- **Coolant Leaks:** Green, pink, or orange fluid drips if the oil cooler also handles coolant.
- **Intermixing of Fluids:** In severe cases, a compromised gasket can allow engine oil and coolant to mix. Symptoms include milky engine oil (oil in coolant) or oil in the coolant reservoir. This requires immediate attention.
- **Frequent Fluid Top-Offs:** Needing to add oil or coolant more frequently than usual without visible external leaks (though internal leaks are possible).

7.2 Diagnostic Steps

1. **Visual Inspection:**
 - With the engine off and cool, carefully inspect the oil cooler and surrounding area for fresh fluid leaks. Use a flashlight.
 - Check the tightness of the oil cooler mounting bolts. While rare for new installations, loose bolts can cause leaks.
2. **Pressure Test (Professional):**
 - A cooling system pressure test can help identify coolant leaks.
 - An oil system pressure test can help identify oil leaks.
3. **Fluid Analysis:**
 - If intermixing of fluids is suspected, check the appearance of both engine oil (on the dipstick) and coolant (in the reservoir).
 - Consider professional fluid analysis for definitive confirmation.

If a leak persists after proper installation, it may indicate an issue with the mating surfaces, incorrect torque, or damage to the oil cooler itself. In such cases, re-evaluation by a qualified technician is recommended.

8. SPECIFICATIONS

Attribute	Detail
Brand	Fel-Pro
Model Number	ES73076
Item Weight	0.705 ounces
Product Dimensions	6 x 4 x 0.3 inches
Manufacturer Part Number	ES73076
Position	Center

Attribute	Detail
Material	Application-specific materials for optimal sealing
Application	Oil Cooler Mounting Set

9. WARRANTY & SUPPORT

For specific warranty information regarding the FEL-PRO ES 73076 Oil Cooler Mounting Set, please refer to the official Fel-Pro manufacturer's warranty policy. Warranty terms typically cover defects in materials and workmanship under normal use and service.

For technical support, installation guidance, or to inquire about warranty claims, please contact Fel-Pro customer service directly or visit their official website. You can also find more information and products from Fel-Pro at their Amazon store: [Fel-Pro Amazon Store](#).

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