XDFDRF 926-876 926-959

XDFDRF Upgraded Aluminum Engine Oil Cooler Filter Housing

MODELS: 926-876, 926-959

1. Product Overview

This manual provides instructions for the XDFDRF Upgraded Aluminum Engine Oil Cooler Filter Housing, designed as a direct replacement and upgrade for original equipment plastic units. This component is crucial for maintaining optimal engine oil temperature and filtration, ensuring engine longevity and performance. It integrates the oil cooler and filter housing into a single, durable aluminum unit.

Image 1.1: XDFDRF Upgraded Aluminum Engine Oil Cooler Filter Housing.

2. Key Features and Benefits

- **Upgraded Aluminum Construction:** Manufactured from reinforced solid aluminum, offering superior corrosion resistance and heat dissipation compared to original plastic designs. This upgrade significantly reduces the risk of common leaks and frequent replacements.
- **Enhanced Durability:** Engineered for long-term stability and excellent performance, protecting the engine from premature wear.
- **Improved Cooling Efficiency:** Features a cross-double design for the oil cooler, which helps extend the life of both the engine oil and the engine itself by improving heat exchange.
- **Leak Prevention:** Designed to prevent oil leakage, a common issue with plastic OEM versions.
- **Comprehensive Kit:** Includes necessary gaskets and sensors for a complete installation.

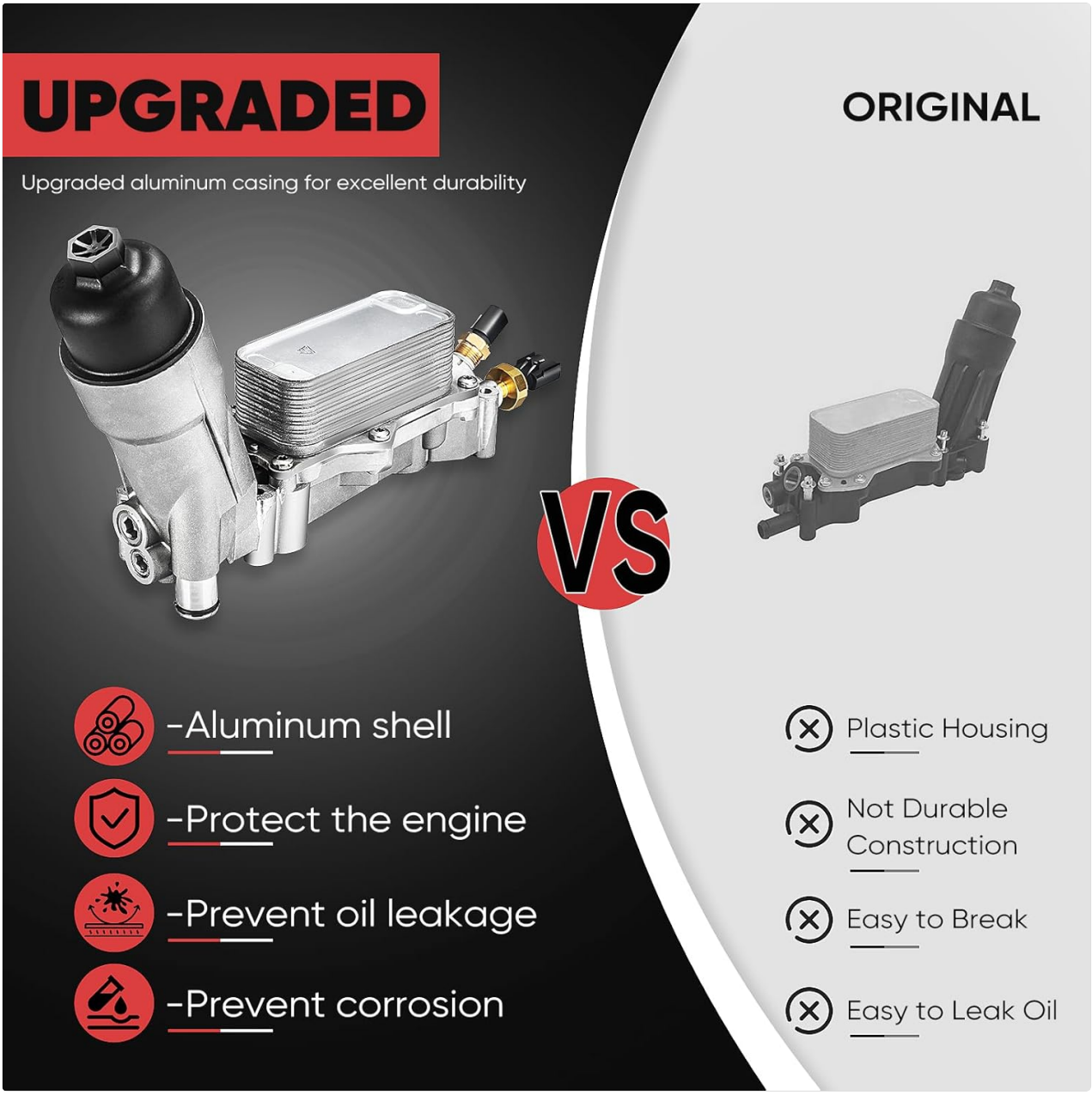

Image 2.1: Visual comparison highlighting the upgraded aluminum construction versus the original plastic design, emphasizing durability and leak prevention.

Image 2.2: Illustration of the oil cooler's cross-double design, showing how it improves cooling efficiency and includes temperature and pressure sensors.

3. Compatibility and Fitment

This engine oil cooler filter housing is compatible with various 3.6L V6 engine models across Dodge, Chrysler, Ram, and Jeep vehicles. Please verify your vehicle's make, model, and year against the list below to ensure proper fitment.

Compatible Dodge Models (2011-2016 3.6L V6 Engine):

- Dodge Charger (2011-2016)
- Dodge Challenger (2011-2016)
- Dodge Grand Caravan (2011-2016)
- Dodge Journey (2011-2016)
- Dodge Durango (2011-2015)
- Dodge Avenger (2011-2014)

Compatible Chrysler Models (2011-2016 3.6L V6 Engine):

- Chrysler 200 (2011-2016)
- Chrysler 300 (2011-2016)
- Chrysler Town & Country (2011-2016)

Compatible Ram Models (3.6L V6 Engine):

- Ram 1500 (2013-2016)
- Ram C/V (2014-2015)
- Ram ProMaster 1500, 2500, 3500 (2014-2016)

Compatible Jeep Models (3.6L V6 Engine):

- Jeep Grand Cherokee (2011-2016)
- Jeep Wrangler (2012-2016)
- Jeep Cherokee (2014-2016)

Image 3.1: Visual guide detailing compatible Dodge, Chrysler, Ram, and Jeep vehicle models.

4. Associated Part Numbers

This upgraded oil cooler filter housing replaces the following OEM and aftermarket part numbers:

Oil Filter Housing (926-959 series):

- 926-959, 7B0115401
- 5184294AC, 5184294AD, 5184294AE
- 5184304AE, 5184304AF
- 5149077AB, 5149096AB
- 68596317AA, 68105583AA, 68105583AB, 68105583AC, 68105583AD, 68105583AE, 68105583AF, 68105583AG

Engine Oil Cooler (926-876 series):

- 926-876
- 68308741AA, 68308741AB, 68308741AC, 68308741AF
- 68310865AA, 68310865AB, 68310865AC, 68310865AF
- 68365925AA, 68365925AB, 68365925AC, 68365925AD
- 68365931AA, 68365931AB, 68365931AD
- 68295556AA

5. Product Components

The XDFDRF Upgraded Aluminum Engine Oil Cooler Filter Housing assembly typically includes the following components:

- Aluminum Housing
- Oil Cooler
- Oil Filter (pre-installed or separate)
- Temperature Sensor
- Pressure Sensor
- Mount Bolts
- Gaskets (for the housing and intake manifold)

Image 5.1: Exploded view showing the various components included in the oil filter housing assembly, such as the aluminum housing, oil cooler, sensors, mount bolts, and gaskets.

6. Installation Instructions

Note: Installation of this component is complex and requires mechanical expertise. Professional installation is highly recommended. If you choose to perform the installation yourself, proceed with caution and ensure you have the necessary tools and knowledge. Refer to a service manual specific to your vehicle for detailed torque specifications and procedures.

General Installation Steps:

1. **Preparation:** Ensure the engine is cool. Disconnect the battery. Drain the engine oil and coolant.
2. **Access:** The upper and lower intake manifolds typically need to be removed to gain access to the oil cooler filter housing. Carefully disconnect all associated hoses, wiring, and sensors.
3. **Removal:** Loosen the fixing screws and disconnect the electrical connectors for the sensors on the existing unit. Carefully extract the old oil cooler filter housing.

4. **Cleaning:** Thoroughly clean the mounting surface on the engine block to ensure a proper seal with the new gaskets. Remove any old gasket material or debris.
5. **Gasket Installation:** Install new gaskets onto the XDFDRF aluminum housing. Ensure all seals are properly seated and lubricated with clean engine oil. *It is recommended to inspect the included gaskets and consider using OEM gaskets for critical sealing points if there are concerns about the quality of aftermarket gaskets.*
6. **New Unit Installation:** Carefully align the new XDFDRF aluminum engine oil cooler filter housing with the mounting points. Install the mount bolts and tighten them to the manufacturer's specified torque values in the correct sequence.
7. **Sensor Connection:** Confirm the installation of the temperature and pressure sensors, and securely fix their screws and electrical connectors.
8. **Reassembly:** Reinstall the intake manifolds, hoses, and wiring in reverse order of removal. Ensure all connections are secure.
9. **Fluid Refill:** Refill the engine with the correct type and amount of engine oil and coolant.
10. **System Check:** Reconnect the battery. Start the engine and check for any leaks. Monitor fluid levels and engine temperature.

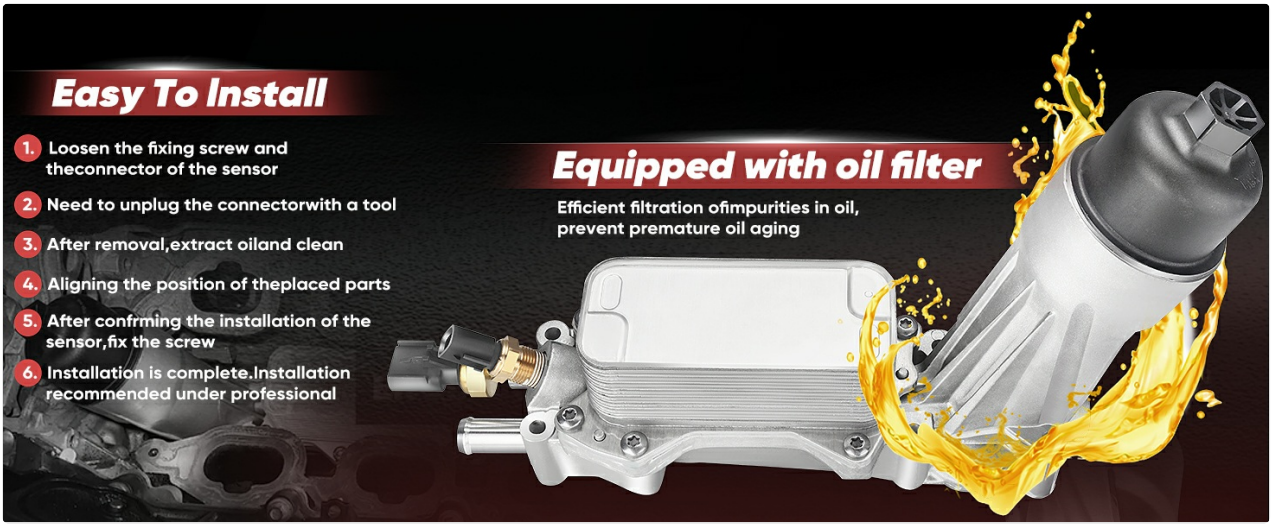

Image 6.1: Visual representation of simplified installation steps, emphasizing careful handling and professional recommendation.

7. Maintenance

Proper maintenance of your engine oil cooler filter housing is essential for its longevity and optimal engine performance.

- **Regular Oil Changes:** Adhere to your vehicle manufacturer's recommended oil change intervals using the specified oil type and filter. A clean oil filter is crucial for the cooler's efficiency.
- **Inspect for Leaks:** Periodically inspect the area around the oil cooler filter housing for any signs of oil or coolant leaks. Early detection can prevent significant engine damage.
- **Gasket Integrity:** While the aluminum housing is designed for durability, gaskets can degrade over time. If leaks are detected, inspect and replace gaskets as necessary.
- **Coolant System Health:** Ensure your engine's cooling system is properly maintained, as the oil cooler relies on coolant to regulate oil temperature.

8. Troubleshooting

If you encounter issues after installation or during operation, consider the following:

- **Oil Leaks:** The most common issue.
  - **Cause:** Improper gasket installation, damaged gaskets, or incorrect torque.
  - **Solution:** Re-check all gasket seating and ensure they are properly lubricated. Verify torque specifications. If leaks persist, consider replacing gaskets with high-quality OEM alternatives, as some aftermarket gaskets may not provide an optimal seal.
- **Engine Overheating/Oil Temperature Issues:**
  - **Cause:** Air in the cooling system, faulty temperature sensor, or restricted oil flow.
  - **Solution:** Bleed the cooling system to remove air. Check sensor connections and functionality. Ensure the oil filter is correctly installed and not clogged.
- **Check Engine Light:**
  - **Cause:** Disconnected or faulty sensors (temperature, pressure).
  - **Solution:** Verify all sensor connections are secure. Use an OBD-II scanner to retrieve diagnostic trouble codes (DTCs) for specific sensor issues.

For persistent issues, it is advisable to consult a certified automotive technician.

9. Specifications

Model Numbers	926-876, 926-959
Material	Reinforced Aluminum
Item Weight	2.49 kg (5.49 lbs)
Parcel Dimensions	40.64 x 26.42 x 12.45 cm (16 x 10.4 x 4.9 inches)
Manufacturer	XDFDRF

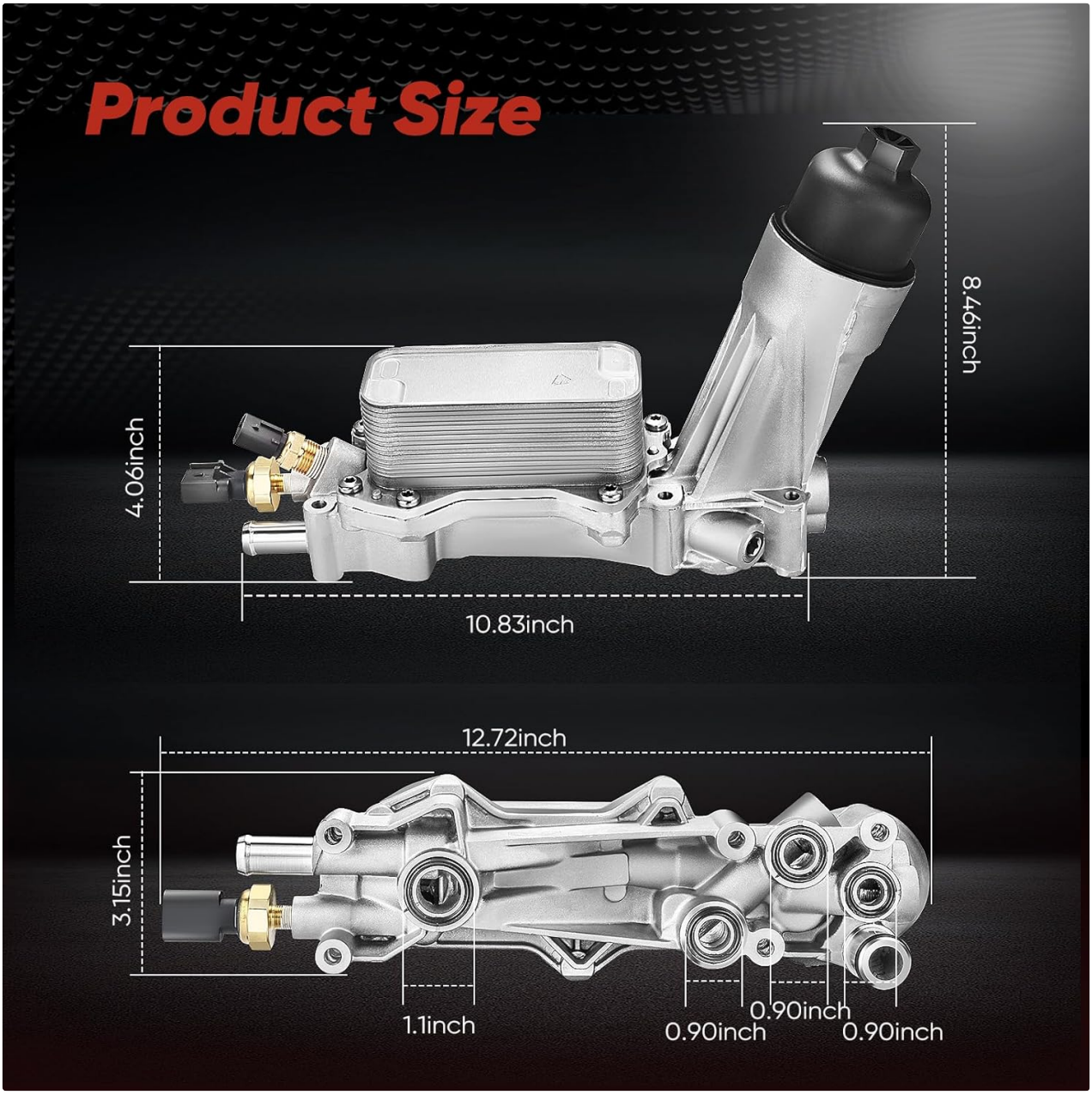

Image 9.1: Detailed dimensions of the XDFDRF Upgraded Aluminum Engine Oil Cooler Filter Housing.

10. Warranty and Support

This XDFDRF product comes with a**1-year quality guarantee**.
If you encounter any problems or have questions regarding the product, please contact us through the Amazon message system. We are committed to providing carefree replacement or refund services for eligible issues within the warranty period.
For technical assistance or installation guidance, it is recommended to consult a qualified automotive professional or refer to your vehicle's specific service manual.