Ford M-6880-M501

Ford Racing (M-6880-M501) Coyote Gen 2 Oil Filter Adapter Kit

User Manual

1. Introduction

The Ford Racing M-6880-M501 Coyote Gen 2 Oil Filter Adapter Kit is designed to provide improved clearance for the oil filter on 2015-2017 Coyote 5.0L engines. This adapter allows for the rotation of the oil filter, which can be crucial for engine swaps and chassis modifications, ensuring the oil filter does not interfere with other components. This manual provides essential information for the proper installation, operation, and maintenance of your oil filter adapter kit.



Figure 1: The Ford Racing M-6880-M501 Oil Filter Adapter Kit with an oil filter installed, demonstrating its compact design and the included sensor port.

2. Safety Information

Always observe the following safety precautions when working on your vehicle:

- Ensure the engine is cool and the vehicle is securely supported on jack stands or a lift before beginning any work.
- Disconnect the battery's negative terminal to prevent accidental electrical discharge.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Be aware of hot surfaces and fluids. Allow the engine to cool completely before handling components.
- Dispose of used oil and filters responsibly according to local regulations.
- If you are unsure about any step of the installation process, consult a qualified automotive technician.

3. Package Contents

Verify that all components are present and undamaged before proceeding with installation:

- Oil Filter Adapter
- Oil Filter (may be included)
- Associated Fasteners (if applicable)
- Gaskets/O-rings (pre-installed or separate)

Note: The kit typically includes the adapter and may include an oil filter. Please check your specific packaging for exact contents.

4. Setup and Installation

This section outlines the general steps for installing the oil filter adapter. Specific vehicle configurations may vary. Always refer to your vehicle's service manual for detailed instructions.

1. **Prepare the Vehicle:** Ensure the engine is completely cool. Raise the vehicle safely using a lift or jack stands. Place a drain pan beneath the oil filter area.
2. **Drain Engine Oil:** If not already done, drain the engine oil. This will minimize spillage when removing the old filter.
3. **Remove Existing Oil Filter:** Carefully unscrew and remove the current oil filter. Be prepared for residual oil to drain. Clean the mounting surface on the engine block thoroughly, ensuring no old gasket material remains.
4. **Install Adapter:**
    - Apply a thin film of clean engine oil to the O-ring of the new adapter.
    - Thread the adapter onto the engine block's oil filter mounting stud. Ensure it seats flush against the block.
    - Tighten the adapter to the manufacturer's specified torque. *(Consult a service manual for exact torque specifications for your engine.)*
5. **Install New Oil Filter:**
    - Apply a thin film of clean engine oil to the gasket of the new oil filter.
    - Thread the new oil filter onto the adapter. Hand-tighten until the gasket contacts the adapter, then tighten an additional 3/4 to 1 full turn, or as specified by the filter manufacturer. Do not overtighten.
6. **Refill Engine Oil:** Refill the engine with the appropriate type and amount of engine oil as specified by your vehicle manufacturer.
7. **Check for Leaks:** Start the engine and let it run for a few minutes. Carefully inspect the adapter and oil filter area for any signs of oil leaks. Shut off the engine and re-check the oil level. Top off if necessary.
8. **Final Inspection:** Lower the vehicle and perform a final visual inspection.



Figure 2: A detailed view of the adapter's mounting surface and sensor port, highlighting the precision engineering for a secure fit.

5. Operating Principles

The Ford Racing Oil Filter Adapter functions by relocating the oil filter's mounting position relative to the engine block. This allows the filter to be rotated into a more advantageous orientation, providing critical clearance for custom headers, engine mounts, or other aftermarket components that might otherwise obstruct the factory oil filter location. Once installed, the adapter becomes an integral part of the engine's lubrication system, ensuring proper oil flow to and from the filter.

6. Maintenance

Regular maintenance is crucial for the longevity and proper function of your oil filter adapter and engine:

- **Regular Inspections:** During routine oil changes, visually inspect the adapter for any signs of leaks, cracks, or damage.
- **Gasket Integrity:** Ensure the O-ring or gasket between the adapter and the engine block remains in good condition. Replace if any signs of wear or leakage are observed.
- **Filter Installation:** Always ensure the oil filter is properly tightened to the adapter during oil changes, following the filter manufacturer's recommendations.
- **Cleanliness:** Keep the area around the adapter clean to easily spot any potential leaks.

7. Troubleshooting

If you encounter issues after installing the oil filter adapter, consider the following:

Problem	Possible Cause	Solution
Oil Leak from Adapter	Improperly torqued adapter Damaged or misaligned O-ring/gasket Cracked adapter housing	Re-torque adapter to specifications. Inspect and replace O-ring/gasket. Replace the adapter if cracked.
Oil Leak from Filter	Improperly tightened oil filter Damaged oil filter gasket Old gasket material left on adapter	Tighten oil filter correctly. Replace oil filter. Clean adapter mounting surface thoroughly.
Insufficient Clearance	Incorrect adapter orientation Adapter not designed for specific component	Re-evaluate adapter position and rotation. Confirm compatibility with all aftermarket parts.

8. Specifications

Attribute	Value
Brand	Ford Racing
Model Number	M-6880-M501
Compatible Engines	2015-2017 Coyote 5.0L
Product Grade	Performance Part
Item Dimensions (L x W x H)	10.25 x 5.1 x 4.75 inches
Item Weight	3.1 Pounds
UPC	756122005033
Automotive Fit Type	Vehicle Specific Fit

9. Warranty and Support

For warranty information or technical support regarding your Ford Racing M-6880-M501 Oil Filter Adapter Kit, please contact Ford Performance directly or the authorized dealer from whom you purchased the product. Keep your proof of purchase for any warranty claims.
Official Ford Performance Website: performance.ford.com

10. Video Resources

Currently, there are no official product videos from the seller available for this specific model. Please refer to the written instructions and diagrams for installation guidance.

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Manual Version: 1.0

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