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› [Dorman](#) /

› Dorman 090-175 Oil Drain Plug Pilot Point M12-1.75 Instruction Manual

Dorman 090-175

Dorman 090-175 Oil Drain Plug Instruction Manual

Model: 090-175

1. PRODUCT OVERVIEW

The Dorman 090-175 Oil Drain Plug is a direct replacement component designed to match the fit and function of an original equipment drain plug in various vehicles. This plug ensures a secure seal for the engine oil pan, preventing leaks and maintaining proper engine lubrication. It is engineered for reliable performance and durability.

Key features include:

- **Direct Replacement:** Engineered to match original equipment specifications.
- **Secure Seal:** Precisely matches thread pitch to prevent oil leaks.
- **Durable Construction:** Manufactured to strict specifications for long-lasting use.
- **Pilot Point Design:** Facilitates easier installation and reduces cross-threading risk.



Figure 1: Top-down view of the Dorman 090-175 Oil Drain Plug, showing the hexagonal head and pilot point.

2. SAFETY INFORMATION

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

- Wear appropriate personal protective equipment, including safety glasses and gloves.
- 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 oil to cool down before draining to prevent burns.
- Dispose of used oil and oil filters responsibly according to local regulations.
- Keep children and pets away from the work area.
- Refer to your vehicle's service manual for specific procedures and torque specifications.

3. PACKAGE CONTENTS

Each package of Dorman 090-175 Oil Drain Plugs contains:

- 10 x Dorman 090-175 Oil Drain Plugs

4. SPECIFICATIONS

Attribute	Detail
Part Number	090-175

Thread Size	M12-1.75
Head Size	15mm
Material	Steel
Color	Silver
Item Weight (each)	Approximately 0.094 lbs
Product Dimensions (for 10-pack)	Approximately 2.19 x 2.38 x 3.63 inches
OEM Part Numbers	323538; 7005-2; 11519933; 1151A78J01; 11562588; 9L8Z6730A; AJ813123; CA6010404; CY0110404; GY0110404; ZZC410404



Figure 2: Side view of the Dorman 090-175 Oil Drain Plug, illustrating the integrated washer and thread design.

5. INSTALLATION INSTRUCTIONS

This section outlines the general procedure for replacing an engine oil drain plug. Always consult your vehicle's specific service manual for detailed instructions and torque specifications.

Required Tools:

- Socket wrench or combination wrench (15mm for this plug)
- Torque wrench
- Oil drain pan
- Funnel
- New engine oil (refer to vehicle specifications)
- New oil filter (recommended during oil change)
- Safety glasses and gloves
- Jack and jack stands or vehicle lift

Procedure:

1. **Prepare the Vehicle:** Park the vehicle on a level surface. Engage the parking brake. If necessary, raise the vehicle using a jack and secure it with jack stands.
2. **Locate Drain Plug:** Place the oil drain pan directly beneath the engine oil pan's drain plug.
3. **Remove Old Plug:** Using the appropriate wrench (15mm for the Dorman 090-175), carefully loosen and remove the old oil drain plug. Allow all old oil to drain completely into the pan.
4. **Inspect and Clean:** Once the oil has drained, clean the area around the drain plug opening on the oil pan. Inspect the oil pan threads for any damage.
5. **Install New Plug:** Thread the Dorman 090-175 Oil Drain Plug into the oil pan by hand to ensure it starts correctly and avoids cross-threading. The pilot point design assists in this step.
6. **Torque to Specification:** Using a torque wrench, tighten the drain plug to the vehicle manufacturer's specified torque.
Overtightening can damage the oil pan threads, while undertightening can lead to leaks.
7. **Refill Oil:** Replace the oil filter (if performing an oil change). Lower the vehicle if it was raised. Refill the engine with the correct type and amount of new engine oil as specified by your vehicle manufacturer.
8. **Check for Leaks:** Start the engine and let it run for a few minutes. Turn off the engine and check for any oil leaks around the new drain plug.

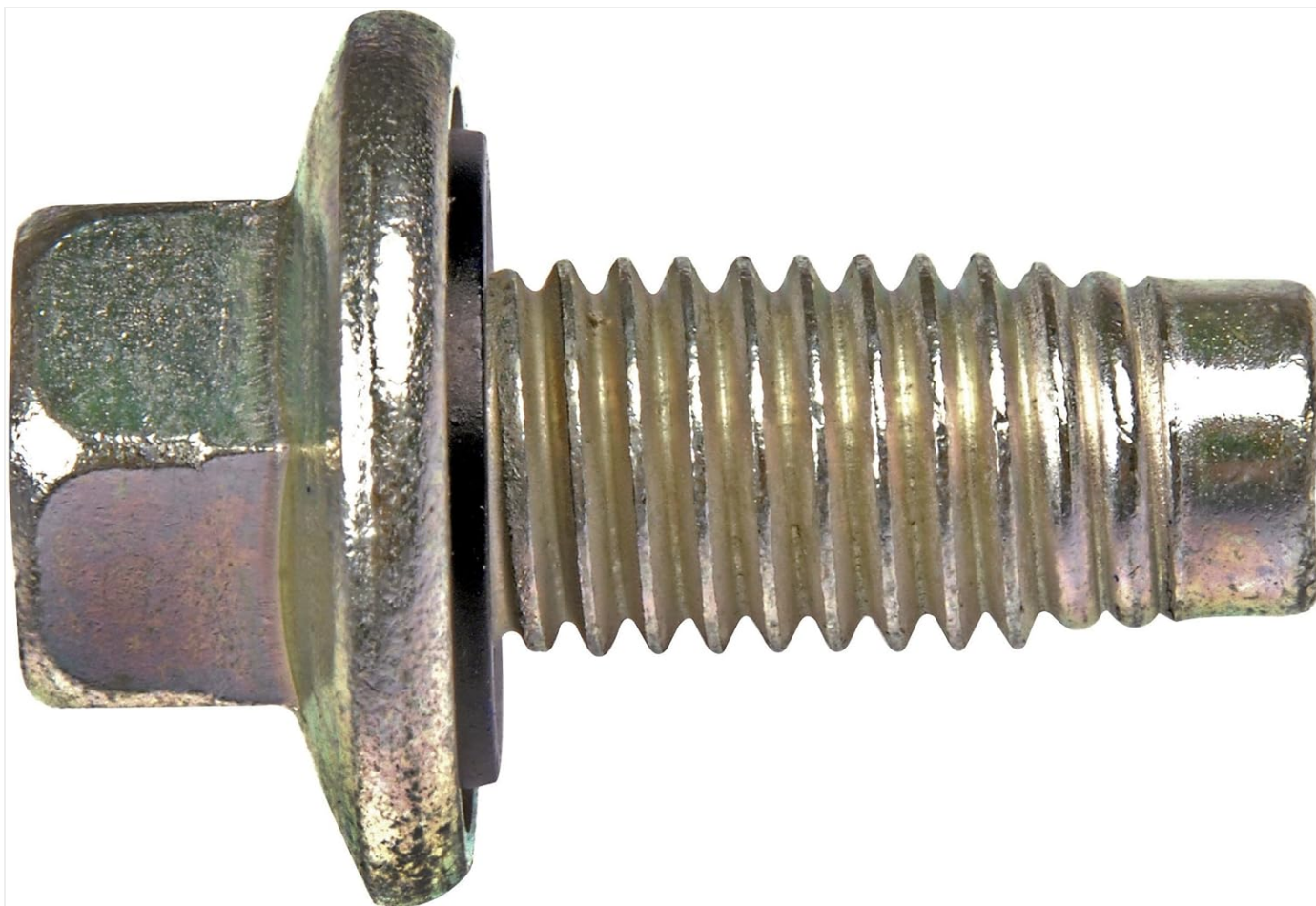


Figure 3: Close-up side view of the Dorman 090-175 Oil Drain Plug, highlighting the thread and pilot point for easy installation.

6. OPERATION

The Dorman 090-175 Oil Drain Plug functions as a critical component in your vehicle's engine oil system. Once correctly installed, it seals the oil pan, retaining engine oil and preventing leakage. Its primary role is to facilitate the draining of old engine oil during routine oil changes and to securely seal the oil pan until the next service interval.

7. MAINTENANCE

Regular maintenance of your oil drain plug is crucial for preventing oil leaks and ensuring engine health:

- **Visual Inspection:** During every oil change, visually inspect the drain plug and the surrounding area of the oil pan for any signs of oil leakage, corrosion, or damage.
- **Washer Condition:** The Dorman 090-175 drain plug often comes with an integrated or separate washer. Ensure this washer is in good condition. If it's a crush washer, it should be replaced with each oil change to ensure a proper seal.
- **Thread Integrity:** Check the threads of the drain plug for any signs of wear or damage. If threads are stripped or damaged, the plug must be replaced.
- **Proper Torque:** Always ensure the drain plug is tightened to the manufacturer's specified torque. Incorrect torque is a common cause of leaks or damage to the oil pan.

8. TROUBLESHOOTING

Issue: Oil Leak from Drain Plug Area

- **Cause:** Drain plug not tightened to specification.

Solution: Carefully re-torque the drain plug to the vehicle manufacturer's recommended specification using a torque wrench. Do not overtighten.

- **Cause:** Damaged or worn washer/gasket.

Solution: If the plug uses a separate crush washer, replace it with a new one. If the washer is integrated, inspect the plug for damage and replace the entire plug if necessary.

- **Cause:** Stripped threads on the oil pan or drain plug.

Solution: If the drain plug threads are stripped, replace the plug. If the oil pan threads are stripped, a repair kit (e.g., oversized plug, thread repair kit) or oil pan replacement may be required. Consult a professional mechanic.

- **Cause:** Incorrect drain plug size or thread pitch.

Solution: Verify that the Dorman 090-175 (M12-1.75) is the correct size and thread pitch for your specific vehicle model. Refer to your vehicle's service manual or a reliable parts catalog.

Issue: Difficulty Installing Drain Plug

- **Cause:** Cross-threading.

Solution: Always start threading the drain plug by hand to ensure it engages correctly. The pilot point design of the Dorman 090-175 helps prevent this. If resistance is felt, stop, unthread, and restart carefully. Never force the plug.

- **Cause:** Damaged oil pan threads.

Solution: Inspect the oil pan threads for damage. If damaged, professional repair or replacement of the oil pan may be necessary.

9. WARRANTY AND SUPPORT

For specific warranty information regarding your Dorman 090-175 Oil Drain Plug, please refer to the official Dorman Products website or contact Dorman customer support directly. Dorman products are backed by a team of product experts with over a century of automotive experience.

Dorman Customer Support:

- **Website:** www.dormanproducts.com
- **Contact Information:** Refer to the website for current contact methods (phone, email, etc.).

When contacting support, please have your product model number (090-175) and purchase details available.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question