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Monroe DX31

Monroe DX31 Total Solution Semi-Metallic Brake Pad Instruction Manual

Model: DX31

1. Introduction

This manual provides essential information for the proper handling, installation, operation, and maintenance of your Monroe DX31 Total Solution Semi-Metallic Brake Pads. Adhering to these instructions will help ensure optimal performance and longevity of the product. For vehicle-specific procedures, always consult your vehicle's service manual.

2. Product Overview

The Monroe DX31 Total Solution Semi-Metallic Brake Pads are engineered to provide reliable stopping power. They feature an ultra-premium semi-metallic formula designed for consistent performance.

2.1 Key Features

- Vehicle-specific engineered designs that meet or exceed Original Equipment (OE) specifications.
- Ultra-premium rubberized shim technology to reduce noise during braking.
- Includes stainless steel noise elimination hardware (where applicable).
- Includes wire wear sensors (where applicable).
- Features sensory locking plate technology.
- Brake lubricant is included for installation (where applicable).

2.2 Product Components

The Monroe DX31 brake pad set typically includes four semi-metallic brake pads, designed for a single axle (front or rear, depending on application). Additional hardware and lubricant may be included as specified.



Figure 1: Four Monroe DX31 semi-metallic brake pads. Each pad features a dark backing plate with two mounting holes and a textured, grey friction material surface.

3. Safety Information

WARNING: Working on vehicle brake systems requires specialized knowledge and tools. Improper installation can lead to brake failure, serious injury, or death. It is highly recommended that brake pad replacement be performed by a qualified automotive technician.

- Always wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands before beginning any work.
- Never rely solely on a jack to support the vehicle.
- Brake dust may contain hazardous materials. Avoid inhaling brake dust and use appropriate cleaning methods.
- Dispose of old brake components according to local regulations.
- 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.

4. Installation

The following steps provide a general overview of brake pad installation. Always refer to your vehicle's specific service manual for detailed instructions and torque specifications.

1. **Prepare the Vehicle:** Park the vehicle on a level surface, engage the parking brake, and block the wheels not being worked on. Loosen lug nuts on the wheel to be removed.
2. **Lift and Secure:** Safely lift the vehicle and support it with jack stands. Remove the wheel.
3. **Remove Caliper:** Loosen and remove the caliper mounting bolts. Carefully slide the caliper off the rotor and support it to prevent strain on the brake hose. Do not let the caliper hang by the brake hose.
4. **Remove Old Pads:** Remove the old brake pads from the caliper bracket. Note their orientation.
5. **Inspect Components:** Inspect the brake rotor for wear, scoring, or cracks. Inspect the caliper and caliper bracket for damage or wear. Clean all components thoroughly.
6. **Install New Hardware:** Install any new hardware (shims, clips) provided with the Monroe DX31 pads onto the caliper bracket. Apply a thin layer of brake lubricant to contact points as directed by your vehicle's manual.
7. **Install New Pads:** Install the new Monroe DX31 brake pads into the caliper bracket, ensuring correct orientation.
8. **Retract Piston:** Use a suitable tool to retract the caliper piston(s) to accommodate the new, thicker brake pads. Open the brake fluid reservoir cap before retracting pistons.
9. **Reinstall Caliper:** Carefully slide the caliper back over the new pads and rotor. Reinstall and torque the caliper mounting bolts to the manufacturer's specifications.
10. **Reassemble:** Reinstall the wheel and hand-tighten lug nuts. Lower the vehicle and torque lug nuts to specifications.
11. **Pump Brakes:** Before driving, slowly pump the brake pedal several times until a firm pedal is achieved. Check the brake fluid level and top off if necessary.

5. Operating Instructions

5.1 Brake Pad Break-In (Bedding-In)

New brake pads require a proper break-in procedure to ensure optimal performance and longevity. This process, known as "bedding-in," transfers a thin layer of friction material to the rotor surface.

1. Drive the vehicle at a moderate speed (e.g., 30-40 mph).
2. Apply the brakes moderately (not aggressively) to slow down to about 10 mph. Do not come to a complete stop.
3. Repeat this process approximately 5-7 times, allowing a short cooling period between applications.
4. After the initial series of stops, drive for several minutes without braking to allow the pads and rotors to cool completely.
5. Avoid hard braking or prolonged braking (e.g., down a long hill) for the first 200-300 miles after installation.

5.2 Normal Operation

Once properly bedded-in, your Monroe DX31 brake pads should provide consistent and reliable stopping power. Expect a firm and responsive brake pedal feel. Slight variations in brake feel or sound may occur during the initial break-in period.

6. Maintenance

Regular inspection of your brake system is crucial for safety and performance.

- **Routine Inspection:** Inspect brake pads, rotors, calipers, and brake fluid level at least every 12,000 miles or

annually, or as recommended by your vehicle manufacturer.

- **Pad Wear:** Replace brake pads when the friction material wears down to the minimum thickness specified by your vehicle manufacturer, typically around 2-3mm. Many pads include wear indicators that produce a squealing sound when replacement is needed.
- **Rotor Condition:** Ensure rotors are free from deep grooves, cracks, or excessive runout. Rotors may need to be resurfaced or replaced when installing new pads.
- **Brake Fluid:** Check brake fluid for proper level and condition. Replace brake fluid according to your vehicle manufacturer's recommendations.

7. Troubleshooting

If you experience any issues with your braking system, consult a qualified technician immediately.

Symptom	Possible Cause	Action
Squealing/Screeching Noise	New pads not properly bedded-in, worn pads (wear indicator), improper installation (lack of lubricant on contact points, missing shims), glazed rotors/pads, foreign material.	Perform break-in procedure. Inspect pads for wear. Re-lubricate contact points. Check for proper shim installation. Inspect rotors for glazing. Consult a technician.
Grinding Noise	Severely worn pads (metal-on-metal contact), foreign object lodged in caliper.	Immediately inspect brake pads and rotors. Replace worn components. Remove foreign objects. Do not drive the vehicle until inspected.
Reduced Braking Performance	Improper break-in, contaminated pads, air in brake lines, worn master cylinder, brake fluid leak.	Re-evaluate break-in procedure. Inspect for fluid leaks. Bleed brake system. Consult a technician for diagnosis.
Vibration During Braking	Warped or unevenly worn rotors, loose caliper components.	Inspect rotors for runout or thickness variation. Check caliper mounting. Consult a technician.

8. Specifications

- **Brand:** Monroe
- **Model Number:** DX31
- **Material:** Semi-Metallic friction material, Stainless Steel hardware (where applicable)
- **Auto Part Position:** Rear (as per product data, verify for specific application)
- **Vehicle Service Type:** Truck (as per product data, verify for specific application)
- **Specification Met:** OEM
- **Item Weight:** Approximately 1.9 pounds
- **Product Dimensions:** Approximately 7.6 x 6.9 x 2.6 inches
- **UPC:** 048598970008

9. Warranty Information

Monroe brake pads are backed by a manufacturer's warranty. For specific details regarding warranty coverage,

terms, and conditions, please refer to the documentation included with your purchase or visit the official Monroe website. Keep your proof of purchase for warranty claims.

10. Support

For technical assistance, product inquiries, or further support, please contact Monroe customer service. You can typically find contact information on the product packaging or on the official Monroe website: www.monroe.com.

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