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## Monroe DX820

# Monroe DX820 Total Solution Semi-Metallic Brake Pad User Manual

Model: DX820

## PRODUCT OVERVIEW

The Monroe DX820 Total Solution Semi-Metallic Brake Pad set is engineered to provide reliable stopping performance for your vehicle. These brake pads feature an ultra-premium semi-metallic formula designed for durability and consistent braking.



Image: Four Monroe DX820 semi-metallic brake pads are displayed, along with the associated installation hardware clips. The pads are black with "MONROE" and "DX820 MON264EE" visible on them. The metal clips are small, silver-colored, and varied in shape, scattered below the pads.

## Key Features:

- **Vehicle Specific Engineered Designs:** Designed to meet or exceed Original Equipment (OE) specifications for a precise fit and optimal performance.
- **Ultra-Premium Rubberized Shim Technology:** Incorporates advanced shim technology to effectively reduce noise during braking.

- **Comprehensive Hardware Inclusion:** Where applicable, includes stainless steel noise elimination hardware, wire wear sensors, sensory locking plate technology, and brake lubricant for a complete installation.

## INSTALLATION (SETUP)

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Installation of brake components requires specialized tools and knowledge. It is highly recommended that brake pad replacement be performed by a certified automotive technician. Improper installation can lead to brake system failure, resulting in serious injury or death.

### General Installation Guidelines (for qualified technicians):

1. **Safety First:** Ensure the vehicle is securely lifted and supported on jack stands. Disconnect the battery if working near electrical components.
2. **Inspect Components:** Before installation, thoroughly inspect the brake rotors, calipers, and other related components for wear, damage, or corrosion. Replace any worn or damaged parts.
3. **Clean Surfaces:** Clean all caliper and bracket mounting surfaces, ensuring they are free of rust and debris.
4. **Lubrication:** Apply a thin layer of high-temperature brake lubricant to caliper slide pins and any metal-to-metal contact points as specified by the vehicle manufacturer. Do not apply lubricant to the friction material.
5. **Install Hardware:** Install new hardware clips (included where applicable) onto the caliper bracket.
6. **Pad Placement:** Carefully install the new Monroe DX820 brake pads into the caliper bracket, ensuring they slide freely.
7. **Reassembly:** Reassemble the brake caliper and secure all bolts to the manufacturer's specified torque settings.
8. **Brake Fluid:** Check the brake fluid reservoir level and top off if necessary. Do not overfill.
9. **Pump Brakes:** Before driving, slowly pump the brake pedal several times until a firm pedal is achieved. This will seat the pads against the rotors and restore proper pedal feel.

*Always refer to your vehicle's specific service manual for detailed, model-specific installation instructions and torque specifications.*

## USAGE AND BREAK-IN PROCEDURE

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Proper break-in (also known as bedding-in) of new brake pads is crucial for optimal performance, longevity, and noise reduction. This process helps transfer a thin, even layer of friction material to the rotor surface.

### Recommended Break-In Procedure:

1. **Initial Stops:** From approximately 30 mph (48 km/h), make 5-6 moderate stops, allowing the vehicle to slow down to about 5-10 mph (8-16 km/h) without coming to a complete stop. Avoid hard braking during this phase.
2. **Cool Down:** Drive for several minutes at a moderate speed without applying the brakes to allow the pads and rotors to cool down. Avoid prolonged braking or coming to a complete stop with hot brakes, as this can imprint pad material unevenly on the rotor.
3. **Repeat:** Repeat the process of 5-6 moderate stops followed by a cool-down period.
4. **Final Stops:** After the second cool-down, perform 2-3 harder stops from a higher speed (e.g., 40-50 mph or 64-80 km/h) to near-stop, again allowing for a cool-down period.

During the break-in period, you may notice a slight burning smell or some smoke from the brakes. This is normal. Avoid sudden, aggressive braking or emergency stops for the first 200-300 miles (320-480 km) after installation to allow the pads to fully seat.

## MAINTENANCE

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Regular inspection and maintenance of your brake system are essential for safety and performance. While Monroe DX820 brake pads are designed for durability, they are part of a larger system that requires attention.

## Recommended Maintenance Practices:

- Regular Inspections:** Have your brake system inspected by a qualified technician at least once a year, or every 12,000 miles (19,000 km), whichever comes first.
- Pad Wear Check:** Monitor brake pad thickness. Most pads have wear indicators that produce a squealing sound when they are nearing the end of their lifespan.
- Brake Fluid Check:** Regularly check your brake fluid level and condition. Brake fluid should be clear and free of contaminants. Consult your vehicle's manual for recommended fluid replacement intervals.
- Rotor Condition:** Inspect brake rotors for excessive wear, scoring, or warping. Rotors should be resurfaced or replaced as needed when replacing pads.
- Caliper Function:** Ensure brake calipers are moving freely and not seizing. Sticky calipers can cause uneven pad wear and reduced braking performance.
- Cleanliness:** Keep brake components clean from excessive dirt, dust, and road grime.

## TROUBLESHOOTING COMMON ISSUES

While Monroe DX820 brake pads are designed for high performance, certain issues can arise with any brake system. Here are some common problems and potential causes:

Symptom	Possible Cause	Resolution
<b>Squealing/Screeching Noise</b>	New pad break-in, worn pads (wear indicator), improper installation, glazed rotors, foreign material.	Perform break-in procedure. Inspect pads for wear. Re-install correctly with proper lubrication. Inspect/resurface rotors. Clean brake assembly.
<b>Grinding Noise</b>	Severely worn pads (metal-on-metal contact), foreign object lodged in caliper.	Immediately inspect and replace worn pads and potentially damaged rotors. Remove foreign object.
<b>Vibration/Pulsation</b>	Warped rotors, uneven pad wear, loose wheel bearings, suspension issues.	Inspect and resurface or replace rotors. Check for proper pad seating. Have suspension and bearings inspected.
<b>Soft/Spongy Pedal</b>	Air in brake lines, low brake fluid, faulty master cylinder, leaking brake line/caliper.	Bleed brake system. Check fluid level and for leaks. Inspect master cylinder. Seek professional diagnosis.
<b>Brake Fade</b>	Overheated pads/rotors due to aggressive driving or heavy loads, improper pad material.	Allow brakes to cool. Adjust driving style. Ensure correct pad type for vehicle/driving conditions.

*If you experience any persistent brake issues, it is crucial to have your vehicle inspected by a qualified mechanic immediately.*

## SPECIFICATIONS

Attribute	Detail

Attribute	Detail
<b>Brand</b>	Monroe
<b>Model Number</b>	DX820
<b>Material</b>	Semi-Metallic
<b>Auto Part Position</b>	Rear
<b>Specification Met</b>	OEM
<b>Item Weight</b>	6.25 pounds (2.83 kg)
<b>Product Dimensions</b>	10.1 x 7.6 x 2.6 inches (25.65 x 19.3 x 6.6 cm)
<b>Manufacturer Part Number</b>	DX820
<b>UPC</b>	048598974068
<b>ASIN</b>	B0016J8LPK
<b>Date First Available</b>	September 20, 2007

## WARRANTY INFORMATION

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Specific warranty terms for Monroe DX820 Total Solution Semi-Metallic Brake Pads are provided by the manufacturer, Monroe. Warranty coverage typically includes defects in materials and workmanship under normal use and service.

For detailed warranty information, including coverage period, limitations, and claims procedures, please refer to the official Monroe website or contact Monroe customer service directly. Keep your proof of purchase for any warranty claims.

## SUPPORT AND CONTACT

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For technical assistance, product inquiries, or support regarding your Monroe DX820 brake pads, please contact Monroe customer service.

- **Manufacturer Website:** Visit the official Monroe website for product information, FAQs, and contact details.
- **Professional Assistance:** For installation or complex troubleshooting, always consult a certified automotive technician.

You can also find more information about Monroe products on their official Amazon store [Monroe Amazon Store](#).