

## TRW MSW201

# TRW MSW201 Brake Discs Instruction Manual

Model: MSW201

## 1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your TRW MSW201 Brake Discs. Please read these instructions thoroughly before beginning any work to ensure safety and optimal performance. TRW brake discs are engineered for reliable braking performance in automotive applications.

## 2. SAFETY INFORMATION

**WARNING:** Improper installation or maintenance of brake components can lead to serious injury or death. Always consult a qualified mechanic if you are unsure about any procedure.

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands before working underneath it.
- Allow brake components to cool completely before handling.
- Use only specified tools and torque settings.
- Keep brake fluid away from painted surfaces and skin.
- Dispose of old brake components and fluids responsibly according to local regulations.

## 3. INSTALLATION INSTRUCTIONS

The following steps outline the general procedure for installing TRW MSW201 brake discs. Specific vehicle service manuals should be consulted for detailed, vehicle-specific instructions and torque specifications.

### 3.1. Preparation

1. Park the vehicle on a level surface and engage the parking brake.

2. Loosen the lug nuts on the wheel(s) where the brake discs will be replaced.
3. Raise the vehicle using a jack and secure it with jack stands.
4. Remove the wheel(s).

### 3.2. Removal of Old Brake Disc

1. Remove the brake caliper mounting bolts and carefully lift the caliper off the disc. Support the caliper to prevent strain on the brake hose. Do not let it hang by the hose.
2. Remove the brake pads from the caliper bracket.
3. Remove the caliper bracket mounting bolts and remove the bracket.
4. Remove any retaining screws or clips holding the old brake disc to the hub.
5. Carefully remove the old brake disc from the wheel hub. If it is seized, use a rubber mallet to tap it loose.

### 3.3. Installation of New TRW MSW201 Brake Disc

1. Clean the wheel hub mounting surface thoroughly with a wire brush to remove any rust or debris. This is crucial for proper disc seating.
2. Place the new TRW MSW201 brake disc onto the wheel hub, ensuring it sits flush against the mounting surface.
3. Reinstall any retaining screws or clips for the brake disc.
4. Reinstall the caliper bracket and tighten its mounting bolts to the manufacturer's specified torque.
5. Install new brake pads into the caliper bracket.
6. Carefully slide the brake caliper over the new pads and disc. Reinstall the caliper mounting bolts and tighten them to the manufacturer's specified torque.
7. Repeat the process for all brake discs being replaced.

### 3.4. Post-Installation

1. Reinstall the wheels and hand-tighten the lug nuts.
2. Lower the vehicle and fully tighten the lug nuts to the manufacturer's specified torque in a star pattern.
3. Pump the brake pedal several times until a firm pedal feel is achieved. This will seat the brake pads against the new discs.
4. Check the brake fluid level and top up if necessary.
5. Perform a brake bedding-in procedure as recommended by the brake pad manufacturer. This typically involves a series of moderate stops from varying speeds to properly transfer pad material to the disc surface.

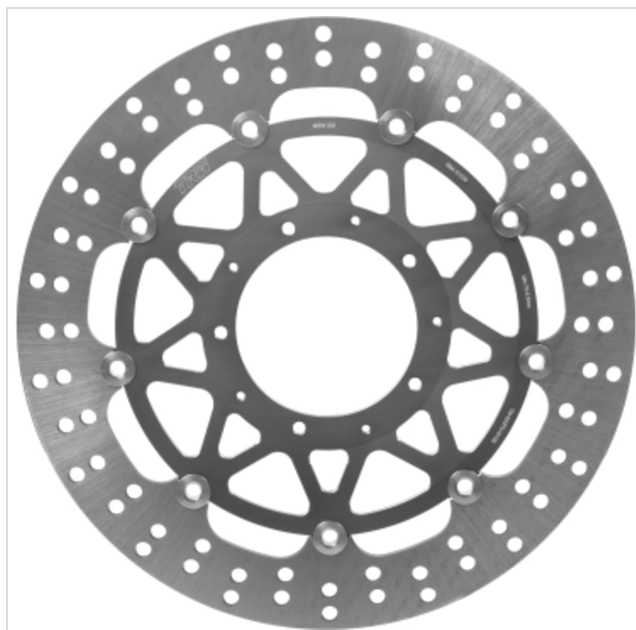


Figure 1: TRW MSW201 Brake Disc. This image displays the front view of the brake disc, highlighting its perforated design and central

## 4. OPERATION

TRW MSW201 brake discs function as a critical component of your vehicle's braking system. When the brake pedal is pressed, the brake pads clamp onto the rotating disc, creating friction that slows and stops the vehicle. Proper installation and maintenance ensure optimal braking performance and safety.

## 5. MAINTENANCE

Regular inspection of your brake discs is essential for safety and longevity.

- **Visual Inspection:** Periodically check the brake discs for signs of wear, such as deep grooves, cracks, or excessive rust.
- **Thickness Measurement:** Measure the disc thickness at regular intervals. Replace the disc if it falls below the minimum thickness specification (refer to Section 7).
- **Run-out Check:** Check for disc run-out (wobble) using a dial indicator. Excessive run-out can cause vibrations and uneven pad wear.
- **Cleaning:** Keep brake components clean from dirt, oil, and grease. Use a dedicated brake cleaner if necessary.
- **Brake Pad Replacement:** Always replace brake pads when installing new discs, and ensure pads are replaced before they wear down to the backing plate.

## 6. TROUBLESHOOTING COMMON ISSUES

Symptom	Possible Cause	Solution
Brake pedal pulsation or steering wheel vibration during braking	Warped or unevenly worn brake discs, excessive disc run-out, improper bedding-in.	Inspect discs for run-out and thickness. Replace discs if warped or below minimum thickness. Re-perform bedding-in procedure. Ensure proper installation.
Squealing or grinding noise	Worn brake pads, foreign material between pad and disc, improper pad installation, glazed discs.	Inspect and replace brake pads if worn. Clean discs and pads. Ensure proper installation of anti-squeal shims.
Reduced braking performance	Worn discs or pads, contaminated brake components, air in brake lines, improper bedding-in.	Inspect and replace worn components. Clean contaminated parts. Bleed brake system. Re-perform bedding-in.

If troubleshooting steps do not resolve the issue, consult a qualified automotive technician.

## 7. SPECIFICATIONS

Feature	Specification
Model	MSW201
Brand	TRW
Brake Disc Thickness	5 mm
Diameter	320 mm
Inner Diameter	94.2 mm
Weight	1.597 kg (per disc)
Material	Alloy Steel / Aluminum (carrier)
Color	Titanium (finish)
Vehicle Service Type	Cars

*Note: Always refer to your vehicle's service manual for specific minimum thickness requirements and other critical specifications.*

## 8. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or replacement parts for your TRW MSW201 Brake Discs, please refer to the official TRW website or contact your authorized TRW dealer. Keep your purchase receipt as proof of purchase.

**TRW Official Website:** [www.trwaftermarket.com](http://www.trwaftermarket.com)