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› Godspeed MMX2380 MAXX Coilovers Instruction Manual

## Godspeed MMX2380

# Godspeed MAXX Coilovers Instruction Manual

Model: MMX2380

## 1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Godspeed Project MAXX Coilovers. Designed for the 1985-1987 Toyota Corolla (AE86) RWD, these coilovers offer a balance between track-oriented performance and daily driving comfort. Please read this manual thoroughly before installation and use to ensure proper function and safety.

The Godspeed Project MAXX coilover system features 40 levels of damping adjustment, allowing for precise tuning from stiff to soft settings. Its mono-tube design, combined with high-quality materials like JIS seamless carbon steel and IP F.A. 5W damper oil, ensures durability and consistent performance under various driving conditions. Cold wound SAE9252 steel springs provide long-lasting resilience, while independent ride height adjustment via lower brackets maintains optimal shock travel for comfort.

### Compatibility:

- Vehicle: Toyota Corolla RWD (AE86)
- Model Years: 1985, 1986, 1987

## 2. KEY FEATURES

- **40 Precise Levels of Damper Adjustment:** Easily adjust damping from stiff to soft by twisting the knob.
- **Mono-tube Design:** Features an anodized shock body for enhanced performance and durability.
- **High-Quality Materials:** Lightweight aluminum shock components and T7075 forged aluminum/carbon steel brackets.
- **Optimized Shock Body:** 52 mm carbon steel shock body with a 44 mm internal piston.
- **Independent Adjustments:** Separate adjustments for ride height and spring pre-load.
- **Premium Damper Oil:** Italian IP F.A. made shock oil with a high viscosity index for consistent performance.
- **Front Camber Adjustable Plates:** Included where applicable for fine-tuning alignment.
- **Rebuildable Design:** Shock dampers can be rebuilt or replaced, with replacement parts available.

## 3. PRODUCT COMPONENTS OVERVIEW

The Godspeed MAXX Coilover kit includes the following main components:

- Front Coilover Assemblies (with adjustable camber plates)
- Rear Shock Absorbers
- Rear Coil Springs
- Adjustment Wrenches
- Associated Mounting Hardware



Figure 3.1: Overview of the Godspeed MAXX Coilover kit, showing front coilover assemblies, rear shocks, rear springs, and adjustment tools.



Figure 3.2: Detailed view of the front coilover's adjustable camber plate and damping adjustment knob, allowing for precise suspension tuning.



Figure 3.3: Detailed view of the rear coilover's standard top mount and damping adjustment knob.



Figure 3.4: The rear shock absorber and coil spring, designed for independent operation.



Figure 3.5: A comparison view of the front coilover assembly and the rear shock absorber, highlighting their distinct designs.



Figure 3.6: Close-up of the front coilover's main body and the robust lower mounting bracket.



Figure 3.7: The front coilover's lower mount integrated with the spindle, demonstrating the direct fitment design.



Figure 3.8: Another perspective of the front coilover, highlighting the spindle and lower mounting points for secure installation.

## 4. SETUP AND INSTALLATION

Installation of coilovers requires mechanical expertise and specialized tools. It is highly recommended that installation be performed by a qualified professional. Improper installation can lead to vehicle damage, poor performance, or safety hazards.

### General Guidelines:

- **Pre-Installation Check:** Prior to installation, verify all hardware is present and undamaged.
- **Spring Pre-load:** Ensure springs are preloaded to 10 mm as a starting point.
- **Tightening:** Properly tighten all fasteners to manufacturer specifications. Refer to your vehicle's service manual for torque values.
- **Alignment:** After installation, a professional wheel alignment is mandatory to ensure correct vehicle handling and tire wear, especially with adjustable camber plates.
- **Ride Height Adjustment:** Vehicle ride heights are adjusted with lower brackets to offer maximum shock travel. Adjust ride height before final tightening of suspension components. The kit lowers the vehicle from 30-60 mm; actual lowering may vary depending on the car chassis.

For detailed, vehicle-specific installation instructions, consult a professional mechanic or refer to a comprehensive service

manual for your Toyota Corolla AE86.

## 5. OPERATING AND ADJUSTMENT

Your Godspeed MAXX Coilovers offer adjustable damping and ride height to fine-tune your vehicle's performance and comfort.

### 5.1 Damping Adjustment

The coilovers feature 40 precise levels of damper adjustment. This allows you to customize the ride feel from soft (for comfort) to stiff (for track performance).

1. Locate the damping adjustment knob on the top of each coilover/shock absorber.
2. Turn the knob clockwise for stiffer damping and counter-clockwise for softer damping. Each click represents one level of adjustment.
3. Adjust all four corners evenly for balanced handling. Test different settings in a safe environment to find your preferred setup.

### 5.2 Ride Height Adjustment

Ride height is adjusted independently using the lower brackets, which ensures maximum shock travel regardless of ride height setting.

1. Safely lift the vehicle and support it on jack stands.
2. Loosen the locking collar on the lower bracket of the coilover.
3. Rotate the lower bracket to raise or lower the vehicle. Turn clockwise to lower, counter-clockwise to raise.
4. Once the desired height is achieved, securely tighten the locking collar.
5. Ensure all four corners are adjusted to achieve the desired stance and balance.

*Note:* After any ride height adjustment, a wheel alignment is recommended to maintain proper vehicle dynamics and tire wear.

## 6. MAINTENANCE

Regular maintenance will prolong the life and performance of your Godspeed MAXX Coilovers.

- **Regular Inspection:** Periodically inspect all components for signs of wear, damage, or corrosion. Check for loose bolts or nuts.
- **Cleaning:** Keep the coilovers clean from dirt, salt, and road debris. Use mild soap and water, then rinse thoroughly. Avoid harsh chemicals.
- **Lubrication:** Apply a thin layer of appropriate grease to threaded sections if they become difficult to adjust.
- **Rebuild/Replacement:** Shock dampers can be rebuilt or replaced when worn out. Contact Godspeed technical support for information on replacement cartridges or rebuild services.

## 7. TROUBLESHOOTING

If you experience issues with your coilovers, consider the following common troubleshooting steps:

- **Uneven Ride Height:**
  - Verify that all four coilovers are adjusted to the same height setting.
  - Check for proper spring pre-load on all units.
  - Ensure no components are binding or installed incorrectly.

- **Unusual Noises (Clunking, Squeaking):**

- Check all mounting bolts and nuts for proper torque.
- Inspect bushings and pillow ball mounts for wear or damage.
- Ensure springs are seated correctly and not rubbing against other components.

- **Poor Ride Quality (Too Stiff/Soft):**

- Adjust the damping settings. Refer to Section 5.1.
- Ensure damping settings are consistent across all four coilovers.
- Verify spring rates are appropriate for your vehicle's use.

- **Reduced Performance:**

- Check for signs of fluid leaks from the shock body, indicating a damaged seal.
- Inspect for bent or damaged shock shafts.
- Ensure proper wheel alignment has been performed after installation or adjustments.

If issues persist after troubleshooting, contact Godspeed technical support for further assistance.

## 8. SPECIFICATIONS

Attribute	Detail
Model Number	MMX2380
Compatibility	Toyota Corolla RWD (AE86) 1985-1987
Damping Levels	40 precise levels
Front Spring Rate	8 kg/mm (448 lbs/inch)
Rear Spring Rate	6 kg/mm (336 lbs/inch)
Shock Body Diameter	52 mm (JIS seamless carbon steel)
Internal Piston Diameter	44 mm
Damper Oil	Italian IP F.A. 5W (High Viscosity Index)
Spring Material	SAE9252 Steel (Cold Wound)
Ride Height Adjustment	Independent via lower brackets (30-60 mm lowering range)
Front Top Mount	Adjustable Camber Plate with Pillow Ball
Rear Top Mount	Standard Top Mount
Item Weight	49 pounds
Package Dimensions	32 x 20 x 9 inches

## 9. WARRANTY AND SUPPORT

Godspeed Project MAXX Coilovers come with a **12 Months Manufacturer Limited Warranty** from the date of purchase. This warranty covers parts only.

For technical assistance, questions regarding installation, or warranty claims, please contact Godspeed technical department. Our team is available to provide support and answer any questions you may have.

**Contact Information:** Please refer to the official Godspeed website or your purchase documentation for the most current contact details for technical support.