

# INSTALLATION INSTRUCTIONS



Platform

## Camaro Rear Trailing Arms

**PART NUMBER (PN): (2553,2550,2543,2540)(2555,2552,2542,2545)(2554,2551,2542,2544)**

### Technical Support

We strive to provide the utmost pre- and post-sales support for our products. Whether you just need upgrade advice, or assistance in adjusting or installing a product, our experienced support staff is always ready to help optimize your UMI product.

### CHAT WITH A UMI PROFESSIONAL TODAY

Need installation advice or clarification on the instructions? Scan the QR code (right) to chat directly with a UMI Professional or use the contact information provided to talk to customer service.

*Note: UMI social media accounts do not respond to customer service questions.*



### CONTACT CUSTOMER SERVICE

**Hours:** M-F 8:00-4:30 (EST)

**Email:** [support@umiperformance.com](mailto:support@umiperformance.com)

**Call:** +1 (814) 343-6315

**Address:** 509 Hemlock Street  
Philipsburg, PA 16866

### SOCIAL MEDIA

#umiequipped #umiperformance

@umiperformanceinc

### Parts Detailed In Instructions

Part Description	Quantity	PN
<b>Non-Adjustable</b>		
Rear Upper Control Arm	1 set	2553
Rear upper Trailing Arm	1 set	2550
Rear Lower Trailing Arm	1 set	2540
Rear Toe Rods	1 set	2543
<b>Adjustable - Rod End</b>		
Adj Upper Control Arm - Rod End	1 set	2555
Adj Rear upper Trailing Arm - Rod End	1 set	2552
Adj Rear Lower Trailing Arm - Rod End	1 set	2542
Adj Rear Toe Rods - Rod End	1 set	2545
<b>Adjustable - Roto-Joint</b>		
Adj Upper Control Arm - Roto	1 set	2554
Adj Rear upper Trailing Arm - Roto	1 set	2551
Adj Rear Lower Trailing Arm - Roto	1 set	2542
Adj Rear Toe Rods - Roto	1 set	2544

### Tools Needed



JACK



JACK STAND



SOCKET



RATCHET



WRENCH

## INSTALLATION INSTRUCTION

### DISCLAIMER

UMI Performance shall not be held liable for any injuries or damages resulting from the improper installation of this product. It is the sole responsibility of the user to ensure that the product is installed correctly and in accordance with all applicable laws, codes, and regulations. The user assumes all risk and liability for any injuries or damages that may arise from the improper installation of this product. It is important to follow these steps carefully and use the proper tools to avoid damaging the vehicle or causing injury to yourself. If you are uncertain about any part of the installation process, it is recommended that you seek the assistance of a professional mechanic.

**Installation Note:** UMI 6th Gen rear control arms are sold in pairs for each location on the rear suspension. Upper control arms, lower trailing arms, upper trailing arms and toe rods. All of these are sold in adjustable and non-adjustable versions. Adjustable versions are available with rod ends or Roto-Joint.

The following instructions detail the installation of the non adjustable arms but the process is identical for the adjustable versions with 1 exception. The length of the UMI adjustable arms will need to be set to match the factory OEM arms. This will set the rear alignment close to factory specs. It is highly recommended that the car then be taken to a 4 wheel alignment shop to be set to your desired specs. Step 3D outlines the process for setting the adjustable arms to factory length.

### STEP 1: Prepare

Organize and layout all necessary parts and hardware prior to beginning the installation process. Carefully review the components and tools required to ensure that all necessary items are present. Once confirmed, proceed to disassembly. Figure 1 shows the placement of each arm.

- 1) 2553 - Upper Control Arm
- 2) 2550 - Upper Trailing Arm
- 3) 2540 - Lower Trailing Arm
- 4) 2543 - Toe Rod

### STEP 2: Lifting and Supporting Vehicle

Park the Car on a flat level surface and place the transmission in park. Activate the parking brake and chock the Front wheels. Break the lugnuts loose on the driver side rear tire to prepare for the wheel being removed.

**IMPORTANT:** Do not remove lug nuts, just break them loose.

### STEP 3: Disassembly and Arm Replacement

A) Using a properly rated jack, lift the rear of the car using the factory jack points and install jack stands.

B) Remove Rear tires.

C) Start by removing the wheel speed sensor clips (Fig 2), and factory end link on the sway bar from the spindle. This will allow you to drop the spindle in a later step. It is a good idea to now grease all of the poly bushing faces using the included lubricant prior to assembling the car (Fig 3). This ensures proper lubrication and prevents damage, and or dry squeaks later.

D) Place a jack under the spindle to support its weight. Mark the rear toe rod location on the eccentric nut to help in the aid of alignment later (Fig 4).

## FIGURES FOR REFERENCE

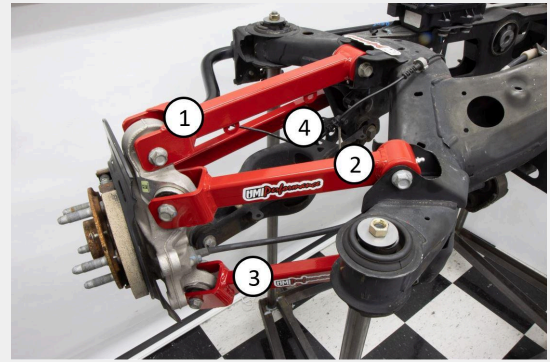


Figure 1: Wheel Speed Sensor Clips



Figure 2: Wheel Speed Sensor Clips



Figure 3: Bushing Lubrication

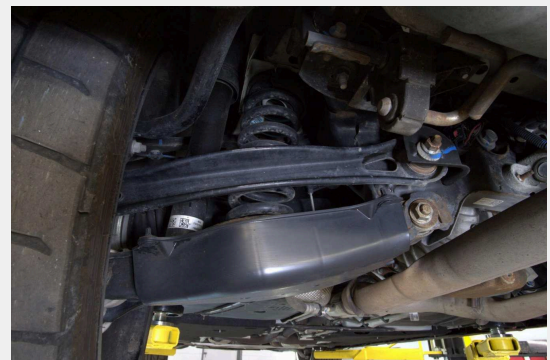


Figure 4: Mark Eccentric Nut

**NOTE:** If you are installing adjustable arms, you will need to set the new arms to factory length. Using a tape measure, measure the factory arm from bolt center to bolt center (Fig 5). Adjust arm until it's as close as possible to the factory arm and lock down the jam nuts (Fig 6). This will set the arms close but will need to be aligned at a reputable alignment shop.

Also, included with the adjustable arms, are adjustment lockout washers to delete the eccentric Bolt/Nut (Fig 7, 8) as well as a new bolt and nut. The eccentric is no longer needed with the adjustable toe rod.

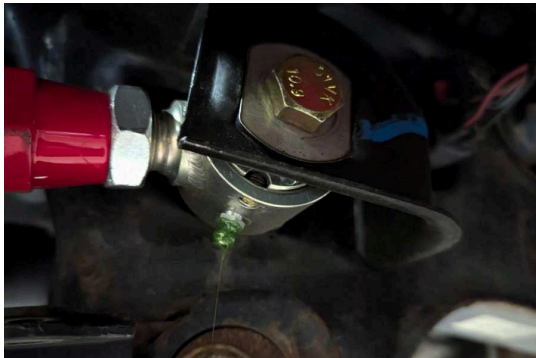


Figure 5: Eccentric Bolt Delete Washer



Figure 6: Eccentric Nut Delete Washer

**NOTE:** Included in the kit are several new bolts for the arms. Listed below is the location on the arm where the new bolt is used.

- Upper Control Arm: Spindle Side and Mount side
- Upper Trailing Arm: Spindle Side
- Toe Rod: Mount Side

E) Remove the rear Toe Rod and replace it with UMI P/N 2543. Leave hardware somewhat loose for ease of movement in later steps.

F) Remove rear lower trailing arm (Fig 7) and replace with UMI P/N 2540. Note that the Angled portion of the arm will be facing away from the center of the hub, Grease fitting facing down. Again Leave hardware slightly loose.



Figure 5



Figure 6

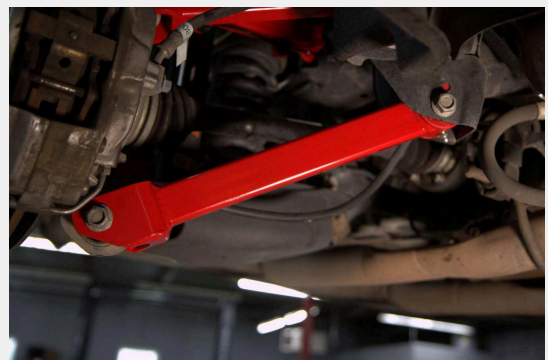


Figure 7

G) Loosen and remove the upper Control arm as well as the upper Trailing arm.

**Note:** Be mindful of the Wheel speed sensor as to not overextend, pinch or break the cable.

H) Re-install the upper Trailing arm first Umi P/N 2540. Angled portion of the arm will be facing away from the center of the hub; grease fitting facing down.

I) Reinstall Upper Control arm Umi P/N 2553 Angled portion of the arm will be facing away from the center of the hub. (Fig 8)

J) Using the supplied clips attach the Wheel speed sensor wire to the Upper Control Arm tabs.

K) Now that everything is installed go through and tighten all rear arm bolts to 70 ft/lbs. Re-install sway bar endlink to spindle and torque to manufacturer specs.

L) Grease all grease fittings no more than 2 pumps. We use a silicone based marine grease but any high quality automotive grease should suffice.

### Step 4: Swap Sides And Repeat

A) Repeat step 3 on the opposite side of the car.

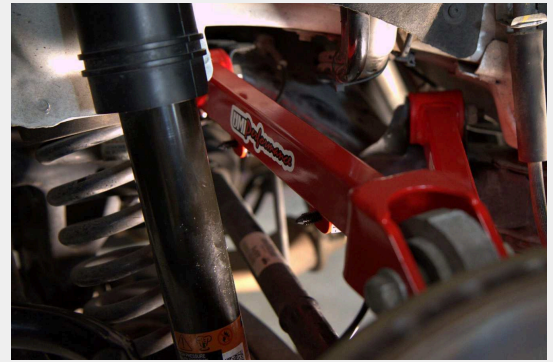


Figure 8