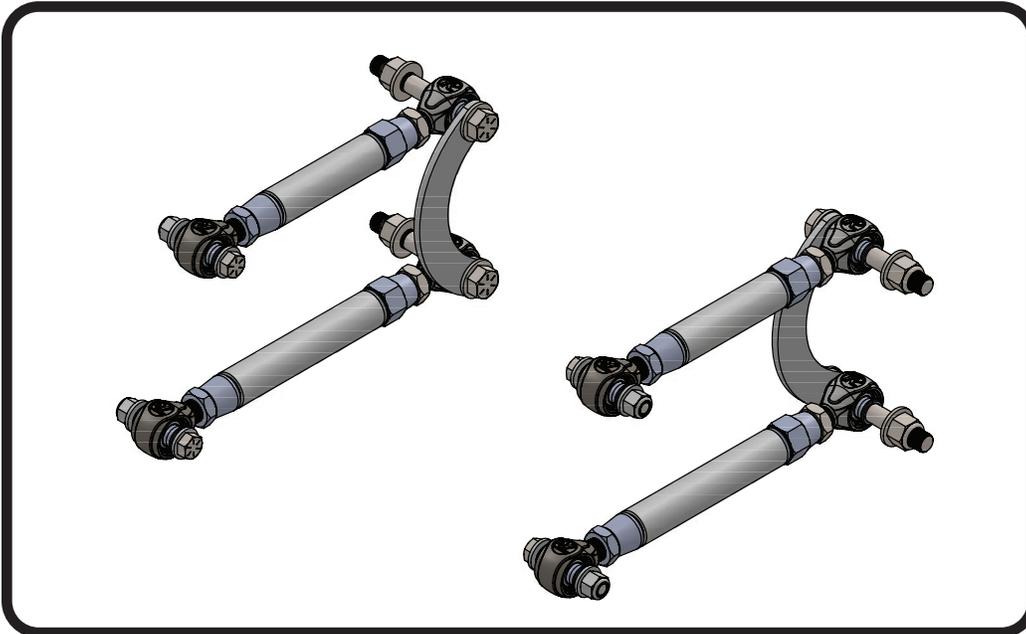
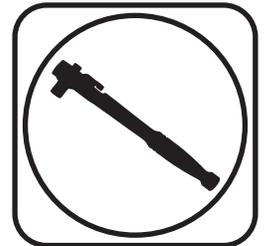




Part # 11567290 - 1989-1996 C4 Corvette R-Joint Trailing Arms



Recommended Tools



1989-1996 GM Corvette Rear R-Joint Trailing Arms

Installation Instructions

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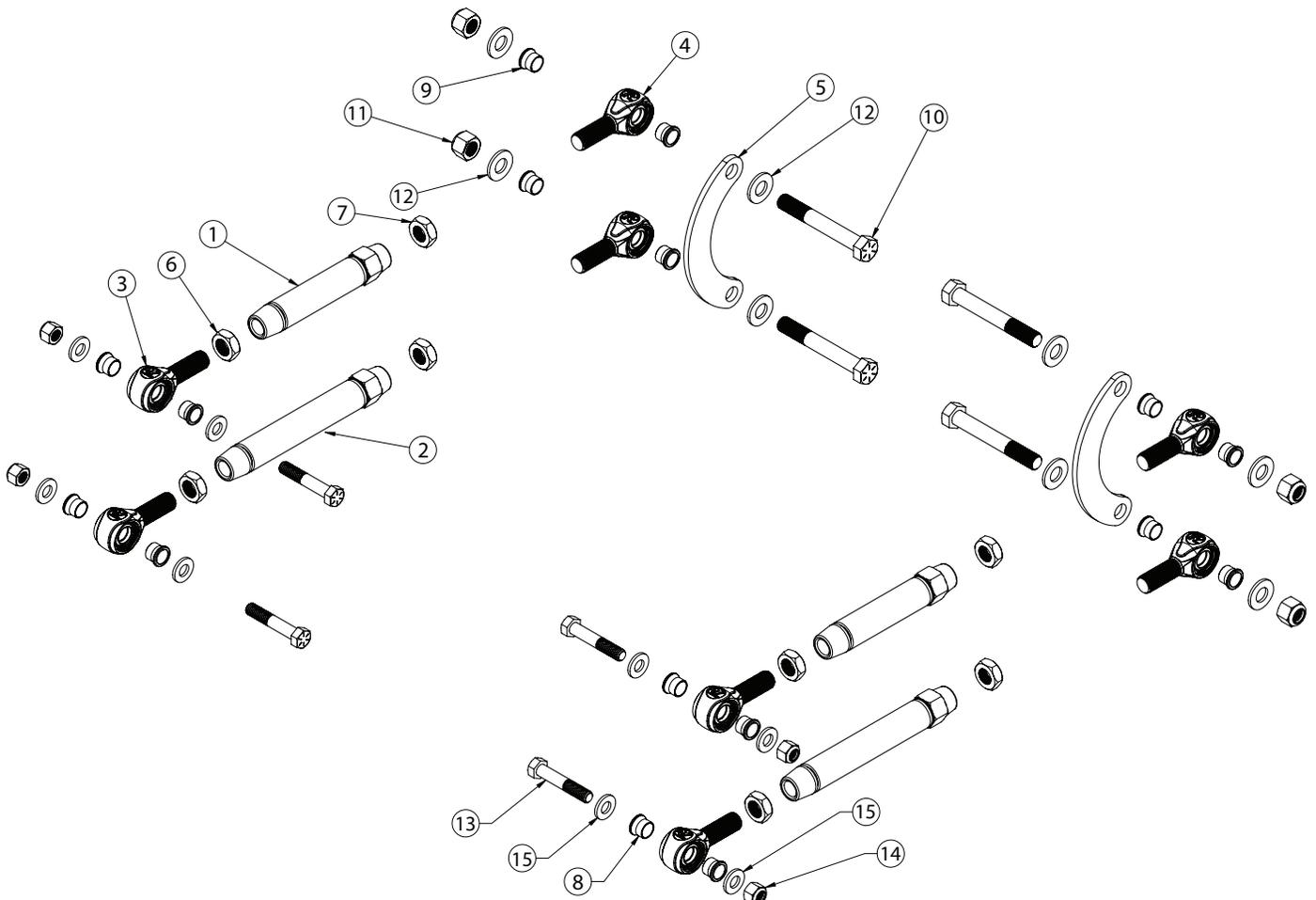


Included ComponentsIn the box

| Item # | Part # | Description | QTY |
|--------|----------|--------------------------------------|-----|
| 1 | 90003168 | Upper Trailing Arm - set to 10.875" | 2 |
| 2 | 90003169 | Lower Trailing Arm - set to 12.750" | 2 |
| 3 | 90001318 | Standard 3/4"-16 R-Joint - RH | 4 |
| 4 | 90001319 | Standard 3/4"-16 R-Joint - LH | 4 |
| 5 | 90003183 | Rear Trailing Arm Tie Plate | 2 |
| 6 | 99752004 | 3/4"-16 Jam Nut - RH | 4 |
| 7 | 99752006 | 3/4"-16 Jam Nut - LH | 4 |
| 8 | 70013949 | R-Joint Spacer - .500 ID x .620 Long | 8 |
| 9 | 70013545 | R-Joint Spacer - .625 ID x .563 Long | 8 |

Hardware ListIn the box

| Item # | QTY | Part Number | Description |
|--------------------------|-----|-------------|---------------------------|
| REAR TRAILING ARM | | | |
| 10 | 4 | 99621015 | 5/8"-18 x 4 1/2" Bolt |
| 11 | 4 | 99622001 | 5/8"-18 Nylok Nut |
| 12 | 8 | 99623001 | 5/8" SAE Flat Washer |
| 13 | 4 | 99501064 | 1/2"-13 X 2 3/4" Hex Bolt |
| 14 | 4 | 99502009 | 1/2"-13 Nylok Nut |
| 15 | 8 | 99503014 | 1/2" SAE Flat Washer |

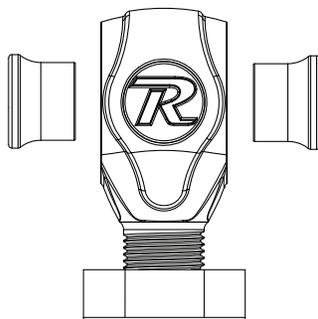




R-JOINT SPACER INSTALLATION

Install the Spacers by inserting the SMALL side of the SPACER into the Center Pivot Ball. Push them in until they bottom out and stop.

TRAILING ARM R-JOINTS



New R-Joints will be quite stiff (75-90 in/lbs breakaway torque) until they "break in" after a few miles of use. After the break in period they will move much more freely. Because the composite bearing race contains self lubricating ingredients, no additional lubrication is needed or desired. Any additional lubrication will only serve to attract more dirt and debris to the R-Joint and actually shorten its life.

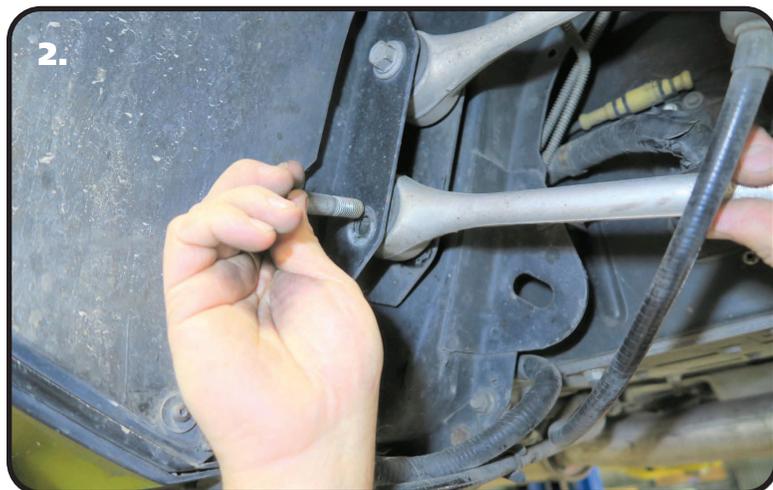
Getting Started.....

Congratulations on your purchase of the Ridetech C4 Corvette Rear R-Joint Trailing Arms. These Trailing Arms have been designed to give your C4 Corvette excellent handling along with a lifetime of enjoyment. Some of the key features of the Trailing Arms: R-Joints are used to eliminate bushing deflection along with providing bind-free suspension movement through the entire travel. The R-Joints are made from a material that is self lubricating, so no lubrication is needed.

THIS KITS CONTAINS 2 DIFFERENT LENGTH TRAILING ARMS. THE SHORTER TRAILING ARM WILL BE INSTALLED ON THE TOP, THE LONGER TRAILING ARM WILL BE INSTALLED ON THE BOTTOM. WE INSTALL ONE ARM AT A TIME TO MAKE THE INSTALLATION EASIER.

1. Raise the vehicle up to a comfortable work height. You will need to support the car by the frame, allowing the suspension to hang freely. We also supported the hub/knuckle during installation of the new trailing arms.

Disassembly



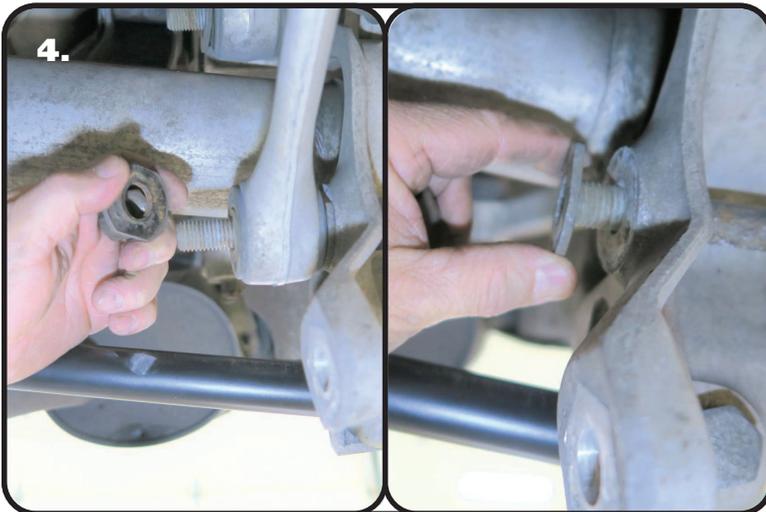
2. Start by removing the front mounting bolt for the lower trailing arm.



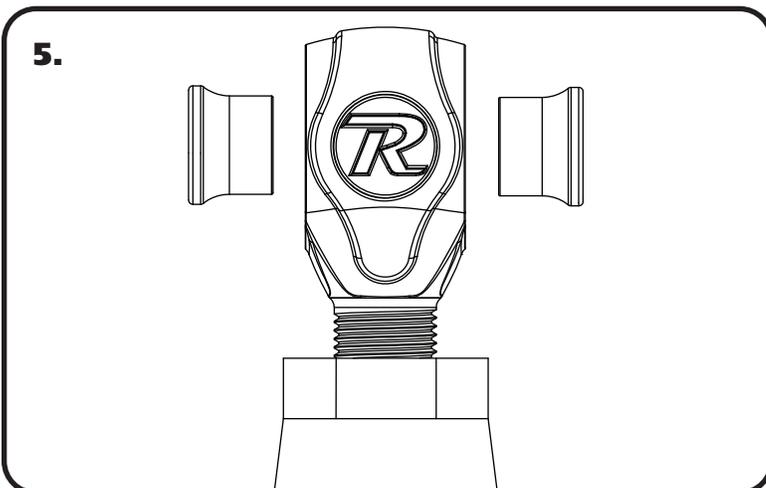
Disassembly



3. Remove the mounting hardware for the rear lower trailing arm. **Retain the OEM washers that are on each side of the trailing arm bushings, they will be reused during the installation of the new trailing arm.** The nut and bolt will be replaced with new ones that are included in the kit.



4. Again, retain the OEM washers that are on each side of the OEM bushing.



5. Insert the 1/2" ID R-joint spacers into one end of the longer bars. Install the Spacers by inserting the SMALL side of the SPACER into the Center Pivot Ball. Push them in until they bottom out and stop.

NOTE: The direction of the hex on the trailing arms isn't critical. Install them in the orientation that best fits your needs in case you need to adjust them.



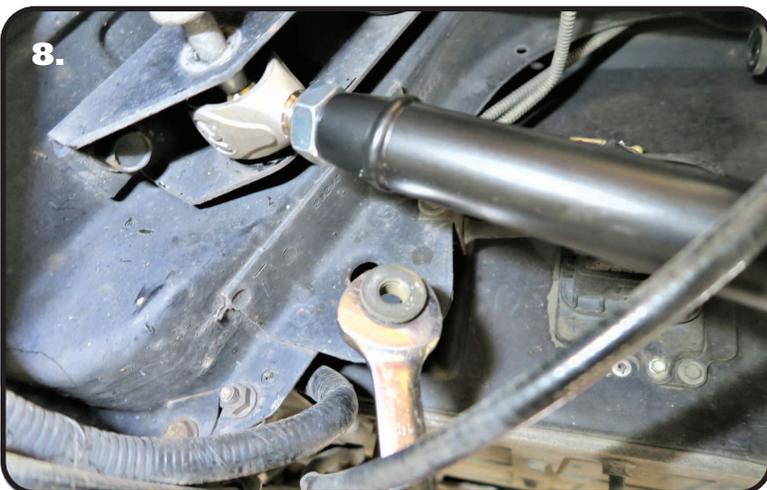
R-Joint Trailing Arm Installation



6. Insert the R-joint with the 1/2" ID spacers installed into the front mount.



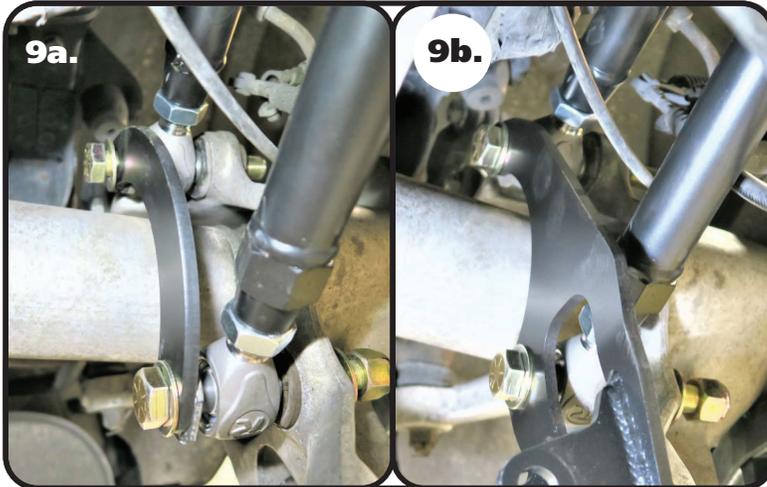
7. Line up the thru hole of the R-joint with the mounting holes in the front mount. Install a 1/2" flat washer on a 1/2"-13 x 2 3/4" hex bolt and insert in through the lined up holes. Push the bolt in far enough to get through the inner mount, but do NOT push it all the way in. You need just enough bolt sticking through to get a 1/2" flat washer on the threads.



8. Install a 1/2" flat washer on the threads of the bolt. Put a 1/2"-13 nylok nut in the open end of a 3/4" wrench. You need to use the open end to be able to get the wrench out after installing the nut. Hold the nut in position with the wrench while threading the bolt into the nut. Torque the hardware to 63 ftlbs.



R-Joint Trailing Arm Installation



9. Steps 10-13 cover attaching the rear of the R-Joint bars to the knuckle. If you are just upgrading the trailing arms to the R-Joint arms, the **"C" shaped tie plate (Image 9a)** supplied with the trailing arms will be used in the following steps. If you are installing Ridetech CoilOvers along with the trailing arms, the **lower CoilOver mount assembly (Image 9b)** will be installed during the installation of the trailing arms. Both brackets are shaped for clearance of the half shaft.



10. Insert the 5/8" ID R-joint spacers into the knuckle end of the bar. Install the Spacers by inserting the SMALL side of the SPACER into the Center Pivot Ball. Push them in until they bottom out and stop. Install a 5/8" flat washer on a 5/8"-18 x 4 1/2" hex bolt. Insert the bolt into the lower hole of the tie plate or coilover mount, depending on the install. Next, install an OEM washer on the bolt sticking through the bracket. Line it up with the trailing arm R-joint and insert the bolt into the R-joint. Push the bolt through the R-joint enough to get a washer on the threads of the bolt.



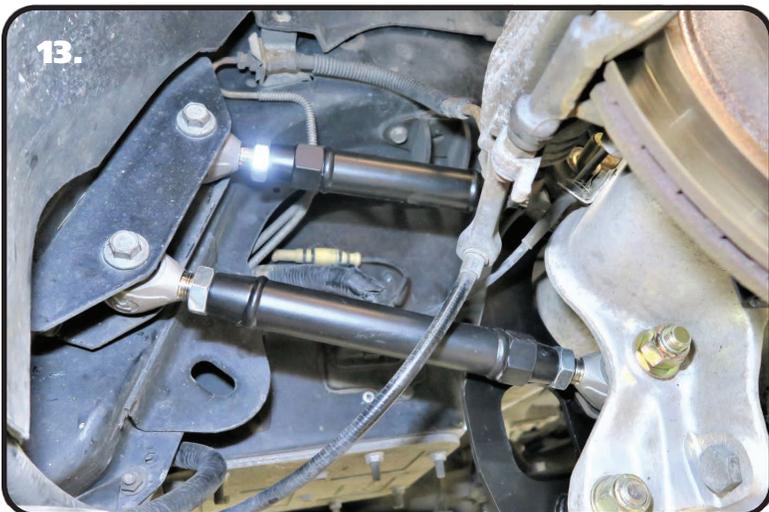
11. Install the second OEM washer on the threads of the bolt. At this point, you should have an OEM washer on each side of the R-Joint. Line the bolt up with the OEM mounting hole that is in the knuckle. Insert the bolt into the mounting holes of the knuckle.



R-Joint Trailing Arm Installation



12. Install a 5/8" flat washer & 5/8"-18 nylok nut on the threads of the 5/8" bolt that is sticking through the knuckle. Leave this loose until the upper and lower trailing arms are installed. Repeat **Steps 2-12** on the upper trailing arm. If you are installing the Ridetech CoilOvers in conjunction with the trailing arms, install the lower CoilOver mount bolt per the coilover instructions before tightening the rear trailing arm hardware. After both trailing arms are installed, torque the rear trailing arms bolts to 140 ftlbs.



13. **Image 13** shows both trailing arms installed. The direction of the hex on the trailing arms isn't critical. Install them in the orientation that best fits your needs in case you need to adjust them.

We suggest having the car aligned.