



**Part # 85000010 - 67-70 Mustang Control Arm Bushing Removal/Installation Tool**



**Recommended Tools**



**67-70 Mustang Control Arm Bushing Removal/Installation Tool**

# **Installation Instructions**

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**DUE TO VARIATIONS IN THE THREADS OF THE UPPER CONTROL ARM, WE RECOMMEND TACK WELDING THE OUTER SHELLS TO THE CONTROL ARM.**





### Major Components .....In the box

| Part #   | Description                      | QTY |
|----------|----------------------------------|-----|
| 90002716 | Inner Control Arm Support        | 1   |
| 90002561 | 1.875" ID x 1.875" Long Sleeve   | 1   |
| 70013138 | 1.825" OD Washer                 | 1   |
| 70013139 | 2.125" OD Washer                 | 1   |
| 90002567 | Cross Shaft Tab, Removal (SHORT) | 2   |
| 99373009 | 3/8" Flat Washer                 | 6   |
| 99311026 | 5/16"-18 x 2 1/4" Hex Bolt       | 1   |
| 99311017 | 5/16"-18 Hex Nut                 | 1   |
| 99505003 | 1/2"-10 x 8" ACME Threaded Rod   | 1   |
| 99502013 | 1/2"-10 ACME Hex Nut             | 2   |
| 99503003 | 1/2" Flat Washer                 | 1   |
| 99566002 | 9/16"-18 Hex Nut GR8             | 2   |

### Getting Started.....

This kit is designed to aid in the removal of the OEM bushings and installation of the Delrin StreetGrip bushings. This guide will show you how the kit is to be used. It is important to not get the bushings crooked on installation.

The kit contains 2 different size washers, it is important to use the correct OD washer in the correct location.

1. The components you will need to remove the lower control arm bushings are: 1.875" Sleeve, 2.125" OD Washer, Inner Control Arm Support Handle, 1/2"-10 x 8" Threaded Rod, 1/2" Flat Washer, (2)1/2"-10 Hex Nuts, and the 1.825" Washer to push the bushing out.



2. Start by sticking the Inner Arm Support in the arm with the "C" shape cradling the bushing. This support keeps the control arm from deforming while removing and installing the bushings.



### Lower Control Arm Bushing Removal



**3.** Install a 1/2"-10 Hex Nut on one end of the 1/2"-10 x 8" threaded rod. Insert the nut/threaded rod assembly into the 2.125" OD washer. Position the 1.875" Sleeve over the bushing. Insert the threaded rod/washer set-up through the 1.875" sleeve, inserting it into the bushing with the hex nut on the threaded rod out. Place the 1.825" washer onto the threaded rod that is sticking out of the other side of the bushing. Install a 1/2" Flat Washer onto the threaded rod followed by a 1/2"-10 hex nut. Thread the nut down until all parts are snug. Be sure the 1.875" sleeve is around the flange of the bushing and not on top of it anywhere. Also, make sure the 2.125" washer is center on the 1.875" sleeve.



**4.** Using a wrench on each hex, tighten the nut. The bushing should start pushing out of the arm. Keep tightening the nut, pushing the bushing out of the arm. Once the bushing pops out of the arm, remove the tool leaving the support in place to install the Delrin Bushing setup.

### Lower Control Arm Bushing Installation

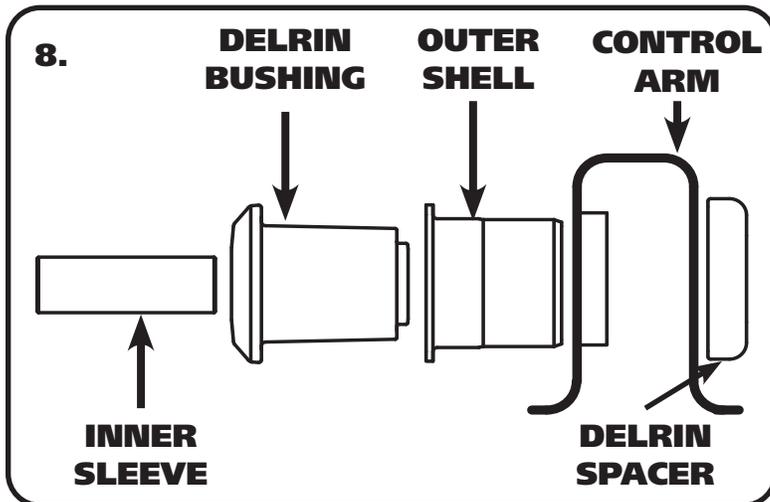
**5.** Select the correct bushings to install in the control arm. Compare them to the OEM bushings to help select the correct bushings. Each Bushing Assembly will consist of; Bushing Shell, Delrin Bushing, Inner Sleeve & Outer Spacer. **See Image 8** on the next page.

**6.** The components you will need to install the lower control arm bushings are: 1.875" ID Sleeve, 2.125" OD Washer, Inner Control Arm Support Handle, 1/2"-10 x 8" Threaded Rod Assembly, 1/2" Flat Washer, (2)1/2"-10 Hex Nuts, and the 1.825" OD Washer.

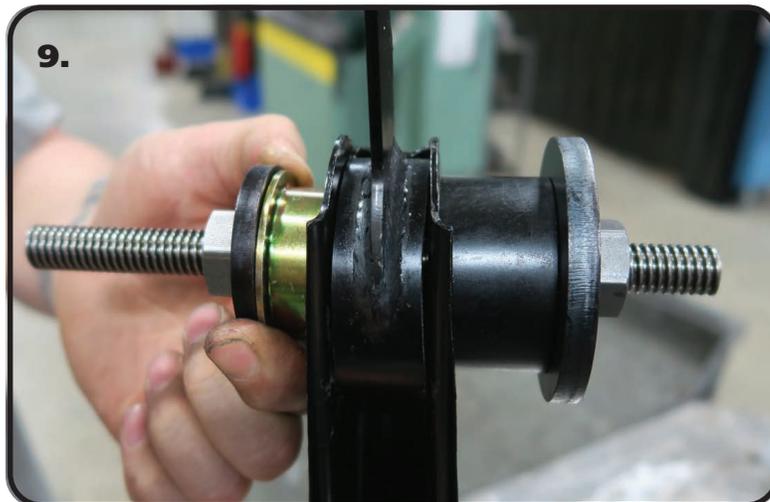
**7.** Push the outer shell, of the lower control arm bushing, into the hole of the control arm. You can, generally, push it partially in. Insert the Inner Support into the control arm, cradling the bushing shell.



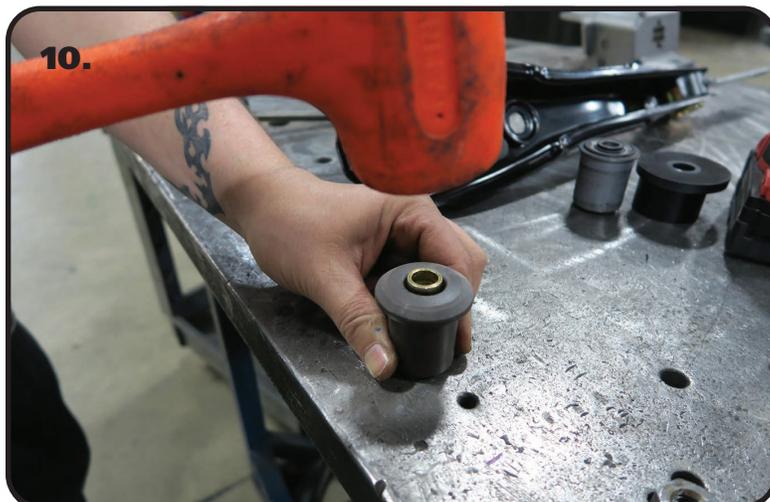
### Lower Control Arm Bushing Installation



**8.** Image 8 is an exploded view of the lower control arm bushing. These bushings use a Delrin Spacer on one side of the control arm. **The Spacer goes on the opposite side of the bushing flange.** With the Delrin Bushing and Inner Sleeve installed, install the Delrin Spacer over the SMALL end of the Delrin Bushing. The **ROUNDED** surface will be out, away from the control arm.



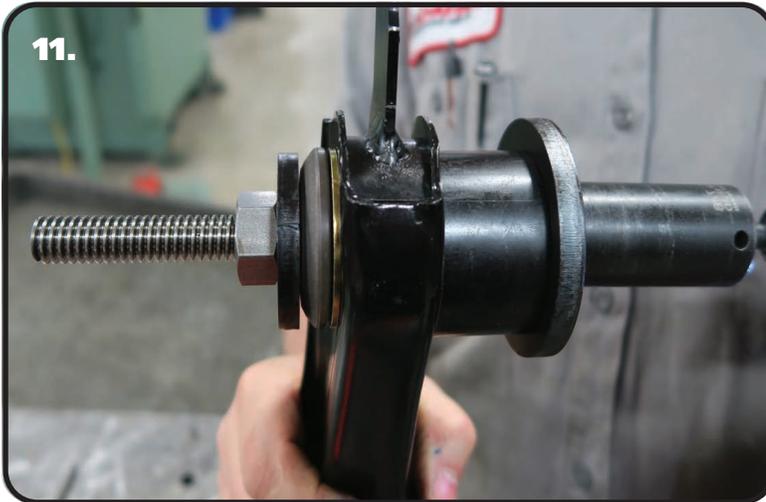
**9.** Push the outer shell of the lower control arm bushing into the hole of the control arm. You can generally push it partially in by hand. Insert the Inner Support into the control arm, cradling the bushing shell. The 1.875" Sleeve/2.125" Washer will be placed against the control on the inner side that the bushing will be pushed into. **IT IS VERY IMPORTANT THAT THE NO EDGE OF THE 1.875" SLEEVE GETS OVER THE BUSHING HOLE, IN THE CONTROL ARM, WHILE INSTALLING THE BUSHING SHELL.** This can cause the bushing shell to crash into the bushing as you are installing it. Insert the 1/2"-10 x 8" Threaded Rod into the 2.125" Washer and through the bushing sleeve.



**10.** Install the correct inner sleeve into the delrin bushing. You can tap it in with a hammer. Be careful to not distort the edge of the bushing with the hammer. Once the Inner Sleeve is installed, start the assembly into the outer shell installed in the arm. It can be pushed partially in by hand,



### Lower Control Arm Bushing Installation



**11.** Use the 1.875" Sleeve, 2.125" Washer, 1/2" Threaded Rod, Large Washer, 1/2" Flat Washer, 1/2" Hex Nut, used to push the shell into the arm, to finish pushing the inner sleeve into the delrin bushing. Tighten the nut until the sleeve is all the way in the bushing. Remove the tool. Install the Delrin Spacer, use **Image 8** as a reference.

Repeat steps 9-11 on the other control arm. **USE THE INNER SUPPORT ON EACH BUSHING & ON EACH STEP. TAKE YOUR TIME TO MAKE SURE THE BUSHING SHELLS ARE GOING IN STRAIGHT.**

### Upper Control Arm Bushing Installation

It is important to not get the bushings crooked on installation.

**DUE TO VARIATIONS IN THE THREADS OF THE CONTROL ARM, WE RECOMMEND TACK WELDING THE OUTER SHELLS TO THE CONTROL ARM BEFORE THE DELRIN BUSHING IS INSTALLED.**

**12.** The OEM control arm bushings thread into the control arm. To remove them, clamp the cross shaft in a vise or stick a rod through one of the cross shaft mounting holes to keep it from spinning. With the cross shaft held from spinning, thread the bushings out of the arms. The OEM cross shafts will NOT be reused.

**13.** Install the supplied Cross Shaft into the control arm.

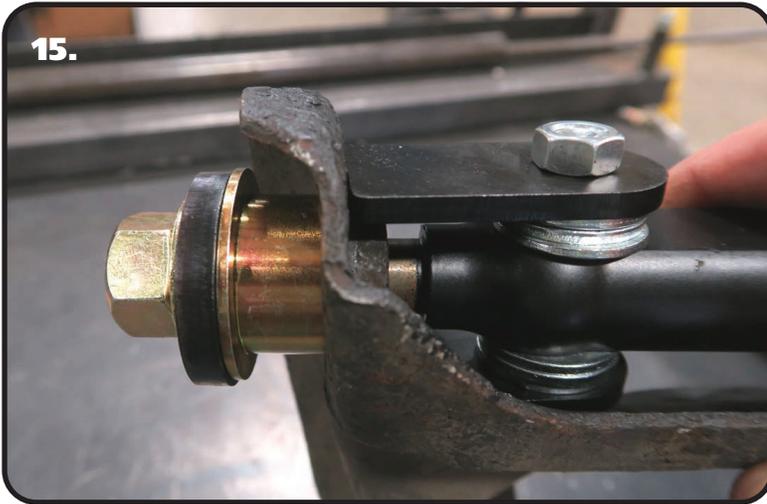


**14.** Bolt the Short Cross Shaft Tabs to the cross shaft using (1) 5/16"-18 x 2 1/4" Hex Bolt, (6) 3/8" Flat Washers & (1) 5/16" Hex Nut. The Tabs will be bolted to the cross shaft using the cross shaft mounting holes with (3) 3/8" Flat Washers between each Tab and The Cross Shaft. Place a Tab on each side of the cross shaft with the flat side against the control arm. Tighten the 5/16" bolt/nut with the flats squarely against the control arm.



### Upper Control Arm Bushing Installation

15.



15. Insert the bushing shell into the control arm by hand. It will go into the control arm partially. Slide the 1.825" Washer onto the Cross Shaft Threads that are sticking through the Outer Shell. Thread the THICK 9/16" Hex Nut on the Threads of the Cross Shaft. **BE SURE THE TABS DO NOT GET OVER ANY OF THE BUSHING OPENING OF THE CONTROL ARM.** Snug the Hex Nut down keeping the assembly centered. Slowly tighten the Hex Nut, pushing the bushing shell into the control arm. Take your time and make sure the bushing goes in squarely. Tighten the nut until the shell bottoms out against the control arm. Remove the Nut, Large Washer, & Tabs and repeat on the other end.

16.



16. Install the 9/16" ID inner sleeve into the delrin bushing. You can tap it in with a hammer. Be careful to not distort the edge of the bushing with the hammer. Once the Inner Sleeve is installed, start the assembly into the outer shell installed in the arm. It can be pushed in partially by hand

17.



17. After the Outer Shells are installed in both ends, install the Bushing/Sleeve Assembly. Slide them onto the threads of the cross shaft and push them into the outer shell. They can be pushed partially in by hand. Once both Bushing are pushed in, installed the 9/16" Washers and 9/16" Nylok Nuts supplied in the bushing kit. With the Washers and Nuts on both ends, tighten the nuts to push the Bushings in until the flange of the bushing is against the flange of the outer shell. Repeat Steps 12-17 on the 2nd control arm and reinstall the control arms on the car.