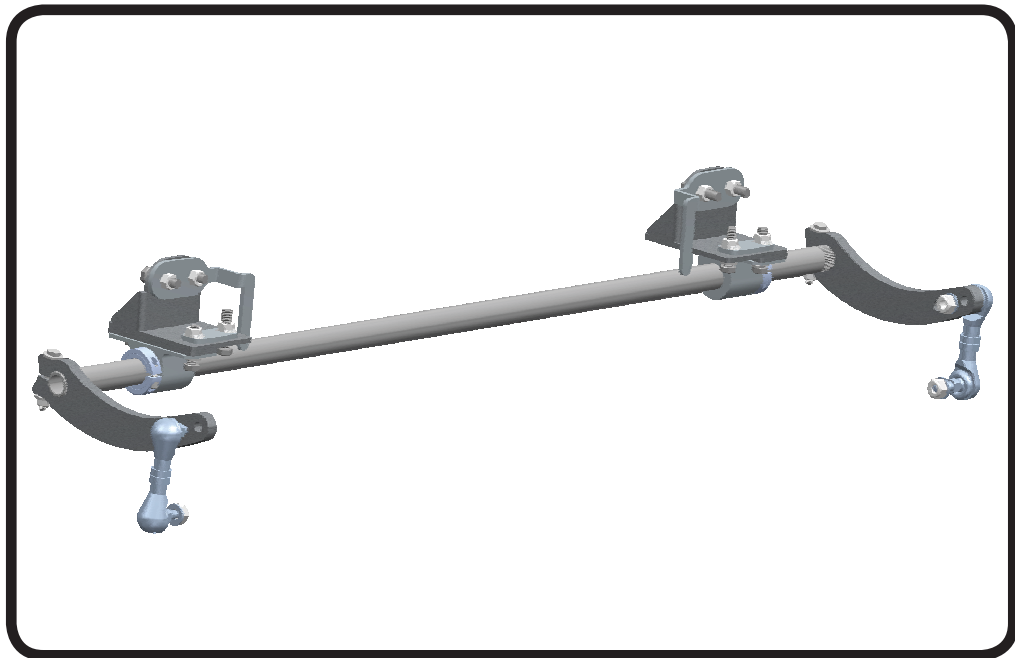
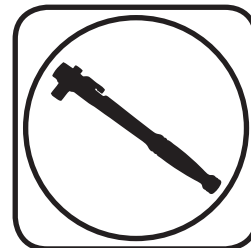




Part # 11539102 - 1968-1979 C3 Rear MuscleBar



Recommended Tools



1968-1979 C3 Rear MuscleBar Installation Instructions

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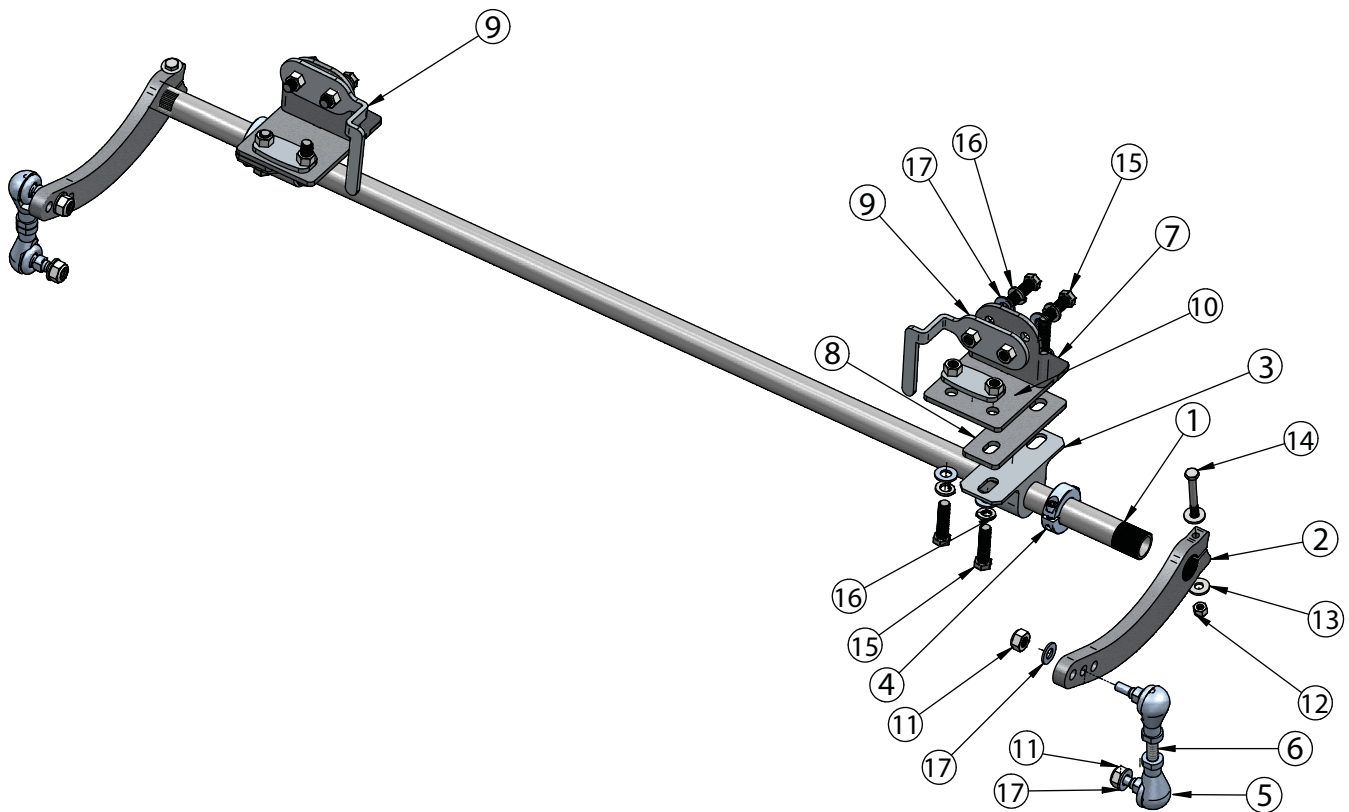
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Major ComponentsIn the box

Item #	Part #	Description	QTY
1	70011922	1.00" Splined MuscleBar	1
2	90002181	Spline MuscleBar Arm	2
3	99800004	Poly Bushing and Frame Bracket	2
4	70011970	Locking Ring	2
5	90000926	10mm 90 degree elbow (Preassembled Posilink)	4
6	99115001	M10-1.5 65mm stud (Preassembled Posilink)	2
7	90002176	MuscleBar Mount Assembly	2
8	90002177	MuscleBar Bushing Spacer	2
9	90002186	Nut Plate with Tab (Driver)	1
9	90002187	Nut Plate with Tab (Passenger)	1
10	90002185	Nut Plate NO Tab	2
	90001092	Tube of Lithium Grease (Not Shown)	1





Hardware ListIn the box

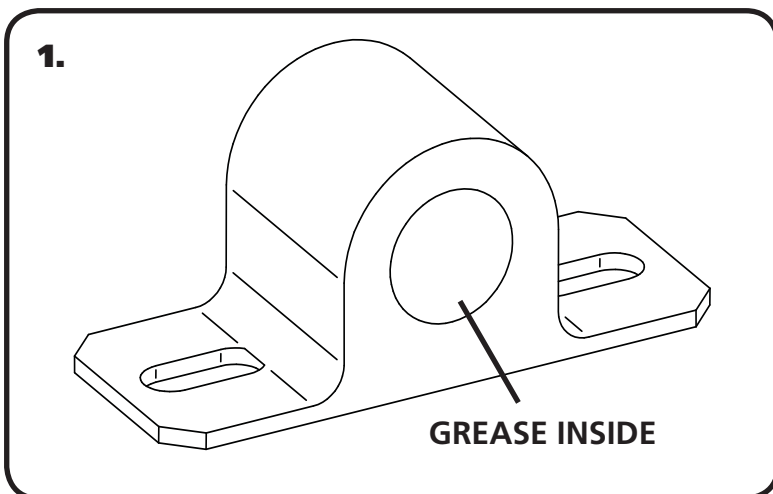
Item #	QTY	Part Number	Description	Location
11	4	99112002	M10-1.5 Nylok Nut	Posilink to Swaybar and StrongArm
12	2	99252003	1/4"-20 Nylok Nut	MuscleBar Arm Pinch Bolt
13	4	99253008	1/4" SAE Flatwasher	MuscleBar Arm Pinch Bolt
14	2	99251011	1/4"-20 x 2 1/4" Hex Bolt	MuscleBar Arm Pinch Bolt
15	10	99371006	3/8"-16 x 1 1/2" Hex Bolt	MuscleBar Mount & Bushing to Frame
16	8	99373005	3/8" Split Lock washer	MuscleBar Mount & Bushing to Frame
17	16	99373003	3/8" SAE Flatwasher	MuscleBar Bushing to Frame & Posilink
	2	99372002	3/8"-16 Nylok Nut	MuscleBar Bushing to Mount (Not Shown)

Getting Started.....

Congratulations on your purchase of the Ridetech Rear MuscleBar. This kit has been designed to give your Corvette excellent handling along with a lifetime of enjoyment. Some of the key features of this MuscleBar: Posilinks - The Posilink makes the reaction of the swaybar instantaneous, tunability - this Musclebar has 3 positions to aid in the tuning of the handling of your Corvette.

Note: This MuscleBar is designed to be used with the Ridetech Rear StrongArm kit.

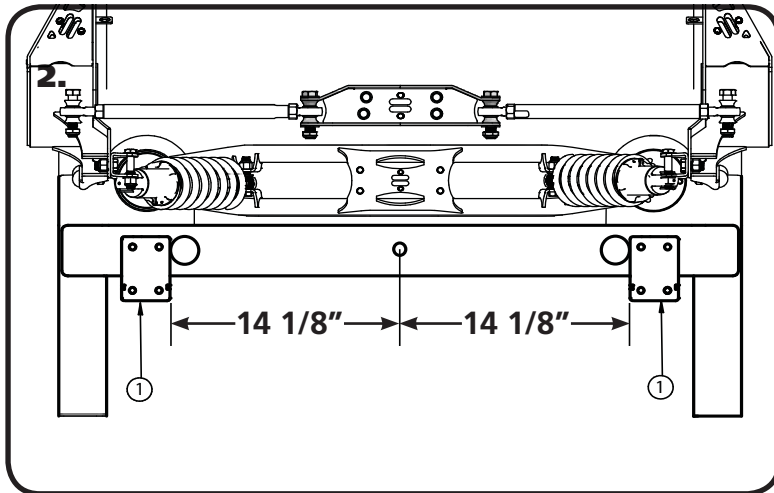
THE REAR MUSCLEBAR KIT WILL **NOT WORK WITH A SPARE TIRE IN THE STOCK LOCATION.**



1. Apply Lithium grease to the inside of the sway bar bushings using the tube of grease supplied in the kit.

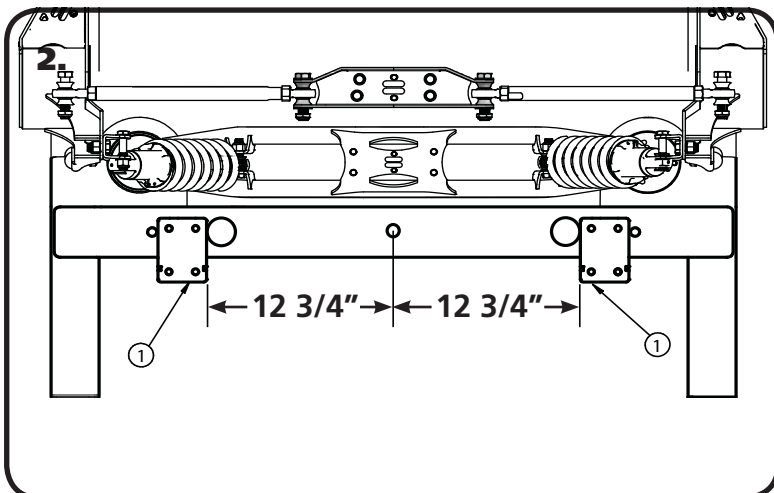


MuscleBar Mounts Installation



C3 MuscleBar Mounts

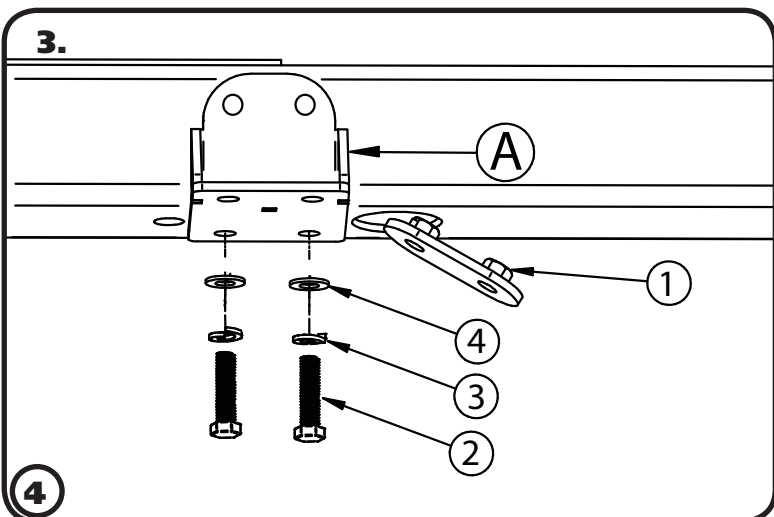
2. The holes for the MuscleBar Mounts(1) will need to be drilled in the OEM Crossmember. The Mounts are positioned 14 1/8" from the center of the Crossmember. Use the Mounts as a template for drilling the holes in the Crossmember. Position the mount 14 1/8" from the center of the crossmember to the inside edge of the mount. The TOP OUTER hole will line up with a Factory hole in the crossmember. Mark remaining 3 holes and drill with a 7/16" drill bit. Do this for both brackets.



C2 MuscleBar Mounts

2. The holes for the MuscleBar Mounts(1) will need to be drilled in the OEM Crossmember. The Mounts are positioned 12 3/4" from the center of the Crossmember. Use the Mounts as a template for drilling the holes in the Crossmember. Position the mount 12 3/4" from the center of the crossmember to the inside edge of the mount. Mark the 4 holes and drill with a 7/16" drill bit. Do this for both brackets.

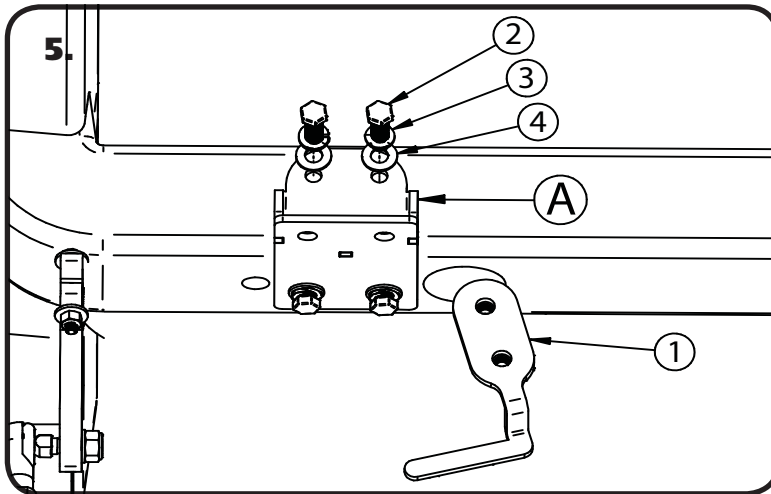
Note: The Driver and Passenger Mounting Brackets are identical.



3. Insert the Nut Plate (1) through the large hole in the crossmember and line it up with the holes drilled in the previous step. Hold the MuscleBar Mount in place (A). Thread a 3/8" x 1 1/2" Hex Bolt (2), with a 3/8" Split Lock washer(3), and 3/8" Flatwasher (4) installed on the Bolt, into each bottom hole. Tighten the inner bolt leaving the outer bolt loose. The outer bolt will be used to attach the MuscleBar in a later step.

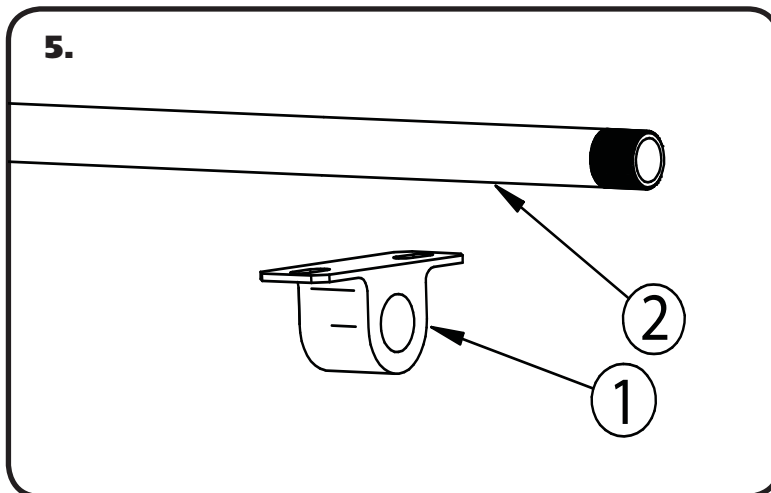


MuscleBar Installation

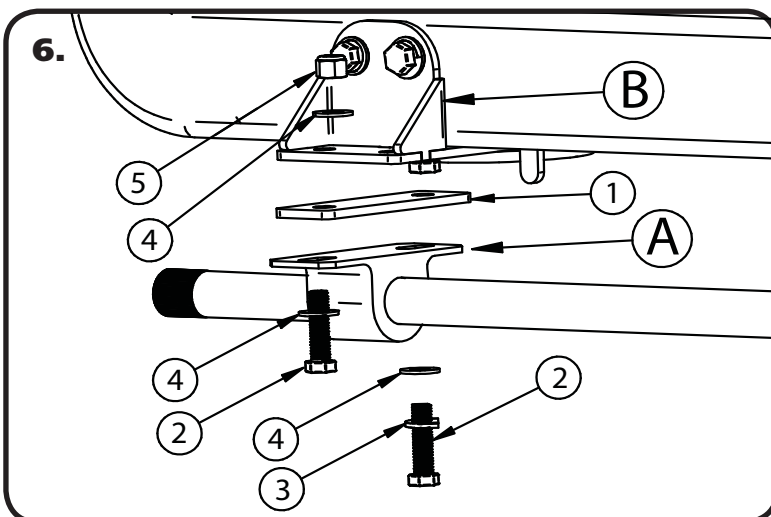


4. Insert the Nut Plate with Tab(1) through the large hole in the crossmember and line it up with the holes drilled in the previous step. Thread a 3/8" x 1 1/2" Hex Bolt (2), with a 3/8" Split Lock washer(3), and 3/8" Flatwasher (4) installed on the Bolt, into each bottom hole. Tighten both bolts. Do this for both sides

Note: When positioned correctly, the Tab on the Nut Plate is bent away from the mounting surface.



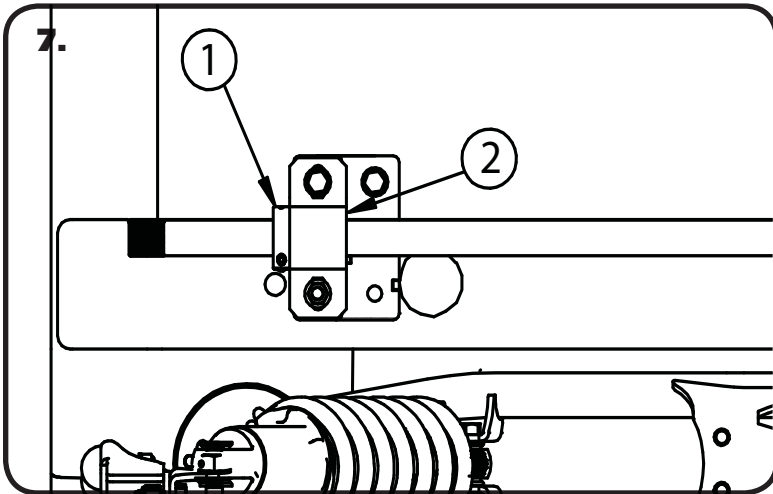
5. Install the MuscleBar Bushings and Straps on the MuscleBar. They are positioned approximately - **5" on C2, 3 1/2" on C3** - from the end of the MuscleBar to the outside edge of the bushing. To install the Bushing, remove the Mounting Strap from the Bushing. Open the Bushing at the slice on the edge of the Bushing. Slide the Bar through the slice. Re-install the Mounting Strap.



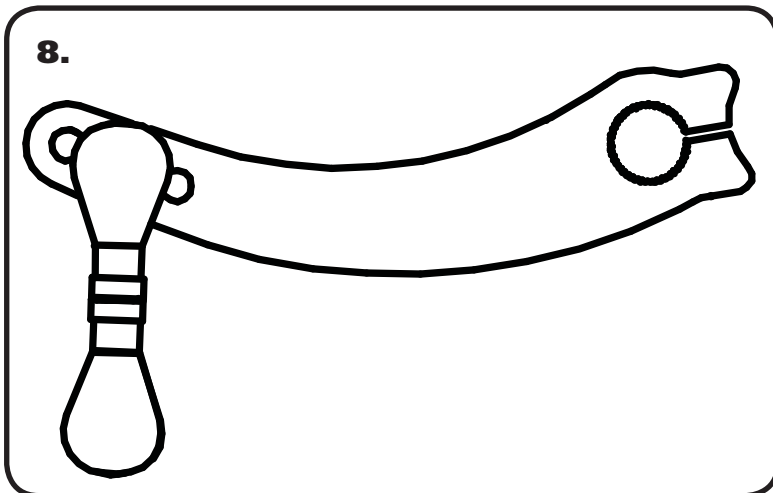
6. Install the MuscleBar onto the Mounts using the supplied Spacer(1) between the Bushing(A) and the Mount(B). Insert a 3/8" x 1 1/2" Hex Bolt(2), 3/8" Split Lock washer(3), and a 3/8" Flatwasher(4) in the front Bushing Assembly hole. In the rear of the Bushing Assembly, insert a 3/8" x 1 1/2" Hex Bolt(2) and 3/8" Flatwasher(4) from the bottom. Install a 3/8" Flatwasher(4) and 3/8" Nylok Nut(5) on the Bolt from the top. Leave the retainers loose enough that the bar can be moved in the bushings.



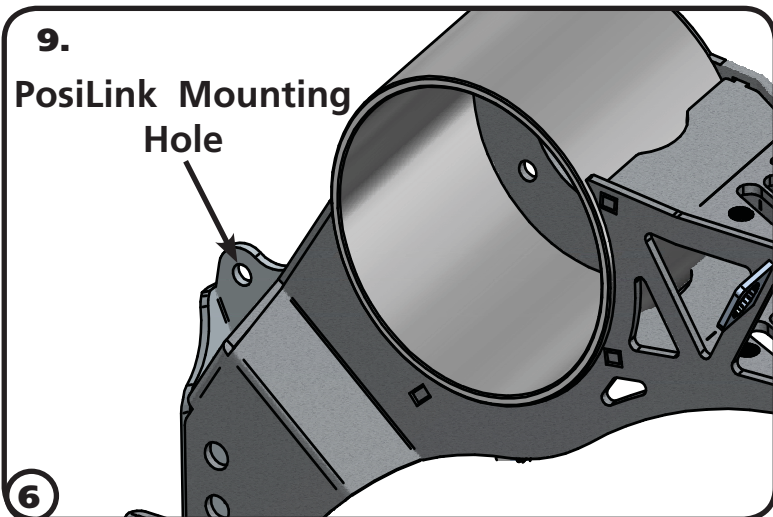
PosiLink and Arm Installation



7. Center the bar by measuring from the edge of the Bushings to the end of the bar. With the bar centered, tighten the Bushing Assembly hardware. Install a Locking Collar(1) on each end of the MuscleBar(2). Slide the Locking Collars against the Bushings and Tighten the Collar.



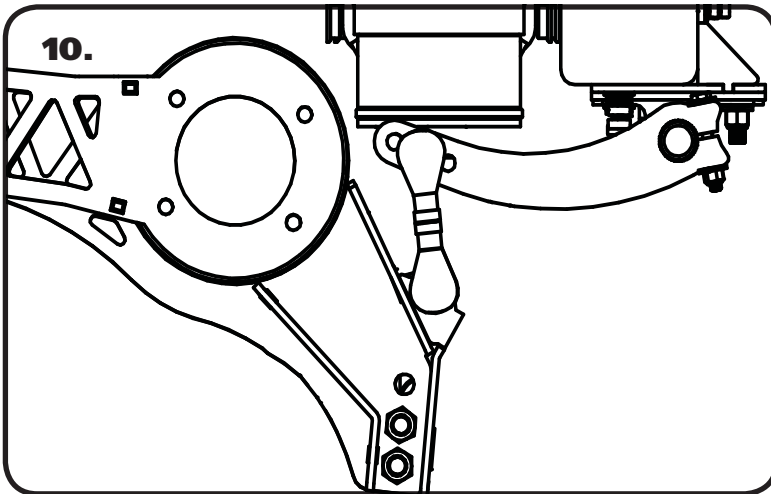
8. Install a PosiLink Assembly into the center hole on each MuscleBar arm. **Install the Posilinks in opposite sides of the 2 arms.** Install a 3/8" Flatwasher on the Threaded Stud of the Posilink, insert the Stud into the Arm. Install a 3/8" Flatwasher and 10mm Nylok Nut onto the Stud and tighten.



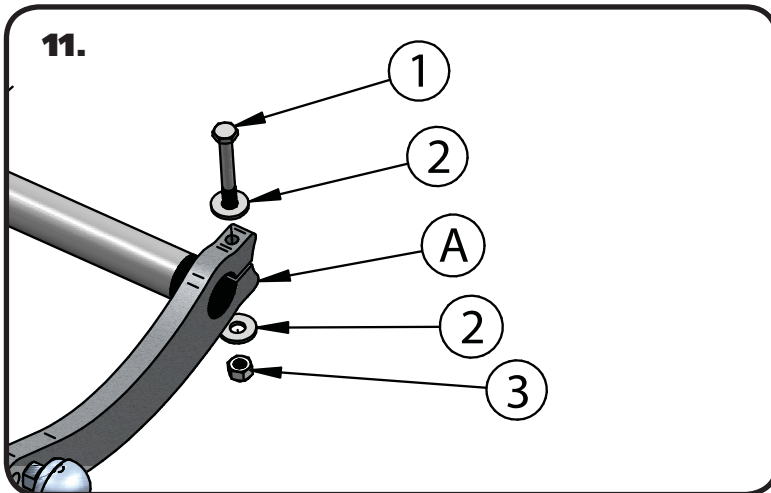
9. **This step needs to be done with the complete rear suspension installed on the car.** It is critical to get the arms clocked on the MuscleBar the same, we found a simple way to do it. With the StrongArms hanging at full extension, slide the MuscleBar arms onto the bar. Try to insert the loose end of the Posilink into the mounting hole on the StrongArm. If it will not slide into the hole, remove the Swaybar arm from the bar and reposition it until the Posilink will slide into the mounting hole with little effort. Repeat the procedure on the other side. The arms are now clocked the same.



Final Installation



10. With both arms clocked, the Posilinks can be permanently attached to the StrongArm. Install a 3/8" Flatwasher on the Threaded Stud of the Posilink, insert the Stud into the Arm. Install a 3/8" Flatwasher and 10mm Nylok Nut onto the Stud and tighten.



11. Position the Arm(A) so that it is even with the ends of the splines. Install 1/4"-20 x 2 1/4" bolt(1), along with a Flatwasher(2), through the hole vertical hole in the Muscle-Bar arm. Install a Flatwasher(2) and 1/4" Nylok nut(3) on the threads and tighten to 12 ft lbs.

13. Double check all hardware to make sure its tight.

The MuscleBar has 3 positions to aid in the tuning of your Corvette's handling. We start in the center position and tune from there. The Position to the rear of the car will make the Musclebar stiffer. The position to the front of the car will make the MuscleBar softer.

Note: If any grease is needed after installation use a lithium based grease. **DO NOT USE A PETROLEUM BASED GREASE**

STILL HAVE QUESTIONS?

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Monday - Friday

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812-482-2932