

1964 ¹/₂ - **1970** Ford Mustang **Triangulated 4-Link Suspension Installation Instructions** Tech Line: 1-855-693-1259

www.totalcostinvolved.com

Read and understand these instructions before starting any work!

USE THE PARTS LIST BELOW TO MAKE SURE YOUR KIT IS COMPLETE BEFORE INSTALLATION.

IF ANY PIECES ARE MISSING, PLEASE CONTACT: Total Cost Involved Engineering 855-693-1259







NOTE

The following install manual assumes that the factory suspension has already been removed.

NOTE

The following suspension system will not work with heavy duty axle housings as pictured below.



Note : The Mustang wheel well curves outward about 2 inches in the front. This limits the size of the rear tire you can install.
We started by cutting a pie shaped piece out in the seat belt bracket area. Then we slit the wheel well in the center and worked that section inward toward the frame. Keep working it until it is flat like the rear section of the wheel well. We then filled the pie cuts, welded everything up and did a little hammer work. It was a little extra body work but it allowed us to put a 285-40- 18 tire on a 9.5 inch wide rim. Looks awesome and the car sits low with a lot of rubber on the ground.
Remove the tabs in the upper corners of floor at the frame rail.
After the tab is removed use a tool of your choice to clear out the excess metal.

 Installing the Coilover cross member bracket: Measure 17.5" from the front face of the rear spring hanger to the bottom of the frame rail and make a mark. The rear edge of the coilover bracket needs to line up with this mark. We used c-clamp vise grips to hold the bracket in place. *NOTE* The coilover bracket is tapered so it will only fit on the frame one direction.
Now that the coilover cross member bracket is in the proper location you may begin drilling up the through the trunk floor. Using a 5/16" drill bit you will need to drill 4 holes per bracket, 8 holes total.
Here is a picture of the drill bit protruding into the trunk floor.
Once all 8 holes are drilled you may begin installing the provided 5/16" button head hardware. The provided flat rectangle plates are used as reinforcements on the trunk floor. The bolts go in through the top with a washer on top of the rectangle plate. An additional washer goes on before the nylock on the bottom side. Torque to 29 ft lbs

Now that the first 8 bolts are installed and the bracket is secured vertically it is time to drill through the frame. Start with the forward most hole using a 3/8 bit. This is the only hole that has access from either side of the frame not requiring the provided Drill Guide(*see 2 steps below). The picture to the left is showing the hole being drilled from the outside going in. Once you are through the first layer of the frame, stop and proceed to the next step. Now you can move the drill to the inside of the frame and continue through the other side of the frame rail. Repeat the process for the driver's side. There are 2 holes per side remaining. For these you will need the provided Drill guide to get through the frame straight. Use a c-clamp vise grip to hold the drill guide in place on the existing hole of the bracket. Repeat this process for the remaining holes. ***NOTE*** There are 2 different length bolts used at this step. Rear most bolt = $3/8-24 \ge 2.75$ " Go ahead and install the two rear most bolts, nuts & washers for both sides of the vehicle. The remaining bolts = $3/8-24 \times 3$ " At this time just install the bolts with no hardware. You will want to leave the threaded end of the bolt flush with the edge of the bracket at this time. The cross member installation in the next step will use these two bolts to attach and they need to be out of the way.

	Installing the Coilover Cross Member:
	NOTE If you bought your kit with the optional anti-sway bar please see page 7 of the manual. If not, proceed below.
12	The coilover cross member installs with the shock and anti-sway bar brackets towards the back of the vehicle.
A CONTRACTOR	Push the coilover cross member up into place. The holes on the crossmember will line up with the two forward most holes on the bracket we just installed.
	Once the holes on the frame bracket and cross member line up you can now push the bolts we left loose through the holes on the cross member.
	Use the remaining 3/8" washers, nylocks and 4 remaining bolts on the cross member.
Tapered side up	Installing the Triangulated 4-Link brackets:
	NOTE You will need to remove the back seat for the following steps.
	The brackets have a flat side and a tapered side. The tapered side goes up as shown in the driver side picture shown to the left.
Flat side down	These brackets are also tapered internally to match the thickness of the frame rail. Once you've got the proper bracket, push it up into the pocket of the floor and tight against the rail.
A CONTRACTOR	Use a C-clamp vise grip to hold the bracket in place and use a 5/16" bit to drill up into the floor.
	passenger side shown
	NOTE A long drill bit will make things easier

E Contraction	Continue drilling all holes that go in through the floor.
	passenger side shown
	Use the provided square plates as reinforcement behind the back seat. Use the provided 5/16" button head bolts with washers under the bolt head and before the nylock.
	Torque all 8 of these 5/16" bolts to 29 ft lbs.
	Now that the through floor bolts are installed and the brackets are secured you can now drill the 3/8" holes through the frame. You will not need the drill guide for these holes. Just drill through the first layer of the rail from each side.







Reference Centerline	
	Install the coil-overs onto the lowest hole on the axle bracket using the provided spacer and 5/8" hardware. Note: The shock pictured has the spring removed for a clearer view of the installation. Lift the rear axle up into place and install the ½" hardware into the upper coil-over mount
	Repeat the process for the other side.
	The lower bars need to be 21" center to center.

Contraction of the local division of the loc	Lower Link bar installation:
	We will be reusing the factory bolt used to hold the front leaf spring in place. There are two different width spacers $(3/4" \& 9/16")$ provided in the kit. The wider of the two spacers goes up against the frame. Push the bolt through the frame and into the spacer to hold it in place.
	Place one of the link bars with the adjuster side forward into the slot while pushing the bolt in a little farther to keep the bar in place. Now you can install the shorter spacer and push the bolt all the way through.
	Install the nut and torque to 85 ft lbs. repeat for the opposite side of the vehicle.
	Install the other side of the link bar onto the lowest hole on the axle bracket. 5/8-18 x 3 Bolts with ¹ ⁄2 nylocks

The upper bars need to be 14" center to center.
Install the adjuster side of the upper link bar onto the frame bracket using the 1/2" hardware.
¹ / ₂ -20 x 3" hardware with full nylocks
Torque ¹ / ₂ " hardware to 85 ft lbs
Torque 5/8" hardware to 125 ft lbs
Assemble the heims with jam nut to where roughly ¹ / ₄ " of threads are showing on the male side. Install the
female heim onto the bar itself with the provided hardware. Install the male side onto the axle housing with the provided hardware.
Note: For final adjustment: Disconnect one of the 3/8" anti-sway bar bolts (doesn't matter which one), place the vehicle down on its full weight, with the driver in the driver's seat, adjust the anti-sway bar end link until the 3/8" bolt can be reinstalled with zero preload.

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No returns or exchanges without a RMA#. Packages must be inspected upon receipt & be reported within 10 days. If you are missing parts from your kit, TCI Engineering will send the missing parts via FedEx or U.S. mail ground. Returned packages are subject to inspection before replacement/refund is given. (Some items will be subject to a 15% restocking fee)

Thank you for your business!

