

1964 ½ - 1970 Ford Mustang Triangulated 4-Link Suspension Installation Instructions 1-866-925-1101

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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 866-925-1101







After

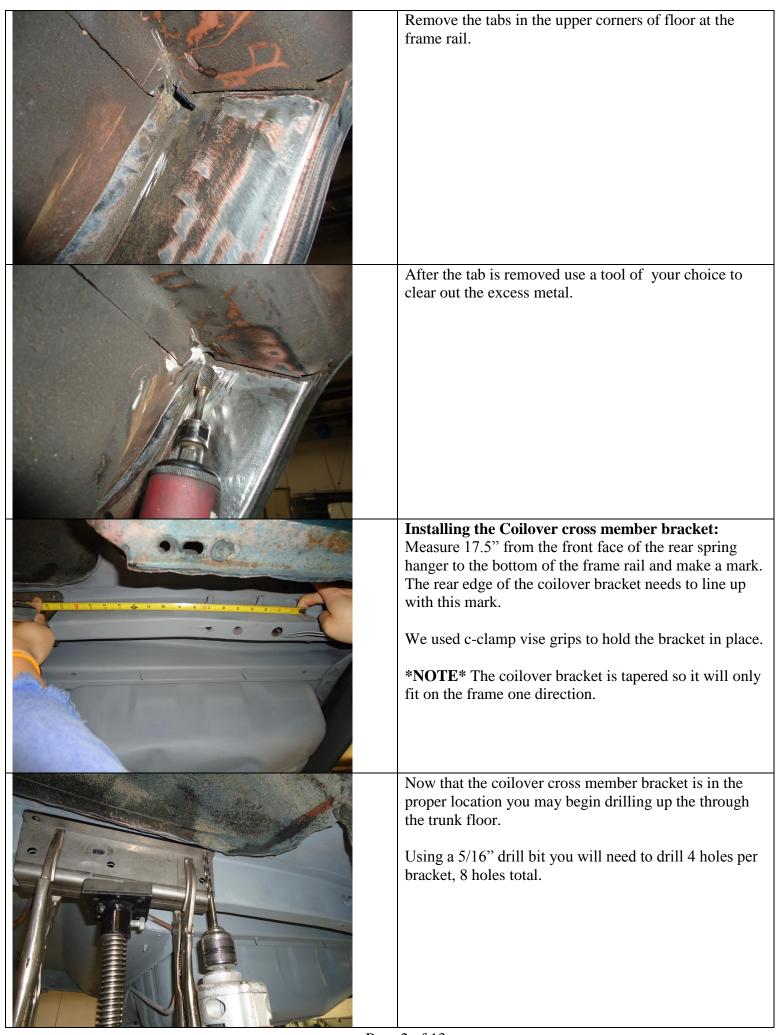
NOTE

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

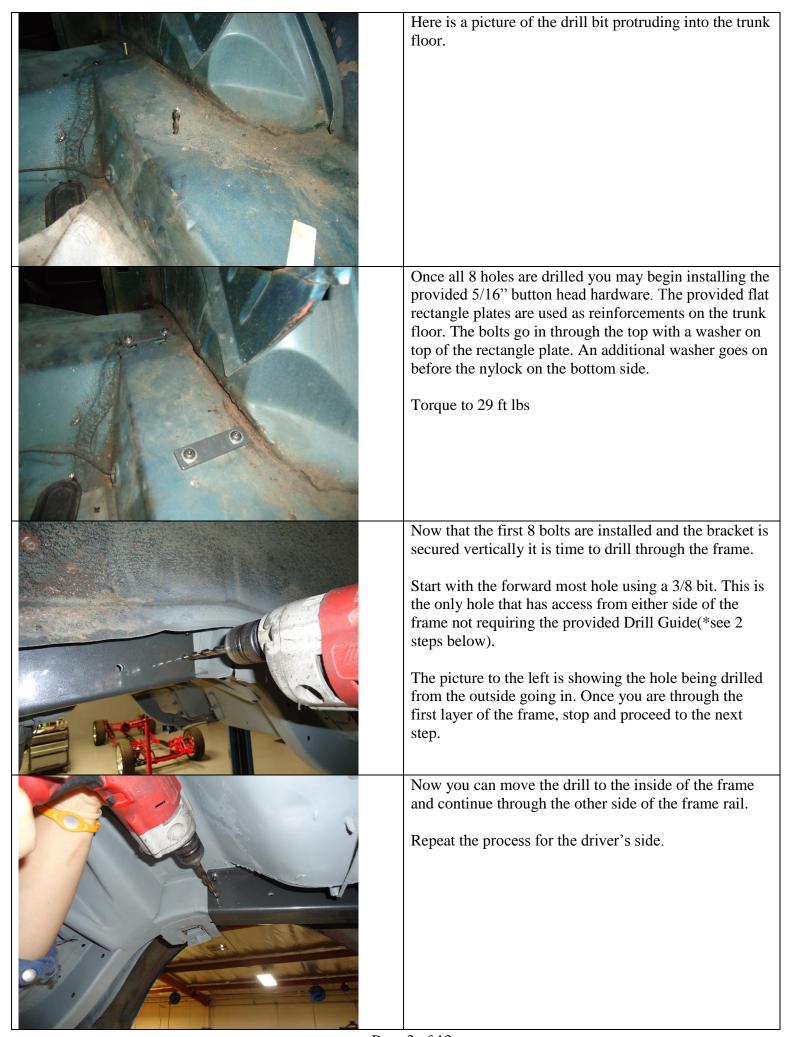


Note: The Mustang wheel well curves outward about 2 inches in the front. This limits the size of the rear tire you can install.

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.



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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 = $3/8-24 \times 2.75$ " 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.

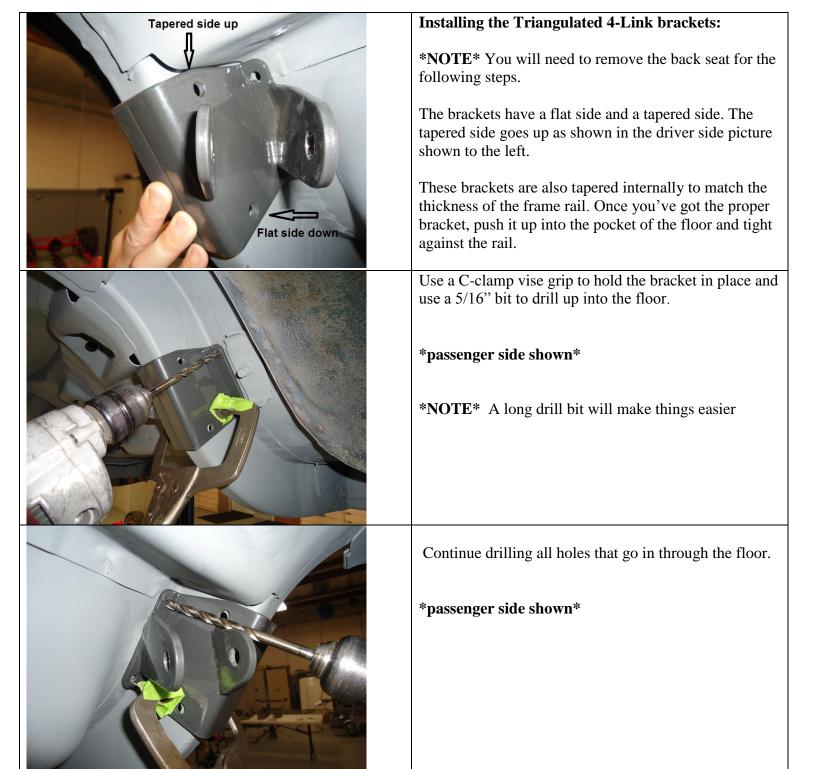
The coilover cross member installs with the shock and anti-sway bar brackets towards the back of the vehicle.

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.

Torque the 3/8" bolts to 45 ft lbs.





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.

Move the drill to the inside of the frame to finish off the holes.



The top bolt is $3/8-24 \times 2.75$

The bottom bolt is $3/8-24 \times 2.5$

Torque each of these 3/8" bolts to 45 ft lbs.



Optional Anit-Sway bar installation

Slide the two aluminum lock rings onto the center of the sway bar. Place the four 3/8" x 1" bolts into the brackets as shown. Slide the brackets onto the bar. Spread the split urethane bushing over the sway bar between the bracket and the lock ring with the flange facing inward toward the lock ring. Using WD-40, slide the bushing into the bracket using the lock ring to assist the install. Don't tighten the lock ring until the sway bar is installed on the cross-member.



NOTE Even though the picture to the left shows the anti-sway bar being installed with rear axle in place already it is much easier to install it beforehand.

Install the anti-sway bar brackets onto the coil-over cross-member brackets that support the anti-sway bar. Install the nuts onto the bracket bolts and tighten. Once the brackets are tightened, the anti-sway bar has to be centered. Rotate the bar up where it is between the frame rails and measure from the end of the bar to the inside of the frame and slide the bar either way until that measurement is equal. Slide the lock rings tight against the flange on the urethane and tighten set screw.



*Installing coil-over axle brackets onto an 8" housing Bolt the coil-over axle bracket to the leaf spring pad checking that the center hole on the bracket aligns with the center of the leaf pad. If you have a different diameter center pin, use the pin from your old leaf springs. Leave the nuts finger tight at this time.

Note: Most of the 8 inch housings have 2.275" diameter axle tubes but there are some that are 2.75" diameter at the spring pad. The bracket mounts the same on either but they do need different size u-bolts.

Note: If you are using a 9" housing skip forward four steps.



Clamp a flat bar onto the back of both axle brackets to correctly square them to the housing. Once square you can tighten down the u-bolts.



For the 2.275" axle housings, drill a 3/8 inch hole through the spring pad using the hole in the axle bracket as a guide. Repeat the process for the other side.

Note: If you have the 2.75" O/D housing access to the nuts on the inside of the pad is an issue. The front and rear of the spring pad needs to be welded to the axle bracket to prevent the brackets from moving.

After both sides are drilled install the provided allen bolts and tighten.

Note: Shown with the u-bolts removed for a clearer picture.



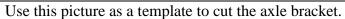
Here is what the axle bracket will look like once the installation is complete.



Welding axle brackets onto a 9" Housing:

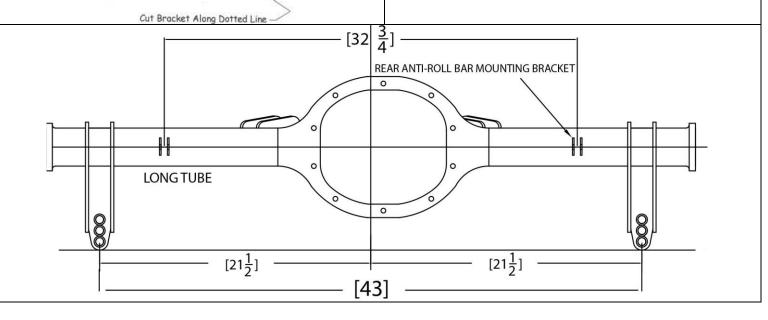
We prefer that the axle brackets be installed on the tubes before the bearing flanges are installed.

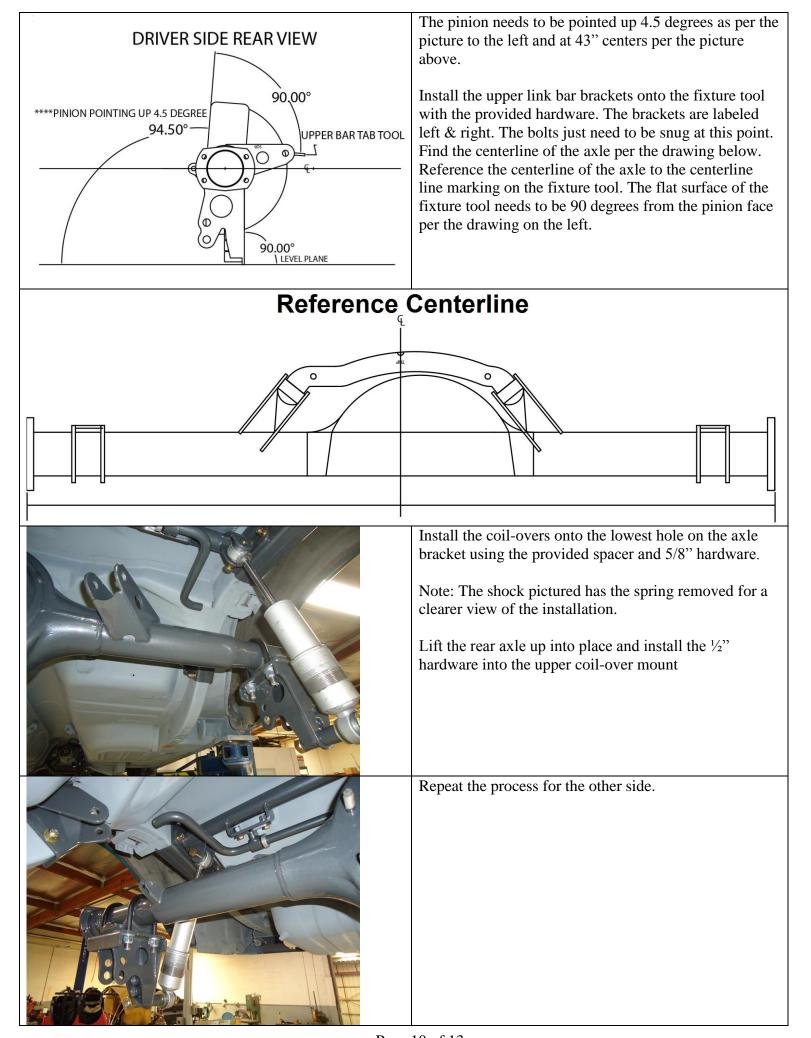
However, if your axle ends are already on the axle the brackets will need to be cut in half to fit over the axle tubes. If this is the case follow the next step.



Note: The axle bracket shown has an extra hole at the top right which is not used on this application.

Take extra care in realigning and welding them back together. Use the following diagram to install the brackets onto the housing.







The lower bars need to be 20.5" center to center with an 8" axle(bolt on axle bracket) and 21" center to center for a 9" axle (welded on axle brackets).



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 ½ 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.

½-20 x 3" hardware with full nylocks



Torque ½" hardware to 85 ft lbs

Torque 5/8" hardware to 125 ft lbs



Assemble the heims with jam nut to where roughly ½" 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.



Note: At ride height the pinion angle should be 1 degree up.



Vehicle height can be adjusted by loosening the set screw in the lower shock ring and turning the ring with a spanner wrench. The car needs to be raised up to relieve the weight off the shocks to turn the lower ring.

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!