

1964 1/2-70 Mustang Front Suspension Installation Instructions

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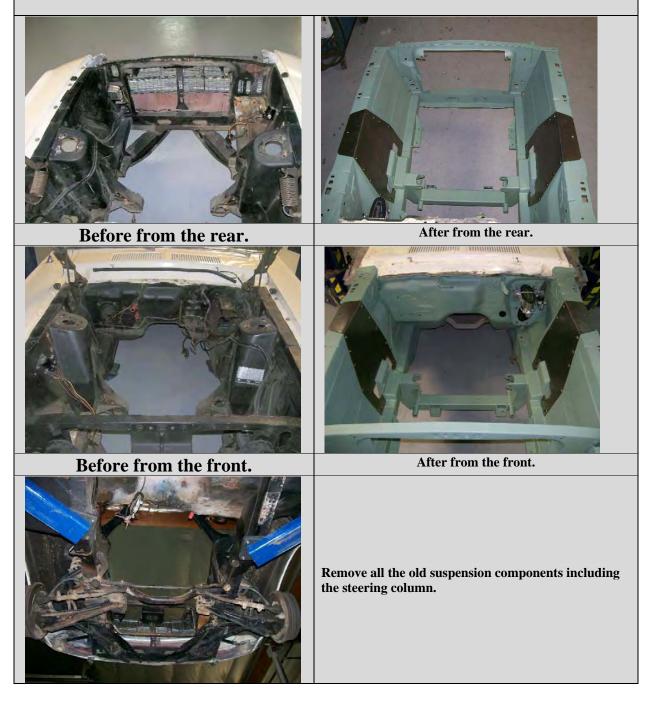
Note: All engine installations with this front end will require a rear sump oil pan. Version 2

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<u>1964 1/2-70 Mustang Front Suspension</u> <u>Installation Instructions</u>

Thank you for choosing TCI's Mustang front suspension package. The kit has been designed to not only allow your Mustang to handle corners, steer and brake better and have more engine compartment room but have that low sports car stance. Although the install will require cutting, grinding, drilling, welding and quite a few hours of your labor, the results are well worth the effort. I will take you through the install step by step.

Before we get started lets show you some before and after pictures.

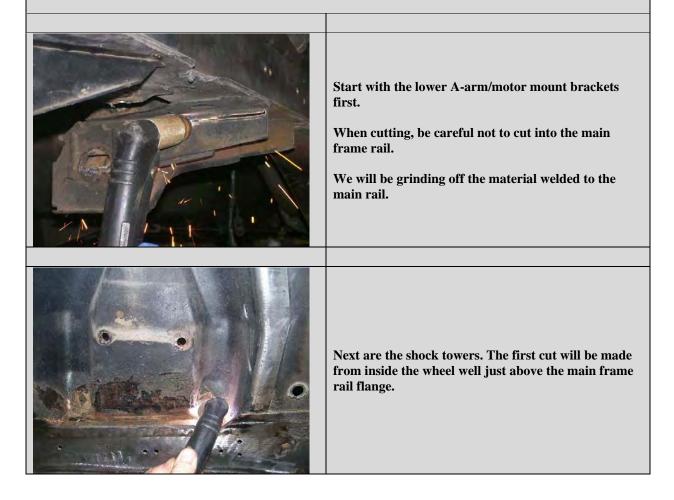


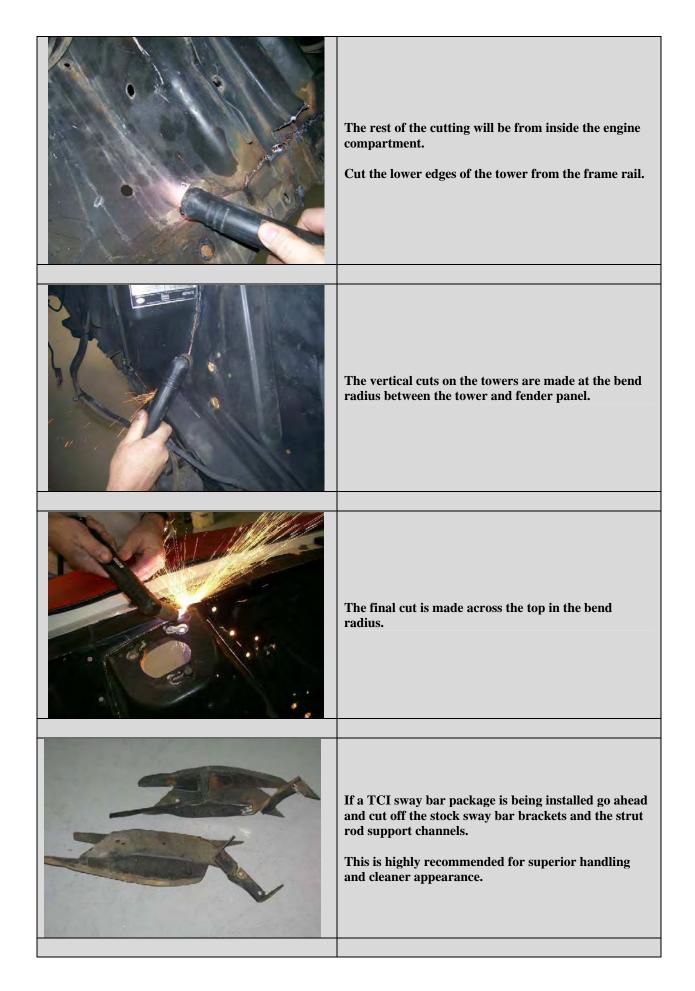


I used a die grinder with a cut off wheel to cut the coils in a couple of places for much easier removal.

Next the shock towers, suspension brackets, have to be removed, but first clean as much of the underbody coating in the wheel well around the shock towers as possible to facilitate cutting.

When it came to cutting off all the old suspension mounting brackets, I've tried a saber saw, a die grinder with a cutoff wheel, oxy/acetylene torch and a plasma cutter. By far the plasma cutter was the easiest, cleanest and most accurate.





Remove all excess material, welds and paint from the main rails to all for the installation of the boxing plates. Remove excess material around shock tower opening until it is flat to the fender panel; also straighten up inside cut lines for clean appearance.
The outer flange on the top of the main rail has to be removed. Draw a line through the centers of the spot welds.
Carefully cut the flange off, leave about 1/8" or so extra material. Use a grinder to remove the last 1/8" material. If you try to plasma cut the entire flange off in one pass you will remove too much material from the frame rail.
All the grinding is done. Although you cannot see it in the picture, there is a split between the top and the side rail metal.



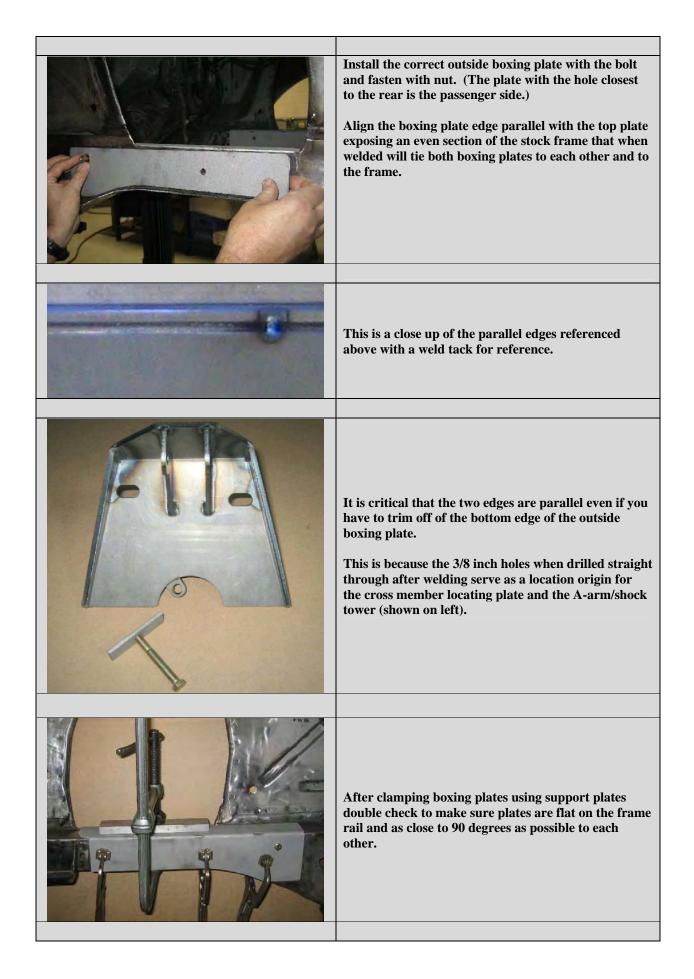
The top and outside of the rail will be seam welded back together.

Clamp a two foot flat piece of material (I used 1" x 2" aluminum bar) about 3/4" down from the top of the frame rail to maintain a straight edge.

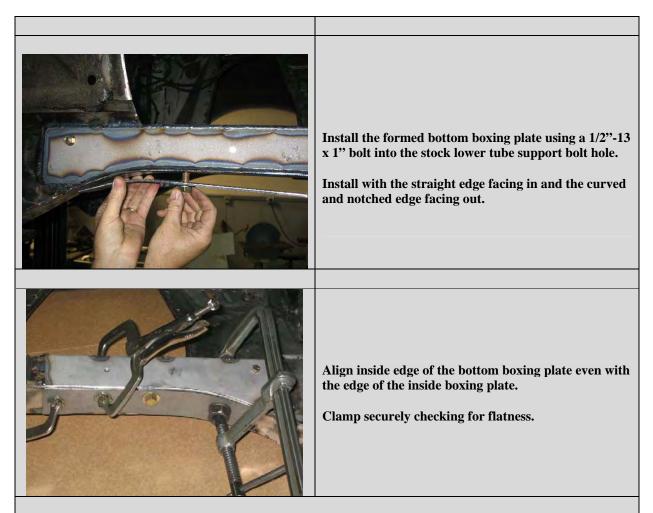
Massage down any high spots or irregularities that aren't straight and square with a small hammer.

Finally, weld the seam and side together also include the short flanges going up.









Tack-weld lower boxing plate. Weld inside edge to frame and inside boxing plate tying both together. Weld boxing plate on the underside of the frame. Don't weld the out side edge at this time.



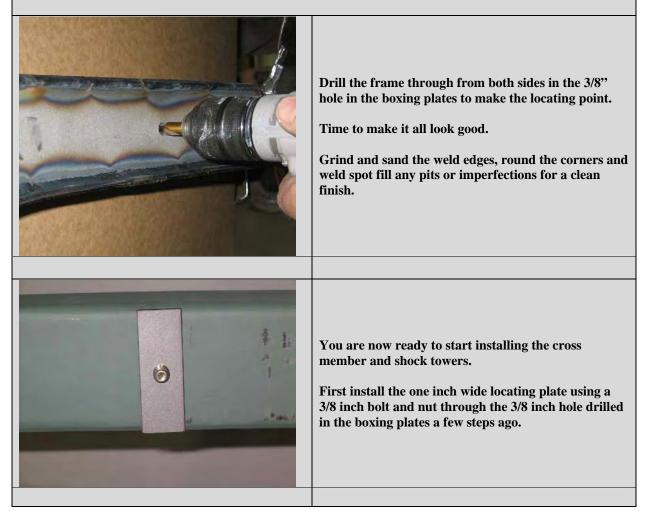
The outside edge of the frame is where the two stamped flanges of the frame are spot welded together and will require clearance grinding for the coil-over before welding.

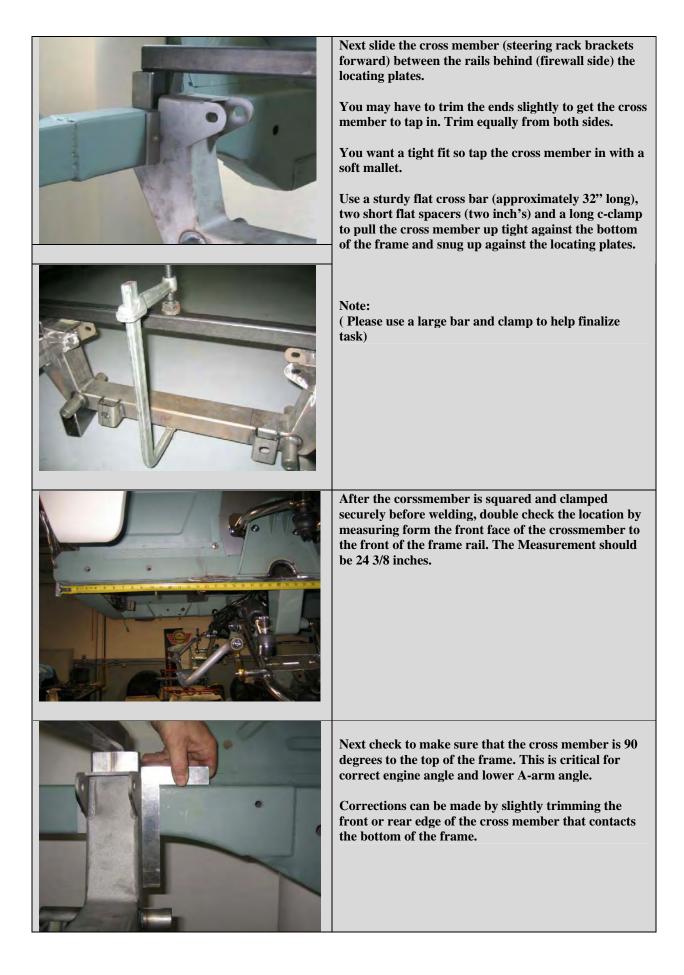


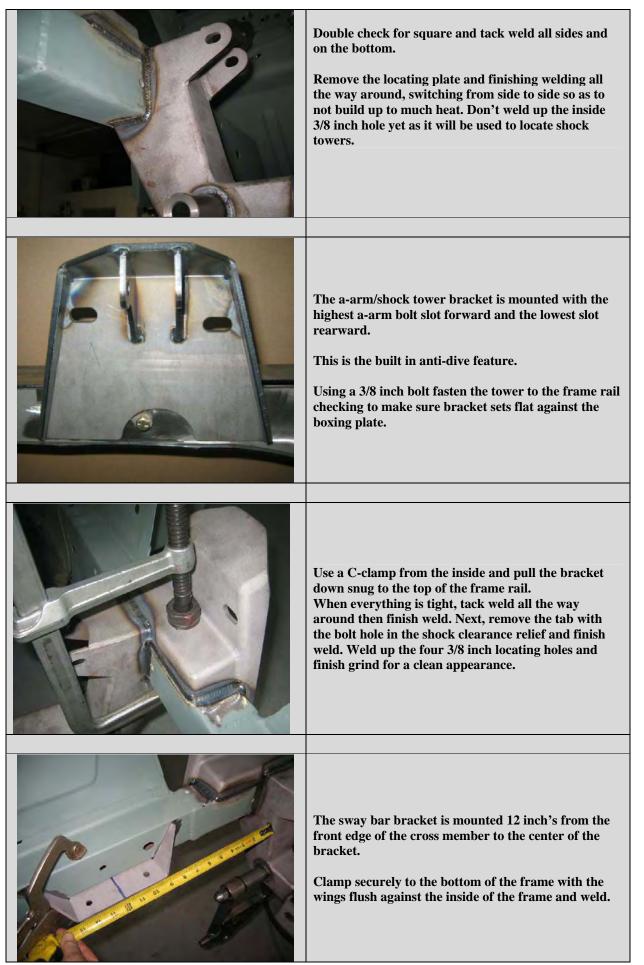
The entire length of the stamped flange edges needs to be removed.

Using the outer edge of the lower boxing plate as the template, grind the two flanges till they match the profile of the boxing plate edge.

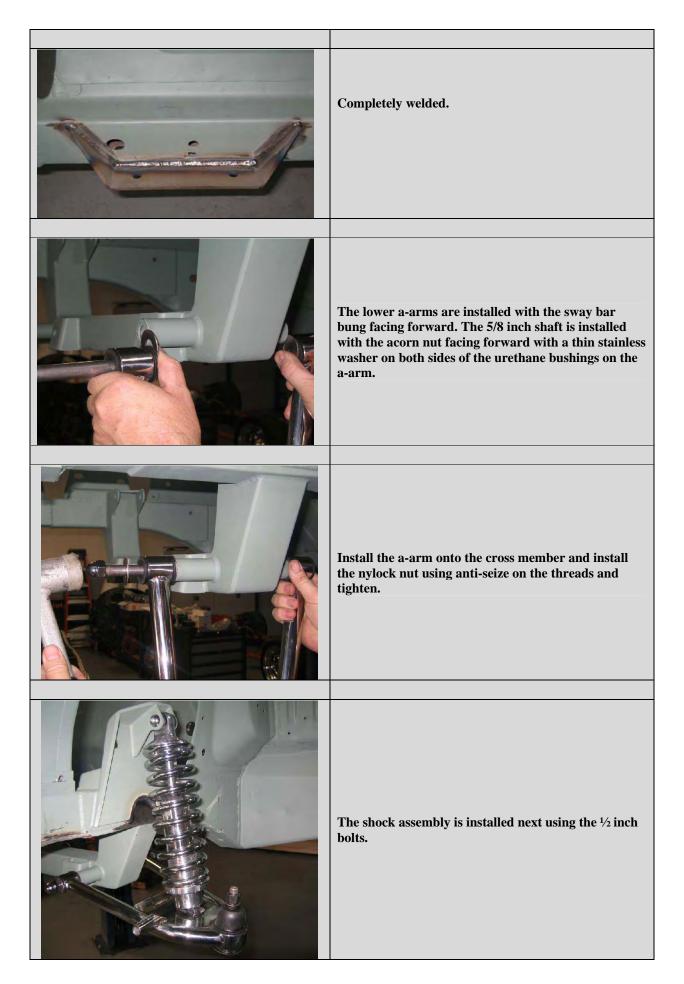
Turn the heat up on your welder and seam weld both frame flanges and the boxing plate edge together. Remove the $\frac{1}{2}$ inch bolt and weld up hole.

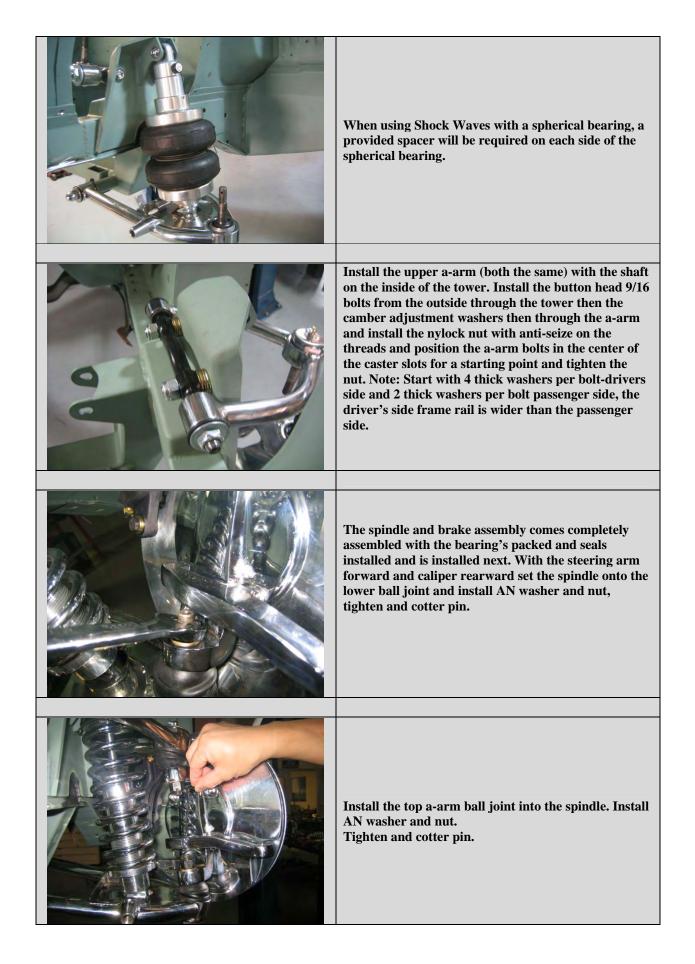


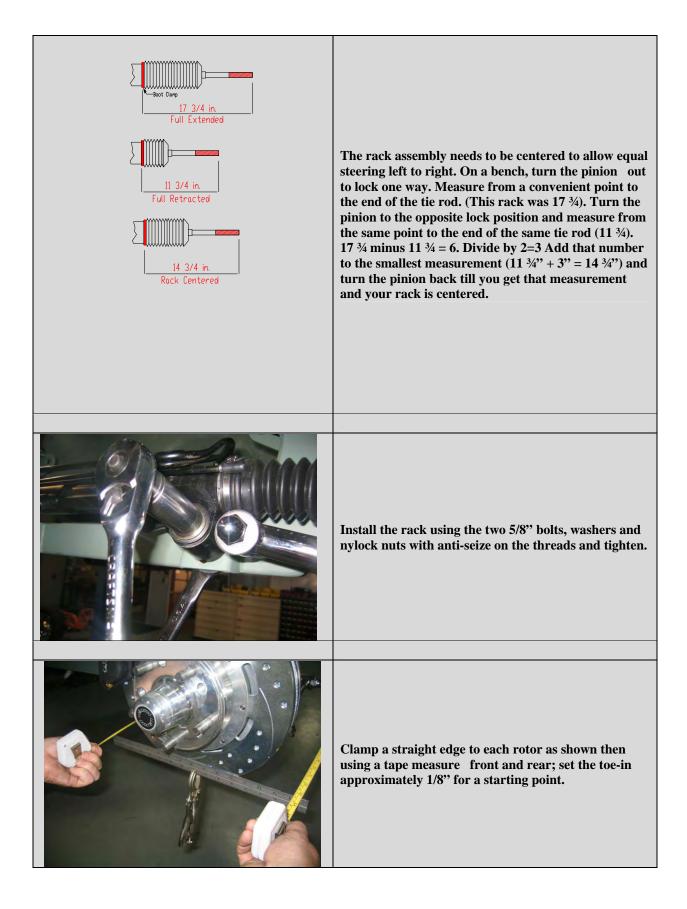


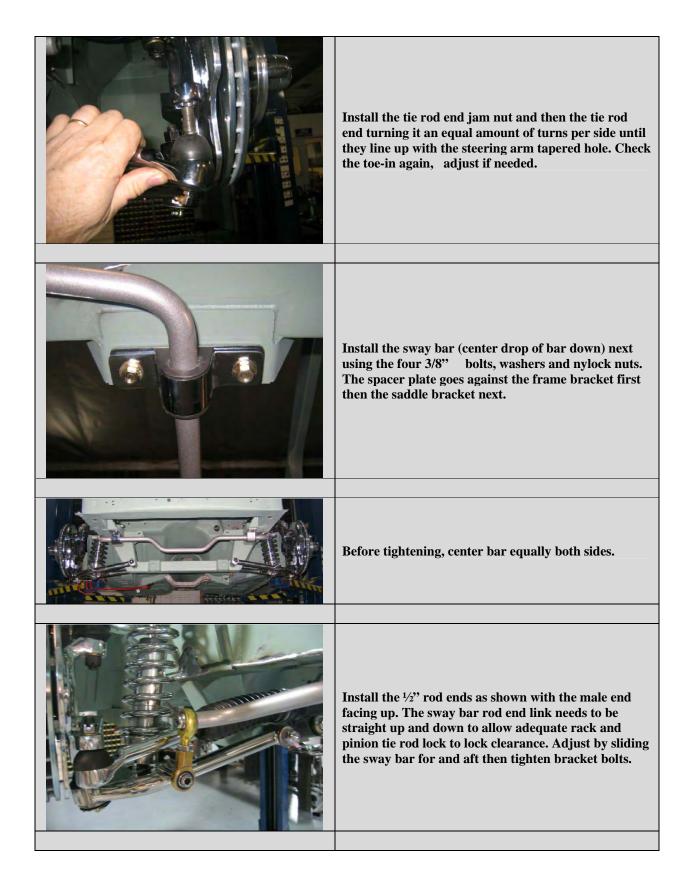


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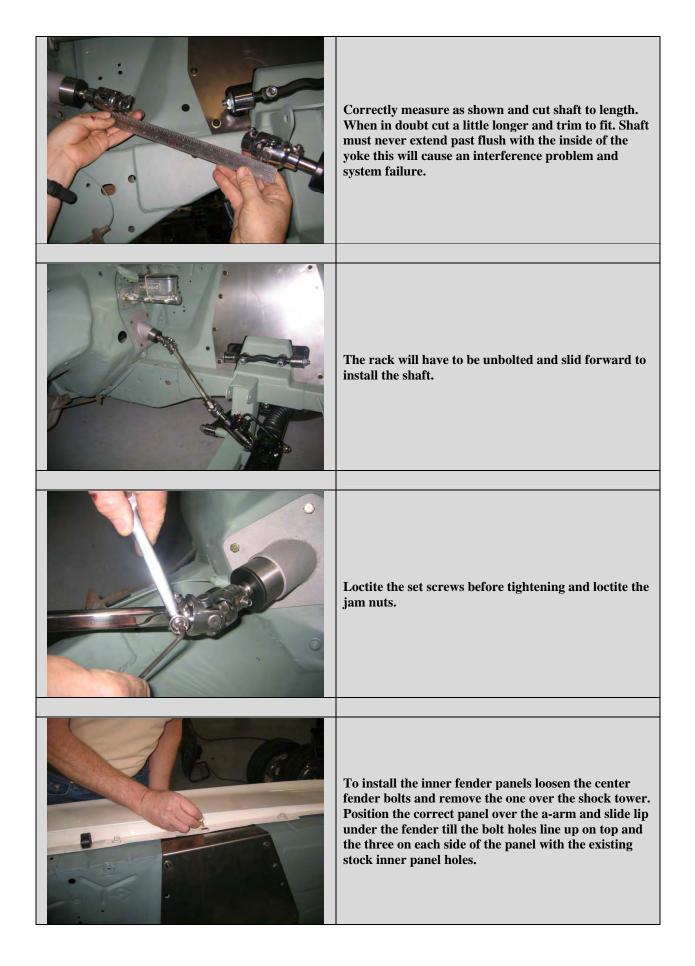
















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