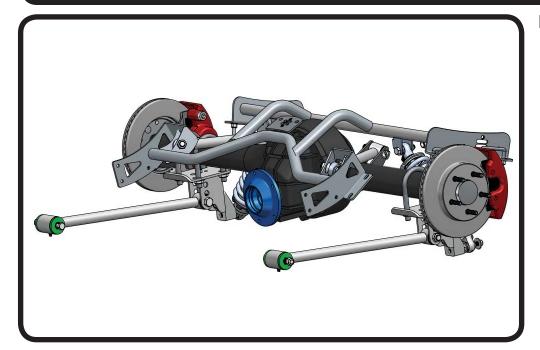




Part # 12087199 -1965-1970 Mustang Rear Bolt-in 4 Link



Recommended Tools





1965-1970 Mustang Rear Bolt-in 4 Link Installation Instructions



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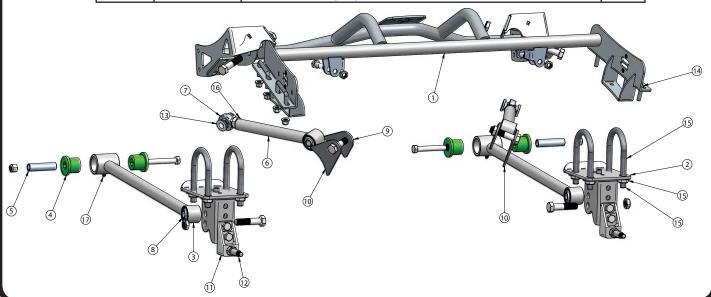






Major ComponentsIn the box

Item #	Part #	Description	QTY
1	90002198	Upper Cradle	1
2	90000515	Lower Axle Mount	
3	90001025	Lower Bar Assembly - 21 3/4" center to center	
4	90001085	Front Lower Bar Bushing (installed in bar)	
5	90000519	Front Lower Bar Inner Sleeve (installed in bar)	
6	90000946	Upper Bar - 11 3/4" center to center 2	
7	90001589	Upper Bar Heim End (installed in upper bar)	
8	90001942	Rubber Bushings (installed in bars)	
9	70011897	Inner Upper Bar Tab - Short	
10	70012018	Outer Upper Bar Tab - Tall	
11	90001642	Aluminum Lower Shock Mount	
12	90001617	Lower Shock Stud	
13	90000552	Heim End Spacers	
14	90002285	Square U-Bolts	7
15	99566001	Axle U-Bolts (+99566002 & 99566003)	4
16	99752004	3/4"-16 Jam Nut (installed on upper bar Heim)	
17	99250001	Grease Zerks (installed in lower bars)	2
	90002067	Lower Shock Spacers	4
	70010694	Bar Tab Setting Jig	2







Hardware ListIn the box (Kit# 99010054)

QTY	Part Number	Description	
6	99621003	5/8"x 2 3/4" Gr. 8 Bolt	4-Link Bars to Mounts
6	99622006	5/8" SAE Nylok Jam Nut	4-Link Bars to Mounts
14	99372002	3/8-16" Nylok Nut	Cradle to Car
14	99373003	3/8" SAE Flat washer	Cradle to Car
6	99373007	3/8"-16 Thread Forming Bolts	Cradle to Car
2	99501010	1/2"-20 x 2 1/4" Hex Bolt	Shock to Cradle
2	99502003	1/2"-20 Thin Nylok Jam Nut	Shock to Cradle
2	99501007	1/2"-20 x 1 1/4" Hex Bolt	Shock Mount to Axle Mount
2	99501009	1/2"-20 x 1 3/4" Hex Bolt	Shock Mount to Axle Mount
4	99502002	1/2"-20 Nylok Nut	Shock Mount to Axle Mount
2	99501029	1/2"-20 x 6 1/2" Hex Bolt	Front Lower bar to Chassis
2	99501017	1/2"-20 x 4 1/2" Hex Bolt	Front Lower Bar to Chassis
2	99502002	1/2"-20 Nylok Nut	Front Lower Bar to Chassis
2	99371001	3/8"-16 x 3/4" Hex Bolt	Bar Setting Jig
2	99372004	3/8"-16 Hex Nut	Bar Setting Jig

Getting Started.....

Congratulations on your purchase of the Ridetech Rear 4-link System. This system has been designed to give your Mustang excellent handling along with a lifetime of enjoyment. Some of the key features of this system: Tune ability, Replaces the Leaf Springs, this allows the 4-Link to locate the rearend and the CoilOvers/ShockWaves to support the car.

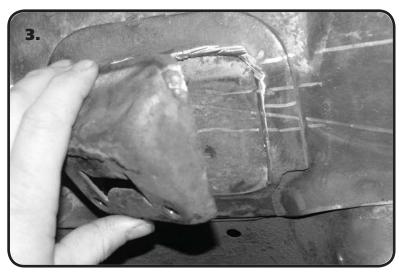
Note: These system is designed for use with the Ridetech Shockwaves or CoilOvers and the MuscleBar swaybar. **The factory shocks and springs will not fit this setup.**

- **1.** Raise the vehicle to a safe and comfortable working height. Use jack stands to support the vehicle with the suspension hanging freely.
- **2.** Support the axle and remove the leaf springs, shocks and tail pipes. Refer to the factory service manual for proper disassemble procedures. You might have to detach the fuel line form the frame rails.





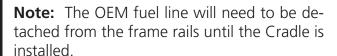
Cradle Installation

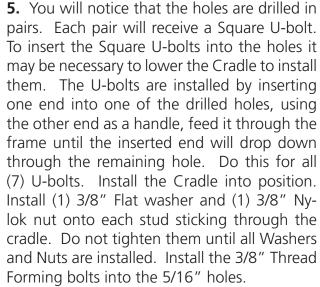


3. Remove the Factory Pinion Snubber and Mount from the car. We use a cut off wheel to remove the mount. Notice that we left the mounting lip of the mount attached to the car. This provides another layer of metal for the Front Tab of the Upper Cradle to attach too.



4. Install the cradle into the car. The rear corners of the Upper Bar Mounts locate into the front corner of the factory shock sheet metal mount. The Cradle is held in by (7) 3/8" Square U-bolts. Use the Cradle as a locator for drilling the holes. Drill the holes using a 7/16" drill bit. Drill The front 3 holes on each side with a 5/16" drill bit.





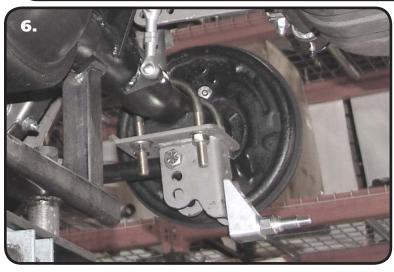




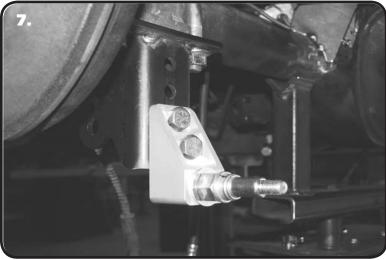
Installation



Lower Axle Mount & Lower Bar Installation



6. Install the Lower Axle Mount onto the Axle using the supplied U-Bolts. Run the nuts down to hold the mount in place, but DO NOT tighten yet.



7. Attach the Lower Shock Mount to the Axle Mount using (1) 1/2"-20 x 1 1/4", (1) 1/2"-20 x 1 3/4" Hex Bolts, and (2) 1/2"-20 Nylok Nuts on each mount. The Shock Mount is installed in the BOTTOM 2 holes of the Axle Mount. Install a Shock Stud and 5/8" washer in each Shock Mount. Tighten the mounting hardware and the Shock Stud.



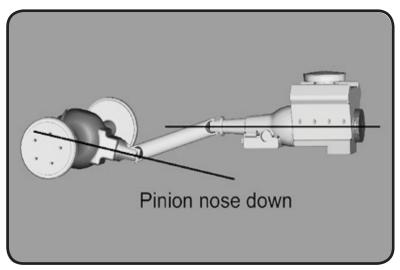
8. Install the Lower Bars with the Grease Zerk pointing down. The bar is attached to the Axle Mount in the **TOP HOLE** using (1) 5/8" x 2 3/4" Hex Bolt, and (1) 5/8" Thin Nylok Jam Nut. The front of the Lower Bar is attached with 1/2"x 6" Hex Bolt(64-67) or 1/2"x 4 1/2"Hex Bolt(68-70), and (1) 1/2" Nylok Nut.

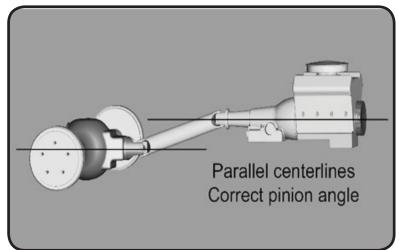
Note: This front bushing is polyurethane and is lubricated at the factory with lithium grease. Future lubrication can be done with any non-petroleum based lubricant. The rubber bushings don't require lubrication.

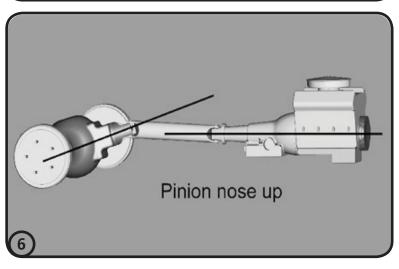




Setting Pinion Angle







READ PAGES 6-8 ON SETTING PINION ANGLES, UPPER BAR TAB JIG INSTALLATION, & SETTING RIDE HEIGHT.

How do you set the pinion angle? On a single-piece shaft you want to set it up where a line drawn through the center of the engine crankshaft or output shaft of the transmission and a line drawn through the center of the pinion are parallel to each other but not the same line.

A simple way to do this is to place a digital angle finder or dial level on the front face of the lower engine pulley or harmonic balancer. This will give you a reading that is 90 degrees to the crank or output shaft unless you have real problems with your balancer. At the other end, you can place the same level or angle finder against the front face of the pinion yoke that is also at 90 degrees to the center line. If you rotate the yoke up or down so both angles match, you have perfect alignment.

Road testing will tell you if you have it right. If you accelerate and you get or increase a vibration, then the pinion yoke is too HIGH. Rotate it downward in small increments of a degree or two until the problem goes away. If you get or increase a vibration when decelerating, then the pinion yoke is too LOW. Rotate it upward to correct it.





Upper Bar Tab Installation Jig

Upper Bar Installation Jig

This jig has been supplied to aid in the installation of the upper 4 link bar. It can be temporarily used to properly align, locate and weld the tabs onto the axle. It will also ensure that the mounting bolts are parallel to the ground.

Follow the diagram below to set the jig to the same length as the upper bar, use the 3/8" x 3/4" bolt

and nuts to set the length.

Position the axle at ride height. Center the axle left to right between the quarter panels. Set pinion

Bolt one end of the jig to the cradle using a 5/8" x 2 ¾" bolt.
Using another 5/8" x 2 ¾" bolt, fasten the axle tabs to the other end. The tall tab goes to the outside of the car. The short tab goes to the inside of the car. The tabs must be bolted to the outside of the jig.

Swing the bar down letting the tabs rest onto the axle. Trim the brackets as necessary to minimize the gap to be welded.

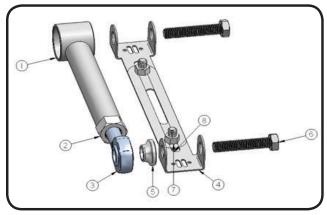
Check pinion angle, ride height and axle center. Tack-weld the tabs in place.

Remove jig and install upper bar.

Repeat this process for the other side.

Recheck pinion angle, ride height and axle center. (Sound familiar?)

After the tabs have been tack welded on both sides, remove the upper bars to avoid melting the rubber bushings. Let the axle drop down for better access to the tabs. Lay 1" welds on the inside and outside of the tabs. Skip around from one side to the other to avoid overheating the tube.



Item#	Description	
1	Upper Bar	
2	3/4"-16 Jam Nut	
3	Heim End	
4	Alignment Jig	
5	Aluminum Spacer	
6	5/8" x 2 3/4" Bolt	
7	3/8"-16 Nut	
8	3/8"-16 x 3/4" Bolt	



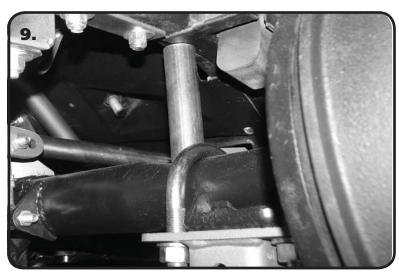


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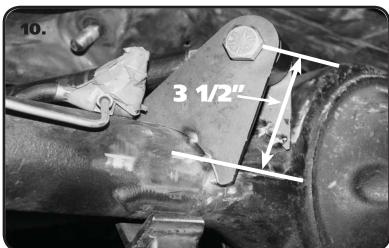


Installing Axle Tabs

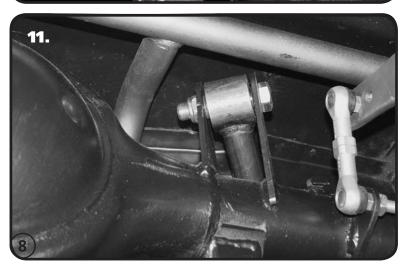


9. One helpful trick to maintain ride height when setting the pinion angle is to put a spacer between the axle and the frame. The spacer should be 4 1/2" tall. Set the pinion Angle and axle center. When measuring the axle center you can measure off of the frame rails. We also use a plum bob off the quarter panels to double check the axle center. Refer to Page 6 on Setting the Pinion Angle.

Note: You can tack weld the spacer in place after you get the Pinion Angle, and Axle Center set. This will ensure that nothing moves through the Upper Tab Installation.



10. Refer to Page 7 and set the length of the Upper Bar Jig and install the Tabs on the Jig. Insert the Jig into the Cradle. Set the Upper Tabs on the Rearend. Due to different variations of the Rearend Housings, it may be necessary to modify the tabs for the best fit. The height you are wanting to achieve with the upper bar end is 3 1/2" from the axle center line. Modify the tabs so that the center of the bar bushing will be 3 1/2" from the center of the axle.

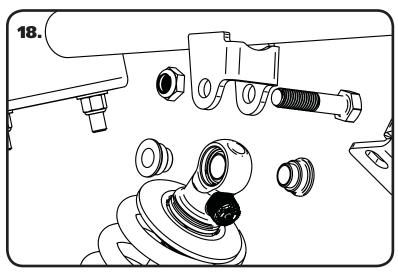


11. Once the bar end height is set, tack weld the tabs to the axle. Do this for the Driver and Passenger side bars. Insert the bars into the Cradle and Tabs to double check fitment. Recheck Axle Center and Pinion Angle. Once satisfied with fitment weld the Upper bar Tabs onto the Axle. Weld 1" at a time, skip around from one side to the other, and one tab to the other to avoid overheating the Axle Tube. When the tabs cool down, install the upper bars using (1)5/8" x 2 3/4" Bolt, and (1) 5/8" Thin Nylok Nut.



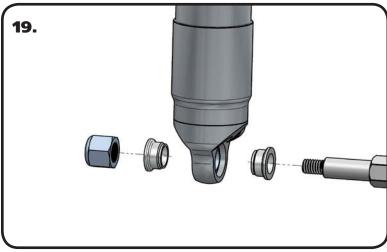


Installing Shockwaves/Coilovers



Remove the Spacer from between the Axle and Frame.

18. Install a 1/2" ID Spacer on each side of the upper Coilover/ShockWave. Slide the assembly into the upper crossmember from the bottom side. If your shock has an adjuster knob position it so that the knob points toward the center of the car. Line up the hole in the spacers with the hole in the upper shock bridge and insert 1/2" x 2 1/2" bolt and install 1/2" Nylok nut.



20. Install a 5/8" ID spacer(Small side towards shock body) onto the lower Shock Stud. Slide the bottom of the Shock onto the Stud. Install a second 5/8" ID Spacer onto the Stud(small side towards shock). You may need to jack the rearend up to Slide the Shock onto the Stud. Install the 7/16" Flatwasher and 7/16" Nylok nut. Tighten the upper and lower shock bolts.

Note: If installing Shockwaves and you want to locate the air fitting in a different location, the air spring assembly can be rotated on the shock by grabbing the shock and air spring assembly by hand and spinning the shock in the air spring assembly.

The designed ride height of the CoilOver/Shockwave is 14 1/2" center to center.

STILL HAVE QUESTIONS?

Tech line hours

Monday - Friday

8AM - 6PM (EST) 812-482-2932