

350 S. St. Charles St. Jasper, In. 47546 Ph. 812.482.2932 Fax 812.634.6632

www.ridetech.com

Part # 11027199 55-57 Chevy Rear AirBar (One Piece Frame)

Components:

| Components. | | | | |
|-------------|----------|-----------------------------------|--|--|
| 1 | 90000160 | Driver side lower axle bracket | | |
| 1 | 90000558 | Passenger side lower axle bracket | | |
| 1 | 90000556 | Front cross member (33.688") | | |
| 1 | 90000554 | Upper shock mount ` | | |
| 1 | 90000555 | Upper shock mount | | |
| 4 | 90000552 | Heim end spacer for diagonal bar | | |
| 1 | 90000550 | Lower shockwave mount | | |
| 1 | 90000551 | Lower shockwave mount | | |
| 8 | 90001942 | Pressed into bars | | |
| 4 | 90000956 | Parallel Bars C-C 18.50" | | |
| 1 | 90000941 | Diagonal bar C-C 30.25" | | |
| 2 | 90001617 | 5/8" Shock studs | | |
| 1 | 90000266 | Brake line tab | | |
| 4 | 90001584 | Rod end | | |
| 2 | 90001589 | Heim end for Diagonal link | | |
| 6 | 99752004 | 3/4"-16 Hex jam nut for rod ends | | |

Hardware Kit Part # 99010019:

| 30000334 | opper shock induit | | | |
|-------------------------------|---|--|--|--|
| 90000555 | Upper shock mount | | | |
| 90000552 | Heim end spacer for diagonal bar | | | |
| 90000550 | Lower shockwave mount | | | |
| 90000551 | Lower shockwave n | nount | | |
| 90001942 | Pressed into bars | 10 | | |
| 90000956 | Parallel Bars C-C 18.50" | | | |
| 90000941 | Diagonal bar C-C 30.25" | | | |
| 90001617 | 5/8" Shock studs | | | |
| 90000266 | Brake line tab | | | |
| 90001584 | Rod end | | | |
| 90001589 | Heim end for Diagonal link | | | |
| 99752004 | 3/4"-16 Hex jam nut 1 | for rod ends | | |
| | | . 10 | | |
| Hardware Kit Part # 99010019: | | | | |
| 1/2" x 3/4" Gr. 8 bolt | | Lower Shockwave Mount | | |
| 5/8" SAE Gr.8 Nyloc Jam nut | | Bar ends | | |
| | | Bar ends | | |
| 5/8" x 3" SAE gr.8 bolt | | Bar ends with diagonal link mounts | | |
| 1/2" x 2 1/4" SAE bolt | | Upper Shockwave mount | | |
| 1/2" SAE Nyloc jam nut | | Upper Shockwave mount | | |
| | | Crossmember and upper Shockwave mount | | |
| 3/8" Lock washer | | Crossmember and upper Shockwave mount | | |
| #10 x 3/4" Tek screws | | Brake line bracket | | |
| | 90000555 90000552 90000550 90000551 90001942 90000956 90000941 90001617 90000266 90001584 90001589 99752004 vare Kit Part # 9901 1/2" x 3/4" Gr. 8 bol 5/8" SAE Gr.8 Nyloo 5/8" x 2 3/4" SAE G 5/8" x 3" SAE gr.8 b 1/2" x 2 1/4" SAE bol 1/2" SAE Nyloo jam 3/8" x 1" type F thre 3/8" Lock washer | 90000555 Upper shock mount 90000552 Heim end spacer fo 90000550 Lower shockwave in 90001942 Pressed into bars 90000956 Parallel Bars C-C 16 90000941 Diagonal bar C-C 36 90001617 5/8" Shock studs 90001584 Rod end 90001589 Heim end for Diago 99752004 3/4"-16 Hex jam nut in vare Kit Part # 99010019: 1/2" x 3/4" Gr. 8 bolt 5/8" SAE Gr.8 Nyloc Jam nut 5/8" x 2 3/4" SAE Grade 8 bolt 1/2" x 2 1/4" SAE bolt 1/2" SAE Nyloc jam nut 3/8" x 1" type F thread forming bolt 3/8" Lock washer | | |



- 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, bump stops, pinion snubber and tail pipes. Refer to the factory service manual for proper disassemble procedures.



3. The parking brake brackets will be in the way of the 4 link and must be removed. Loosen the parking brake adjustment nut and remove the cable from the frame bracket. The tack weld can be broke loose with a hammer and chisel. Grind the remains of the weld smooth.

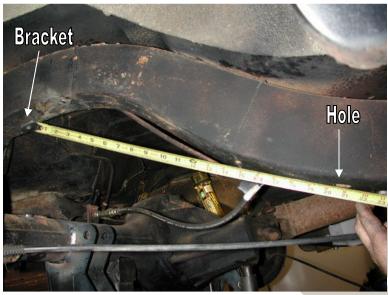


4. The rear brake line bracket on the passenger side fame rail must also be removed.

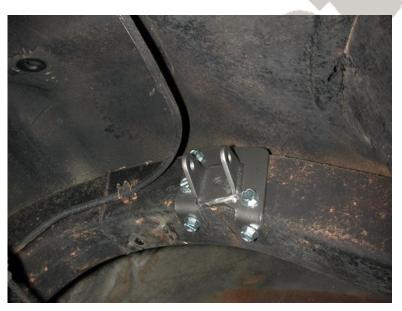


5. Use a couple clamps to secure the crossmember between the frame rails. Slide it forward to the edge of the body mounts. Drill the holes with a 5/16" bit and thread the 3/8" x 1" self-tapping bolts in one at a time.

Do not over tighten the self-tapping bolts; they can be stripped.



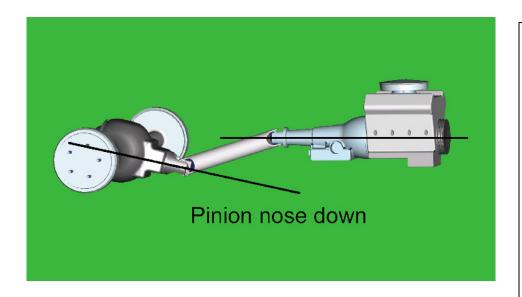
6. The location of the upper Shockwave mount is determined by measuring 20 1/4" from the edge of the bracket to the large hole in the bottom of the frame.

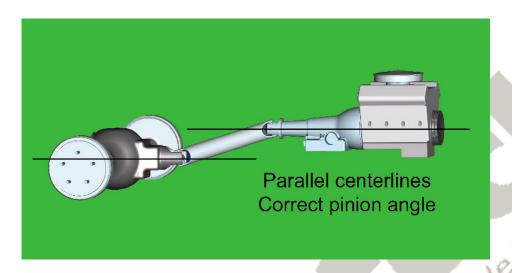


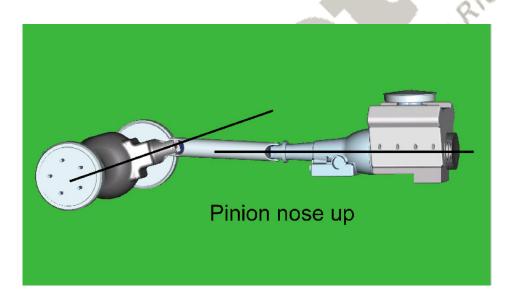
7. Use a clamp to hold the bracket against the inside of the frame and drill the holes with a 5/16" bit. Thread a 3/8" x 1" self-tapping bolt into the frame after drilling each hole.

ide Technologies

8. Note there is a driver and passenger side bracket and are stamped accordingly. When using the correct bracket the Shockwave will perpendicular with the ground.



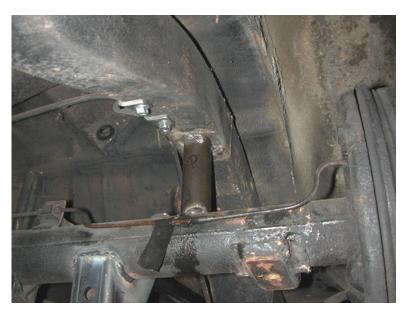




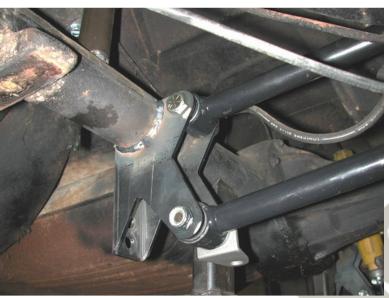
9. How do you set the pinion angle? On a single-piece shaft you want to set it up where a line drawn through the center of the engine crankshaft or output shaft of the transmission and a line drawn through the center of the pinion are parallel to each other but not the same line.

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 voke that is also at 90 degrees to the centerline. 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.



- 10. Pinion angle must be set at ride height. At ride height there should be 4 1/2" between the axle and frame.
- 11. One trick to help maintain these setting while welding in the axle bracket is to tack weld a 4 1/2" long spacer between the axle and frame.
- 12. After setting the pinion angle, make sure the axle is centered. This can done by measuring from the axle flange in to the frame rail.



- 13. Install the 4 link bars into the crossmember and axle bracket, but **do not tighten the bolts yet.** Use the 5/8" x 2 3/4" bolts and nylocs supplied. Check the length of the bars; they should be 18 1/2" C-C.
- 14. There is a driver and passenger side bracket. The passenger side bracket has the diagonal link bracket welded to it. These rod ends will use a 3" bolt. You can use a large hose clamp to hold these in place temporarily.



- 15. Swing the axle bracket up to the axle. These brackets must be centered and aligned with the crossmember mounts before welding. The brackets should be 31 5/8" apart on the outside measurement. Then just center it between the axle flanges.
- 16. Tack weld the bracket to the axle. Double-check axle center, bracket alignment, and pinion angle. Remove the bars to avoid frying the bushings. Then finish welding the bracket 1" at a time in different spots to avoid warping the axle.



- 17. Bolt the lower Shockwave mount to the axle bracket using the 5/8" x 3/4" Allen bolt. Apply anti-seize to the threads. It is easier to remove the bars to install these bolts.
- 18. There is a driver and passenger side bracket, the correct bracket will offset the Shockwave toward the wheel.



- 19. Bolt the diagonal link into place with a spacer on both sides of it using a 5/8" x 2 3/4" bolt and nyloc. It should measure 30 1/4" C-C.
- 20. Install the parking brake cable into the new tab on the cross member.
- 21. With the axle at ride height snug all the 4 link bolts. These bushings are rubber and do not require lubrication.



- 22. Apply thread sealant onto the air fitting and screw it into the top of the shockwave. Air fitting location can be moved by rotating the bellow assembly seprate from the shock.
- 23. Screw the stud into the lower billet mount. Place the washer over the stud then the Shockwave followed by another washer. Apply anti-seize to the threads and then nyloc nut.
- 24. The Shockwave/CoilOver is held to the upper mount using a 1/2" x 2 1/4" bolt and nyloc.



25. Remove the spacer from between the axle and frame.

26. A new brake line tab is supplied and will mount just below the original. Make sure it clears the bar through full suspension travel.

27. Driving height will be with approximately 13" from center eye to center eye.

