



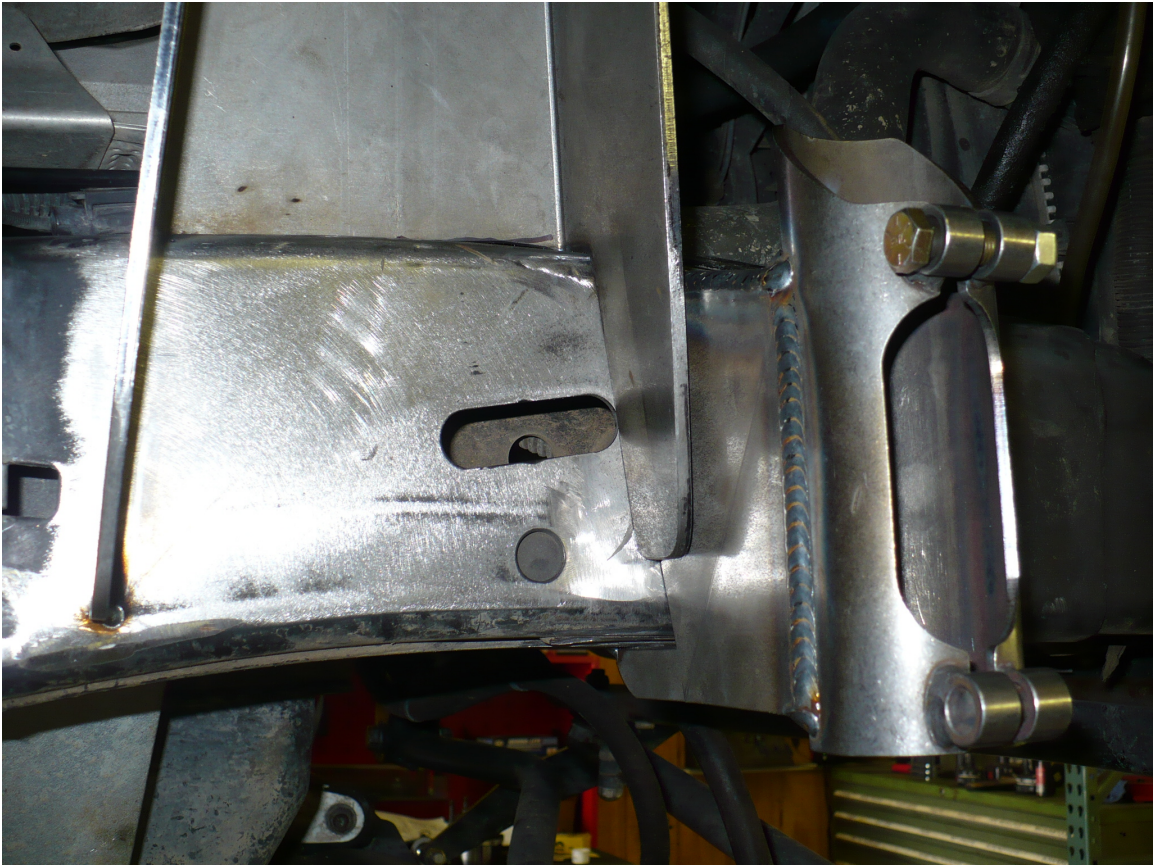
SYNERGY MFG. 870 INDUSTRIAL WAY, SAN LUIS OBISPO, CA (805) 242-0397

PPM-5011-03 AIR BUMP STOP BRACKET KIT INSTALLATION

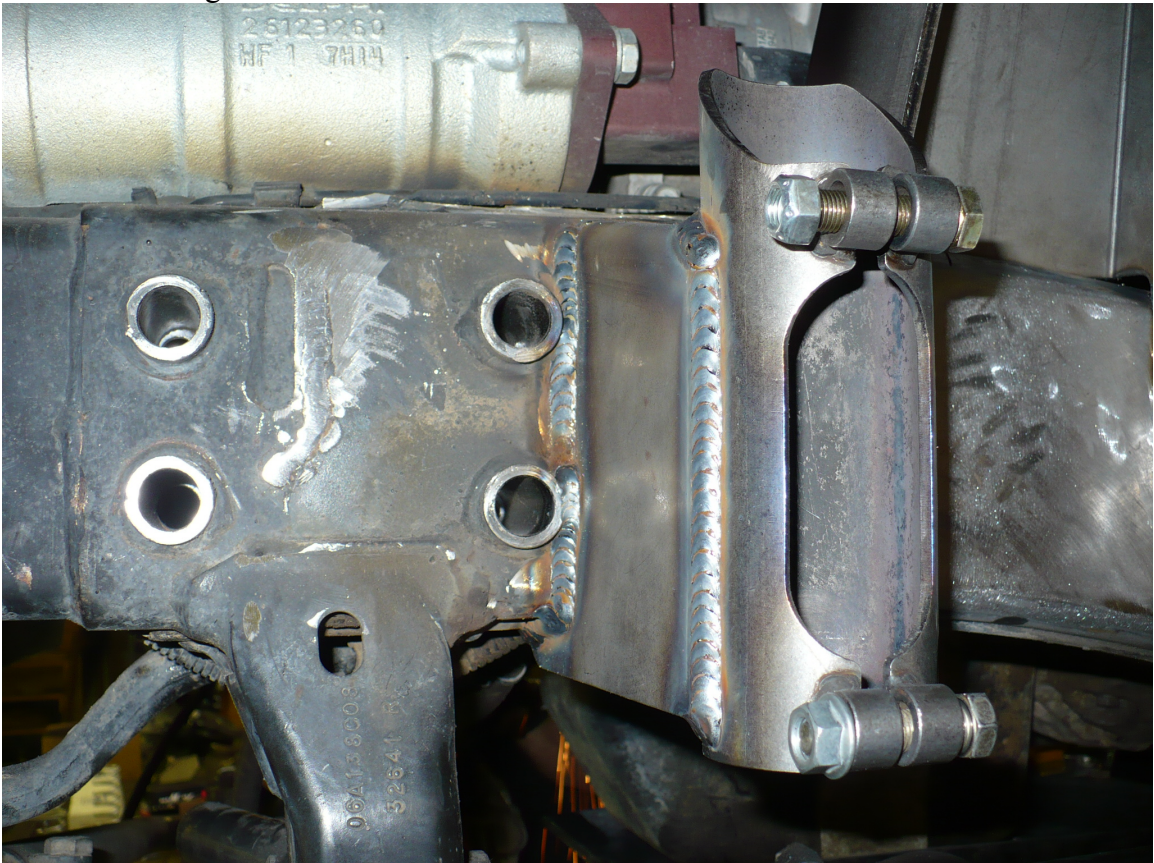
Version 1

GENERAL NOTES:

- These instructions are also available on our website; www.synergymfg.com. Check the website before you begin for any updated instructions and additional photos for your reference.
 - The installation of these brackets requires the use of PPM-5011 Coil over brackets and coil over shocks.
 - The installation of this bracket requires the complete removal of the stock shock and coil mounts on the frame and axle. A plasma cutter or oxy-acetylene torch works but you can also use a sawz-all and cut off wheel. The new bracket must be welded to the frame and axle tube. An experienced fabricator/welder is recommended to properly install this bracket.
1. Refer to complete PPM-5011 coil over instructions for bracket removal and installation of the rest of the required components
 2. Tack weld the air bump mounting brackets into place. Position the back of the air bump mounting bracket against the front of the shock brackets. The air bump mounting brackets are left and right specific; the side with the diagonal bend is the rear of the bracket. Put that side against the shock bracket.
 - a) Move the air bump bracket all the way back so it is against the front of the shock bracket.



- b) Make sure the front of the air bump mount is just behind the steering box mounting tubes.



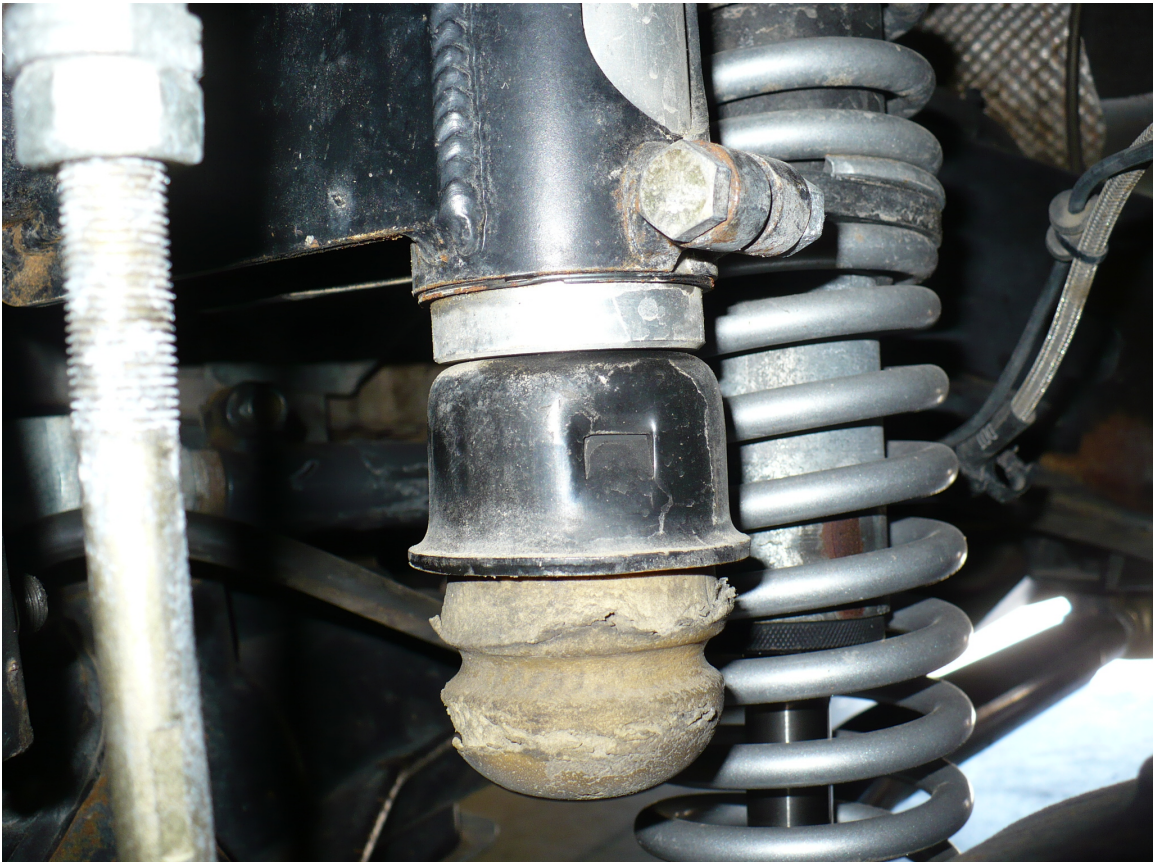
- c) Move the air bump mounting bracket all the way up so the bottom fingers are up against the bottom of the frame.



3. If you are not using air bumps and purchased the budget bump kit, cut the bump stop cup from the stock upper coil mount. Be careful to just cut the weld and leave the bottom of the cup intact. You will need a 3/8 x 1 coarse thread bolt and washer to attach the cup to budget bump.



Install the snap ring in the lowest groove; this will give you the same collapsed length as an air bump.



4. Now that all the shock and air bump brackets are tack welded into place, we recommend that you bolt the shocks into place without the coil springs and cycle the suspension to check that every thing clears. Make sure that the air bumps bottom out before the shocks do. Also check for brake line, driveline and steering linkage over-extension.
5. If everything fits and clears well, weld the brackets to the frame and axle mounts:
 - a) Weld all edges that the coil over shock bracket and air bump bracket contact the frame. Weld both inner vertical seams and the top of the frame between the shock bracket and frame. Weld the rear vertical seam above and below the brake line bracket hole. Weld the front, top and bottom of the air bump bracket. Also weld the back of the air bump mount to the front of the shock bracket.
 - b) Weld all edges that the lower shock bracket contacts the axle tube, front, bottom and both sides.
6. Clean the welds and paint the new brackets and frame.
7. Assemble the front suspension and coil over shocks. Torque the 1/2" shock bolts to 80 ft-lbs and the bump stop pinch bolts to 10 ft-lbs.