

READ ALL INSTRUCTIONS COMPLETELY AND THOROUGHLY UNDERSTAND THEM BEFORE DOING ANYTHING.  
CALL CHASSISWORKS TECH SUPPORT (916) 388-0288 IF YOU NEED ASSISTANCE.

## INSTALLATION GUIDE



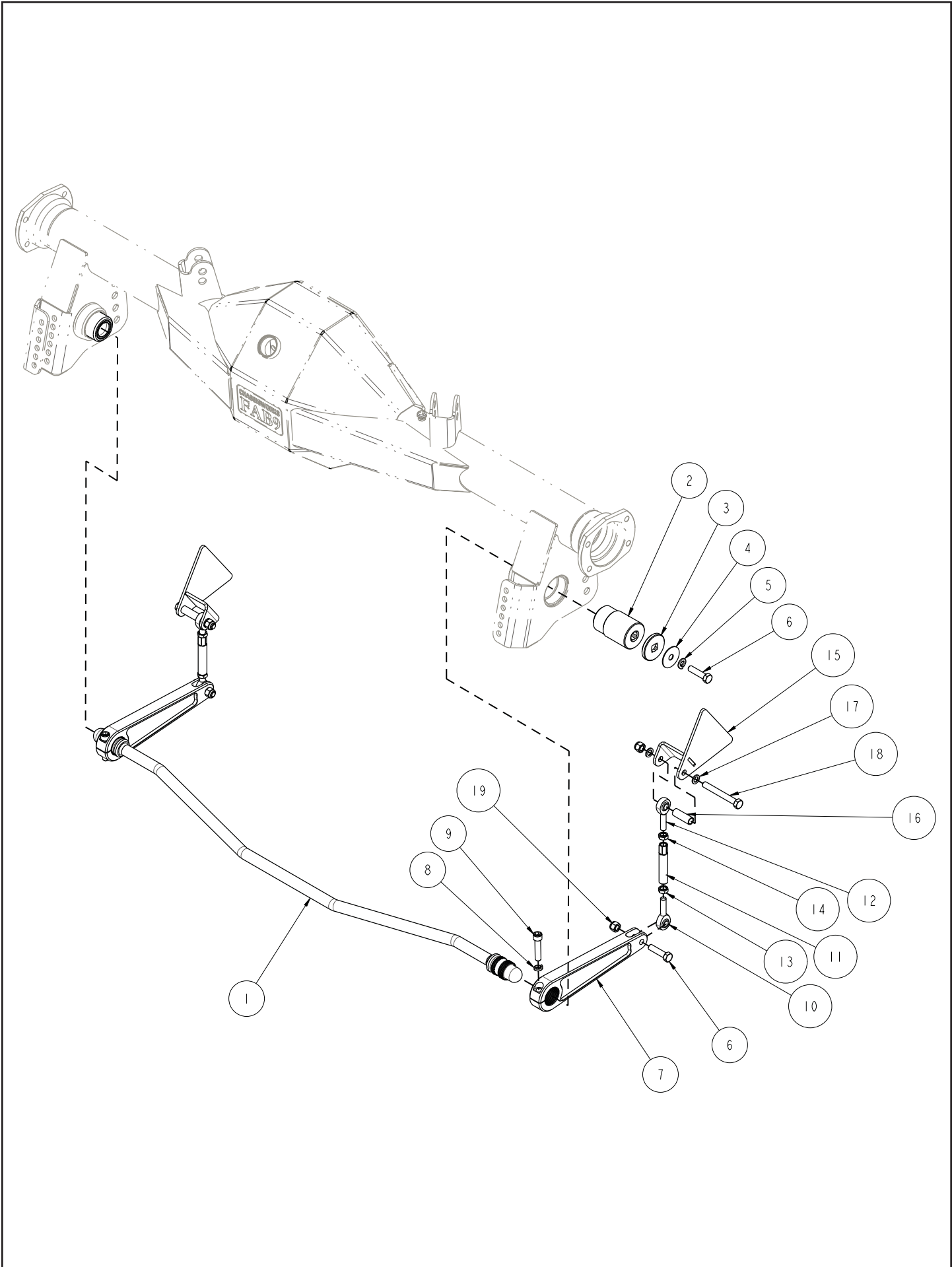
### 5806-M10 g-Bar Splined-End Anti-Roll Bar 1964-1973 Mustang and 67-70 Cougar



**Description:** Splined-end anti-roll bar for 1964-73 Mustang and 1967-70 Cougar g-Bar rear suspension.

**Includes:** 3/4" diameter bent-tube anti-roll bar, billet-aluminum arms, pivot sockets, endlink assemblies, and frame brackets.

**Notes:** Threaded mounting socket is part of lower axle-housing bracket and ships with g-Bar suspension system. Installation of chassis brackets requires welding.



ITEM	QTY	PART NO.	DESCRIPTION
1	1	5067	ANTI-ROLL BAR ASSEMBLY, $\varnothing$ 3/4, BALL PIVOT, G-BAR, 64-70 MUSTANG
2	2	3701	PRELOAD ADJUSTER ASSEMBLY BALL END ANTIROLL BAR
3	2	1262	LOCKING RING, 1 7/8-20 THREAD 1/2 DRIVE, BALL END ANTIROLL BAR
4	2	3222	FENDER WASHER 3/8 x 1 1/2
5	2	3108-038L-C	LOCK WASHER, HELICAL SPRING $\varnothing$ 3/8, STEEL, ZINC
6	4	3122	HEX BOLT, 3/8-24 x 1 1/2, GRADE 8, YELLOW ZINC
7	2	1468	ANTI-ROLL STRAIGHT ARM, 1 1/4-48 SPLINE, 8.20 LONG
8	2	3108-038H-C	HIGH COLLAR LOCKWASHER, 3/8 STEEL, CLEAR ZINC
9	2	3103-038C1.75C	SOCKET HEAD CAP SCREW, GRADE 8 3/8-16 x 1 3/4, CLEAR ZINC
10	2	3111-038X038-RT	ROD END 3/8 x 3/8 BORE, RIGHT MALE, TEFLON, CM6T
11	2	1086	ADJUSTER, 3.0 x 3/8-24, ANTI-ROLL BAR
12	2	3111-038X038-LT	ROD END 3/8 x 3/8 BORE, LEFT MALE, TEFLON, CML6T
13	2	3102-038-24RC	JAM NUT, 3/8-24 RIGHT, CLEAR ZINC
14	2	3102-038-24LY	JAM NUT, 3/8-24 LEFT, YELLOW ZINC
15	2	5340	FRAME BRACKET, ANTI-ROLL BAR, G-BAR, 64-70 MUSTANG
16	2	3140-1216-46	SLEEVE, $\varnothing$ 1/2 x .384 x 1 7/16
17	4	3109-038-S-2-Y	AIRCRAFT WASHER 3/8 x .062 THICK
18	2	3135	HEX BOLT, 3/8-24 x 3, GRADE 8, YELLOW ZINC
19	4	3101-038-24C	LOCKNUT, 3/8-24, GRADE 8, NYLON INSERT, CLEAR ZINC

DESCRIPTION		<b>ANTI-ROLL BAR, SPLINED, 64-70 MUSTANG, G-BAR</b>	
<i>Chris Alston's</i> <b>CHASSISWORKS INC.</b> 8661 YOUNGER CREEK DRIVE SACRAMENTO, CA 95828 (916) 388-0288 FAX 388-0295		PART NO.	<b>5806-M10</b>
		10/22/07	DWG: 915806-M10

# PARTS LIST

Prior to beginning installation use the following parts lists to verify that you have received all components required for installation.

## Splined-End Anti-Roll Bar - 300-0115

Qty	Part Number	Description
1	5067	Anti-roll bar 3/4" diameter, 1-1/4" 48 spline with 1" ball pivot ends

## Mounts and Hardware - 300-0116

Qty	Part Number	Description
2	1468	Billet anti-roll bar arm 1-1/4" 48-spline
2	5340	Frame bracket weldment
2	90300-0116.12	Hardware bag 1
2	90300-0116.22	Hardware bag 2

## Hardware Bag-1 - 90300-0116.12

2	1262	Lock ring 1-7/8-20
2	3100-038F1.50Y	Bolt 3/8-24 x 1-1/2 hex head Grade 8
2	3108-038L-C	Lock washer 3/8 regular
2	3157-038F-C	Fender washer 3/8 x 1-1/2 OD
2	3701	Preload adjuster socket assembly

## Hardware Bag-2 - 90300-0116.22

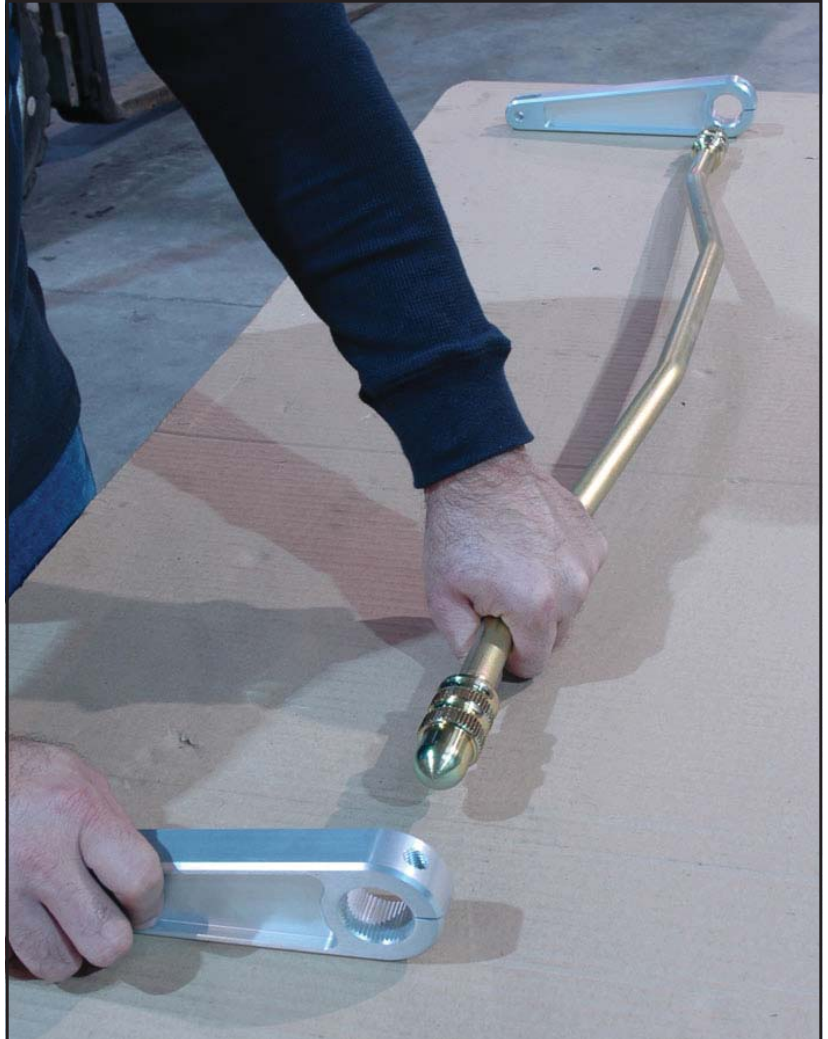
2	1086	Adjuster rod 3/8-24 x 3"
2	3100-038F1.50Y	Bolt 3/8-24 x 1-1/2 hex head Grade 8
2	3100-038F3.00Y	Bolt 3/8-24 x 3" hex head Grade 8
4	3101-038-24C	Locknut 3/8-24 nylon insert
2	3102-038-24LY	Jam nut 3/8-24 LH Grade 5, yellow zinc
2	3102-038-24RC	Jam nut 3/8-24 RH Grade 5, clear zinc
2	3103-038C1.75C	Allen head 3/8-16 x 1-3/4 socket head cap screw
2	3108-038H-C	Lock washer 3/8 high collar
4	3109-038-S-2-Y	Aircraft washer 3/8 small OD
2	3111-038X038-LT	Rod end 3/8-24 LH x 3/8 bore
2	3111-038X038-RT	Rod end 3/8-24 RH x 3/8 bore
2	3140-1216-46	Sleeve 1/2 x .384 x 1-7/16

# INSTRUCTIONS

## Anti-Roll-Bar Assembly

The anti-roll bar must be assembled to correctly position the bend for maximum center section clearance.

1. Place billet arms and anti-roll bar on a flat working surface. The arm's bolt counter-bores must be facing down.
2. Orient the anti-roll bar with the bend pointing the opposite direction that arms extend.
3. Rotate the bar approximately 45 degrees, so that the bent section is raised and insert a splined-end into the first arm until the splines are slightly engaged.
4. With the inserted arm laying flat on the table, raise the opposite end of the bar and slightly engage the splines. Make sure the arms are indexed the same so that they are flat to each other.



5. When correctly indexed, the top of the bend should be approximately 2-1/2 to 2-5/8" from the working surface. If the bend height is outside this range, disengage splines, rotate bar, reassemble, and then measure again.

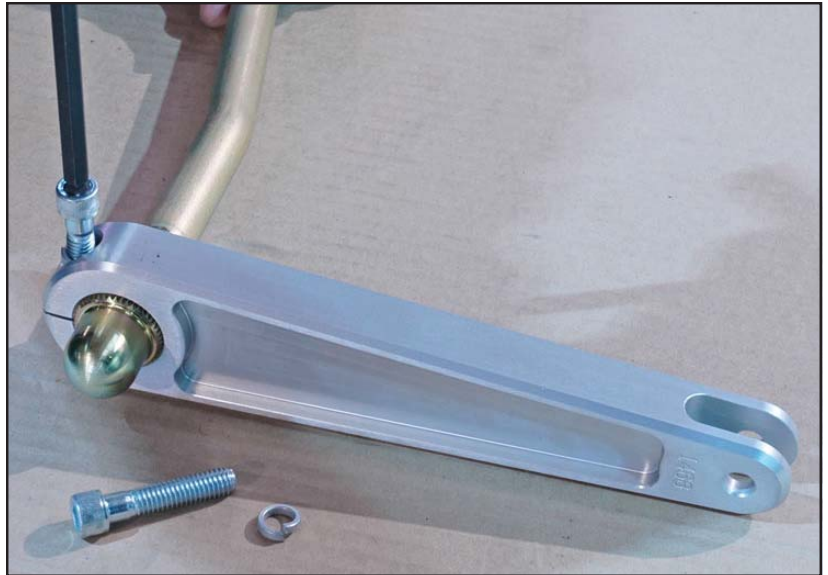
NOTE: Assembly orientation is upside down from actual installation orientation.





- Secure arms with 3/8-16 x 1-3/4" socket head cap screws and high-collar lock washers. Use a small amount of Loctite™ on the threads.

NOTE: This pinch-bolt configuration applies pressure against the spline to remove all play.



### Preload Adjuster Assembly

- Make sure 1-7/8" female threads in lower axle brackets are clear before beginning assembly. Use a wire-tooth brush in a rotating motion to clean the bores. The fine thread is easily seized up by debris or powder-coat residue.
- Apply a small amount of Anti-Seize™ to the internal threads of the sleeves.

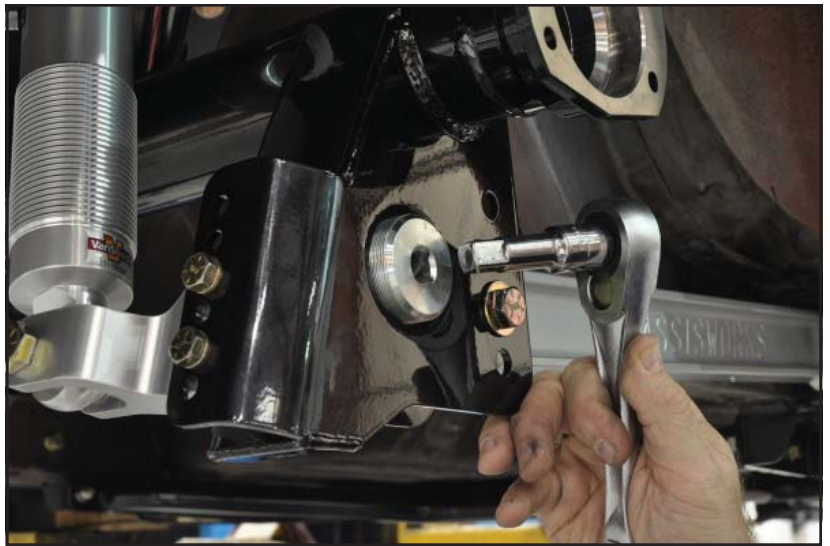


- The preload adjuster assemblies thread into the brackets with the bearing toward the inside.

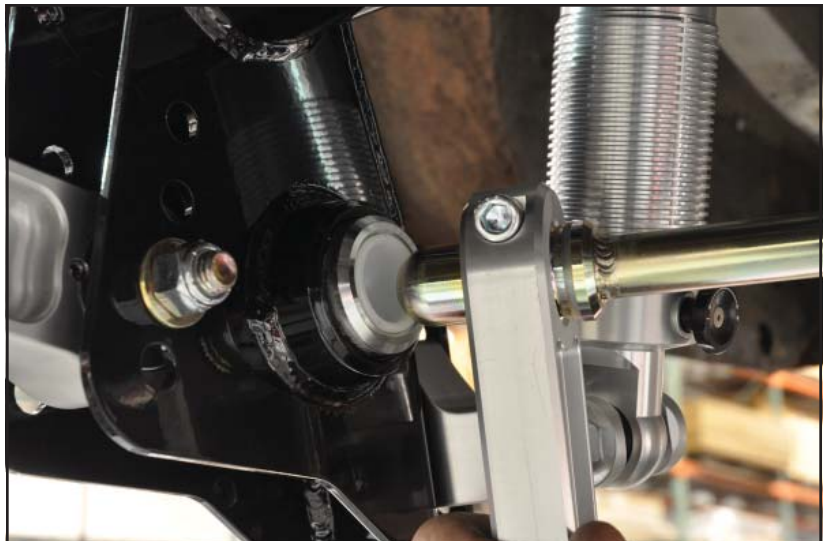


10. Use a 1/2"-drive ratchet and extension to thread the preload adjuster assemblies into the threaded sockets until they are even with the inside edge of the socket closest to the rear end center section.

DO NOT USE IMPACT WRENCHES OR FORCEFULLY THREAD THE ASSEMBLY TOGETHER TO AVOID DAMAGING THE THREADS.



11. Place the anti-roll bar assembly between the preload adjusters with the arms toward the front of the car and the pinch-bolt heads facing up.



12. Continue to tighten both adjusters evenly until the ball end of the anti-roll bar is bottomed out against the bearing.





13. Verify that the anti-roll bar is centered. Billet arms must be equal distance from the axle brackets.
14. Tighten both preload adjusters an additional 1/4 turn. Do not overtighten. Doing so will cause the anti-roll bar to flex.



15. Thread the locking ring into the axle bracket socket, so that it is seated tight against the preload assembly. Tighten to 50 lb-ft.



16. Secure with 3/8" fender washer, lock washer, and 3/8-24 x 1-1/2" hex bolt.
17. Tighten to 35 lb-ft.
18. Repeat steps for opposite side.





## Endlink Adjuster Assembly

19. Chase the endlink threads using 3/8-24 right- and left-hand taps.



20. Thread 3/8"-24 jam nuts onto each rod end until 3/4" of threads have passed the jam nut. This will position the jam nut at approximately half travel. Yellow-zinc jam nut indicates left-hand threads.

21. Thread the endlink adjuster tube onto the rod ends. Hex end of the adjuster indicates left-hand threads. Do not force threads.



22. Attach the endlink adjuster assemblies to the billet arms. Use 3/8-24 x 1-1/2" hex bolts and locknuts provided. Torque mounting hardware to 35 lb-ft.



## Frame-Clevis Welding

23. Raise the rearend housing to ride-height position.
24. Temporarily install the endlink using the 3/8-24 x 3" bolts and sleeves. The sleeve will be placed against the rod end, toward the outside of the frame rail.
25. Position the endlink frame clevis against the frame.
26. Mark the outline of the clevis base onto the frame rail, and then move the clevis out of the way.



27. Using a scotch-brite wheel to clean the weld area on the frame rail and to remove the zinc coating along the edges of the endlink frame bracket.
28. With the endlinks still attached, place the frame brackets into position and tack weld to the frame rails.



29. Check for any clearance issue with the anti-roll bar throughout the suspension's range of travel. This must be done without springs installed on the shocks or without air pressure if using ShockWaves®.



Ride Height



Full Extension



Full Compression



30. Unbolt the endlink assemblies from the frame brackets, and then weld completely around bracket to frame joints.
31. Allow the welds to cool, and then spray paint area to protect against rust.

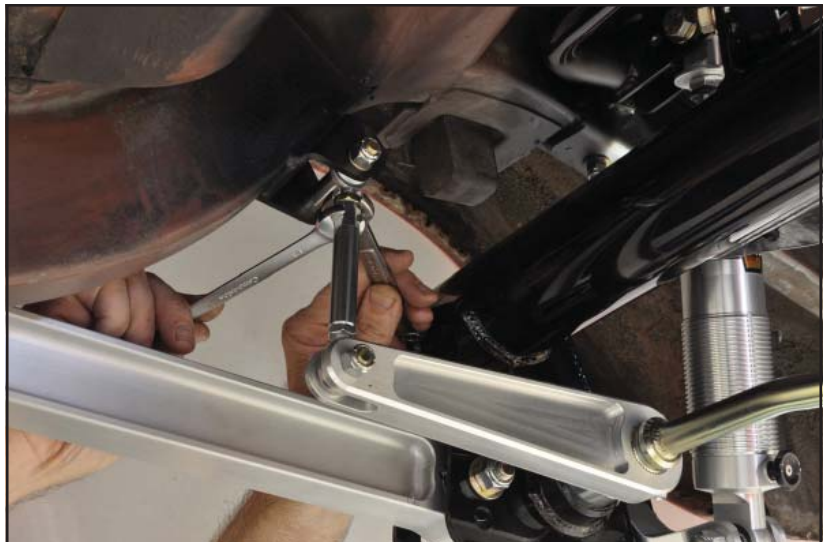


32. Install adjuster link assembly into frame mounted bracket.
33. Torque mounting hardware to 35 lb-ft.
34. Adjuster links should be in a neutral position, meaning that there is NO preload placed upon the anti-roll bar. If there is any preload present, adjuster links will be difficult to turn by hand. If necessary, adjust one of the link assemblies to a shorter length until preload is neutral.

DO NOT add preload to the chassis using adjuster links.



35. Rotate each rod end body so that it is centered within its clevis, then tighten jam nuts.



36. Verify that all mounting hardware is correctly installed and torqued to specification.



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