

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SYNERGY MFG. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF SYNERGY MFG IS PROHIBITED.

Revisions			
Rev.	Description	Date	Approved
A	Initial Release Per ECO 20-042	4/6/2020	KB
B	Revised Per ECO 20-063	6/12/2020	A.S.
C	Revised Per ECO 20-105	12/9/2020	KB



Jeep JL/JT Front Sway Bar Links With Quick Disconnects

Installation Instructions

Applications:
2018+ Jeep Wrangler (JL/JLU/JT)



TITLE:
**JEEP JL/JT FRONT SWAY BAR LINKS
WITH QUICK DISCONNECTS**

SIZE	DWG NO:	REV
A	8859-01-INST	C
	SCALE: N/A	PAGE 1 OF 11



**JEEP JL/JT FRONT SWAY BAR LINKS WITH QUICK DISCONNECTS
INSTALLATION INSTRUCTIONS**

Thank you for purchasing the best aftermarket products available for your vehicle. We strongly feel that the parts you are about to install should meet or exceed your expectations for performance. Proper assembly is critical to the performance of these components and the vehicle as a whole. Please take the time to carefully read these instructions and familiarize yourself with the installation procedure before working on your vehicle. If you have any questions PLEASE contact Synergy Manufacturing BEFORE beginning installation. Thanks again for supporting Synergy – enjoy the performance benefits of the best aftermarket products available for your vehicle!

Synergy Manufacturing
Phone: (805) 242-0397
Email: support@synergymfg.com

Modifying or otherwise altering vehicle components may cause the vehicle to handle differently than originally designed. It is the driver’s responsibility to familiarize themselves with the performance and handling characteristics of the modified vehicle. Vehicles with larger diameter than stock tires must be driven carefully and cannot be expected to perform as stock or meet OEM performance with regard to handling, braking or crash performance. Ensure all replacement components are compatible with vehicle capacities so as not to overload components, especially tires. It is up to the individual to ensure that the vehicle and all components are compatible with the intended vehicle use, including load ratings, road conditions, and driver abilities. Thorough and frequent vehicle inspections are recommended to ensure a safe and reliable state of readiness, especially after off-highway use.

PARTS LIST

8859-01 Jeep JL/JT Front Sway Bar Links with Quick Disconnects		
QTY	Part Number	Description
1	885901-L-PC	JL/JT FRONT SWAY BAR LINK, LEFT, POWDER COATED
1	885901-R-PC	JL/JT FRONT SWAY BAR LINK, RIGHT, POWDER COATED
1	885902-L-PL	JL/JT FRONT SWAY BAR DISCONNECT BRACKET, LEFT, PLATED
1	885902-R-PL	JL/JT FRONT SWAY BAR DISCONNECT BRACKET, RIGHT, PLATED
2	4165-01	SWAY BAR END LINK TIE ROD END, 12MM STUD, GOLD ZINC
1	4100-10	SPHERICAL SWAY BAR BUSHINGS (PAIR)
4	807701	SWAY BAR DISCONNECT STUD WITH WRENCH FLATS
2	N/A	LINCHPIN, 3/16” PIN, 1 9/16” LENGTH
4	N/A	TOP LOCK NUT, 1/2-20 UNF, ZINC PLATE
2	N/A	3/8-16 UNC X 3.5” LONG HEX HEAD BOLT, GRADE 8
4	N/A	3/8” SAE FLAT WASHER, GRADE 8
2	N/A	TOP LOCK NUT, 3/8-16 UNC, ZINC PLATE
4	N/A	1/2” SAE FLAT WASHER, GRADE 8
2	N/A	HEX HEAD THREAD CUTTING SCREW, 5/16” X .75” LONG



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.
- We recommend that even Rubicon owners with the factory electronic sway bar disconnect install the frame side disconnect brackets. On vehicle's with long travel suspension, lots of droop travel may allow the sway bar links to over-center. Manually disconnecting them will prevent this from happening. And, in the rare occurrence the factory electronic sway bar disconnect system fails, the system can still be manually disconnected.
- If installing these on a stock height Wrangler with no bump stop spacing, it is necessary to cut off the outer sway bar end link tab on the passenger side of the front axle.
- Vehicles with 2-4" of lift will require either our 8855-01 Front Track Bar Relocation Bracket or the 8855-02 Front Sway Bar Link Relocation kit in order to prevent link over-centering at full droop. A minimum of 2" front bump stop spacing is required.
- Replacement bushings and tie rod ends are available from our web site; www.synergymfg.com.
- JT Gladiator pickups will need to drill one hole on the pass side frame rail in order to install the disconnect brackets

TOOLS REQUIRED

- 14mm, 15mm, 1/2", 9/16" and 3/4" sockets/wrenches
- 6mm Allen Key
- Torque Wrench
- Angle Grinder with Cutoff Wheel (If installing on stock height Wrangler)
- Spray Paint (If installing on stock height Wrangler)

ESTIMATED INSTALLATION TIME

1 Hour

INSTALLATION

1. Remove the factory front sway bar end links with a 18mm socket and wrench for the lower bolt and a 18mm wrench and 6mm allen key for the upper stud. The 6mm allen is to prevent the stud from spinning.
2. If the end links are being installed on a lifted vehicle proceed to **step 3**. If the end links are to be installed on a stock height Wrangler (no lift) then the passenger side outer axle side tab must be removed. Using an angle grinder with a cutoff wheel, cut off the tab along the axle. See **Figure 1**. Be careful not to damage the axle tube while cutting. After the tab has been cut off, paint any bare metal to prevent corrosion.



Figure 1. Removing Outer Passenger Side Sway Bar Tab

3. Identify the right and left side end links. There is a zerk fitting at the lower bushing on each end link, it should face forward, towards the front of the vehicle. The bend in the link should be oriented so that the bushing end is closer to the wheel and the tie rod end is closer to the center of the vehicle. The axle side mounting width is wider than the sway bar side mounting width. **Figure 2** shows the links oriented correctly, with the zerk fittings facing forward, the bushing ends out, and the tie rod end studs oriented in.
4. Make sure the sway bar links are the same length by adjusting (threading) the tie rod ends in or out. For most applications the links should be adjusted to the shortest possible length (fully collapsed). You can compare the two side by side as in **Figure 2**, or by measuring overall length.



Figure 2. Setting the End Links to the Same Length

5. Install the sway bar link tie rod ends into the sway bar, with the nuts towards the frame. Use an open end 14mm wrench to hold the flats on the stud next to the dust boot in order to prevent the stud from spinning. The nut requires a 15mm socket. Tighten to 60 lb-ft. See **Figure 3**. Verify the end links are oriented correctly at this time and make sure the zerk fittings on the sway bar links are facing toward the front of the vehicle. See **Figure 4**.



Figure 3. Installing the Driver's Side (Left) Sway Bar End Link



Figure 4. Correctly Installed Driver's Side (Left) Sway Bar End Link

6. If the links are being installed on a lifted vehicle proceed to **step 7**. For stock height (no lift) applications, install a stud in the driver's side (left) axle tab, with the stud pointing in towards the center of the vehicle. Install a washer against the bracket under the nut. Use a 9/16" wrench to hold the stud from spinning and torque nut to 80 lb-ft with a 3/4" wrench or socket. Install another stud on the passenger side (right), with a washer under the nut, in the hole in the factory track bar bracket. The stud should be facing out, away from the center of the vehicle. See **Figure 5**. Torque to 80 lb-ft. After studs have been installed on the axle proceed to **step 9**.



Figure 5. Disconnect Stud Installed on Factory Track Bar Mount

7. Lifted applications must use either the Synergy 8855-01 Front Track Bar Relocation Bracket or the 8855-02 Sway Bar Relocation Brackets in order to mount the disconnect pins to the front axle. The driver's side (Left) of the vehicle uses a relocation bracket to mount the disconnect pin. Use a 1/2" washer and 1/2" lock nut and securely tighten the sway bar disconnect stud in the top hole of the bracket with the stud facing in towards the center of the vehicle. Use a 9/16" wrench to hold the wrench flats on the end of the stud and use a 3/4" socket to torque hardware to 80 lb-ft. See **Figure 5**.



Figure 5. Disconnect Stud Installed in Relocation Bracket

8. Install the passenger side (Right) disconnect stud on the axle. Use a 1/2" washer and 1/2" lock nut and securely tighten the sway bar disconnect stud in the top hole of the bracket. If using the 8855-02 Relocation Brackets, the stud should face in towards the center of the vehicle. If using the 8855-01 Front Track Bar Relocation Bracket the stud should face out towards the passenger side wheel. Use a 9/16" wrench to hold the wrench flats on the end of the stud and use a 3/4" socket to torque hardware to 80 lb-ft. See **Figure 6**.



Figure 6. Passenger Side (Right) Disconnect Stud Installed with 8855-01 Front Track Bar Relocation Bracket

- The remaining two disconnect studs get installed into the frame-side sway bar disconnect brackets. The brackets are etched 8859-L (Left side) and 8859-R (Right side), The left side of the vehicle is the driver's side, the right side is the passenger side. Left and right-side brackets are almost mirror images of each other, with the exception of the one small middle hole. On the JLs the small middle hole is offset on the driver's side (Left) and it is almost in line with lower hole on the passenger side (Right). See **Figure 7**.



Figure 7. Left and Right Side Bracket Examples.

- Before mounting the brackets to the frame, install the disconnect pins into the brackets. Use a 1/2" washer and 1/2-20 UNF top lock nut to secure the disconnect pins to the top hole in the brackets. The top of the brackets bend out and up from the frame and the disconnect pins will protrude out from the frame. See **Figure 8**.



Figure 8. Disconnect Pins Installed into the Brackets.

11. On each side of the frame just behind the front grill mount there is a slotted hole with a small hole right above it. These holes will be used to mount the disconnect brackets. See **Figure 9**.

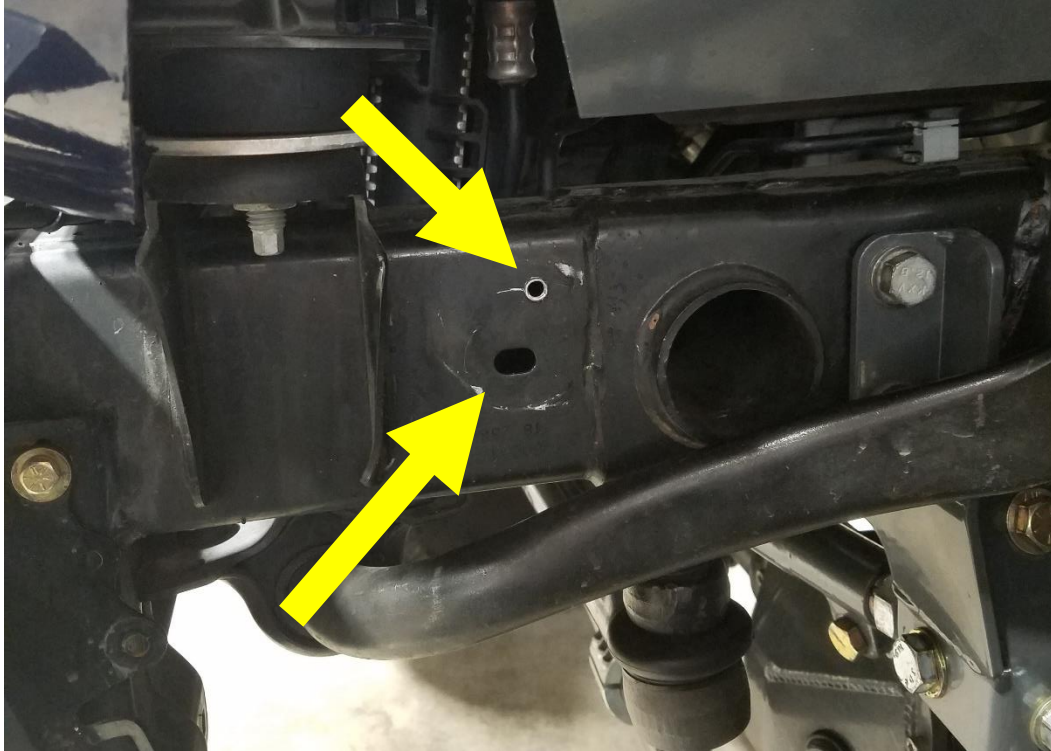


Figure 9. Disconnect Bracket Mounting Holes (Driver's Side)

12. Insert the 3/8" x 3.5" long bolts and washers through the bottom hole in the brackets and through the slotted holes in the frame. Secure on the backside with the 3/8" top lock nuts. Snug the bolts up, but do not torque at this time. See **Figure 10**.



Figure 10. Installing the Lower 3/8" Bolt Through the Frame (Driver's Side)

13. The smaller upper round hole in the brackets lines up with the round holes in the frame above the slotted holes. Use the 5/16" self-tapping screws in these holes and lightly tighten them. You should be able to rock the brackets back and forth a little bit. See **Figure 11**. **Note: JT Gladiator pickups will need to drill a 17/64" hole on the pass side for the self-tapping screw. Align the bracket vertically and use it as a template to mark the location of the small hole.**



Figure 11. Installing the 5/16" Self-Tapping Bolt in the Upper Hole (Driver's Side)

14. To adjust the brackets, install the already adjusted sway bar links onto the disconnect pins on the brackets. Get both sides fully seated on the disconnect pins. Make sure the brackets are roughly parallel with the weld seam on the frame. Now, torque the 3/8" bolts and nuts to 40lb-ft, then torque the 5/16" self-tapping screws to 40 lb-ft. By getting both sway bar links installed onto the brackets before tightening, the brackets will be oriented to allow easy installation and removal of the sway bar links. See **Figure 12**.

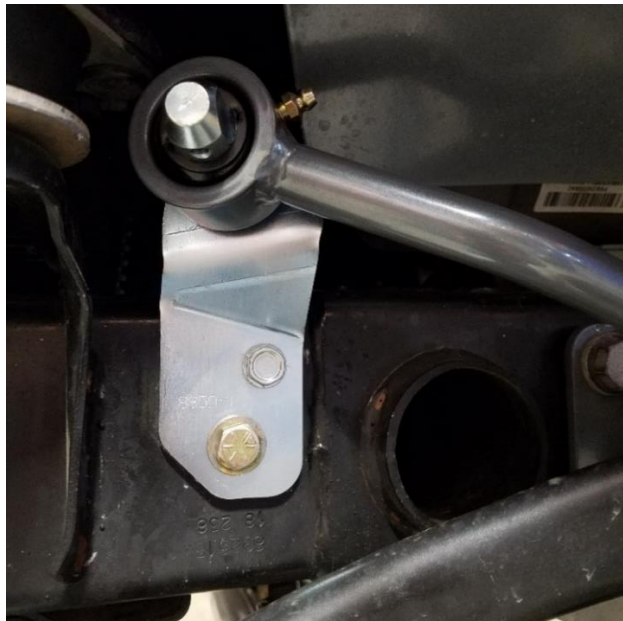


Figure 12. Sway Bar Link Fully Seated on Disconnect Bracket (Driver's Side)

15. Reinstall the bushing ends of the sway bar links onto the axle disconnect studs and secure with the included linchpins. You may have to rock the vehicle to one side or the other in order to get both links on to the disconnect pins on the front axle. Once the sway bar bushings are greased, the bushings will be easier to move. **Figures 13 and 14** show correctly disconnected and re-connected end links.

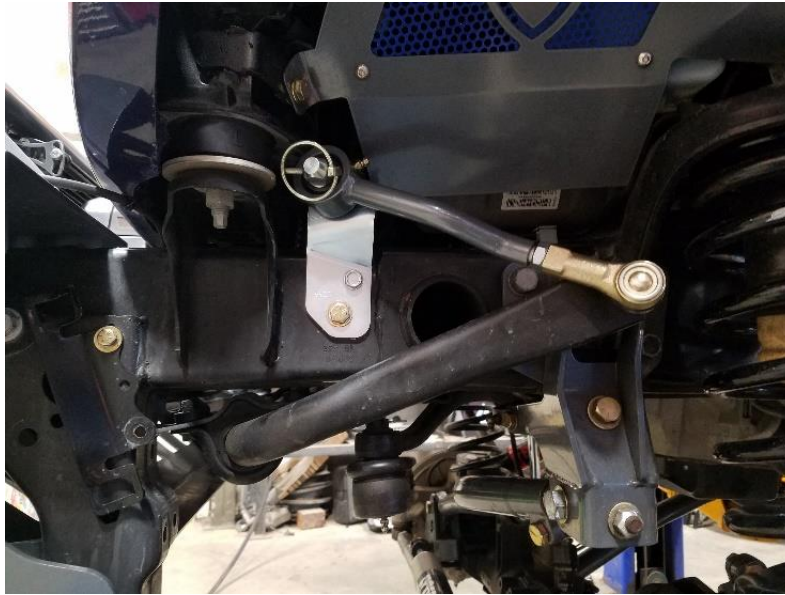


Figure 13. Correctly Installed and Disconnected Link (Driver's Side)



Figure 14. Correctly Installed and Connected Link (Driver's Side)

16. Use a grease gun and the zerk fitting on the sway bar links to lubricate the bushings. One or two pumps is all it should take. Wipe off any excess.

Installation is Complete