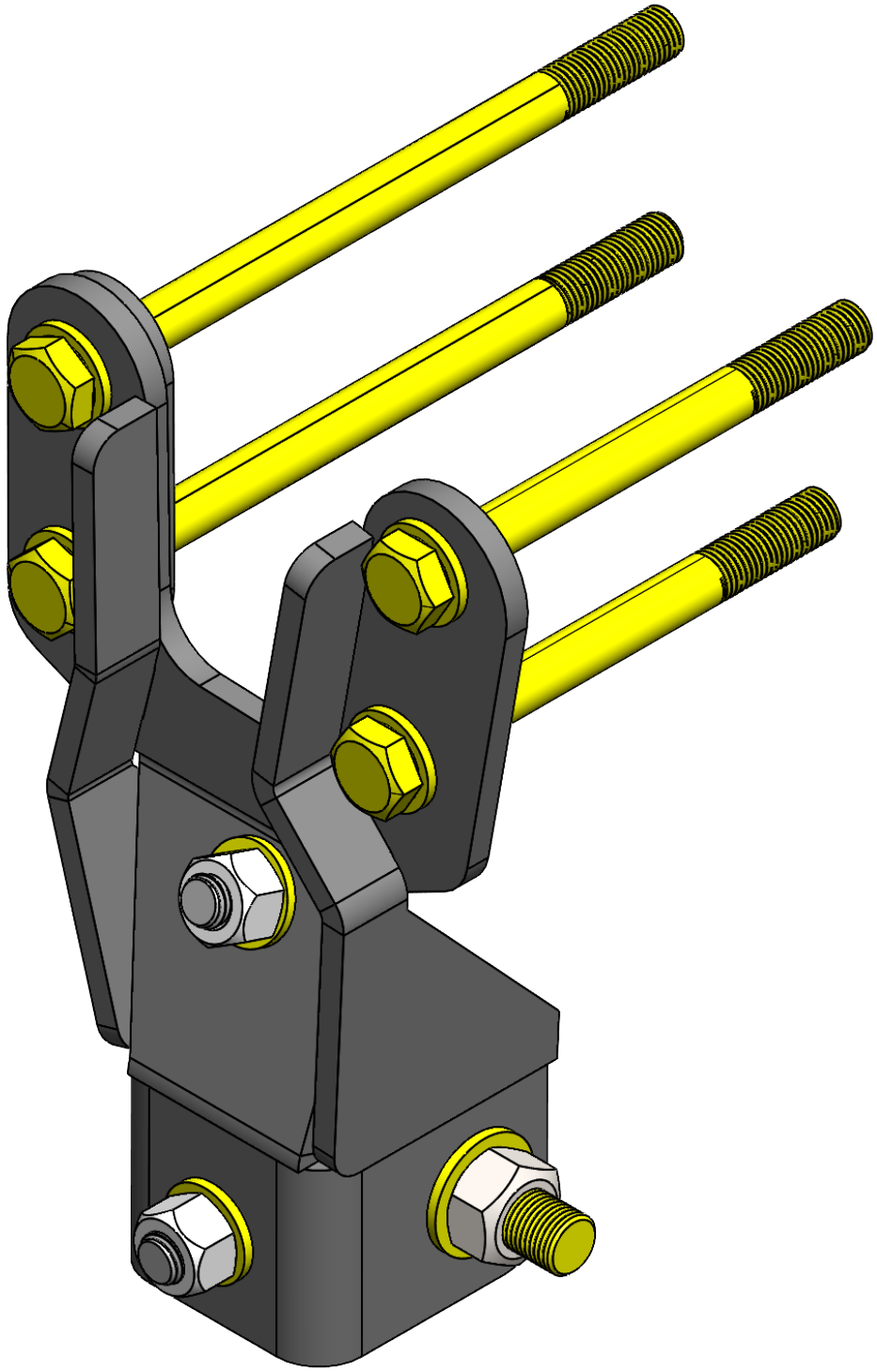
CLAYTON OFF ROAD
COR-4509122
JEEP WRANGLER TRACK BAR REINFORCEMENT BRACKET (2018-2023, JL/JT)



NOTES: This product may require general welding, fabrication and automotive mechanic skills. Welding should only be done by a competent welder. Clayton Off Road implies no guarantees or warranties and is not liable for improper installation. Some grinding and fitment may be required when installing this product. Every vehicle varies slightly and some fabrication may be required.

For more information please visit our website.

COR-4509122 PARTS LIST

4509122 Track Bar Reinforcement Bracket Frame Side (2018+, JL/JT)			
QTY	Part Number	Description	Class/Grade
1	4509122	JL/JT Front Track Bar Reinforcement Bracket	N/A
2	11114718	M12-1.50 x 180 mm Long Bolt	Class 10.9
4	11114713	M12-1.50 x 110mm Long Bolt	Class 10.9
6	11103710	M12-24mm Washer	Class 10.9
1	18950	9/16"-18 x 3.75 Bolt	Grade 8 SAE
2	33818	9/16" x 1.156 OD Washer	Grade 8 SAE
1	37310	9/16" x 18 Top Lock Nut	Grade C SAE
2	0141348	M12-1.75 x 30mm BHSCM Hex Cap Screw	Class 10.9
2	90683	M12-1.75 Top Lock Nut	Class 10.9

PRODUCT NOTES

- This kit includes hardware for installation of the COR Track Bar Reinforcement Bracket for both the aluminum and steel steering box, no additional purchase necessary

- If you have an aluminum steering box, make note of which bolts go where.
  There are two longer bolts that will need to be replaced with M12-1.50 x 180mm bolts included in this kit. the other two shorter bolts will need to be replaced with M12-1.50 x 110mm bolts which are also included in this kit.

- If you have a steel steering box (painted black), you will use all four M12-1.50 x 110mm bolts included in this kit

- This bracket is designed to fit around the stock track bar bracket. A tight fit is required to achieve the necessary clamping force around the track bar bushing to prevent binding. **This bracket was designed with a tight fit.** All vehicles vary slightly, so some grinding on the welds of the stock track bar bracket may be required

- This is a bolt-on installation and designed to reinforce the stock track bar bracket. This is not a replacement part. Fix any damage to your stock track bar bracket before installing the Track Bar Reinforcement Bracket

INSTRUCTIONS – COR 4509122

1. Remove the frame-side track bar bolt using a 13/16" socket and wrench. It is easier to remove this bolt with the vehicle on the ground. If the bolt is bound up inside the bracket, rock the vehicle, tire, or axle back and forth and pull the bolt out

2. Remove the axle-side sway bar end links and tuck them up and out of the way. Some vehicles will require you to remove the front driver's side wheel for additional clearance.

3. Remove the 4 steering box bolts using an 18mm socket or wrench. If you have an aluminum steering box, make a note of the 2 longer bolts. **See Figure 1**
    a. **NOTE:** The steering box will drop slightly when these bolts are removed. When re-installing new hardware in a later step, you will need to push up on the box via the pitman arm to get the new hardware to thread properly

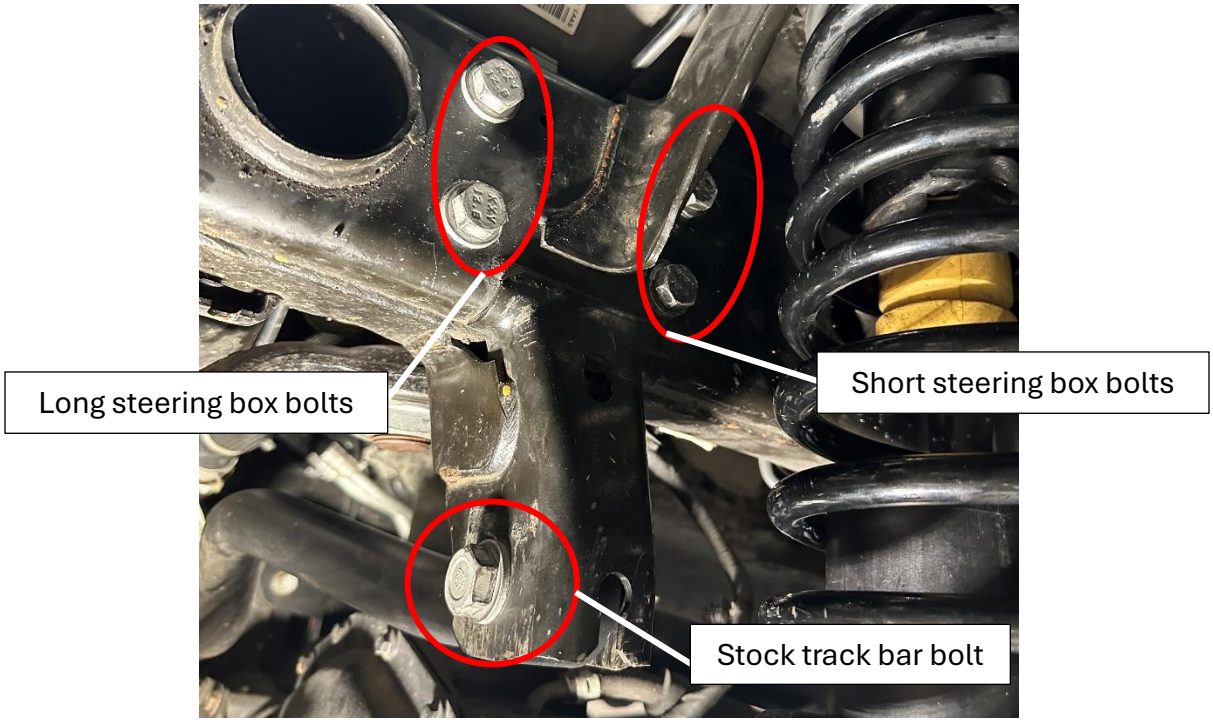


Figure 1: Stock Track Bar Bracket

4. Slide the Track Bar Reinforcement Bracket onto the stock bracket from the bottom. **Fitment will be tight.** Use a rubber mallet or a dead blow hammer to slip the bracket over the stock position until you can slip the supplied 9/16"-18 x 3.75" bolt through the track bar bolt hole. **Do not tighten yet, as this bolt will be removed in a future step.** **See Figure 2**
    a. **NOTE:** If you cannot hammer the bracket into place with a couple of blows, you may need to grind down the stock welds highlighted in Figure 2
    b. **NOTE:** If you do not complete this step, the bracket may be misaligned at the steering box mounting holes, resulting in difficult installation.

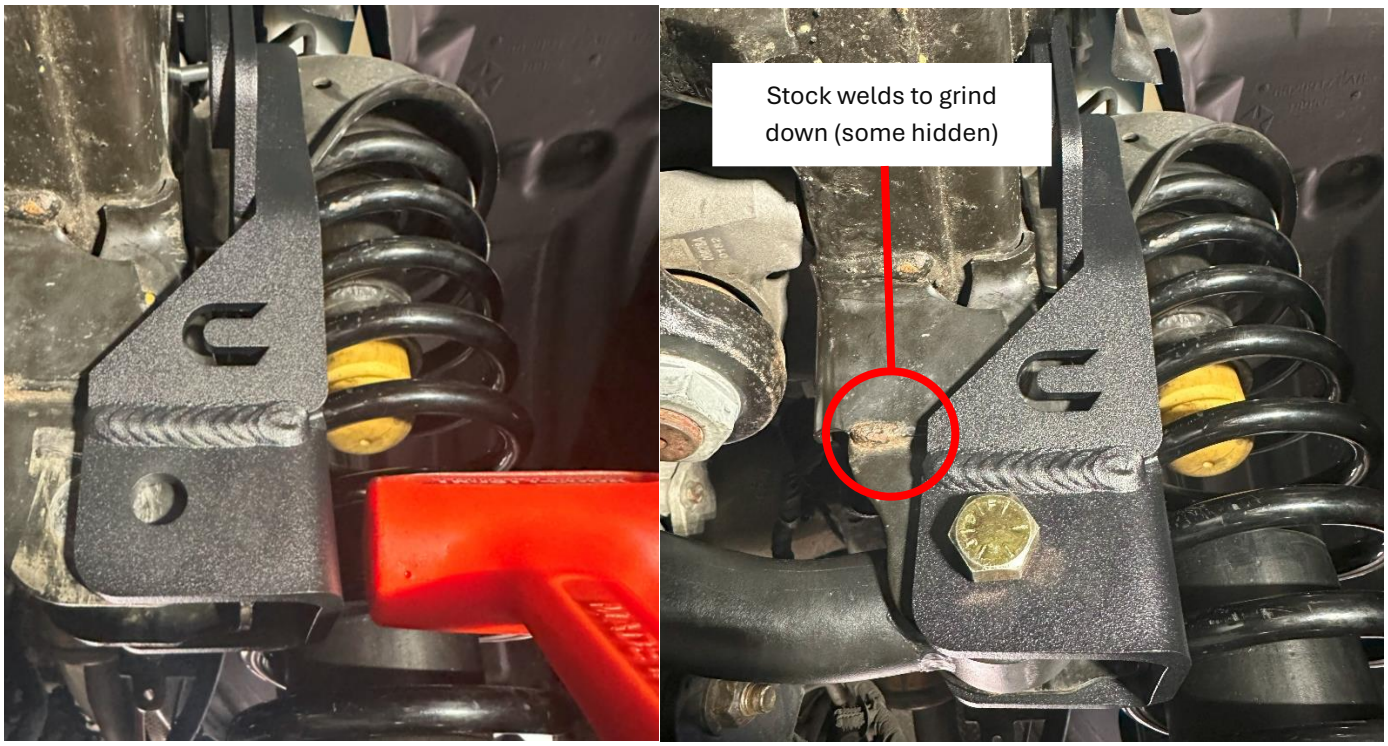


Figure 2: Track Bar Reinforcement Bracket with temporary track bar bolt installed

5. Install the supplied M12 steering box bolts. Start threading each bolt by hand. You will need to push up on the pitman arm to feed the bolts through. Tighten the bolts, but **do not torque yet.**

Figure 3: 4 steering box bolts installed (tighten, do not torque)

6. If you have an aluminum steering box, use the supplied (2) M12-1.5x180mm bolts in replace of the longer stock bolts, and (2) M12-1.5 x 110mm bolts in replace of the shorter stock bolts. If you have a steel steering box (painted black), use the supplied (4) M12-1.5 x 110mm bolts in replace of all 4 stock bolts

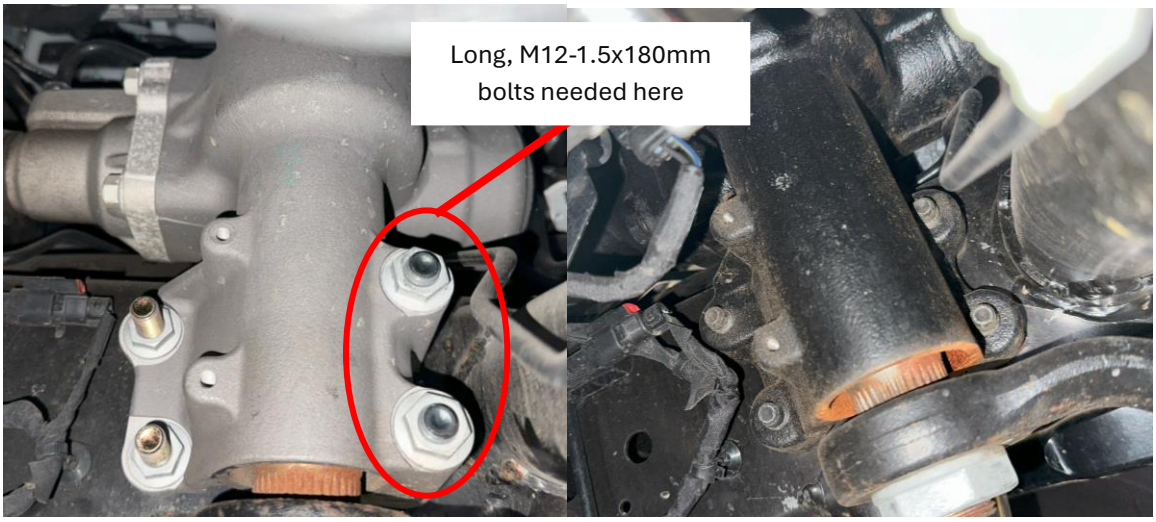


Figure 4: Aluminum steering box (left) and steel steering box (right)

Figure 5: Steering box bolts installed with temporary track bar bolt installed

7. Install the supplied M12-1.75 x 30mm hex drive bolts with the button head on the inside of the stock bracket. The track bar must NOT be installed to complete this step. Use the supplied M12 top lock nut and M12 washers on the outside of the reinforcement bracket.

    a. **TIP:** If the track bar holes become misaligned during this step, keep the track bar bolt installed from step 4, and tighten the upper M12-1.75 x 30mm hex drive bolt. **Then, remove the track bar bolt**, and tighten the lower M12-1.75 x 30mm hex drive bolt. Occasionally, the torque to tighten the lower hex drive bolt may pull the bracket out of alignment, so when tightening, make note of the track bar hole for any misalignment.

Figure 6: Removed track bar bolt after installing and tightening the top hex drive bolt

8. Now, torque the M12-1.75 x 30mm hex drive bolts to 45lb-ft. Afterward, you may finally reinstall the track bar with the supplied 9/16" x 3.75" track bar bolt with included 9/16" washers and top lock nut. **If the bolt holes seem off, you may need to back off the two hex drive bolts until you can slip the track bar bolt through**. If it is close, tap the bolt through with a mallet or hammer. Torque the track bar bolt to 125 lb-ft.

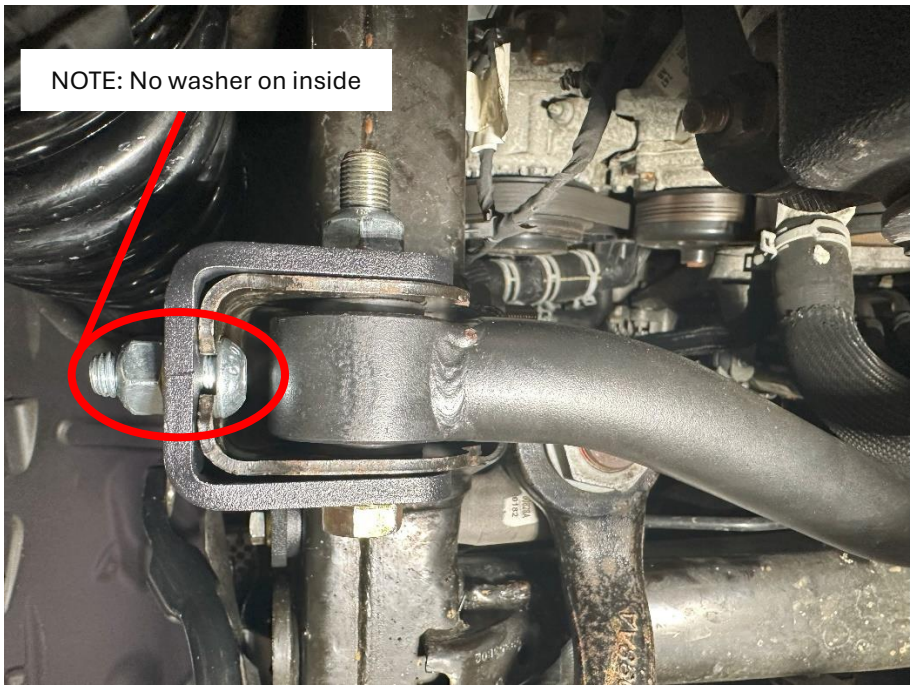


Figure 7: Track Bar Reinstalled with proper lower hex drive bolt orientation

9. Torque the 4 steering box bolts to 99lb-ft. The bolts on the right flange may be difficult to get to, so use a regular socket with a short extension. A universal joint socket adapter may be required.
    a. **NOTE:** Turning the steering wheel to full-lock left may provide enough clearance to use a full-sized extension. Removing the front driver's wheel may be easier for some installations.

10. Return the sway bar end links to their proper location. Torque the sway bar end links to 60 lb-ft.

11. View Table 1 located on the last page of these instructions for helpful torque specifications and bolt sizes.

Figure 8: Track Bar Reinforcement Bracket installed

Table 1: Helpful Bolt Specifications

Bolt	Torque (lb-ft)	Socket Size
M12-1.5 Steering Box Bolts	99	19mm
M12-1.75 x 30mm Hex Drive Bolts	45	19mm and 8mm Hex
9/16”-18 x 3.75” Track Bar Bolt and Nut	125	13/16” and 7/8”

If needed, refer to your vehicle’s owner's manual for original hardware torque specifications