

ANTIROCK®

OFFROAD SWAYBAR

CE-9900JLF, CE-9900JLFA, RJ-246100-101, RJ-246100-102 & RJ-246100-103 JEEP JL & JT FRONT ANTIROCK® SWAY BAR KIT INSTALLATION INSTRUCTIONS & TECHNICAL MANUAL



Fits

- Front of all models of 2018 & up Jeep JL Wrangler & Unlimited and JT Gladiator (except Mojave edition)

Kit Includes

- (1) CE-99001B.....36" Antirock® Bar
- (1) CE-9900JLFL.....Frame Mounting Bracket (L)
- (1) CE-9900JLFR.....Frame Mounting Bracket (R)
- (2) RJ-202001-101.....Arms (forged chromoly)
or CE-99003-JKLA.....Arms (billet aluminum)
- (2) CE-9901D.....UHMW Bushing
- (4) CE-98093A624.....M10 x 1.5mm x 30mm Bolt
- (2) CE-99005B3.....5/16"-24 x 7/8" Allen Bolt
- (2) CE-91090A111.....5/16" x 1.35" o.d. Aluminum
Body Washer
- (2) CE-91257A661.....3/8"-24 X 2 1/2" Bolt
- (2) CE-95615A150.....3/8"-24 Nylock Nut
- (2) CE-9901RD4.....8 1/2" End Link Rod
- (1) CE-99006.....End Link Studded Heim (RH)
- (1) CE-99006B.....End Link Thru-Bolt Heim (RH)
- (2) CE-99006L.....End Link Studded Heim (LH)
- (4) CE-95615A220.....1/2"-20 Nylock Nut
- (2) CE-95462A525.....1/2"-20 Jam Nut (RH Thread)
- (2) CE-H0020.....1/2"-20 Jam Nut (LH Thread)
- (1) CE-91257A751.....1/2"-20 x 3" Grade 8 Bolt
- (2) CE-H0014.....1/2" Flat Washer
- (2) CE-9900JLFS.....Heim Spacer
- (1) RJ-720301-101.....Antirock Arm Stickers (pr.)



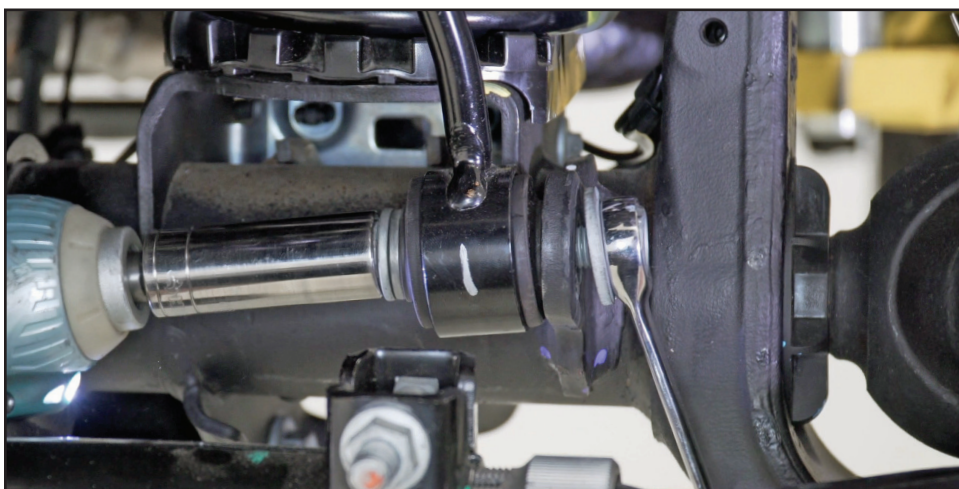
Tools Needed

- | | | | |
|---------------------------|----------------------------|---------------------------|----------------|
| - 11mm or Crescent wrench | - 18mm wrenches & sockets | - 5/8" wrench | - Blue Loctite |
| - 14mm sockets | - 3/16" allen wrench | - 3/4" wrenches & sockets | - Tape Measure |
| - 15mm wrenches & sockets | - 9/16" wrenches & sockets | - Mallet | |

Installation Instructions

Step 1

Start the front Antirock® installation by removing the bottoms of the factory front sway bar links from the differential.



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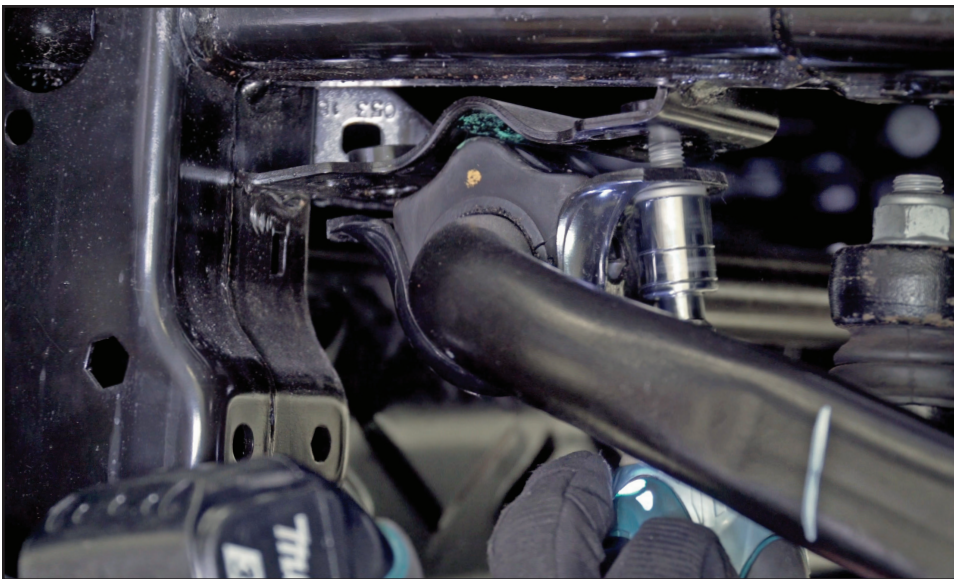
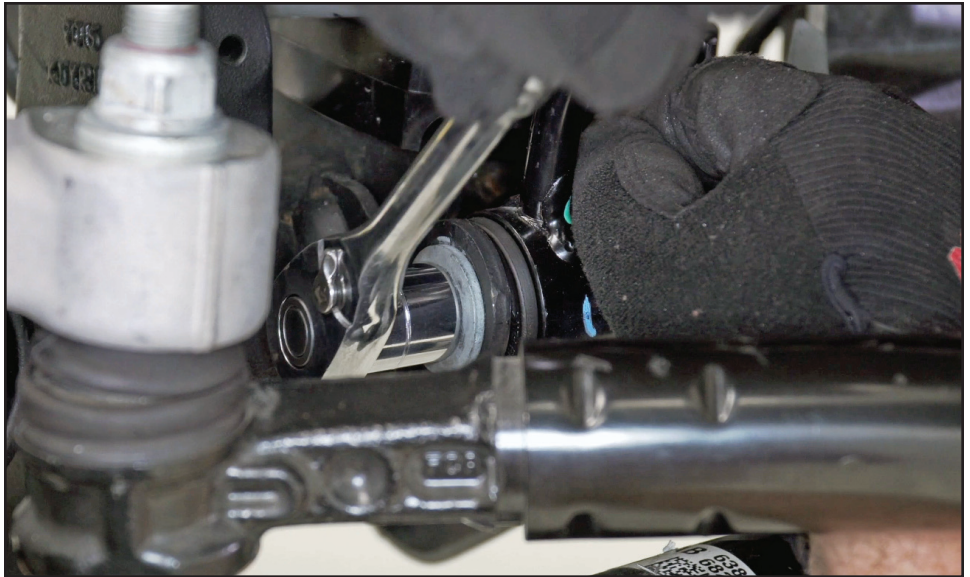
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Step 2

You'll notice, when removing the bottom of the passenger's sway bar link that the attachment situation is different than the driver's side.

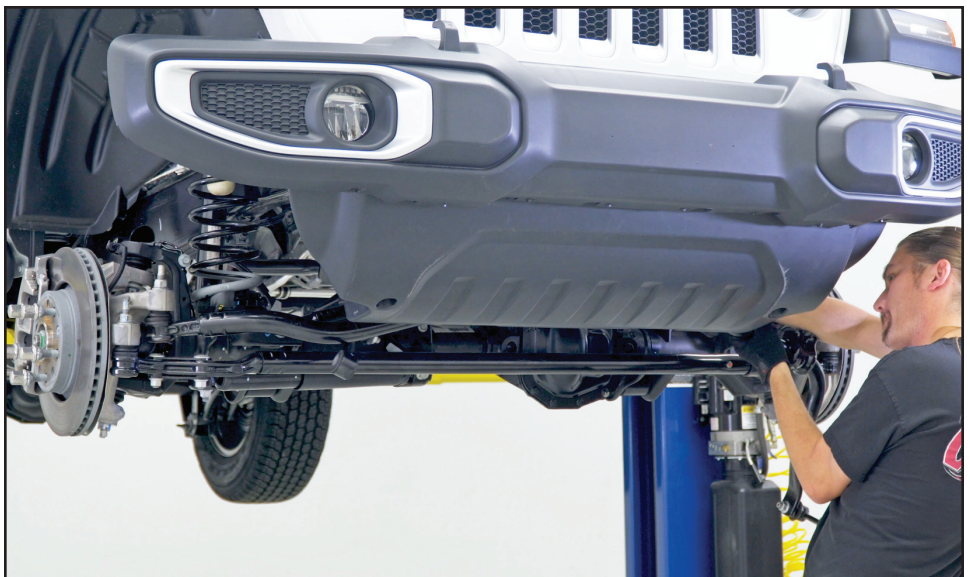


Step 3

Next, remove the 2 bolts on each side that attach the sway bar bushing brackets to the bottom of the frame.

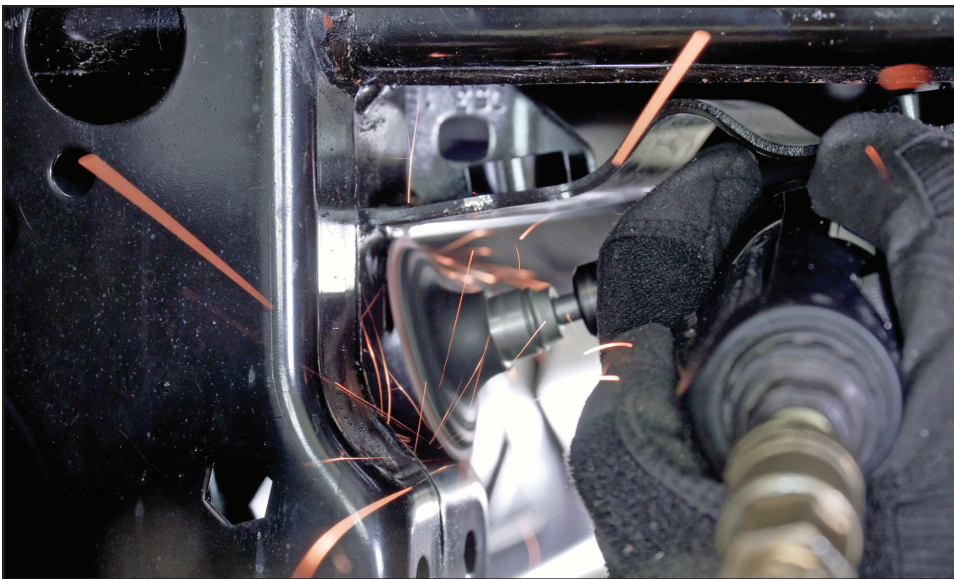
Step 4

You may now remove and discard the entire factory front sway bar as an assembly, as well as it's hardware.



Step 5

Install the UHMW sway bar bushings into the brackets as shown.



Step 6

Some frames require sanding down of a factory frame weld to allow for proper fitment of the front upper corners of the new sway bar brackets.

Step 7

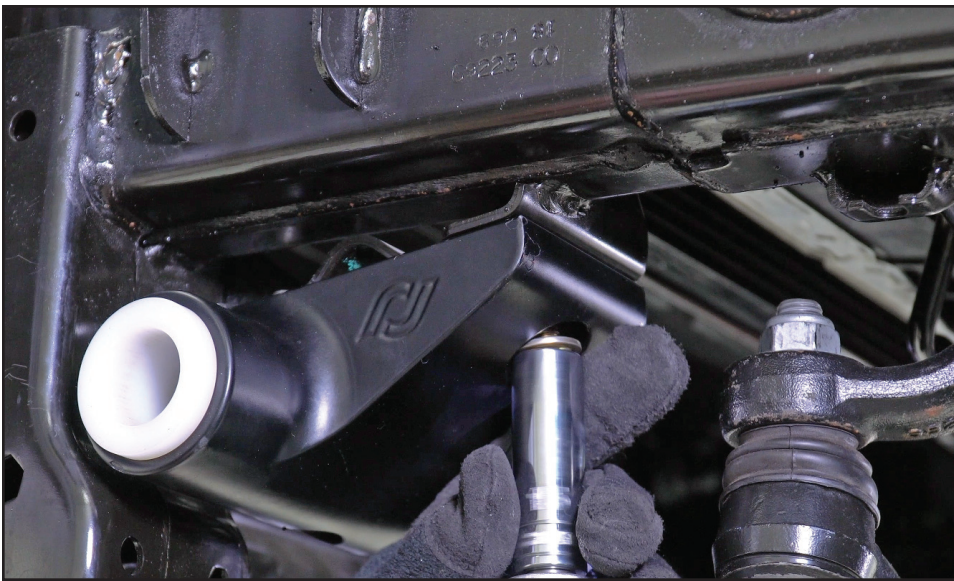
Find the 4 gold, M10 bolts and apply blue Loctite to their threads.



Step 8

Install the brackets to the frame, bushing side out, and bushing end of the bracket toward the front of the vehicle.

For now, only install the front-most bolts, as shown, and only snug the bolts - do not tighten.



Step 9

Now install the rear bolts, again, snug, but not tightened.

Step 10

Return to the front bolts and tighten and torque to spec.

The rear bolts remain snug for now.



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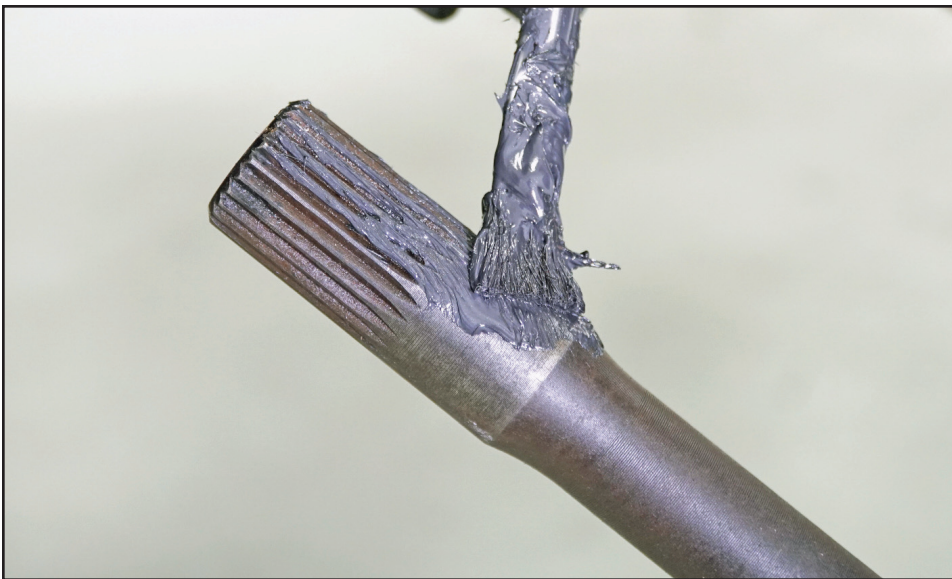
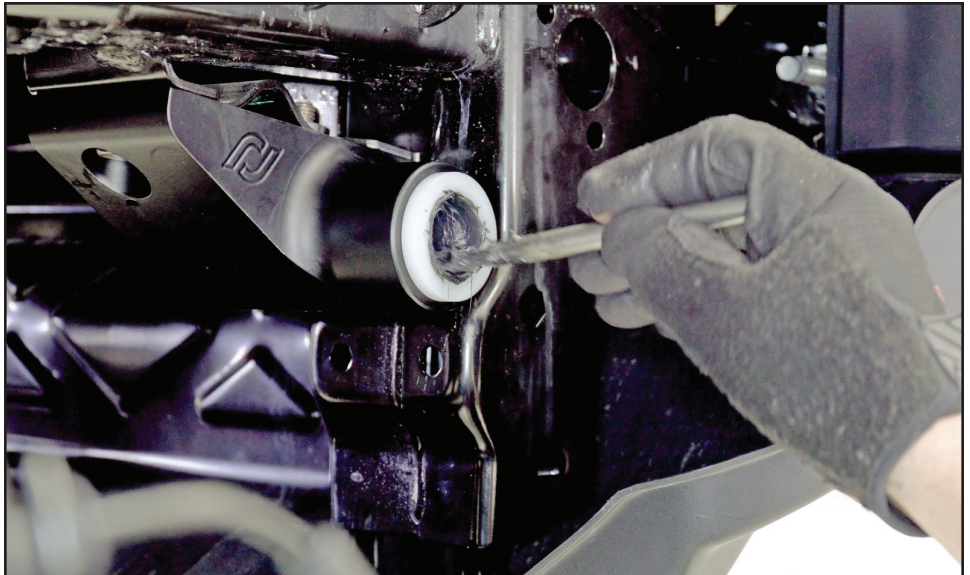
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Step 11

Grease the bushing bores with black, non-synthetic chassis grease.



Step 12

Grease the splines and the machined areas beyond the splines on both ends of the torsion bar.

Step 13

Slide the sway bar in one side, align it on the other side and push it on thru the bushing on the other side. This will most likely require a mallet.



Step 14

Center the bar side to side in the vehicle. You should have about 3/4" of spline protruding on each side.



Step 15

Tighten and torque the rear bracket bolts to spec.

Step 16

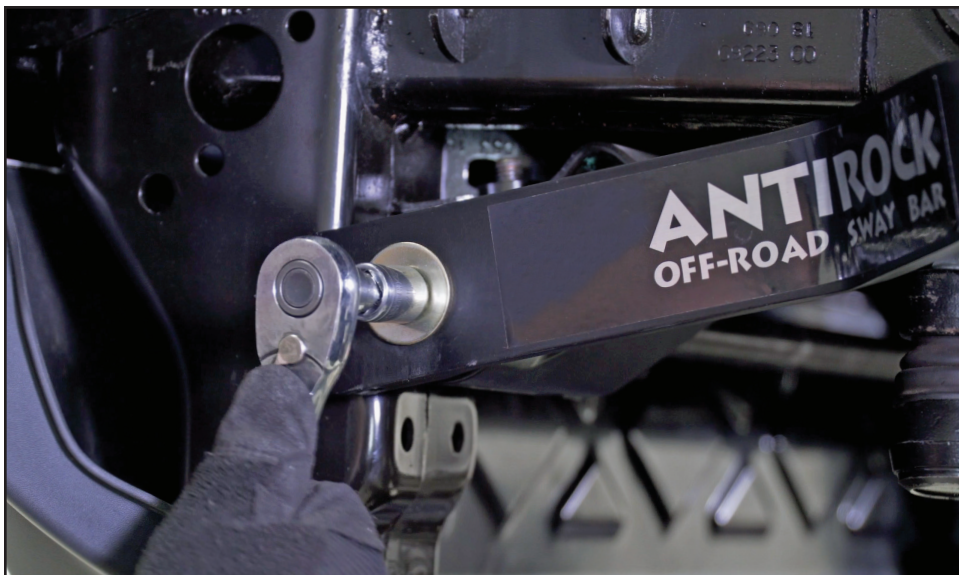
Slide the arms onto the torsion bar splines (current kits feature forged chromoly arms). Ensure that you clock the arms the same, side to side, when installing.



Step 17

Install the arm retaining washers and bolts. (current kits include aluminum washers and allen bolts for use here, see photo below). Install the tapered aluminum washers and flat head allen bolts with a 3/16" allen wrench.

Apply some anti-seize between the heads of the allen bolts and the counter sunk hole in the washers.



Step 18

Install the 3/8"-24 x 2 1/2" pinch bolts and 3/8"-24 nyloc nuts into the ends of the arms. Torque to 35 ft. lbs.

Step 19

Assemble your new sway bar end links as shown, with a jam nut and a heim joint on both ends of the gold rods. You should also have 3 nyloc nuts for use on the studded heim joints and a bolt, washers, high-misalignment spacers and a nyloc nut for the single, thru-bolt heim joint.



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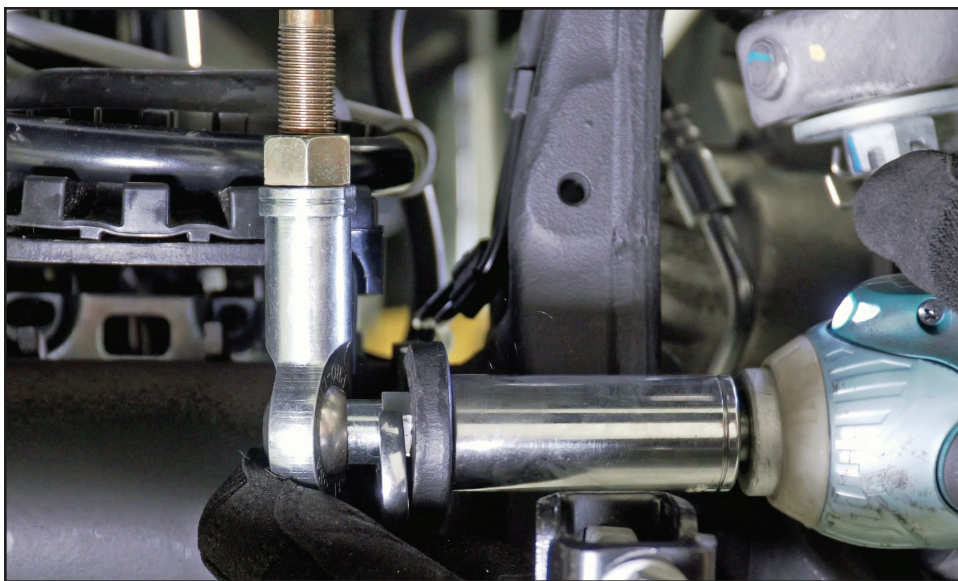
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Step 20

Insert the tops of the new sway bar links into the holes in the sway bar arms.

Using a 5/8" wrench and a 3/4" wrench or socket, tighten and torque the nyloc nuts to 75 ft. lbs.



Step 21

Repeat this heim joint installation process for the heim joint that attaches to the driver's side of the differential housing.

Step 22

On the passenger's side of the differential housing, you will insert a washer and the nyloc nut into the cavity in the trac bar bracket, you will use a high-misalignment spacer on each side of the heim joint (small side of the spacers touching the heim joint) and then you will bolt it all together with the 1/2" bolt with a washer under its head. Torque to 85 ft. lbs.



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Step 23

Not every vehicle is the same and surely not every differential housing bracket set is installed the same. You may find the need to rotate the gold end link rods, to adjust them, to take preload off of the sway bar.

Once you have neutralized load on the sway bar, go ahead and tighten all 4 jam nuts (2 per side) with a 3/4" and a 19mm wrench.



CALIFORNIA PROP 65 WARNING

WARNING: These products can expose you to chemicals including Chromium, Lead, Lead Compounds, Nickel (Metallic), Nickel Compounds, Diisonyl and Di(2-ethylhexyl) Phthalates (DEHP)(DINP) which are known to the State of California to cause cancer or birth defects or other reproductive harm. **For more information, visit www.P65warnings.ca.gov**

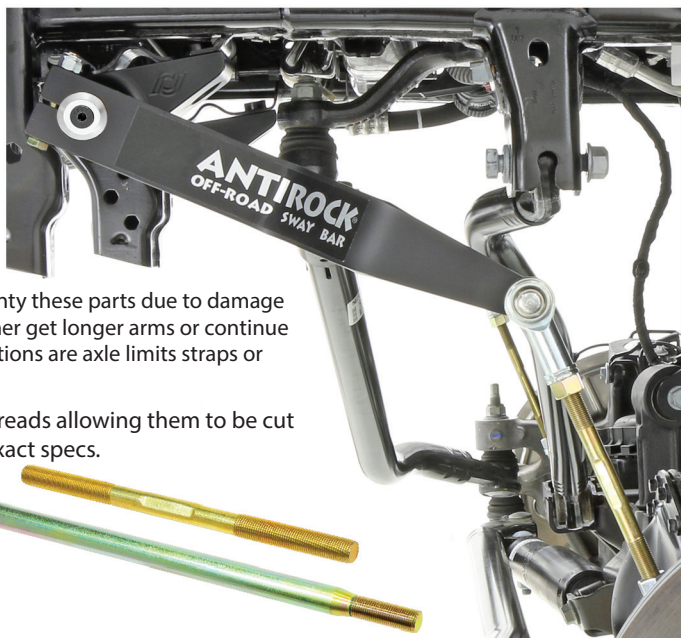
Proper Antirock® Adjustment

To correctly adjust a **front** or **rear** Antirock sway bar and determine how long the end links should be, we recommend the following process. You will need to determine how much suspension up travel and down travel that your vehicle has. Once you have those numbers, you will add them together to determine total overall travel. For example, if your vehicle has 4" of up travel and 8" of down travel, adding those number together, you get 12" of overall travel. Next, you'll need to find the midway point of your suspension travel, so, 12 divided by 2 is 6. So, the 6" point is the midway point of your vehicle's travel. You'll then need to set the axle at the 6" point – so the midway point of it's travel. When the axle is at the midway point of it's travel – this is the **ONLY** time the Antirock arms should ever be level. So, now that your axle is set to the midway point, go ahead and level the Anitrock arms. Next, measure center to center from the link mounting hole in the end of the Antirock arm, to the link mounting hole on your differential housing. This dimension is your mandatory link length for your specific vehicle build.

It is very important that, upon down travel, the link rod and the arm never become a straight line (see diagram to the right of a safe angle). If they do, you are in danger of them flipping upside down toward, the bumper, and not returning upward to their original location. If this situation does occur, the link rods and or the Antirock arms may be destroyed. RockJock **does not** warranty these parts due to damage caused by improper set up! If you foresee this being an issue, you'll need to either get longer arms or continue to adjust the link length (or both), until this situation can never occur. Other options are axle limits straps or shorter shocks that limit the axle's down travel.

Link Rods Available For Purchase: feature long, trimmable RH & LH threads allowing them to be cut down if necessary for an exact fit in your application. See our website for exact specs.

CE-9901RD3	6.5" long Antirock sway bar link rod
CE-9901RD4	8.5" long Antirock sway bar link rod
CE-9901RD5	10.5" long Antirock sway bar link rod
RJ- 517200-1	12.5" long Antirock sway bar link rod
CE-9901RD2	14" long Antirock sway bar link rod
RJ- 253200-1	15.5" long Antirock sway bar link rod



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