



RJ-131100-103 JK WRANGLER GEOMETRY CORRECTION BRACKET KIT INSTALLATION INSTRUCTIONS & TECHNICAL MANUAL



Thank you for purchasing our front Geometry Correction Bracket Kit for all years and models of Jeep JK! Using basic hand tools, these brackets easily install onto all factory frames!

Kit Includes

- 1) RJ-131100-101.....Geometry Correction Bracket (left)
- 1) RJ-131100-102.....Geometry Correction Bracket (right)
- 2) RJ-501102-3.....14mm-1.5 x 110mm Long Bolt
- 4) CE-90108A033.....1/2" Flat Washer
- 2) RJ-502102-1.....14mm-1.5 Stover Nut
- 2) RJ-514000-3......875" OD x .640" ID x 2.641" Long Sleeve
- 2) RJ-501104-1.....12mm-1.75 x 85mm Long Bolt
- 4) CE-91455A150.....12mm Flat Washer
- 2) RJ-502104-1.....12mm-1.75 Stover Nut

Tools Required

Complete set of metric hand tools
 1/2" Drive Ratchet and/or 1/2" impact wrench
 Torque Wrench
 Hammer
 Wheel Chock
 Ratchet Strap

Torque Specs.

Upper control arm at axle (factory bolt).....75 ft. lbs.
 Upper control arm at new bracket (new bolt).....78 ft. lbs.
 Upper end of bracket at frame (factory bolt).....75 ft. lbs.
 Lower control arm at axle (factory bolt).....129 ft. lbs.
 Lower control arm at new bracket (factory bolt).....129 ft. lbs.
 Lower end of bracket at frame (new bolt).....169 ft. lbs.



Step 1

Note: being that the installation process of this product is identical on both sides, we'll only be illustrating one side's installation. Simply repeat every step on the other side.

We'll start by putting wheel chocks behind the front tires.



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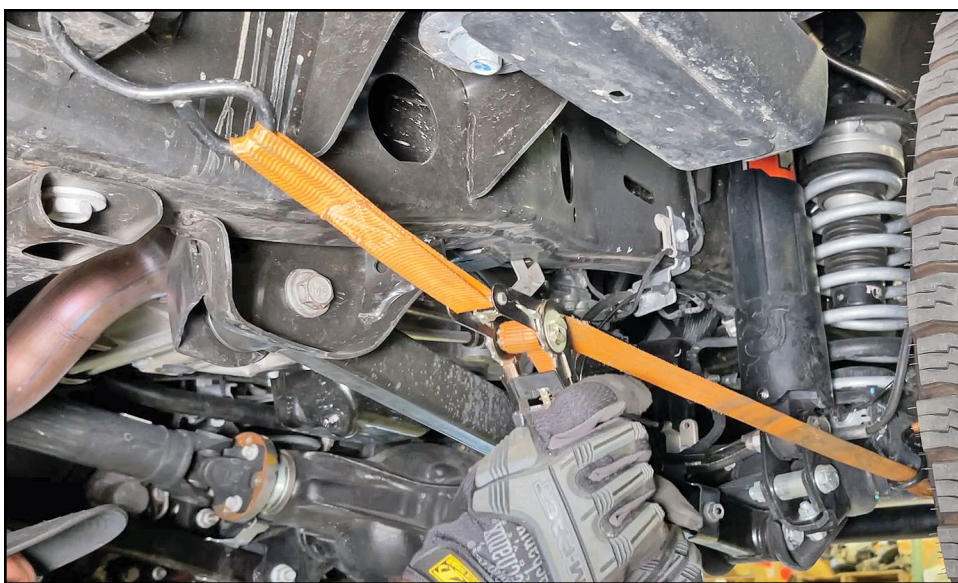
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Step 2

Next, hook a ratchet strap into the hole in the welded bracket on the side of the frame rail, and then loop the other end of the strap around the front axle housing, inboard of the inner C-knuckle.

Make sure when looping the strap around the axle housing that you don't get the brake hose or any wires caught underneath it.



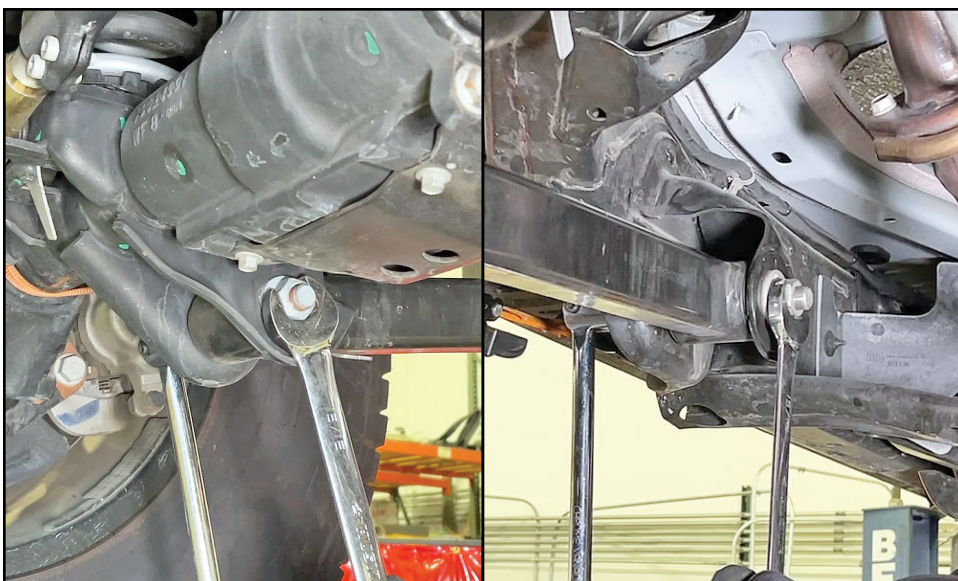
Step 3

Tighten the ratchet strap just enough that it's snug, to keep the front axle in place. You don't want the front axle to pull toward you when you release the lower control arm.

Step 4

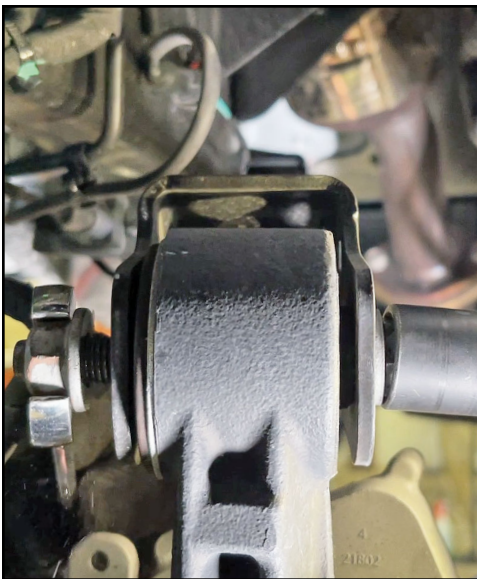
Using a socket and a wrench, break the front lower control arm axle bolts loose, but leave in place.

Using the same socket and a wrench, break loose and remove the lower control arm frame bolts. Retain these bolts & nuts for reuse.



Step 5

Drop the frame end of the lower control arm out of the bracket and let it swing down out of the way.



Step 6

With a wrench & socket, remove the bolts & nuts that retain the front upper control arm forks to the front axle housing.

Then, with the same socket, remove the bolt that retains the front upper control arm to the frame. This bolt, as you can see, features a flag nut. Retain all bolts and nuts / flag nuts for reuse.

Step 7

Remove the front upper control arms from the vehicle and set them aside. Save them for reuse.



Step 8

Insert the tops of the new brackets in to the factory upper control arm frame brackets and insert the factory upper control arm frame bolts thru them as shown.

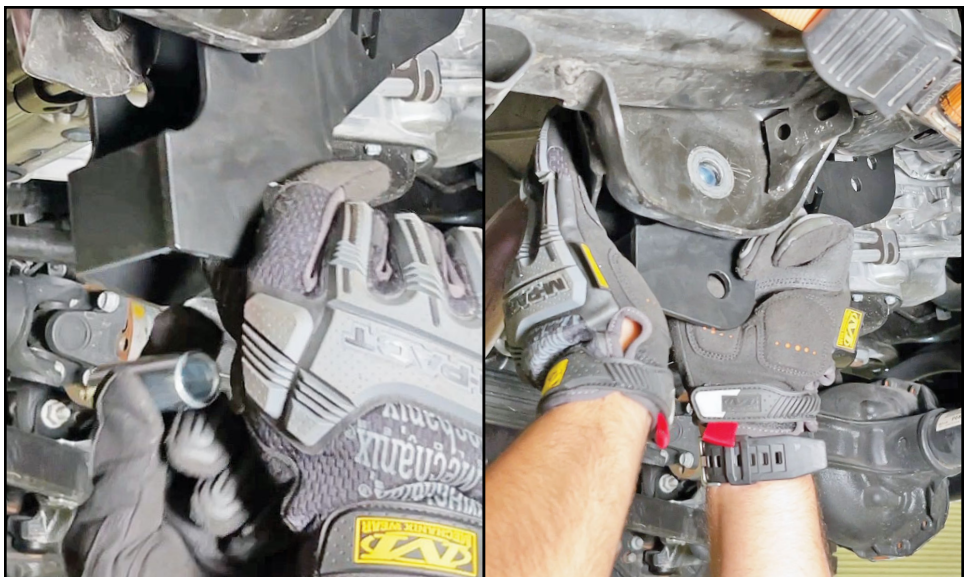


Step 9

Next, locate the 14mm-1.5 x 110mm long bolts, 2 flat washers and the 2 steel sleeves included in the kit.

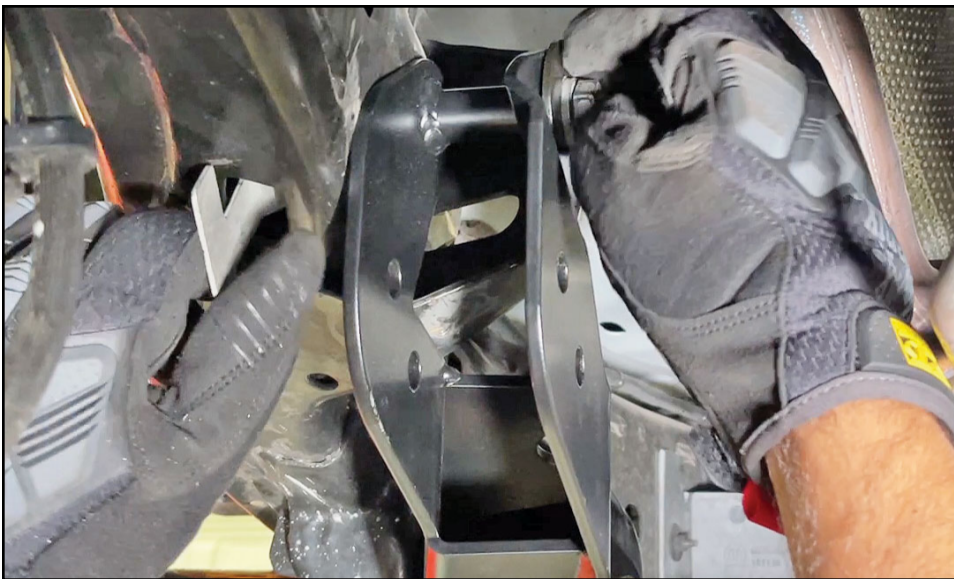
Step 10

Rotate the new brackets up into the factory lower control arm frame brackets and insert the steel sleeves inside the brackets so that they align with the holes in the factory frame brackets and the upper holes in the new brackets as shown.



Step 11

Install the 14mm bolts thru the factory axle bracket hole, the new bracket and the steel sleeve. This may require a little tap to get everything aligned.



Step 12

Reinsert the factory flag nut into the chassis, thread the upper bolt into the flag nut, tighten with a socket and go ahead and **torque** this bolt to spec. at this time!

Step 13

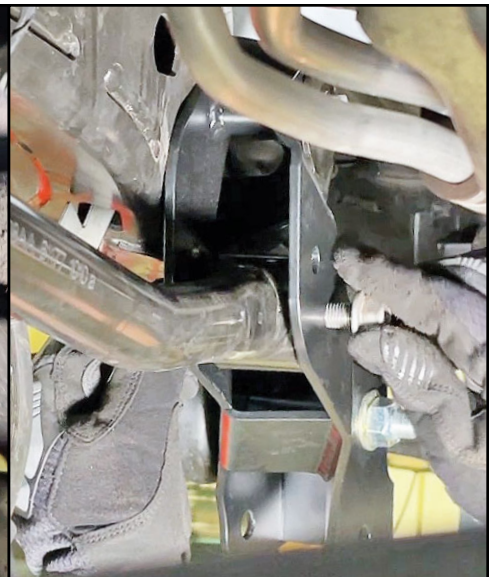
Install another flat washer and the 14mm stover nuts onto the 14mm bolt, tighten with a wrench & socket and go ahead and **torque** this bolt to spec. at this time!



Step 14

Install the front upper control arms back onto the front axle housing and into the new frame brackets.

As you'll notice, the frame brackets feature 2 upper control arm mounting holes. If you have a factory axle, you'll use the lower holes. If you have an aftermarket 1 ton axle, Dana 60, etc., those axles generally raise the upper control arm axle mounting holes by 1". The new brackets include 1" higher frame mounting holes to accommodate vehicles with the raised axle mounts.

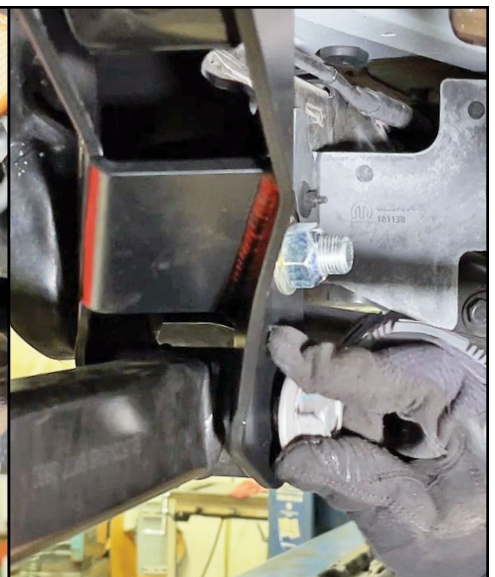


Step 15

Swing the frame ends of the lower control arms up and into the new brackets.

Step 16

Reinstall the factory lower control arm frame bolt thru the new bracket and the lower control arm, and then thread the factory nut onto the bolt.



Step 17

Go back and final tighten all 4 of your control arm bolts.



Step 18

Torque all 4 control arm bolts to spec.
With this, you are done!