



rockGEAR™ — RS62118B

Rancho Front Geometry Correction Bracket Kit

Fits 2018 Jeep Wrangler JL with 2" – 4" Lift

READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION

Parts List

P/N	DESCRIPTION	QTY.
RS176908B	JL Geometry Bracket, Left	1
RS176909B	JL Geometry Bracket, Right	1
RS94180	Information Pack	1
RS94177	Rollover Warning	1
RS94119	Consumer/Warranty Information	1
RS780281	Rancho Decal	1
R-RM0082-1112	Warranty Tag	1
RS82103	Instructions	1

P/N	DESCRIPTION	QTY.
RS860854	Sub Assy, JL Geometry Brkt Hdwr.	1
RS420119	Upper Sleeve, 1.25 X .375W X 1.81	2
RS420120	Lower Sleeve, 1.25 X .281W X 2.42	2
RS770272	HHCS, M12-1.50 X 80MM GR 10.9	2
RS770273	Nut, M12-1.5 Nylock Gr 10.9	2
RS7915	Washer M12	4
RS770310	HHCS, M16-1.50 X 100MM GR 10.9	2
RS770281	Nut, M16-1.5 Nylock Gr 10.9	2
RS7861	Washer M16	4



Install Notes & Required Modifications (MUST BE PURCHASED SEPARATELY)

This kit requires at least a 2" lift be installed.

If installing lift at same time as Rancho Front Control Arm Bracket Kit RS62118B, follow lift kit manufactures installation instructions to install lift. Install Rancho Front Control Arm Brackets when coil springs are removed from vehicle.

If lift is already installed, Rancho Front Control Arm Brackets are best installed with vehicle on the ground at ride height. When suspension is at full drop / extension, the control arms have too much tension on them to align easily in mounts. If you wish to install with vehicle up on jack stands or vehicle lift / hoist, follow lift kit manufactures instructions to remove and install coil springs.

- 1) ☐ Park vehicle on a level surface. Set the parking brake and chock rear wheels.

NOTE: To keep the front axle from tipping, disconnect the control arms one side at a time only.

- 2) ☐ Remove heat shields from upper control arm mounts. See Illustration 1.
- 3) ☐ Loosen but do not remove all eight control arm bolts
- 4) ☐ Remove the passenger side upper control arm from the frame and axle brackets.
- 5) ☐ Remove the passenger side lower control arm from the frame bracket only.

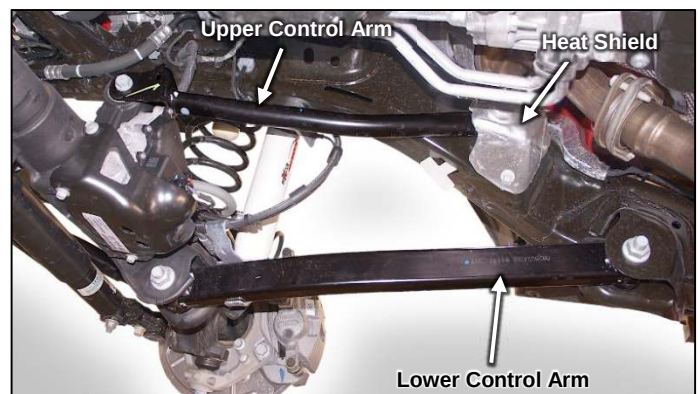


Illustration 1

6) ☐ Insert right control arm bracket RS176909B into the frame brackets. Loosely attach bracket to frame with the supplied sleeves and original hardware. See Illustrations 3-4.

7) ☐ Loosely attach the upper control arm to bracket RS176909B with the supplied 12mm. Reattach the upper control arm to the axle bracket with the original hardware. Do not tighten at this time.

If control arms do not align with holes in brackets, use a jack under the axle pinion housing or under the differential to slightly rotate axle the desired direction.

Do not lift vehicle off of jack stands.

8) ☐ Attach the lower control arm to bracket RS176909B with the supplied 16mm hardware. Do not tighten.

RUBICON MODELS: Use top hole for 2" lifts, middle hole down for 3" lifts, and bottom hole down for 4" lifts.

NON- RUBICON MODELS: Use top hole for 3 ½" lifts, middle hole down for 4" lifts.

Because of variations in vehicles and use, you may adjust caster buy using a different position.

9) ☐ Repeat steps 3 through 8 to install left control arm bracket RS176908B on the driver side.

10) ☐ With vehicle on the ground at ride height, torque correction bracket M16 lower mounting hardware and lower control arm hardware to 190 lb-ft.

11) ☐ Torque correction bracket M12 upper mounting hardware and upper control arm hardware to 80 lb-ft.

FINAL CHECKS & ADJUSTMENTS

1) ☐ Turn the front wheels completely left then right. Verify adequate tire, wheel, brake hose and ABS wire clearance. Inspect steering and suspension for tightness and proper operation.

2) ☐ With the suspension at maximum extension (full droop), inspect and rotate all axles and drive shafts. Check for binding and proper slip yoke insertion. The slip yoke should be inserted a minimum of one inch into the transfer case and/or transmission.

3) ☐ Ensure that the vehicle brake system operates correctly. If new brake hoses were installed, verify that each hose allows for full suspension movement.

4) ☐ Readjust headlamps.

5) ☐ Have vehicle Aligned to manufacturer's specifications.

Alignment Specifications

Caster	4.6°	± 1.0°
Camber (fixed angle)	-0.25°	± 0.63°
Toe-In (each wheel)	0.15°	± 0.15°
Thrust Angle	0	± 0.15°

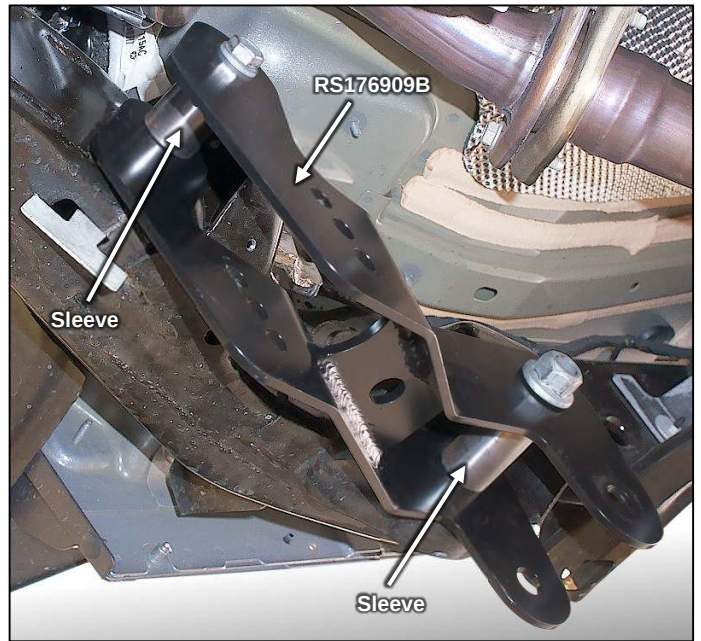


Illustration 2

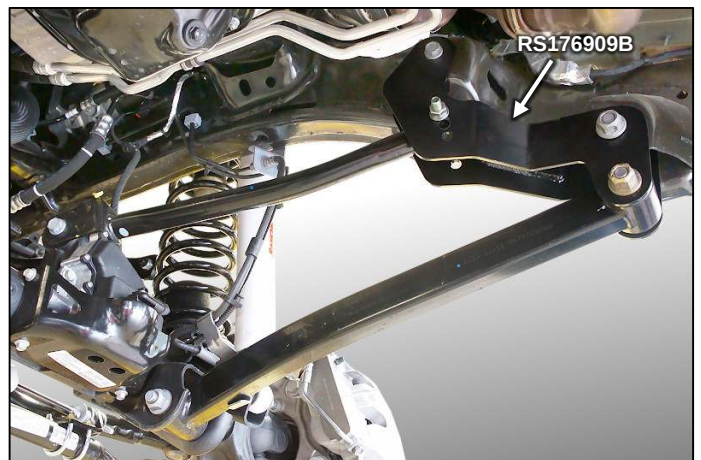


Illustration 3

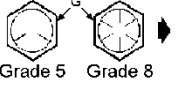
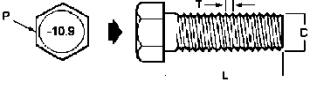


Illustration 4

Torque Specs

Geometry Bracket M12 Hardware	80 lb-ft
Geometry Bracket M16 Hardware	190 lb-ft
Upper Control Arm	80 lb-ft
Lower Control Arm	190 lb-ft
Wheels (Lug Nuts)	130 lb-ft.

STANDARD BOLT TORQUE & IDENTIFICATION						
INCH SYSTEM			METRIC SYSTEM			
Bolt Size	Grade 5	Grade 8	Bolt Size	Class 8.8	Class 10.9	Class 12.9
5/16	15 LB-FT	20 LB-FT	M6	5 LB-FT	9 LB-FT	12 LB-FT
3/8	30 LB-FT	35 LB-FT	M8	18 LB-FT	23 LB-FT	27 LB-FT
7/16	45 LB-FT	60 LB-FT	M10	32 LB-FT	45 LB-FT	50 LB-FT
1/2	65 LB-FT	90 LB-FT	M12	55 LB-FT	75 LB-FT	90 LB-FT
9/16	95 LB-FT	130 LB-FT	M14	85 LB-FT	120 LB-FT	145 LB-FT
5/8	135 LB-FT	175 LB-FT	M16	130 LB-FT	165 LB-FT	210 LB-FT
3/4	185 LB-FT	280 LB-FT	M18	170 LB-FT	240 LB-FT	290 LB-FT

1/2-13x1.75 HHCS DTLX G = Grade Marking (bolt strength) D = Nominal Diameter (inches) T = Thread Pitch (threads per inch)			 Grade 5 Grade 8 L = Length (inches) X = Description (hex head cap screw)			M12-1.25x50 HHCS DTLX P = Property Class (bolt strength) D = Nominal Diameter (millimeters) T = Thread Pitch (thread width, mm)			 P -10.9 L = Length (millimeters) X = Description (hex head cap screw)		
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Rancho Technical Department 1-734-384-7804.