



rockGEAR™ — RS62123

Rancho Front Lower Coil Isolator Kit
Fits 2018 Jeep Wrangler JL

READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION



P/N	DESCRIPTION	QTY.
RS176922	Front lower Coil Isolator	2

Install Notes

Remove lower coil isolators and replace with Rancho Front Lower Coil Isolator RS176922

If installing lift at same time as Rancho Front Lower Coil Isolator Kit RS62123:

Follow lift kit manufactures installation instructions to install lift. Install Rancho Front lower Coil Isolators when coil springs are removed from vehicle.

If lift is already installed:

Follow lift kit manufactures instructions to remove and install coil springs. Install Rancho Front lower Coil Isolators when coil springs are removed from vehicle.

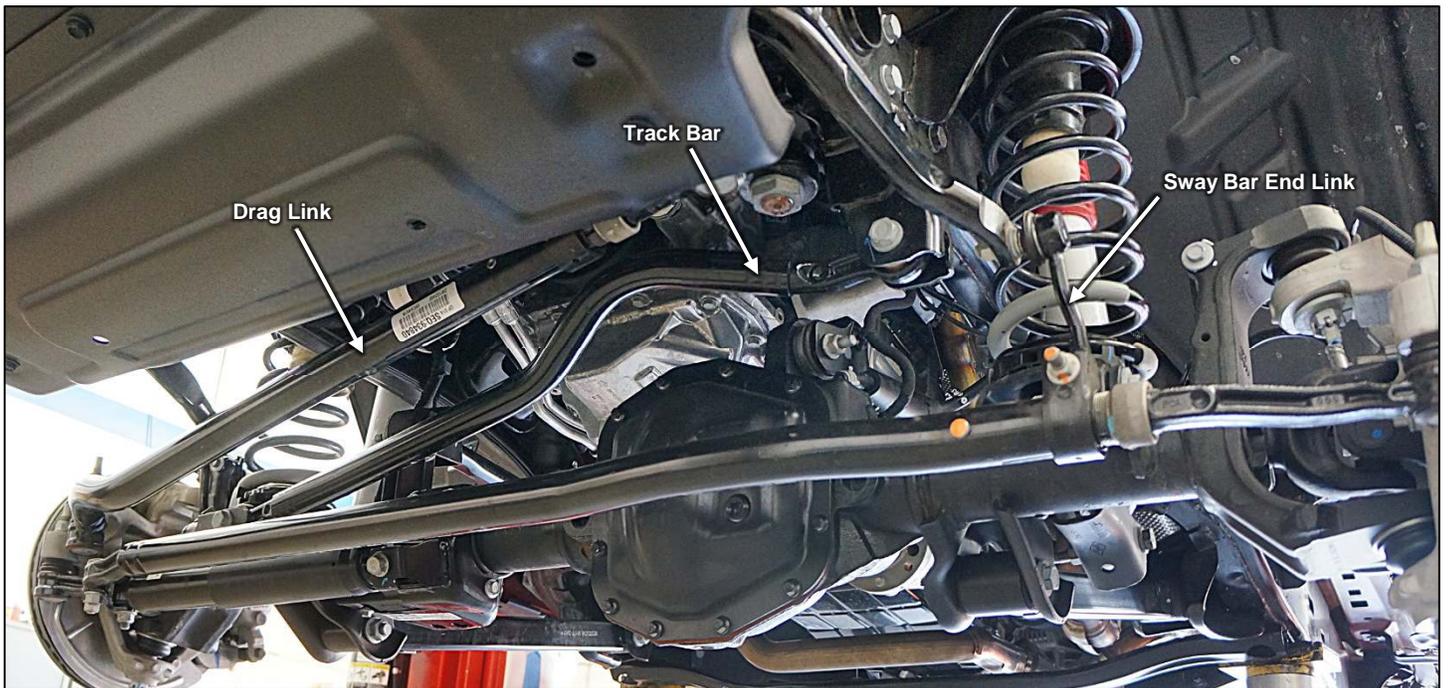
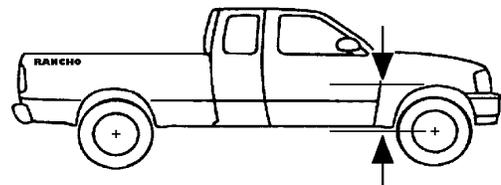


Illustration 1

COIL SPRING REMOVAL

- 1) Park vehicle on a level surface. Set the parking brake and chock rear wheels. Disconnect the negative ground cable from the battery.
- 2) Measure and record the distance from the center of each wheel to the top of the fender opening. See Illustration 2
- 3) Remove the track bar to frame bracket nut and bolt. See Illustration 1.
- 4) Raise the front of the vehicle and support the frame with jack stands. Remove the front wheels and set them aside.



LR _____ LF _____
RR _____ RF _____

Illustration 2

- 5) Remove nut and separate the brake hoses bracket from the lower control arm. See Illustration 4.
- 6) Remove bolt and separate the brake hose bracket from the axle.
- 7) Disconnect any vent hoses.
- 8) Disconnect any electrical wiring from the axle by sliding out the plug lock and pulling plug out. Detach wire clips from axle and upper control arms. See Illustration 5.

CAUTION: DO NOT PULL BY WIRES!

- 9) Remove any bump stop spacer on the lower coil mount.
- 10) Support the front axle with a floor jack.
- 11) Remove the sway bar end links from the axle mounts.
- 12) Reference mark the drive shaft to the front pinion flange (at axle). Disconnect the drive shaft from the pinion flange. Support drive shaft with a tie wrap or wire. See Illustration 6.
- 13) Remove the shock absorber lower nut and bolt.
- 14) Carefully lower the front axle and remove the coil springs. Push down on axle if necessary.

⚠ WARNING: Do not allow the front axle to hang by any hoses or cables. You could damage the hose or cable, without this damage being visible to you, resulting in sudden and unexpected failure and an accident.

- 15) Remove any coil isolator on the lower coil mount.

LOWER ISOLATOR AND COIL SPRING INSTALLATION

- 1) Install new Rancho lower isolator RS176922 on lower coil mount. The flat side goes to the outside and the pin must seat in the axle. See Illustration 3.

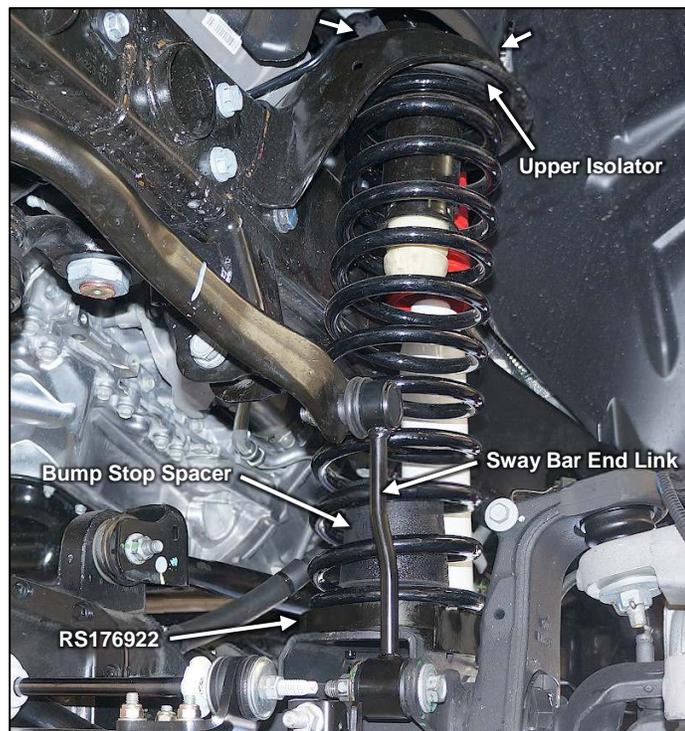


Illustration 3

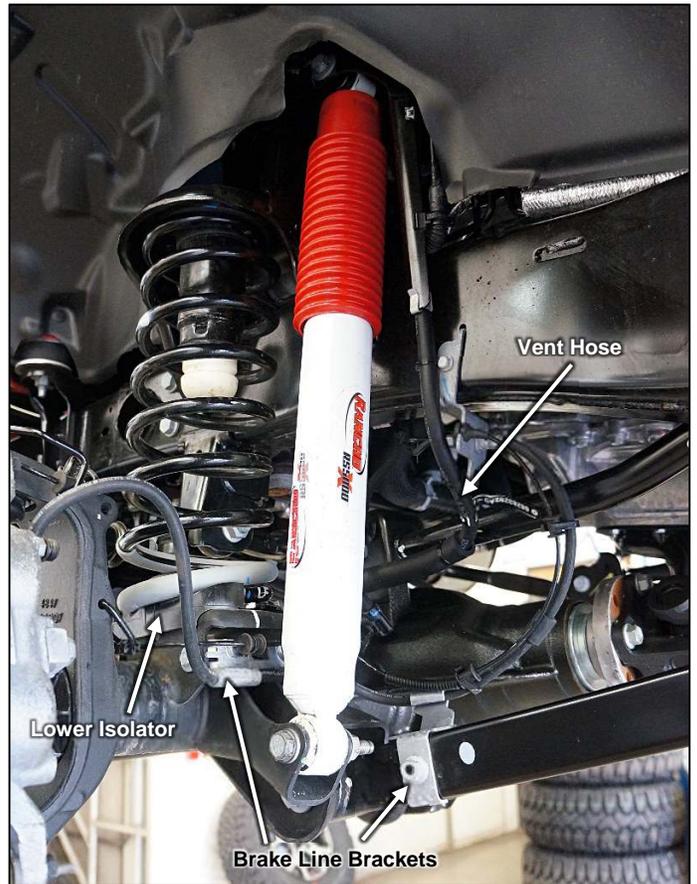


Illustration 4

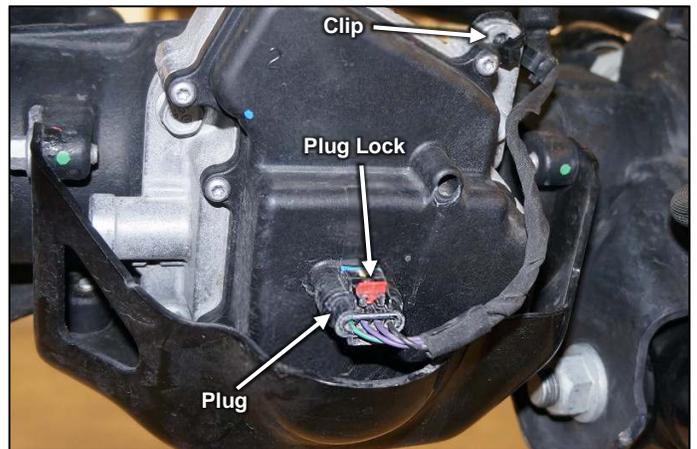


Illustration 5

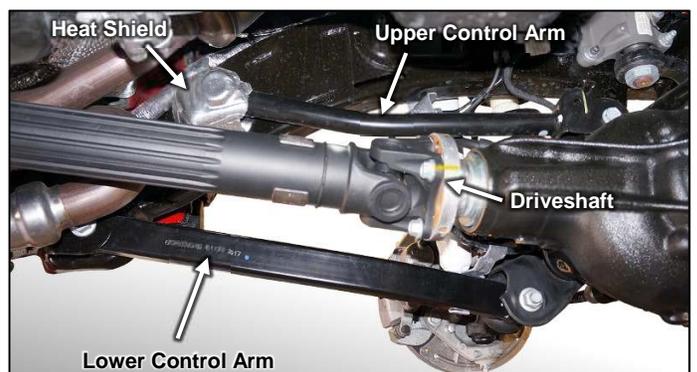


Illustration 6

2) Install original rubber isolator in driver side upper coil mount. Align and insert the isolator's alignment pins into the holes in the mount.

Check that rubber pins are inserted by feeling top of upper spring mount. See Illustration 3

- 3) Insert bump stop spacer inside coil spring.
- 4) Lower axle if required and insert the spring with bump stop spacer into the upper pocket and onto the axle pad. Align pig tail with groove in lower isolator.
- 5) Raise axle enough to hold coil in place.
- 6) Check that upper isolator is seated properly and its rubber pins are inserted in the upper mount by feeling top of upper spring mount.
- 7) Attach the bump stop spacer to the axle pad.
- 8) Repeat steps 1 through 7 for the passenger side.
- 9) Raise front axle and re-attach the brake line bracket to the axle using original hardware.

ATTENTION: Be careful when raising axle not to lift vehicle off jack stands.

- 10) Attach shock lower mounts to axle brackets with the original hardware. Torque to 75 lb-ft.
- 11) Lower axle and allow to hang on shock absorbers
- 12) Align driveshaft and pinion flange using previously made marks, and reattach using OE hardware and blue Loctite. Torque to 81 lb-ft.
- 13) Reattach vent hose and electrical wiring if necessary.
- 14) Reattach brake line brackets to control arms.

LOWER VEHICLE

- 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) Install front wheels and lower vehicle to the ground. Tighten lug nuts to 130 lb-ft.

4) Reattach track bar to frame mount and torque to 110 lb-ft.

5) Reattach sway bar end links to axle and torque to 60 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) Ensure that the vehicle brake system operates correctly. If new brake hoses were installed, verify that each hose allows for full suspension movement.
- 3) Have vehicle aligned to manufacturer's specifications.

Alignment Specifications:

Caster	4.8° ± 1.0°
Camber (fixed angle)	-0.25° ± 0.37°
Toe-In, Each Wheel	0.0° – 0.12°
Toe-In, Total	0.0° – 0.20°
Thrust Angle	0° - 0.25°

4) Park the vehicle on a level surface. Measure and record the distance from the center of each wheel to the top of the fender opening. See Illustration 7.

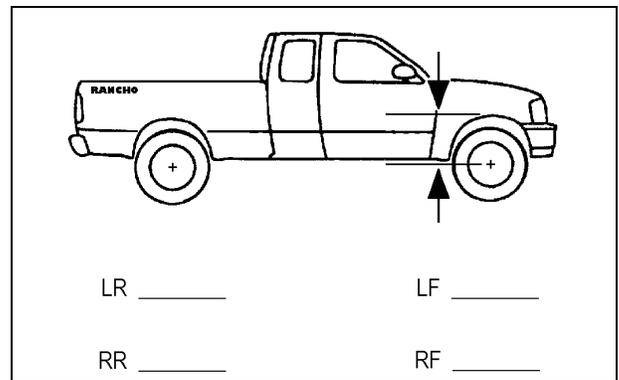


Illustration 7

Torque Specs

Brake Line Bracket to Lower Control Arm	15 lb-ft
Shock Absorber Upper Mount	80 lb-ft
Shock Absorber Lower Mount	75 lb-ft
Front Drive Shaft to Pinion Flange	81 lb-ft
Sway Bar End Link	60 lb-ft
Track Bar	110 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

<p>1/2-13x1.75 HHCS</p> <p style="text-align: center;"> D T L X </p> <p>G = Grade Marking (bolt strength) D = Nominal Diameter (inches) T = Thread Pitch (threads per inch)</p> <p>L = Length (inches) X = Description (hex head cap screw)</p>	<p>M12-1.25x50 HHCS</p> <p style="text-align: center;"> D T L X </p> <p>P = Property Class (bolt strength) D = Nominal Diameter (millimeters) T = Thread Pitch (thread width, mm)</p> <p>L = Length (millimeters) X = Description (hex head cap screw)</p>
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Rancho Technical Department 1-734-384-7804.