



2018 Jeep Wrangler JL / 4 Door 3.5" - 4" Suspension Lift Installation Instructions

Required Tools List:

- Safety Glasses
- Metric & Standard Sockets / Wrenches
- Pliers
- Hex Key Sockets / Wrenches
- Grinder
- Floor Jack
- Jack Stands
- Measuring Tape
- Torque Wrench



Before beginning the installation, read these instructions & the enclosed driver's WARNING NOTICE thoroughly & completely. Also affix the WARNING decal in the passenger compartment in clear view of all occupants. Please refer to the Parts List to insure that all parts & hardware are received prior to disassembly of the vehicle.

Make sure you park the vehicle on a level concrete or asphalt surface. Many times a vehicle is not level (side-to-side) from the factory, but is usually not noticed until a lift kit has been installed which makes the difference more visible. Using a measuring tape, measure the front & rear (both sides) from the ground up to the center of the fender opening above the axle. Record this information below for future reference.

Important Notes:

- The drag link must be adjusted to center the steering wheel before the vehicle is driven. Failure to do so will cause computer errors, odd handling characteristics, & poor performance.
- If larger tires (10% more than the OEM diameter) are installed, speedometer recalibration will be necessary. Contact your local Jeep dealer or an authorized dealer for details.
- After installation, a qualified alignment facility is required to align the vehicle to the OEM specifications.

Component Box Breakdown:

Part #: JL40BPBLT / JL40BPMLT / JL40RBPBLT / JL40RBPMLT

Item #	Description	Qty	Item #	Description	Qty
JL23FS-DR	JL FRONT COIL SPRING (Included With JL40BP Kits)	2	B8386 (Front)	BLACK MAX SHCK W/BLK BOOT (Included With JL40BPB Kits)	2
JL23RS-DR-L	JL REAR DRIVER COIL SPRING (Included With JL40BP Kits)	1	B8387 (Rear)	BLACK MAX SHCK W/BLK BOOT (Included With JL40BPB Kits)	2
JL23RS-DR-R	JL REAR PASS COIL SPRING (Included With JL40BP Kits)	1	M9386 (Front)	M95 MONOTUBE SHOCK (Included With JL40BPM Kits)	2
JL34FS-DR	JL FRONT COIL SPRING (Included With JL40RBP Kits)	2	M9387 (Rear)	M95 MONOTUBE SHOCK (Included With JL40BPM Kits)	2
JL34RS-DR-L	JL REAR DRIVER COIL SPRING (Included With JL40RBP Kits)	1	B8387 (Front)	BLACK MAX SHCK W/BLK BOOT (Included With JL40RBPB Kits)	2
JL34RS-DR-R	JL REAR PASS COIL SPRING (Included With JL40RBP Kits)	1	B8388 (Rear)	BLACK MAX SHCK W/BLK BOOT (Included With JL40RBPB Kits)	2
JLFTBA18-B	JL ADJUST FRONT TRACK BAR	1	M9387 (Front)	M95 MONOTUBE SHOCK (Included With JL40RBPB Kits)	2
HD34X34DTB	3/4 ROD END	1			
34RFTJN	3/4 RIGHT HAND JAM NUT	1	M9388 (Rear)	M95 MONOTUBE SHOCK (Included With JL40RBPB Kits)	2
H-BOX JL40BP	JL HARDWARE BOX (Included With JL40BP Kits)	1			
H-BOX JL40RBP	JL HARDWARE BOX (Included With JL40RBP Kits)	1			

Hardware Box Breakdown:

Part # H-BOX JL40BP (Included With JL40BP Kits)

Item #	Description	Qty	Item #	Description	Qty
ABSS2535	JL FRONT BUMP STOP SPACER	2	HB-JL40BSS	HDWR BAG: JL BUMP STOP SPC	1
JL30RBS-S	JL REAR BUMP STOP SPACER	2	HB-JLBLE4	HDWR BAG: JL BRAKE LINE EXT	1
JLRTBU-B	JL UPR REAR TRACK BAR BRKT	1	HB-JLFTBB	HDWR BAG: JL TRACK BAR	1
CAM700	JL UPPER REAR CAM BOLTS	1	HB-JLRTBU	HDWR BAG: JL UPR REAR TRK	1
CAM800	JL FRONT LOWER CAM BOLTS	1	HB-JLSBE	HDWR BAG: JL FRONT END LINK	1
SBE4048-L	JL FRONT SWAY BAR END LINK	2	HB-JLSBER	HDWR BAG: JL REAR END LINK	1
SBE4058-L	JL REAR SWAY BAR END LINK	2	I-JL3540BP	INST SHEET: JL40BP	1

Part # H-BOX JL40RBP (Included With JL40RBP Kits)

Item #	Description	Qty	Item #	Description	Qty
ABSS2535	JL FRONT BUMP STOP SPACER	2	HB-JL40BSS	HDWR BAG: JL BUMP STOP SPC	1
JL30RBS-S	JL REAR BUMP STOP SPACER	2	HB-JLBLE4	HDWR BAG: JL BRAKE LINE EXT	1
JLRTBU-B	JL UPR REAR TRACK BAR BRKT	1	HB-JLFTBB	HDWR BAG: JL TRACK BAR	1
CAM700	JL UPPER REAR CAM BOLTS	1	HB-JLRTBU	HDWR BAG: JL UPR REAR TRK	1
CAM800	JL FRONT LOWER CAM BOLTS	1	HB-JLSBE	HDWR BAG: JL FRONT END LINK	1
SBE4048-L	JL FRONT SWAY BAR END LINK	2	HB-JLSBER	HDWR BAG: JL REAR END LINK	1
SBE4068-L	JL REAR SWAY BAR END LINK	2	I-JL3540BP	INST SHEET: JL40BP	1

Hardware Bag Breakdown:

Part # HB-JL40BSS

Item #	Description	Qty
516X1FTB	5/16 X 1 FINE THREAD BOLT	4
516SAEW	5/16 SAE WASHER	8
516FTN	5/16 FINE THREAD LOCK NUT	4

Item #	Description	Qty
38X412BHB	3/8 X 4 1/2 BUTTON HEAD BOLT	2
38SAEW	3/8 SAE WASHER	2
38CTN	3/8 COARSE THREAD LOCK NUT	2

Part # HB-JLBLE4

Item #	Description	Qty
JL4BE-S	JL BRAKE LINE BRACKET	4
14X1FTB	1/4 X 1 FINE THREAD BOLT	4

Item #	Description	Qty
14SAEW	1/4 SAE WASHER	8
14FTN	1/4 FINE THREAD LOCK NUT	4

Part # HB-JLFTBB

Item #	Description	Qty
JLFTBB	JL TRK BAR ROD END BUSHING	2

Part # HB-JLRTBU

Item #	Description	Qty
12X5FTB	1/2 X 5 FINE THREAD BOLT	1
12SAEW	1/2 SAE WASHER	2
12FTN	1/2 FINE THREAD LOCK NUT	1

Item #	Description	Qty
916X114FTB	9/16 X 1 1/4 FINE THREAD BOLT	2
916SAEW	9/16 SAE WASHER	4
916FTN	9/16 FINE THREAD LOCK NUT	2

Part # HB-JLSBE

Item #	Description	Qty
HG5815-K	HOURGLASS 5/8 BUSHING / BLK	4
141509	ES25 SLEEVE	4
12X70MMB	12MM X 70MM METRIC BOLT	2

Item #	Description	Qty
716USSW	7/16 USS FLAT WASHER	4
12MMN	12 MM METRIC LOCK NUT	2

Part # HB-JLSBER

Item #	Description	Qty
HG5815-K	HOURGLASS 5/8 BUSHING / BLK	4
141509	ES25 SLEEVE	4
12X65BHB	12MM X 65MM BUTTON HD BLT	2

Item #	Description	Qty
716USSW	7/16 USS FLAT WASHER	4
12MMN	12 MM METRIC LOCK NUT	2

Front Installation:

1. With the vehicle on flat level ground, set the emergency brake, & block the rear tires / wheels.
2. Raise the front of the vehicle, support the frame rails, & front differential using jack stands.
3. Remove the front tires / wheels using a 22mm socket. (See Photo # 1)



Photo # 1

4. Remove the OEM front skid plate using a 13mm socket / wrench. (See Photo # 2)
5. Remove the OEM front sway bar end links using a 6mm hex key socket / wrench & 18mm socket / wrench. (See Photo # 3)
6. Remove the OEM front track bar using a 21mm socket / wrench. (See Photo # 4)
7. Disconnect the OEM drag link from the OEM pitman arm using a 21mm socket / wrench. (See Photo # 5)
8. Remove the OEM front shocks using a 18mm socket / wrench. (See Photo # 6)
9. Disconnect the OEM front brake line brackets from the OEM front lower control arms using a 15mm socket / wrench. (See Photo # 7)
10. Mark the location of the OEM front driveshaft / flange at the front differential & disconnect using a 15mm socket / wrench. (See Photo # 8)
11. Disconnect the wiring harness from the passenger side OEM front upper control arm using pliers.



Photo # 2



Photo # 3



Photo # 4



Photo # 5

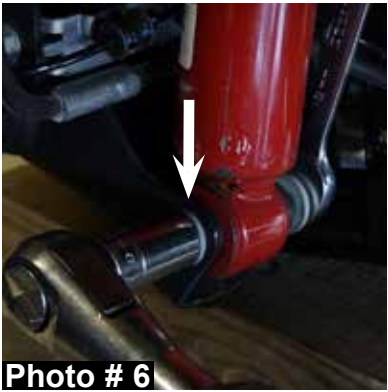


Photo # 6

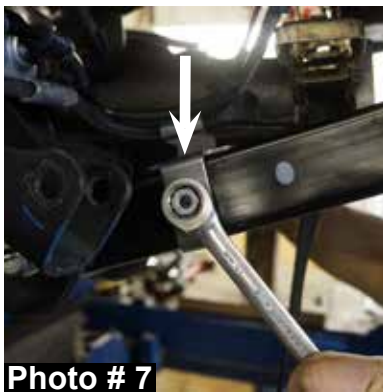


Photo # 7



Photo # 8

12. Disconnect the wiring harness from the OEM 4wd acuator. (See Photo # 9)
13. Disconnect the OEM vent hose from the front differential using pliers.
14. While checking for appropriate slack in ABS lines, brake lines, differential vent hose, & etc. Lower the front differential & remove the OEM front coil springs.
15. Install the new Skyjacker front coil springs & new Skyjacker front bump stop spacers to the OEM front bump stop pads using the supplied 3/8" x 4 1/2" button head bolts, 3/8" washers, 3/8" nuts, a 7/32" hex key socket / wrench, & 9/16" socket / wrench. (See Photo # 10) **Note:** Be sure when installing the new front coil springs that the tabs of each OEM front upper coil spring isolator are aligned with the holes of the OEM front upper coil spring mounts.
16. Raise the front differential in order to load the new Skyjacker front coil springs & connect the OEM front driveshaft using the OEM hardware & a 15mm socket / wrench. (See Photo # 8)
17. Connect the OEM drag link to the OEM pitman arm using the OEM hardware & a 21mm socket / wrench. (See Photo # 5)
18. Connect the OEM vent hose to the front differential using pliers.
19. Connect the wiring harness to the OEM 4wd acuator. (See Photo # 9)
20. Connect the wiring harness to the passenger side OEM front upper control arm.
21. Install the new Skyjacker front brake line brackets to the OEM front lower control arms using the OEM hardware & a 15mm socket / wrench. (See Photo # 11)
22. Connect the OEM front brake line brackets to the new Skyjacker front brake line brackets using the supplied 1/4" x 1" bolts, 1/4" washers, 1/4" nuts, & a 7/16" socket / wrench. (See Photo # 11)
23. Install the new Skyjacker front shocks using the supplied polyurethane bushings, steel sleeves, OEM hardware & a 18mm socket / wrench. **Note:** The new front shocks use the larger inside diameter polyurethane bushings / longer steel sleeves for the front upper shock mounts & the smaller inside diameter polyurethane bushings / shorter steel sleeves for the front lower shock mounts. (See Photo # 12)

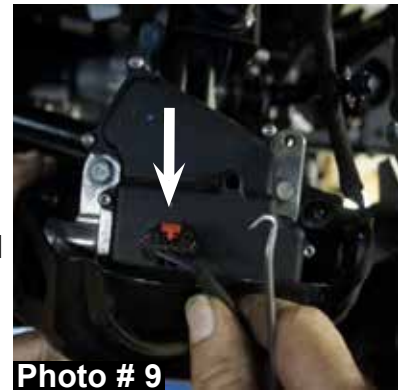


Photo # 9

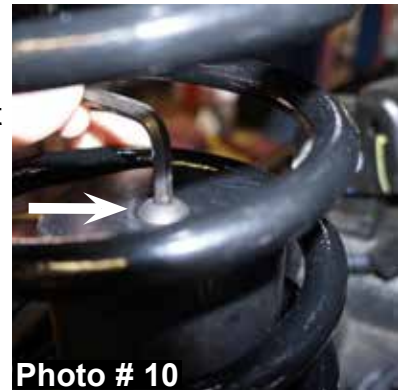


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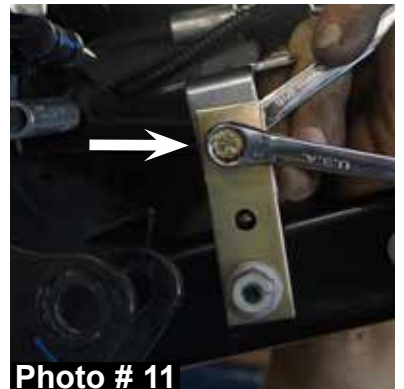


Photo # 11



Photo # 12

24. Install the new Skyjacker front sway bar end links using the supplied polyurethane bushings, steel sleeves, 12mm x 70mm bolts, 7/16" USS washers, 12mm nuts, OEM hardware, a 18mm socket / wrench, & 19mm socket / wrench. (See Photo # 13) **Note:** On the driver side of the vehicle, install the OEM lower bolt with the large washer to the bushing side of the new front sway bar end link.



25. Install the OEM front skid plate using the OEM hardware & a 13mm socket / wrench. (See Photo # 2)

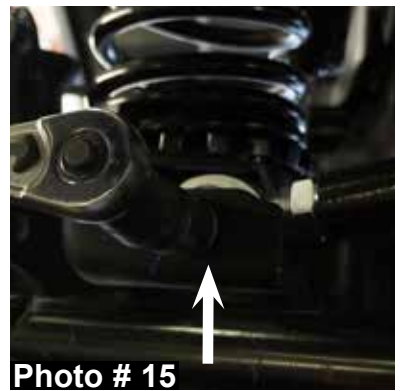
26. Install the front tires / wheels using a 22mm socket & lower the front of the vehicle to the ground. (See Photo # 1)

27. Install the fixed end of the new Skyjacker adjustable front track bar to the frame using the OEM hardware & a 21mm socket / wrench. (See Photo # 14) **Note:** Do not tighten at this time.



28. Using a measuring tape, check the front of the vehicle to make sure the body is centered over the front tires / wheels & adjust the new Skyjacker rod end to align with the lower track bar mounting location.

29. Install the adjustable end of the new Skyjacker adjustable front track bar to the front differential using the supplied rod end bushings, OEM hardware, & a 21mm socket / wrench. (See Photo # 15) **Note:** Fully tighten the OEM hardware at this time.



30. Tighten the supplied jam nut of the new Skyjacker adjustable front track bar using a 1 1/8" wrench.

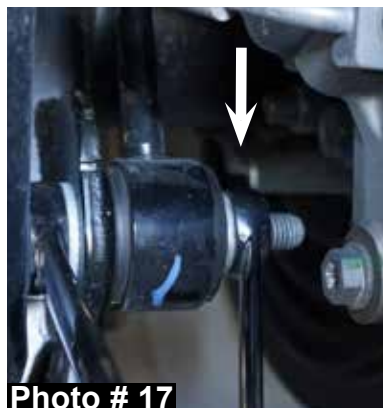
Rear Installation:

1. Block the front tires / wheels, raise the rear of the vehicle, support the frame rails, & rear differential using jack stands.

2. Remove the rear tires / wheels using a 22mm socket. (See Photo # 16)



3. Remove the OEM rear sway bar end links using a 6mm hex key socket / wrench & 18mm socket / wrench. (See Photo # 17)



4. Disconnect the OEM rear track bar from the frame using a 21mm socket / wrench. (See Photo # 18)
5. In order to gain access to the OEM rear upper shock mounting bolts, remove the OEM rear lower fender liners using a 8mm socket / wrench. (See Photo # 19)
6. Remove the OEM rear shocks using a 18mm socket / wrench. (See Photo # 20)
7. Disconnect the OEM rear brake line brackets from the frame & rear differential using a 10mm socket / wrench & 13mm socket / wrench. (See Photo # 21)
8. While checking for appropriate slack in ABS lines, brake lines, differential vent hose, & etc. Lower the rear differential & remove the OEM rear coil springs.
9. Install the new Skyjacker rear upper track bar bracket to the frame with the double hole side of the new rear upper track bar bracket towards the outside of the vehicle using the supplied 1/2" x 5" bolt, 1/2" washers, 1/2" nut, 9/16" x 1 1/4" bolts, 9/16" washers, 9/16" nuts, a 3/4" socket / wrench, 13/16" socket / wrench, & 7/8" socket / wrench. (See Photo # 22) **Note:** Install the 1/2" bolt & 9/16" bolts with the threads inward of the new rear upper track bar bracket. It may be necessary to slightly grind the welds of the OEM rear upper track bar bracket on the frame in order for the new rear upper track bar bracket to be installed easily over the OEM rear upper track bar bracket on the frame.
10. Install the new Skyjacker rear bump stop spacers to the OEM rear bump stop pads using the supplied 5/16" x 1" bolts, 5/16" washers, 5/16" nuts, & a 1/2" socket / wrench. (See Photo # 23) **Note:** When installed, the longest angle on top of the new rear bump stop spacers face toward the front of the vehicle.



Photo # 18



Photo # 19

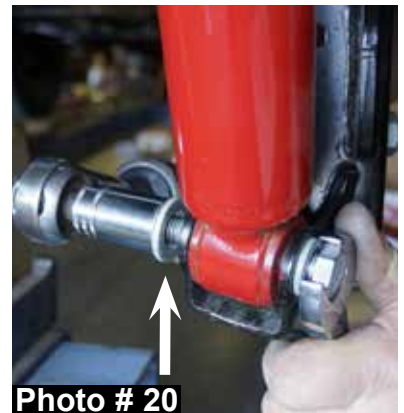


Photo # 20

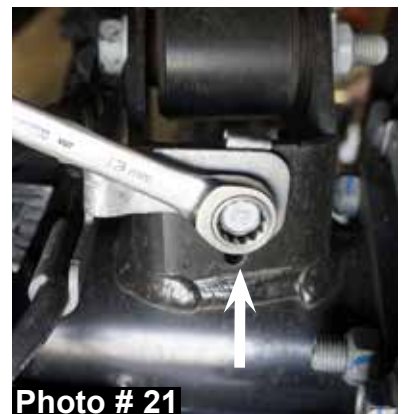


Photo # 21

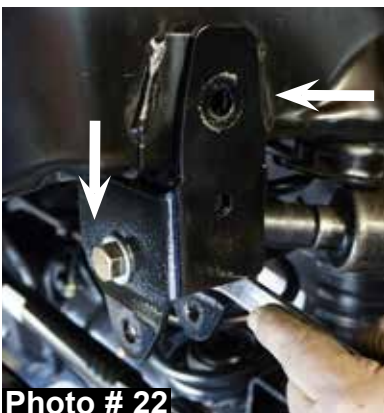


Photo # 22



Photo # 23

11. Install the new Skyjacker rear coil springs. **Note:** The new rear coil spring with a "L" as the last digit of the part # is to be installed on the Driver Side of the vehicle & the new rear coil spring with a "R" as the last digit of the part # is to be installed on the Passenger Side of the vehicle. Be sure when installing the new rear coil springs that the tabs of each OEM rear upper coil spring isolator are aligned with the holes of the OEM rear upper coil spring mounts.

12. Raise the rear differential in order to load the new Skyjacker rear coil springs & install the new Skyjacker rear shocks using the supplied polyurethane bushings, steel sleeves, OEM hardware & a 18mm socket / wrench. **Note:** The new rear shocks use the larger inside diameter polyurethane bushings / longer steel sleeves for the rear upper shock mounts & the smaller inside diameter polyurethane bushings / shorter steel sleeves for the rear lower shock mounts. (See Photo # 12)

13. Install the OEM rear lower fender liners using the OEM hardware & a 8mm socket / wrench. (See Photo # 19)

14. Connect the OEM rear brake line brackets to the rear differential using the OEM hardware & a 13mm socket / wrench. (See Photo # 21)

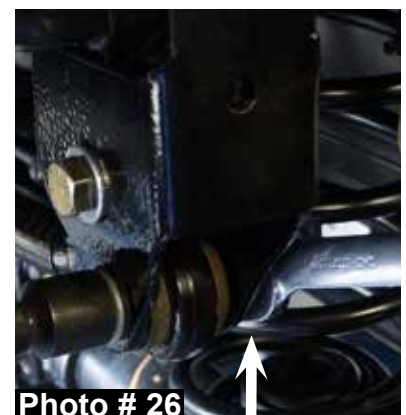
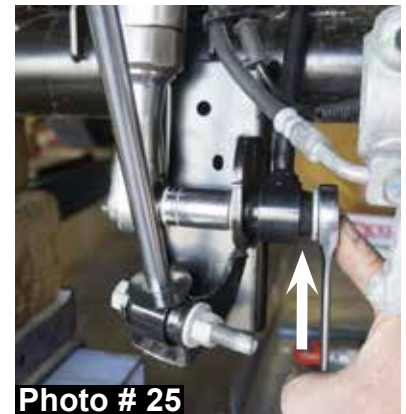
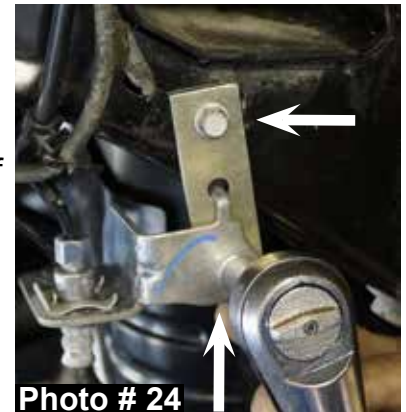
15. Install the new Skyjacker rear brake line brackets to the frame using the OEM hardware & a 10mm socket / wrench. (See Photo # 24)

16. Slightly bend / straighten the OEM rear hard brake lines & connect the OEM rear brake line brackets to the new Skyjacker rear brake line brackets using the supplied 1/4" x 1" bolts, 1/4" washers, 1/4" nuts, & a 7/16" socket / wrench. (See Photo # 24) **Note:** Be very careful not to damage the OEM rear hard brake lines.

17. Install the new Skyjacker rear sway bar end links using the supplied polyurethane bushings, steel sleeves, 12mm x 65mm button head bolts, 7/16" USS washers, 12mm nuts, OEM hardware, a 5/16" hex key socket / wrench, & 18mm socket / wrench. (See Photo # 25) **Note:** Install the new upper end link button head bolts from the outside of the vehicle inward & the OEM lower bolts with the large / washer to the bushing side of the new rear sway bar end links.

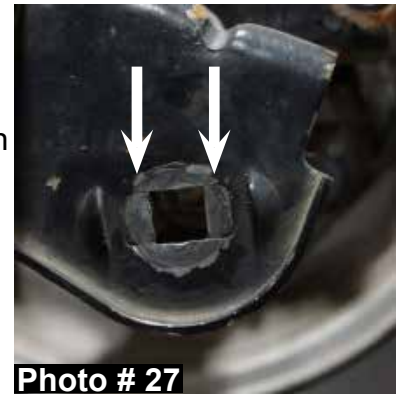
18. Install the rear tires / wheels using a 22mm socket & lower the rear of the vehicle to the ground. (See Photo # 13)

19. Connect the OEM rear track bar to the new Skyjacker rear upper track bar bracket using the OEM hardware & a 21mm socket / wrench. (See Photo # 15) **Note:** Install the OEM bolt with the threads towards the rear of the vehicle.



Front Lower & Rear Upper Cam Bolt Installation:

1. One at a time, disconnect the OEM front lower & rear upper control arms from the front & rear differentials using a 21mm socket / wrench & 24mm socket / wrench.
2. The OEM front lower & rear upper control arm brackets are scribed so they can be made a slotted hole. Knock out these notches on the front & rear half of the OEM front lower & rear upper control arm brackets. (See Photo # 27)
3. One at a time, connect the OEM front lower & rear upper control arms to the front & rear differential using the new Skyjacker eccentric cam bolts, eccentric washers, nuts, a 21mm socket / wrench, 22mm socket / wrench, & 24mm socket / wrench. (See Photo # 28)
4. With the vehicle on the ground & the weight of the vehicle on the tires / wheels, tighten the new Skyjacker eccentric cam bolts using a 21mm socket / wrench, 22mm socket / wrench, & 24mm socket / wrench. **Note:** These new eccentric cam bolts can be rotated forward or backward for caster adjustment & to adjust the axle pinion angle to eliminate driveline vibrations.



Final Notes:

- After the installation is complete, double check that all nuts & bolts are tight. Refer to the following chart for the proper torque specifications. (Do not retighten the nuts & bolts where thread lock compound was used.)
- With the vehicle placed on the ground, cycle the steering lock to lock & inspect the steering, suspension, brake lines, front & rear drivelines, fuel lines, & wiring harnesses for proper operation, tightness, & adequate clearance.
- Have the headlights readjusted to the proper settings.
- Have a qualified alignment center align the vehicle to the OEM specifications.
- After the first 100 miles, check all hardware for the proper torque & periodically thereafter.

TORQUE SPECIFICATIONS

<u>INCH SYSTEM</u>			<u>METRIC SYSTEM</u>		
Bolt Size	Grade 5	Grade 8	Bolt Size	Class 8.8	Class 10.9
5/16	15 FT LB	20 FT LB	6MM	5 FT LB	9 FT LB
3/8	30 FT LB	35 FT LB	8MM	18 FT LB	23 FT LB
7/16	45 FT LB	60 FT LB	10MM	32 FT LB	45 FT LB
1/2	65 FT LB	90 FT LB	12MM	55 FT LB	75 FT LB
9/16	95 FT LB	130 FT LB	14MM	85 FT LB	120 FT LB
5/8	135 FT LB	175 FT LB	16MM	130 FT LB	165 FT LB
3/4	185 FT LB	280 FT LB	18MM	170 FT LB	240 FT LB

• The above specifications are not to be used when the bolt is being installed with a bushing.

Optional HD OEM Replacement Steering Stabilizers Available:

7008 HD OEM Replacement Steering Stabilizer - White Steering Damper
 8008 HD OEM Replacement Steering Stabilizer - Black Steering Damper
 9008 HD OEM Replacement Steering Stabilizer - Silver Steering Damper

Optional Dual Steering Stabilizer Kits Available:

7208 Dual Steering Stabilizer Kit - White Steering Dampers
 8208 Dual Steering Stabilizer Kit - Black Steering Dampers
 9208 Dual Steering Stabilizer Kit - Silver Steering Dampers

Optional HD Front / Rear Upper & Lower Control Arms Available:

JL24LL HD Front & Rear Lower Control Arms - Set / 1"- 4" Lift
 JL24LLX Single Flex Front & Rear Lower Control Arms - Set / 1"- 6" Lift
 JLL24F-SX Single Flex Front Lower Control Arms - Pair / 1"- 6" Lift
 JLL24R-SX Single Flex Rear Lower Control Arms - Pair / 1"- 6" Lift
 JLULF26-SX Single Flex Front Upper Control Arms - Pair / 1"- 6" Lift
 JLULR26-SX Single Flex Rear Upper Control Arms - Pair / 1"- 6" Lift



As of February 21, 2018 Skyjacker is proud to have passed the rigorous FMVSS No.126 testing requirements on all Jeep Wrangler JL lift systems. FMVSS No.126 is the National Highway Traffic Safety Administration (NHTSA) that is established for the Federal Motor Vehicle Safety Standard (FMVSS) No.126 requiring all new passenger vehicles under 10,000lbs GVWR that include an Electronic Stability Control (ESC) system through a series of evasive lane-change maneuvers at highway speeds to ensure the driver can maintain control in critical driving situations. The main objective behind this mandate is to reduce the risk of rollovers among passenger vehicles. Skyjacker has a number of our lift systems tested to prove compliance with the FMVSS No.126 mandate. These Skyjacker systems are proven to work in harmony with the Electronic Stability Control (ESC) system. Through SEMA & the advanced testing technology by Link Engineering that involves robotic steering & outrigger equipment Skyjacker has demonstrated compliance with these safety standards.

Seat Belts Save Lives, Please Wear Your Seat Belt.