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# Jeep Gladiator JT 2.5" Suspension Lift Installation Instructions

### Required Tools List:

- Safety Glasses
- Metric & SAE Sockets / Wrenches
- Metric & SAE Hex Key Sockets / Wrenches
- Pliers
- 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. If any parts are found to be missing, contact SKYJACKER® Customer Service at 318-388-0816 to obtain the needed items. If you have any questions or reservations about installing this product, contact SKYJACKER® Technical Assistance at 318-388-0816.

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.

Driver Side Front: \_\_\_\_\_

Passenger Side Front: \_\_\_\_\_

Driver Side Rear: \_\_\_\_\_

Passenger Side Rear: \_\_\_\_\_

### Important Notes:

- After installation, 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 #: G250PBLT / G250PMLT / G250RPBLT / G250RPMLT / G251PBLT / G251PMLT / G251RPBLT / G251RPMLT**

Item #	Description	Qty	Item #	Description	Qty
JL23FS-DR	FRONT D/R L/T COIL SPRING (Included w/ G250 & G251)	2	B8386	FRONT BLACK MAX SHOCK (Included w/ G250PB, G250RPB, G251PB, & G251RPB)	2
G24FS-DR	FRONT D/R L/T COIL SPRING (Included w/ G250R & G251R)	2	M9386	FRONT M95 MONOTUBE SHOCK (Included w/ G250PM, G250RPM, G251PM, & G251RPM)	2
JTG10RMS-S	REAR METAL COIL SPACER (Included w/ G250 & G250R)	2	B8396	REAR BLACK MAX SHOCK (Included w/ G250PB, G250RPB, G251PB, & G251RPB)	2
G205RS-DR	REAR D/R L/T COIL SPRING (Included w/ G251)	1	M9396	REAR M95 MONOTUBE SHOCK (Included w/ G250PM, G250RPM, G251PM, & G251RPM)	2
G210RS-DR	REAR D/R L/T COIL SPRING (Included w/ G251 & G251R)	1			
G215RS-DR	REAR D/R L/T COIL SPRING (Included w/ G251R)	1			
H-BOX G251	HWDR BOX: G250 / G251 KITS	1			

## Hardware Box Breakdown:

### **Part # H-BOX G251**

Item #	Description	Qty	Item #	Description	Qty
SBE4028-L	FRONT SWAY BAR END LINK	2	HB-JTGSBER	HDWR BAG: REAR END LINKS	1
SBE506-L	REAR SWAY BAR END LINK	2	HB-SBENB03	HDWR BAG: FRONT END LINKS	1
HB-BSS3020	HDWR BAG: FRT BUMP STOPS	1	I-G250	INST SHEET: G250 / G251 KITS	1

## Hardware Bag Breakdown:

### **Part # HB-BSS3020**

Item #	Description	Qty	Item #	Description	Qty
BSS3020-S	FRONT BUMP STOP SPACER	2	38SAEW	3/8 SAE WASHER	2
38X234BHB	3/8 X 2 3/4 BUTTON HEAD BOLT	2	38CTN	3/8 COARSE THRD N/I LOCK NUT	2

### **Part # HB-JGTSBER**

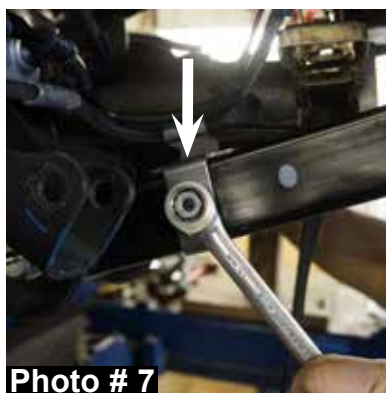
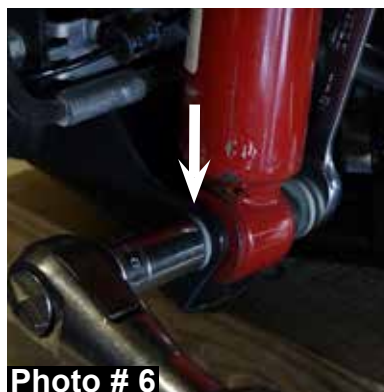
Item #	Description	Qty	Item #	Description	Qty
HG58125-K	BLACK HOURGLASS BUSHING	4	716USSW	7/16 USS FLAT WASHER	6
403712	CRUSH SLEEVE / 1.25 LONG	4	12MMN	12MM METRIC N/I LOCK NUT	2
12X65MMB	12MM X 65 METRIC BOLT	2			

### **Part # HB-SBENB03**

Item #	Description	Qty	Item #	Description	Qty
141509	CRUSH SLEEVE / 1.50 LONG	4	716USSW	7/16 USS FLAT WASHER	4
12X70MMB	12MM X 70MM METRIC BOLT	2	12MMN	12MM METRIC N/I 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)
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. Disconnect the OEM front track bar from the frame 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.
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 2 3/4" 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 tab of each OEM front upper coil spring isolator aligns with the hole of each OEM front upper coil spring mount.
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. Connect the OEM front brake line brackets to the OEM front lower control arms using the OEM hardware & a 15mm socket / wrench. (See Photo # 7)
22. 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 # 11)



Photo # 8

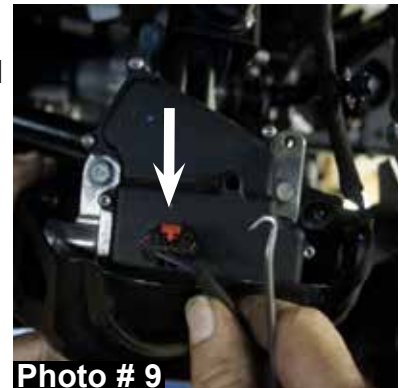


Photo # 9



Photo # 10



Photo # 11

23. Install the new Skyjacker front sway bar end links using the supplied steel sleeves, 12mm x 70mm bolts, 7/16" USS washers, 12mm nuts, OEM hardware, a 18mm socket / wrench, & 19mm socket / wrench. (See Photo # 12) **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.

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

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

26. Connect the OEM front track bar to the frame using the OEM hardware & a 21mm socket / wrench. (See Photo # 4) **Note:** Slightly turning the steering wheel will help align the OEM front track bar with the frame mount.

### **Rear Installation:**

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

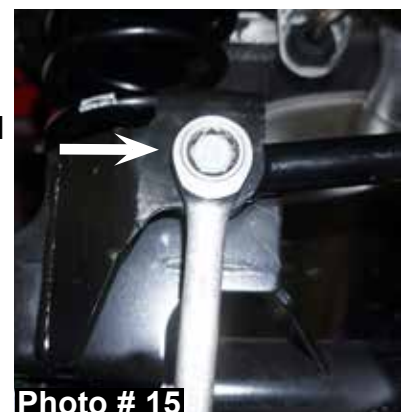
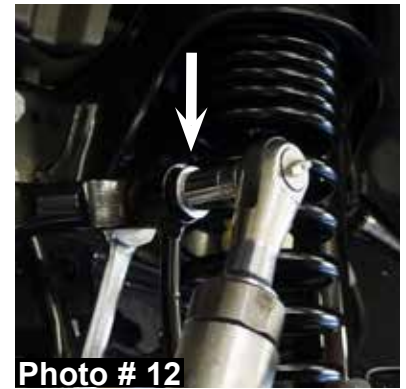
2. Remove the rear tires / wheels using a 22mm socket. (See Photo # 13)

3. Remove the OEM rear sway bar end links using a 6mm hex key socket / wrench & 18mm socket / wrench. (See Photo # 14)

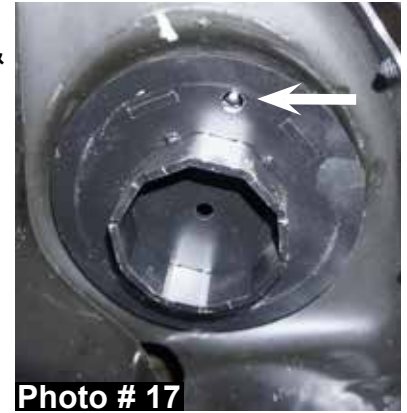
4. Disconnect the OEM rear track bar from the rear differential using a 21mm socket / wrench. (See Photo # 15)

5. Remove the OEM rear shocks using a 21mm socket / wrench. (See Photo # 16)

6. While checking for appropriate slack in ABS lines, brake lines, differential vent hose, & etc. Lower the rear differential & remove the OEM rear coil springs.

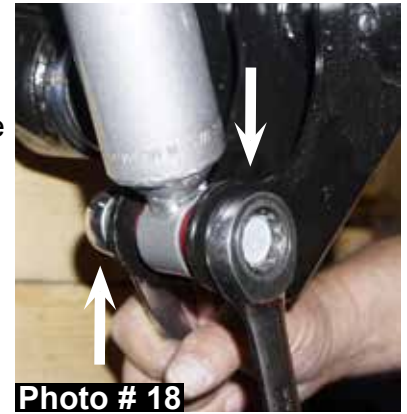


7. **G250 & G250R Kits:** Install the new Skyjacker rear coil spring spacers to the OEM rear coil spring mounts using the supplied 1/4" x 3/4" bolts & a 7/16" wrench. (See Photo # 17)



8. **G250 & G250R Kits:** Install the OEM rear coil spring isolators & OEM rear coil springs. **Note:** Be sure when installing the OEM rear coil spring isolators that the tab of each OEM rear upper coil spring isolator aligns with the hole of each new Skyjacker rear coil spring spacer.

9. **G251 & G251R Kits:** Install the new Skyjacker 2-Stage Variable Rate rear coil springs. **Note:** The new rear coil springs are side specific. The shorter new rear coil spring will be installed on the driver side of the vehicle & the longer new rear coil spring will be installed on the passenger side of the vehicle. See the list below for specific new rear coil spring part # & location information. Also, be sure when installing the new rear coil springs that the tab of each OEM rear upper coil spring isolator aligns with the hole of each OEM rear upper coil spring mount.



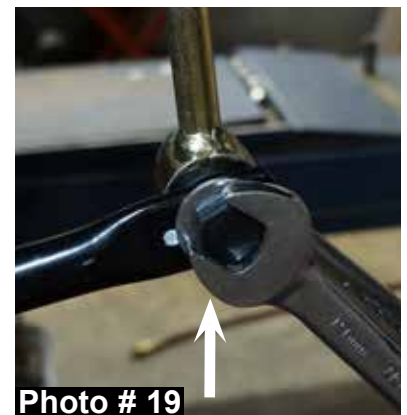
**Skyjacker 2-Stage Variable Rate Rear Coil Spring Locations:**

**G251 Kits:** Driver Side Rear Part #: G205RS-DR (Shorter Rear Coil Spring)

Passenger Side Rear Part #: G210RS-DR (Longer Rear Coil Spring)

**G251R Kits:** Driver Side Rear Part #: G210RS-DR (Shorter Rear Coil Spring)

Passenger Side Rear Part #: G215RS-DR (Longer Rear Coil Spring)



10. 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 21mm socket / wrench. (See Photo # 18) **Note:** The new Skyjacker rear shocks must be mounted with the "body end" at the rear differential & the "rod end" at the frame.

11. Install the new Skyjacker rear sway bar end links using the supplied polyurethane bushings, steel sleeves, 12mm x 65mm bolts, 7/16" USS washers, 12mm nuts, OEM upper hardware, a 18mm socket / wrench, & 19mm socket / wrench. (See Photo # 19)

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

13. Connect the OEM rear track bar to the rear differential using the OEM hardware & a 21mm socket / wrench. (See Photo # 15)

**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.

<b>TORQUE SPECIFICATIONS</b>					
<b><u>INCH SYSTEM</u></b>			<b><u>METRIC SYSTEM</u></b>		
<b>Bolt Size</b>	<b>Grade 5</b>	<b>Grade 8</b>	<b>Bolt Size</b>	<b>Class 8.8</b>	<b>Class 10.9</b>
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.

**Seat Belts Save Lives, Please Wear Your Seat Belt.**

**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 Front / Rear Adjustable Track Bars Available:**

JLFTBA18 Front Adjustable Track Bar / 1"- 4.5" Lift  
JTGRTBA20 Rear Adjustable Track Bar / 1"- 4.5" Lift

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

JL24LLF HD Front Lower Control Arms - Set / 1"- 4.5" Lift  
GULR24 HD Rear Upper Control Arms - Set / 1"- 4.5" Lift  
JLL24F-SX Single Flex Front Lower Control Arms - Pair / 1"- 6" Lift  
GLL24R-SX Single Flex Rear Lower Control Arms - Pair / 1"- 6" Lift  
JLULF26-SX Single Flex Front Upper Control Arms - Pair / 1"- 6" Lift  
GULR24-SX Single Flex Rear Upper Control Arms - Pair / 1"- 6" Lift

**Optional Accessories:**

JLOSM Front Outboard Shock Mounting Brackets  
SBE4238 Front Double Disconnect Sway bar End Links / 2"- 3" Lift  
SBE4258 Front Double Disconnect Sway bar End Links / 3.5"- 6" Lift