



2017 Ford F250 / F350 Super Duty 8.5" Suspension Lift Installation Instructions

REQUIRED TOOL LIST:

- Safety Glasses
- Metric / Standard Sockets & Wrenches
- Pliers
- Hammer
- Tubing Bender
- Grinder
- Pitman Arm Puller
- Floor Jack / Jack Stands
- Measuring Tape
- Torque Wrench



Before beginning the installation, thoroughly & completely read these instructions & the enclosed driver's WARNING NOTICE. 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 the 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 & 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:

- If larger tires (10% more than the OEM diameter) are installed, speedometer recalibration will be necessary. Contact your local Ford 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 #: F17852

Item #	Description	Qty	Item #	Description	Qty
7011-B	STEER STABILIZER BRACKET	1	TB1180-B	8.5" TRACK BAR BRACKET	1
FA450	PITMAN ARM	1	58X325X20SPU	5/8 X 3 1/4 X 20 U-BOLT SP	4
RAB546-S	RADIUS ARM BRACKET	2	H-BOX F17852	HDWR BX: F17852 COM BOX	1

Hardware Box Breakdown:

Part # H-BOX F17852

Item #	Description	Qty	Item #	Description	Qty
BSB70-B	7" BUMP STOP SPACER	2	HB-17250TBS	HDWR BG: SWAY, TRACK BAR	1
F17BE-D	8.5" DRIV BRAKE LINE BRACKET	1	HB-17SDSS	HDWR BG: STEER STABILIZE	1
F17BE-P	8.5" PASS BRAKE LINE BRACKET	1	HB-17852BSS	HDWR BG: 7" BUMP STP SPC	1
RB55	5.5" REAR LIFT BLOCK	2	HB-58	HDWR BG: 5/8 LOCK NUT	1
RBL17S	8.5" REAR BRAKE LINE	2	HB-F1768EC	HDWR BG: EMER BRK CABLE	1
SBL40-L	4" DRIV SWAY BAR LWR BRKT	1	HB-RAB545	HDWR BG: RADIUS ARM BRK	1
SBL40-R	4" PASS SWAY BAR LWR BRKT	1	I-F1785	INST SHEET: F17852	1
VT53229	5/32 X 29 VACUUM TUBING	2			

Part # HB-17250TBS

Item #	Description	Qty	Item #	Description	Qty
BTIE-K	BLACK BOOT TIE	10	716SAEW	7/16 SAE WASHER	8
D260PSS-S	TRACK BAR SUPPORT SLEEVE	3	916X3FTB	9/16 X 3 FINE THREAD BOLT	3
716X112FTB	7/16 X 1 1/2 FINE THREAD BOLT	4	916FTN	9/16 FINE THREAD LOCK NUT	3
716FTN	7/16 FINE THREAD LOCK NUT	4	916SAEW	9/16 SAE WASHER	6

Part # HB-17SDSS

Item #	Description	Qty	Item #	Description	Qty
F1768SSB-B	STEERING STABILIZER U-BRKT	1	12FTN	1/2 FINE THREAD LOCK NUT	1
SBEBUSH-5815	5/8 X 1.5 STABILIZER BUSHING	1	12X60MMB	12MM X 60MM BOLT	1
141509	1/2 X 1.5 SLEEVE	1	12MMN	12MM LOCK NUT	1
SSB1768-T	STRG STAB TAPERED SLEEVE	1	916X214FTB	9/16 X 2 1/4 FINE THREAD BOLT	1
12X234FTB	1/2 X 2 3/4 FINE TRHEAD BOLT	1	916SAEW	9/16 SAE WASHER	2
12SAEW	1/2 SAE WASHER	4	916FTN	9/16 FINE THREAD LOCK NUT	1

Part # HB-17852BSS

Item #	Description	Qty	Item #	Description	Qty
8X30MMB	8MM X 30MM BOLT	2	516FTN	5/16 FINE THREAD LOCK NUT	2
516X1FTB	5/16 X 1 FINE THREAD BOLT	2	LT100	NUTS N' BOLTS 427 1 ML TUBE	1
516USSW	5/16 USS WASHER	6			

Part # HB-58

Item #	Description	Qty
58FTN	5/8 FINE THREAD LOCK NUT	8

Part # HB-F1768EC

Item #	Description	Qty	Item #	Description	Qty
F17RBE-B	E-BRAKE CABLE LWR BRKT	1	38X1FTB	3/8 X 1 FINE THREAD BOLT	3
F960ECB	E-BRAKE CABLE FRAME BRKT	1	38FTN	3/8 FINE THREAD LOCK NUT	3
F960ECE	E-BRAKE CABLE EXTEN BRKT	1	38SAEW	3/8 SAE WASHER	6
14X1FTB	1/4 X 1 FINE THREAD BOLT	1	12X112FTB	1/2 X 1 1/2 FINE THREAD BOLT	1
14FTN	1/4 FINE THREAD LOCK NUT	1	12FTN	1/2 FINE THREAD LOCK NUT	1
14SAEW	1/4 SAE WASHER	2	12SAEW	1/2 SAE WASHER	2

Part # HB-RAB545

Item #	Description	Qty	Item #	Description	Qty
34X2CTB	3/4 X 2 COARSE THREAD BOLT	8	34SAEW	3/4 SAE WASHER	16
34CTN	3/4 COARSE THREAD LOCK NUT	8			

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 vehicle securely using jack stands.
3. While supporting the front differential, remove the front tires / wheels using a 21mm socket.
4. Disconnect the OEM front sway bar from the frame using a 15mm socket / wrench & install the new Skyjacker sway bar lowering brackets to the frame using the OEM hardware & a 15mm wrench. (See Photo # 1)
5. Connect the OEM sway bar to the new Skyjacker sway bar lowering brackets using the supplied 7/16" x 1 1/2" fine thread bolts, washers, nuts, & a 5/8" socket / wrench. (See Photo # 1)
6. Disconnect the OEM sway bar end links from the OEM sway bar using a 18mm socket / wrench.
7. Remove the retaining clip from each OEM ABS line & brake line bracket using pliers & remove the OEM ABS line & brake line brackets from the frame using a 13mm socket / wrench. (See Photo # 2)
8. Disconnect the OEM 4WD actuator lines from the upper frame.
9. Remove the OEM steering stabilizer from the OEM frame bracket & OEM drag link using a 15mm & 18mm socket / wrench.
10. Remove the OEM steering stabilizer bracket from the frame using a 13mm socket / wrench.



11. Disconnect the OEM drag link from the OEM pitman arm using a 24mm socket / wrench.
12. Disconnect the OEM track bar from the OEM track bar bracket using a 1 3/16" & 1 1/4" socket / wrench. (See Photo # 3)
13. Remove the OEM front shocks using a 18mm & 21mm socket / wrench.
14. Lower the front differential & remove the OEM front coil springs. (See Photo # 4) **Note:** Retain the OEM upper rubber isolator pads, they will be used with the new Skyjacker front coil springs.
15. Disconnect the OEM radius arms from each OEM frame bracket using a 24mm & 28mm socket / wrench. **Note:** Remove "one side" at a time so the front differential does not move.
16. Install the new Skyjacker radius arm drop brackets into each OEM frame bracket using the supplied 3/4" x 2" coarse thread bolts, washers, nuts, a 1 1/16" & 1 1/8" socket / wrench. (See Photo # 5) **Note:** The outer bolts will install from the "outside in" & the inner bolts will install from the "inside" of the radius arm brackets, pointing out.
17. Install the new Skyjacker 4-link arms to the new Skyjacker radius arm brackets using the supplied instruction # I-F58484LU. **Note:** Install the new lower links in the "lower" mounting location, "one side at a time" so the front differential does not move.
18. Remove the OEM track bar bracket from the frame & front cross member using a 18mm socket / wrench.
19. Remove the OEM pitman arm from the OEM steering gear using a 1 13/16" socket / wrench & pitman arm puller. (See Photo # 6)
20. Before installing the new Skyjacker pitman arm, it is **EXTREMELY IMPORTANT** that the following steps be followed. The thread locking compound on the threads of the OEM pitman arm nut & the threads on the steering sector shaft "must be thoroughly cleaned & dried before applying new thread locking compound."
21. Apply a bead of the supplied thread locking compound all the way around the "entire threads of the OEM pitman arm nut" & install the new Skyjacker pitman arm using a 1 13/16" socket / wrench. (See Photo # 7) **Torque the OEM pitman arm nut to 350 Ft. Lbs!**



22. Install the new Skyjacker track bar bracket to the OEM location on the cross member using the supplied 9/16" x 3" fine thread bolts, washers, nuts, a 13/16", & 7/8" socket / wrench. **Note:** Use the three .938" long anti-crush spacers between the front of the new track bar bracket & the OEM cross member. Do not tighten at this time. (See Photo # 8)



23. Complete the installation of the new Skyjacker track bar bracket to the frame using the OEM hardware, & a 18mm socket / wrench. (See Photo # 9) **Note:** Tighten the new track bar bracket hardware at this time using a 18mm, 13/16", & 7/8" socket / wrench.



24. Remove the OEM bump stops & bump stop cups from the frame using a 10mm socket / wrench.

25. In order for the OEM bump stop cups to sit flush against the new Skyjacker bump stop spacers, tap the locator tab on top of each OEM bump stop cup flat using a hammer. (See Photo # 10)

26. With the straight side of the new Skyjacker bump stop spacers facing forward the front of the vehicle, install each new bump stop spacer to the frame using the supplied 8mm x 30mm bolts, washers, thread locking compound, & a 13mm socket / wrench. (See Photo # 11)



27. Install the OEM bump stop cups to the new Skyjacker bump stop spacers using the supplied 5/16" x 1" fine thread bolts, washers, nuts, & a 1/2" socket / wrench. (See Photo # 11)

28. Install the OEM bump stops into each OEM bump stop cup. (See Photo # 11)

29. Install the new Skyjacker front coil springs. (See Photo # 12) **Note:** Be sure to reuse the OEM rubber isolator pads on top of each new front coil spring.



30. Connect the OEM track bar to the new Skyjacker track bar bracket using the OEM hardware, a 1 3/16", & 1 1/4" socket / wrench.

31. Connect the OEM 4WD actuator lines using the supplied vacuum line extensions & plastic ties.

32. Install the new Skyjacker brake line brackets to the frame using the OEM hardware & a 13mm socket / wrench. (See Photo # 13)



33. Disconnect the OEM front flex brake lines from the OEM front hard brake lines using a 13mm & 16mm wrench.
34. Rotate each OEM front flex brake line 180 degrees & secure to the new Skyjacker brake line brackets using the OEM brake line retaining clips thru the groove in each OEM brake line fitting. (See Photo # 13)
35. While holding the OEM front hard brake lines in place, straighten each OEM front hard brake line using a tubing bender & connect the OEM front flex brake lines to the OEM front hard brake lines using a 13mm & 16mm wrench. (See Photo # 13) **Note:** Be extremely careful not to crimp or damage the OEM front hard brake lines while straightening.
36. Loosen the OEM drag link sleeve using a 15mm socket / wrench & rotate the pitman arm end of the OEM drag link 180 degrees. Attach the OEM drag link to the new Skyjacker pitman arm using a 24mm socket / wrench & tighten the OEM drag link sleeve using a 15mm socket / wrench. (See Photo # 14)
37. Install the new Skyjacker steering stabilizer bracket to the frame using the OEM hardware & a 13mm socket / wrench. (See Photo # 15)
38. Remove the welded washer from the tapered stud of the OEM steering stabilizer using a grinder. (See Arrow In Photo # 16)
39. Remove the OEM tapered stud & bushing from the OEM steering stabilizer using an arbor press. (See Photo # 16)
40. Install the new Skyjacker bushing & sleeve into the eyelet of the OEM steering stabilizer using an arbor press.
41. Install the new Skyjacker tapered sleeve into the tapered hole of the OEM drag link & install the new Skyjacker steering stabilizer bracket to the OEM drag link angled toward the driver side of the vehicle using the supplied 9/16" x 2 1/4" fine thread bolt, washers, nut, & a 13/16" & 7/8" socket / wrench. (See Photo # 17)
42. Install the OEM steering stabilizer to the new Skyjacker steering stabilizer frame bracket using the supplied 12mm x 60mm bolt, washers, nut, & a 19mm socket / wrench. (See Photo # 15) **Note:** The OEM steering stabilizer will mount to the bottom side of the new steering stabilizer bracket mounting surface.



43. Install the OEM steering stabilizer to the new Skyjacker steering stabilizer drag link bracket using the supplied 1/2" x 2 3/4" fine thread bolt, washers, nut, & a 3/4" socket / wrench. (See Photo # 17)
44. Install the new Skyjacker front shocks using the OEM hardware, supplied hardware, a 18mm, & 19mm socket / wrench.
45. Connect the OEM sway bar end links to the OEM sway bar using the OEM hardware & a 18mm socket / wrench.
46. Install the front tires / wheels using a 21mm socket & lower the front of the vehicle to the ground.

Rear Installation:

1. Block the front tires / wheels, raise the rear of the vehicle, & support securely using jack stands.
2. While supporting the rear differential, remove the rear tires / wheels using a 21mm socket.
3. Disconnect the OEM passenger & driver side E-brake cables from the OEM cable unions & disconnect the OEM driver side E-brake cable from the OEM frame bracket.
4. Disconnect the OEM E-brake cable brackets from the OEM frame bracket & OEM rear leaf spring mount using a 13mm socket / wrench.
5. Install the new Skyjacker E-brake relocation bracket to the OEM frame bracket using the supplied 1/2" x 1 1/2" fine thread bolt, 1/4" x 1" fine thread bolt, washers, nuts, a 7/16" socket / wrench, & 3/4" socket / wrench. (See Photo # 18)
6. Connect the OEM driver side E-brake cable to the 1/2" diameter hole directly below the previously installed 1/4" bolt of the new Skyjacker E-brake relocation bracket & connect the OEM passenger side E-brake cable to the new Skyjacker E-brake cable bracket. (See Photo # 18)
7. Connect the OEM E-brake cables to the new Skyjacker E-brake cable bracket & connect the OEM E-brake cable assembly to the OEM cable union. (See Photo # 19)
8. Install the new Skyjacker E-brake cable extension bracket to the OEM rear leaf spring mount using the supplied 3/8" x 1" fine thread bolt, washers, nut, & a 9/16" socket / wrench. (See Photo # 20)



Photo # 18

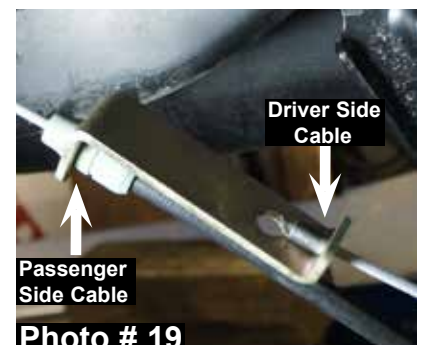


Photo # 19



Photo # 20

9. Connect the OEM E-brake cable brackets to the new Skyjacker E-brake relocation bracket & new Skyjacker E-brake cable extension bracket using the supplied 3/8" x 1" fine thread bolts, washers, nuts, & a 9/16" socket / wrench. (See Photo # 18 & # 20)

10. Remove the OEM brake line retaining clips & disconnect the OEM rear flex brake lines from the OEM upper brake line bracket using pliers & a 13mm wrench.



Photo # 21

11. Install the new Skyjacker rear brake line extensions to the OEM rear flex brake lines & OEM upper brake line bracket using the OEM brake line retaining clips, pliers, a 11/16", 13mm, 1/2", & 7/16" wrench. (See Photo # 21)

12. Remove the OEM rear shocks using a 18mm & 21mm socket / wrench.



Photo # 22

13. Remove the OEM u-bolts using a 24mm socket / wrench. **Note:** The rear differential will now be free to move, support securely using a floor jack.

14. Lower the rear differential & install the new Skyjacker rear lift blocks with the taller end toward the rear bumper, between the axle pad & the OEM rear block. (See Photo # 22) **Note:** The new rear blocks will be installed below the OEM rear blocks.

15. Raise the rear differential to the rear leaf springs. **Note:** Be sure the rear leaf spring center tie bolts & block pins align in the proper holes & are completely seated.

16. Install the new Skyjacker u-bolts using the supplied 5/8" fine thread nuts & a 15/16" socket / wrench.

17. Install the new Skyjacker rear shocks using the OEM hardware, supplied hardware, a 18mm, & 21mm socket / wrench.

18. Install the rear tires / wheels using a 21mm socket & lower the rear of the vehicle to the ground.

19. **Bleeding The Front & Rear Brake Systems:** Fill the master cylinder with D.O.T. approved brake fluid. Pump the brake pedal & hold down. While the brake pedal is down, open the bleeder screw to release any air out of the brake system. Tighten the bleeder screw & re-pump the brake pedal. Continue the pumping / bleeding process until no air is being expelled. Make sure your master cylinder is full of brake fluid after each bleeding process. The brake pedal will not "pump up" or will have excessive down-travel if all the air is not out of the brake system. It is the customer's responsibility to check brake lines for any leaks, abrasion, proper clearances, & brake line fittings after the first 100 miles & periodically thereafter.

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.

<u>TORQUE SPECIFICATIONS</u>					
<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 FTLB	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.