

2017 Ford F250 / F350 4WD Super Duty 4" & 6" Suspension Lift Installation Instructions

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REQUIRED TOOL LIST:

- Safety Glasses
- Metric / Standard Sockets & Wrenches
- Pliers
- Hammer
- Tubing Bender
- Grinder (6" Lift)
- Pitman Arm Puller (6" Lift)
- 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. 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 & 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 #: F17451 / F17451S / F174513 / F17651 / F17651S / F176513

Item #	Description	Qty	Item #	Description	Qty
7011-B	STEER STABILIZER BRACKET	1	H-BOX F17451S	HDWR BX:F17451S COM BOX	1
FA450	PITMAN ARM	1		(Included With F17451S)	
	(Included With F17651, F17651S, & F176513)		H-BOX F174513	HDWR BX: F174513 COM BOX	1
RAB546-S	RADIUS ARM BRACKET	2		(Included With F174513)	
TB1740-B	4" TRACK BAR BRACKET	1	H-BOX F17651	HDWR BX: F17651 COM BOX	1
	(Included With F17451, F17451S,			(Included With F17651)	
	& F174513)				
TB1146-B	6" TRACK BAR BRACKET	1	H-BOX F17651S	HDWR BX:F17651S COM BOX	1
	(Included With F17651, F17651S,			(Included With F17651S)	
	& F176513)				
H-BOX F1745	HDWR BX: F17451 COM BOX	1	H-BOX F176513	HDWR BX: F176513 COM BOX	1
	(Included With F17451)			(Included With F176513)	

<u>Hardware Box Breakdown:</u> Part # H-BOX F17451 / H-BOX F17451S / H-BOX F174513 / H-BOX F17651 / F17651S / H-BOX F176513

Item #	Description	Qty	Item #	Description	Qty
BSS275-B	2.75" BUMP STOP SPACER	2	SBL20-L	2.5" DRIV SWAY BAR LWG BR	1
	(Included With H-BOX F17451, F17451S, & F174513)			(Included With H-BOX F17451, F17451S, & F174513)	
BSS45-S	4.5" BUMP STOP SPACER	2	SBL20-R	2.5" PASS SWAY BAR LWG BR	1
	(Included With H-BOX F17651, F17651S, & F176513)			(Included With H-BOX F17451, F17451S, & F174513)	
F174BE-D	4" DRIVER BRAKE LINE BRACKET	1	SBL40-L	4" DRIV SWAY BAR LWG BRK	1
	(Included With H-BOX F17451, F17451S, & F174513)			(Included With H-BOX F17651, F175651S, & F176513)	
F174BE-P	4" PASS BRAKE LINE BRACKET	1	SBL40-R	4" PASS SWAY BAR LWG BRK	1
	(Included With H-BOX F17451, F17451S, & F174513)			(Included With H-BOX F17651, F17651S, & F176513)	
F17BE-D	6" DRIVER BRAKE LINE BRACKET	1	SP348-B	REAR SPRING PLATE	2
	(Included With H-BOX F17651, F17651S, & F176513)			(Included With H-BOX F17451S & F17651S)	
F17BE-P	6" PASS BRAKE LINE BRACKET	1	VT53229	5/32 X 29 VACUUM TUBING	2
	(Included With H-BOX F17651, F17651S, & F176513)			(Included With H-BOX F17651, F17651S, & F176513)	
RB20	2" REAR LIFT BLOCK	2	58X318X1312U	5/8 X 3 1/8 X 13 1/2 U-BOLT	4
	(Included With H-BOX F17451 & F174513)			(Included With H-BOX F17451S & F17651S)	
RB45	4.5" REAR LIFT BLOCK	2	58X325X16SPU	5/8 X 3 1/4 X 16 U-BOLT	4
	(Included With H-BOX F17651 & F176513)			(Included With H-BOX F17451)	
RBL17S	6" REAR BRAKE LINE	2	58X325X18SPU	5/8 X 3 1/4 X 18 U-BOLT	4
	(Included With H-BOX F17651, F17651S, & F176513)			(Included With H-BOX F174513 & F17651)	

<u>Hardware Box Breakdown:</u> (Continued) Part # H-BOX F17451 / H-BOX F17451S / H-BOX F174513 / H-BOX F17651 / F17651S / H-BOX F176513

Item #	Description	Qty	Item #	Description	Qty
58X325X20SPU	5/8 X 3 1/4 X 20 U-BOLT	4	HB-17651BSS	HDWR BG: 4.5" BUMP STOP	1
	(Included With H-BOX F176513)			(Included With H-BOX F17651, F17651S, & F176513)	
HB-17250TBS	HDWR BG: SWAY, TRACK BAR	1	HB-58	HDWR BG: 5/8 LOCK NUT	1
HB-17SDSS	HDWR BG: STEER STABILIZE	1	HB-F1768EC	HDWR BG: EMER BRK CABLE	1
	(Included With H-BOX F17651, F17651S, & F176513)			(Included With H-BOX F17651, F17651S, & F176513)	
HB-17451BSS	HDWR BG: 2.75" BUMP STOP	1	HB-RAB545	HDWR BG: RADIUS ARM	1
	(Included With H-BOX F17451, F17451S, & F174513)		I-F1745/65	INST SHEET: F17451 / F17651	1

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 (Included With H-BOX F17651, F17651S, & F176513)

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-17451BSS (Included With H-BOX F17451, F17451S, & F174513)

Item #	Description	Qty	Item #	Description	Qty
8X90MMB	8MM X 90MM BOLT	2	12MMN	12MM LOCK NUT	1
516SAEW	5/16 SAE WASHER	2	12SAEW	1/2 SAE WASHER	1
12X60MMB	12MM X 60MM BOLT	1	LT100	NUTS N' BOLTS 427 1 ML TUBE	1

Part # HB-17651BSS (Included With H-BOX F17651, F17651S, & F176513)

Item #	Description	Qty	ltem #	Description	Qty
8X140MMB	8MM X 140MM BOLT	2	LT100	NUTS N' BOLTS 427 1 ML TUBE	1
516SAEW	5/16 SAE WASHER	2			

Part # HB-58

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

Part # HB-F1768EC (Included With H-BOX F17651, F17651S, & F176513)

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 #
34X2CTB	3/4 X 2 COARSE THREAD BOLT	8	34SAEW
34CTN	3/4 COARSE THREAD LOCK NUT	8	

у	Item #	Description	Qty
	34SAEW	3/4 SAE WASHER	16

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.
- 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.
- 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.

I-F1745/65





frame bracket using the supplied 3/4" x 2" coarse thread bolts,

Photo # 4) Note: Retain the

Skyjacker front coil springs.

wrench.

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.

15. Disconnect the OEM radius arms from each OEM frame bracket

16. Install the new Skyjacker radius arm drop brackets into each OEM

at a time so the front differential does not move.

using a 24mm & 28mm socket / wrench. Note: Remove "one side"

- 17. Connect each OEM radius arm to the new Skyjacker radius arm brackets using the OEM hardware, a 24mm, & 28mm socket / wrench. (See Photo # 5) Note: Install in the "upper" mounting location for a 4" lift & the "lower" mounting location for a 6" lift, "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. 6" Lift: Remove the OEM pitman arm from the OEM steering gear using a 1 13/16" socket / wrench & pitman arm puller. (See Photo # 6)
- 20. 6" Lift: 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. <u>6" Lift:</u> 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. <u>Note:</u> 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) <u>Note:</u> 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. Install the new Skyjacker bump stop spacers & OEM bump stop cups to the frame using the supplied 8mm x 90mm bolts (4" lift) or 8mm x 140mm bolts (6" lift), washers, thread locking compound, & a 13mm socket / wrench. (See Photo # 11)
- 27. Install the OEM bump stops into each OEM bump stop cup. (See Photo # 11)
- 28. Install the new Skyjacker front coil springs. (See Photo # 12) <u>Note:</u> Be sure to reuse the OEM rubber isolator pads on top of each new front coil spring.
- 29. 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. <u>Note:</u> The new track bar bracket for a 6" lift will have two mounting locations for the OEM track bar, use the "<u>lower</u>" mounting location.
- <u>4" Lift:</u> Connect the OEM 4WD actuator lines. <u>6" Lift:</u> Connect the OEM 4WD actuator lines using the supplied vaccum line extensions & plastic ties.
- 31. Install the new Skyjacker brake line brackets to the frame using the OEM hardware & a 13mm socket / wrench. (See Photo # 13)
- 32. Disconnect the OEM front flex brake lines from the OEM front hard brake lines using a 13mm & 16mm wrench.











- 33. 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)
- 34. 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) <u>Note:</u> Be extremely careful not to crimp or damage the OEM front hard brake lines while straightening.
- 35. <u>4" Lift:</u> Attach the OEM drag link to the OEM pitman arm using the OEM hardware & a 24mm socket / wrench. <u>6" Lift:</u> 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)
- Install the new Skyjacker steering stabilizer bracket to the frame using the OEM hardware & a 13mm socket / wrench. (See Photo # 15)
- 37. <u>4" Lift:</u> Install the OEM steering stabilizer to the new Skyjacker frame bracket & OEM drag link using the OEM stud hardware, supplied 12mm x 60mm bolt, washers, nut, a 18mm, & 19mm socket / wrench. (See Photo # 15) <u>Note:</u> The OEM steering stabilizer will mount to the bottom side of the new steering stabilizer bracket mounting surface for a 4" lift.
- <u>6" Lift:</u> Remove the welded washer from the tapered stud of the OEM steering stabilizer using a grinder. (See Arrow In Photo # 16)
- 39. <u>6" Lift:</u> Remove the OEM tapered stud & bushing from the OEM steering stabilizer using an arbor press. (See Photo # 16)
- 40. <u>6" Lift:</u> Install the new Skyjacker bushing & sleeve into the eyelet of the OEM steering stabilizer using an arbor press.
- 41. <u>6" Lift:</u> 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)











- 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 top side of the new steering stabilizer bracket mounting surface for a 6" lift.
- 43. 6" Lift: 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 Photo # 18 # 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)







- 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. <u>6" Lift:</u> 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.
- 11. <u>6" Lift:</u> 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.
- Remove the OEM u-bolts using a 24mm socket / wrench. <u>Note:</u> The rear differential will now be free to move, support securely using a floor jack.

Rear Block Installation:

- 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) <u>Note:</u> The new rear blocks will be installed below the OEM rear blocks.
- Raise the rear differential to the rear leaf springs. <u>Note:</u> Be sure the rear leaf spring center tie bolts & block pins align in the proper holes & are completely seated. (Proceed to Step # 19)

Rear Leaf Spring Installation:

16. Remove the OEM rear springs & install the new Skyjacker rear leaf springs on top of the OEM blocks. Place the new Skyjacker spring plates on top of each new leaf spring. (See Photo # 23) <u>Note:</u> It

may be necessary to relocate the OEM rear exhaust hanger bracket for exhaust / leaf spring clearance. (See Steps # 17 & # 18)

- 17. Disconnect the OEM rear exhaust hanger bracket from the frame using a 10mm socket / wrench.
- 18. Lower the OEM rear exhaust hanger bracket to the lower frame mounting location & atttach using a 10mm socket / wrench. (See Photo # 24)
- 19. Install the new Skyjacker u-bolts using the supplied 5/8" fine thread nuts & a 15/16" socket / wrench.









- 20. Install the new Skyjacker rear shocks using the OEM hardware, supplied hardware, a 18mm, & 21mm socket / wrench.
- 21. Install the rear tires / wheels using a 21mm socket & lower the rear of the vehicle to the ground.
- 22. <u>Bleeding The Front & Rear Brake Systems:</u> 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.

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