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REQUIRED TOOL LIST:

- * Safety Glasses
- * Drill & Assorted Drill Bits
- * Metric & Standard Wrenches & Sockets
- * Floor Jack
- * Jack Stands
- * Measuring Tape
- * Pitman Arm Puller
- * Torque Wrench

**2011 - 2016 Ford F250 / F350
Super Duty
4" & 6" Suspension Lift
Installation Instructions**



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:

- This lift is designed for models with 1 7/8" OEM rear blocks.
- Models equipped with a rear sway bar must order extended rear sway bar end links.
4" Lifts Order Part# SBE404
6" Lifts Order Part# SBE405
- 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 #: F11451 / F11451S / F11651 / F11651S

ITEM#	DESCRIPTION	QTY
7011-B	STEERING STABILIZER BRACKET	1
TB1146-B	TRACK BAR DROP BRACKET	1
RAB546-S	RADIUS ARM DROP BRACKET	2
BSS275-B	BUMP STOP SPACER, 2.75" TALL (Included With F11451 & F11451S Boxes)	2
BSS45-S	BUMP STOP SPACER, 4.5" TALL (Included With F11651 & F11651S Boxes)	2
CBL3401-S	CARRIER BEARING LOWERING BRACKET, 4" (Included With F11451 & F11451S Boxes)	1
CBL206-B	CARRIER BEARING LOWERING BRACKET, 6" (Included With F11651 & F11651S Boxes)	1
DSS112-1	REAR DRIVE SHAFT SPACER (Included With F11651S Box)	1
F11BE-D	FRONT BRAKE LINE EXT BRKT, DRIVER	1
F11BE-P	FRONT BRAKE LINE EXT BRKT, PASSENGER	1
RB35	3.5" REAR LIFT BLOCK (Included With F11451 Box)	2
RB55	5.5" REAR LIFT BLOCK (Included With F11651 Box)	2
RBL11S	REAR BRAKE LINE (Included With F11651 & F11651S Boxes)	2
SBL20-L	2.5" SWAY BAR LOWERING BRKT, LEFT (Included With F11451 & F11451S Boxes)	1
SBL20-R	2.5" SWAY BAR LOWERING BRKT, RIGHT (Included With F11451 & F11451S Boxes)	1
SBL40-L	4" SWAY BAR LOWERING BRKT, LEFT (Included With F11651 & F11651S Boxes)	1
SBL40-R	4" SWAY BAR LOWERING BRKT, RIGHT (Included With F11651 & F11651S Boxes)	1
SP348-B	REAR SPRING PLATE (Included With F11451S & F11651S Boxes)	2
VT53229	VACUUM TUBING, 5/32"X29" (Included With F11651 & F11651S Boxes)	2
58X325X1212U	5/8 X 3 1/4 X 12 1/2 U-BOLT (Included With F11451S & F11651S Boxes)	4
58X325X16SPU	5/8 X 3 1/4 X 16 U-BOLT (Included With F11451 Box)	4
58X325X18SPU	5/8 X 3 1/4 X 18 U-BOLT (Included With F11651 Box)	4
HB-17250TBS	HDWR BAG:TRACK BAR, SWAY BAR	1
HB-17451BSS	HDWR BAG: F11451 BUMP STOP SPACERS (Included With F11451 & F11451S Boxes)	1

ITEM#	DESCRIPTION	QTY
HB-17651BSS	HDWR BAG: F11651 BUMP STOP SPACERS (Included With F11651 & F11651S Boxes)	1
HB-DSS112	HDWR BAG: REAR DRIVE SHAFT SPACER (Included With F11651S Box)	1
HB-RABF1146	HDWR BAG: RADIUS ARM DROP BRACKETS, 4" (Included With F11451 & F11451S Boxes)	1
HB-RABF1165	HDWR BAG: RADIUS ARM DROP BRACKETS, 6" (Included With F11651 & F11651S Boxes)	1
I-F1145/65	INST SHT: F11451, F11451S, F11651, F11651S	1

Hardware Breakdown:
PART #: HB-17250TBS

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

PART #: HB-17451BSS (Included With F11451 & F11451S Boxes)

ITEM#	DESCRIPTION	QTY
8X90MMB	8MM X 90MM METRIC BOLT	2
516SAEW	5/16 SAE WASHER	2
12X60MMB	12MM X 60MM METRIC BOLT	1
12MMN	12 MM METRIC NUT	1
12SAEW	1/2 SAE WASHER	2
LT100	NUTS N' BOLTS 427 1 ML TUBE	1

PART #: HB-17651BSS (Included With F11651 & F11651S Boxes)

ITEM#	DESCRIPTION	QTY
8X140MMB	8MM X 140MM METRIC BOLT	2
516SAEW	5/16 SAE WASHER	2
LT100	NUTS N' BOLTS 427 1 ML TUBE	1

PART #: HB-DSS112 (Included With F11651S Box)

ITEM#	DESCRIPTION	QTY
12X65SHB	12MM X 65MM METRIC SOCKET HEAD BOLT	4
LT100	NUTS N' BOLTS 427 1 ML TUBE	1

PART #: HB-RABF1146 (Included With F11451 & F11451S Boxes)

ITEM#	DESCRIPTION	QTY
ABS55-S	ABS RELOCATION BRACKET	2
14X1FTB	1/4 X 1 FINE THREAD BOLT	2
14FTN	1/4" FINE THREAD LOCKNUT	2
14SAEW	1/4 SAE WASHER	4
516X34TCFB	5/16 X 3/4 THD CUT FLG BOLT	2
716X2CTB	7/16 X 2 COARSE BLT, GRADE 8	2
716SAEW	7/16 SAE WASHER	2
58FSFTN	5/8-18 FLANGE STOVER NUT	8
34X2CTB	3/4 X 2 COARSE THREAD BOLT	8
34CTN	3/4" COARSE THREAD LOCKNUT	8
34SAEW	3/4 SAE WASHER	16

PART #: HB-RABF1165 (Included With F11651 & F11651S Boxes)

ITEM#	DESCRIPTION	QTY
ABS55-S	ABS RELOCATION BRACKET	2
12X60MMB	12MM X 60MM METRIC BOLT	1
12MMN	12MM METRIC LOCKNUT	1
14X1FTB	1/4 X 1 FINE THREAD BOLT	2
14FTN	1/4" FINE THREAD LOCKNUT	2
14SAEW	1/4 SAE WASHER	4
516X34TCFB	5/16 X 3/4 THD CUT FLG BOLT	2
716X314CTB	7/16 X 3 1/4 COARSE BLT, GRADE 8	2
716SAEW	7/16 SAE WASHER	2
58FSFTN	5/8-18 FLANGE STOVER NUT	8
34X2CTB	3/4 X 2 COARSE THREAD BOLT	8
34CTN	3/4" COARSE THREAD LOCKNUT	8
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. Raise the front of the vehicle & support securely using jack stands.
2. While supporting the front differential with a floor jack, remove the front tires / wheels.
3. Disconnect the OEM front sway bar from the frame & install the new Skyjacker sway bar lowering brackets using the supplied 7/16" x 1 1/2" fine thread bolts, washers, nuts, & OEM hardware. (See Photo # 1)
4. Remove the OEM retaining clips from the OEM upper brake line brackets & remove the OEM brackets from the frame. Disconnect the OEM 4WD actuator lines from the upper frame.
5. Disconnect the OEM steering stabilizer from the OEM frame bracket & remove the OEM bracket from the frame. Disconnect the OEM drag link from the OEM pitman arm & disconnect the OEM track bar from the OEM track bar bracket. (See Photo # 2)
6. Remove the OEM front shocks & lower the front differential so the OEM coil springs can be removed. (See Photo # 3) **Note:** Be sure to retain the OEM upper rubber isolator pads, they will be used with the new Skyjacker coil springs.
7. Disconnect the OEM radius arms from the OEM frame brackets. **Note:** Remove one side at a time so the front differential does not move.
8. 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. (See Photo # 4) **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.
9. Connect each OEM radius arm to the new Skyjacker radius arm brackets using the OEM hardware. (See Photo # 4) **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.



Photo # 1



Photo # 2



Photo # 3



Photo # 4

10. Remove the OEM track bar bracket from the frame & front cross member. Remove the OEM pitman arm from the OEM steering sector shaft using a 1 13/16" socket & pitman arm puller. (See Photo # 5)



11. Before installing the new Skyjacker pitman arm, it is **EXREMELY 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.

12. Apply a heavy bead of the supplied thread locking compound all the way around the entire threads of the OEM pitman arm nut. (See Photo # 6) Once the thread locking compound has been applied, install the new Skyjacker pitman arm & OEM pitman arm nut using a 1 13/16" socket. **Torque the OEM pitman arm nut to 350 Ft. Lbs!**



13. 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. **Note:** Be sure to use the supplied .938" long anti-crush spacers between the front of the new track bar bracket & the OEM cross member. **Note:** Do not tighten at this time. (See Photo # 7)



14. Install the new Skyjacker track bar bracket to the frame using the OEM hardware. **Note:** Tighten the new track bar bracket hardware at this time.

15. Remove the OEM bump stops & bump stop cups from the frame.

16. 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 # 8)



17. 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. (See Photo # 9)



18. Install the OEM bump stops into each OEM bump stop cup. (See Photo # 9)

19. Disconnect the OEM ABS lines from the OEM radius arms. Attach the OEM ABS brackets by removing the snap tab from the rear of the OEM plastic brackets & drill a 1/4" hole thru the OEM bracket. Attach the new Skyjacker ABS extension brackets to the OEM radius arms using the supplied 5/16" x 3/4" self tapping bolts & the OEM plastic brackets using the supplied 1/4" x 1" fine thread bolts, washers, & nuts. (See Photo # 10)



20. Install the new Skyjacker coil springs. (See Photo # 11) **Note:** Be sure to reuse the OEM rubber isolator pads on top of the new coil springs.



21. Bolt the OEM track bar to the new Skyjacker track bar bracket using the OEM hardware. **Note:** The new track bar bracket will have two mounting holes for the track bar. 4" Kits will use the upper mounting hole & 6" kits will use the lower mounting hole.

22. **4" Lifts:** Reconnect the OEM 4WD actuator lines. **6" Lifts:** Using the supplied vacuum line extensions & plastic ties, reconnect the OEM 4WD actuator lines. (See Photo # 12)



23. While holding the OEM rubber brake line in place, loosen the OEM hard brake line & rotate the rubber brake line 180 degrees & tighten. (See Photo # 13)

24. Attach the new Skyjacker front brake line extension brackets, using the OEM hardware. Secure the OEM brake lines to the new brackets by inserting the OEM brake line clip thru the groove in the OEM brake line fitting. (See Photo # 14)



25. Attach the drag link to the new Skyjacker pitman arm. With the drag link installed, check to assure that there is adequate clearance between the drag link tie rod & the track bar bolt head at full left turn. If there is any contact, we recommend for the OEM track bar bolt to be replaced with a 20mm x 90mm (3.5") bolt grade 10.9 (grade 8), & use a 3/4" SAE flat washer between the bolt head & the new bracket. This will provide some additional clearance if needed. (See Photo # 15)



26. Attach the new Skyjacker steering stabilizer bracket to the frame by aligning the lower mounting hole of the new steering stabilizer bracket with the lower OEM stud on the frame & tighten using the OEM hardware. Attach the OEM stabilizer to the new steering stabilizer bracket using the supplied 12mm x 60mm bolt, washers, & nut. (See Photo # 16)
27. Install the new Skyjacker front shocks using the OEM hardware & supplied hardware.
28. Install the front tires / wheels & 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 with jack stands.
2. Remove the rear tires / wheels, OEM rear shocks, & OEM U-bolts. **CAUTION:** The rear differential will now be free to move, so support securely with a floor jack.
3. **6" Lifts:** Disconnect the OEM rear brake lines & attach the new Skyjacker brake line extensions to the OEM brake lines. Attach the new Skyjacker brake line extensions to the OEM bracket using the OEM hardware & supplied plastic ties. (See Photo # 17)



Rear Leaf Spring Installation:

4. Remove the OEM rear springs & install the new Skyjacker rear leaf springs on top of the OEM blocks with the thick end of the bottom degree shim towards the rear bumper. Place the new Skyjacker spring plates on top of each new leaf spring. (See Photo # 18)



4" Lifts: Proceed to Step # 8.

5. **6" Lifts:** Install the new Skyjacker rear driveshaft spacer using the supplied 12mm x 65 mm socket head bolts. **Note:** Apply the supplied thread locking compound to the threads of each socket head bolt before installation. (See Photo # 19) Proceed to Step # 8.



Rear Block Installation:

6. Install the new Skyjacker rear lift blocks with the taller end toward the rear bumper, between the rear differential & the OEM block

Note: The new rear lift blocks will be installed below the OEM blocks. (See Photo # 20)



Photo # 20

7. Raise the rear differential up 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. Install & tighten the new Skyjacker U-bolts.

8. Install the new Skyjacker rear shocks using the OEM hardware & supplied hardware.

9. Install the rear tires / wheels & lower the rear of the vehicle to the ground.



Photo # 21

10. On models equipped with an OEM carrier bearing on the rear driveshaft, it will be necessary to install the new Skyjacker carrier bearing lowering bracket to help eliminate any driveline vibration. Install using the supplied 7/16" bolts & washers. The new carrier bearing lowering bracket will mount between the OEM carrier bearing & the mount on the frame. (See Photo # 21)

4 & 6" Lifts: BLEEDING THE BRAKE SYSTEM

11. 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 & after every off-road activity.

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 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.