



# 2017 Ford F250 / F350 Super Duty 4" Suspension Lift Installation Instructions

## REQUIRED TOOL LIST:

- Safety Glasses
- Metric / Standard Sockets & Wrenches
- T30 Torx
- Drill / 7/16" Drill Bit
- Pliers
- Center Punch
- Hammer
- Tubing Bender
- 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 #: F1740SPB / F1740SPB3

Item #	Description	Qty	Item #	Description	Qty
7011-B	STEER STABILIZER BRACKET	1	H-BOX F1743SP	HDWR BOX: F1740SPB3 BOX	1
F54MS-S	FRONT COIL SPRING SPACER	2		<b>(Included With F1740SPB3)</b>	
RAB546-S	RADIUS ARM BRACKET	2	B8592	BLACK MAX SHOCK	2
TB1740-B	4" TRACK BAR BRACKET	1	B8568	BLACK MAX SHOCK	2
H-BOX F1740SP	HDWR BOX: F1740SPB BOX	1			
	<b>(Included With F1740SPB)</b>				

## Hardware Box Breakdown:

### Part # H-BOX F1740SP / H-BOX F1743SP

Item #	Description	Qty	Item #	Description	Qty
BSS275-B	2.75" BUMP STOP SPACER	2	HB-17250TBS	HDWR BG: SWAY, TRACK BAR	1
F174BE-D	4" DRIVER BRAKE LINE BRACKET	1	HB-17451BSS	HDWR BG: 2.75" BUMP STOP	1
F174BE-P	4" PASS BRAKE LINE BRACKET	1	HB-58	HDWR BG: 5/8 LOCK NUT	1
RB20	2" REAR LIFT BLOCK	2	HB-F17ABS	HDWR BAG: ABS BRACKET	1
SBL20-L	2.5" DRIV SWAY BAR LWG BRKT	1	HB-F54MS	HDWR BAG: COIL SPACERS	1
SBL20-R	2.5" PASS SWAY BAR LWG BRKT	1	HB-RAB545	HDWR BG: RADIUS ARM	1
58X325X16SPU	5/8 X 3 1/4 X 16 U-BOLT	4	I-F1740SP	INST SHEET: F1740SP	1
	<b>(Included With H-BOX F1740SP)</b>				
58X325X18SPU	5/8 X 3 1/4 X 18 U-BOLT	4			
	<b>(Included With H-BOX F1743SP)</b>				

### 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-17451BSS

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

### Part # HB-58

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

### Part # HB-F17ABS

Item #	Description	Qty	Item #	Description	Qty
F17ABS-B	ABS MODULE BRACKET	1	516SAEW	5/16 SAE WASHER	2
516X1FTB	5/16 X 1 FINE THREAD BOLT	1	516FTN	5/16 FINE THREAD LOCK NUT	1

## Part # HB-F54MS

Item #	Description	Qty
716X112FTB	7/16 X 1 1/2 FINE THRD BOLT	6
716FTN	7/16-20 FINE N/I LOCK NUT	6

Item #	Description	Qty
716SAEW	7/16 SAE WASHER	12

## Part # HB-RAB545

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

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. Remove the OEM fender liners using a T30 torx & 5.5mm socket / wrench.
5. Disconnect the OEM ABS module from the driver's side coil spring tower using a 13mm socket / wrench.
6. Install the new Skyjacker ABS module bracket vertically to the driver's side coil spring tower using the supplied 5/16" x 1" fine thread bolt, washers, nut, & a 1/2" socket / wrench. (See Photo # 1)
7. Connect the OEM ABS module to the new Skyjacker ABS module bracket using the OEM hardware & a 13mm socket / wrench. (See Photo # 1)
8. 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 # 2)
9. Connect the OEM front 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 # 2)
10. Disconnect the OEM front sway bar end links from the OEM sway bar using a 18mm socket / wrench.
11. 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 # 3)



Photo # 1



Photo # 2



Photo # 3

12. Disconnect the OEM 4WD actuator lines from the upper frame.
13. Remove the OEM steering stabilizer from the OEM frame bracket & OEM drag link using a 15mm & 18mm socket / wrench.
14. Remove the OEM steering stabilizer bracket from the frame using a 13mm socket / wrench.
15. Disconnect the OEM drag link from the OEM pitman arm using a 24mm socket / wrench.
16. Disconnect the OEM track bar from the OEM track bar bracket using a 1 3/16" & 1 1/4" socket / wrench. (See Photo # 4)
17. Remove the OEM front shocks using a 18mm & 21mm socket / wrench.
18. Lower the front differential & remove the OEM front coil springs. (See Photo # 5) **Note:** Retain the OEM upper rubber isolator pads, they will be used when the OEM front coil springs are re-installed.
19. With the flat portion of the supplied template facing outward, mark, center punch, & drill the three mounting holes of each OEM front coil spring tower using a 7/16" drill bit. (See Page # 9 & Photo # 6)
20. Install the new Skyjacker front coil spring spacers using the supplied 7/16" x 1 1/2" fine thread bolts, washers, nuts, & a 5/8" socket / wrench. (See Photo # 7)
21. 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.
22. 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 # 8) **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.
23. Connect each OEM radius arm to the new Skyjacker radius arm brackets using the OEM hardware, a 24mm, & 28mm socket / wrench. (See Photo # 8) **Note:** Install in the "upper" mounting location for a 4" lift, "one side at a time" so the front differential does not move.



24. Remove the OEM track bar bracket from the frame & front cross member using a 18mm socket / wrench.
25. 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 # 9)
26. Complete the installation of the new Skyjacker track bar bracket to the frame using the OEM hardware, & a 18mm socket / wrench. (See Photo # 10) **Note:** Tighten the new track bar bracket hardware at this time using a 18mm, 13/16", & 7/8" socket / wrench.
27. Remove the OEM bump stops & bump stop cups from the frame using a 10mm socket / wrench.
28. 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 # 11)
29. Install the new Skyjacker bump stop spacers & OEM bump stop cups to the frame using the supplied 8mm x 90mm bolts, washers, thread locking compound, & a 13mm socket / wrench. (See Photo # 12)
30. Install the OEM bump stops into each OEM bump stop cup. (See Photo # 12)
31. Install the OEM front coil springs. (See Photo # 13) **Note:** Be sure to reuse the OEM rubber isolator pads on top of each OEM front coil spring.
32. 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 .
33. Reconnect the OEM 4WD actuator lines.
34. Install the new Skyjacker brake line brackets to the frame using the OEM hardware & a 13mm socket / wrench.
35. Disconnect the OEM front flex brake lines from the OEM front hard brake lines using a 13mm & 16mm wrench.



36. Rotate each OEM front flex brake line 180 degrees & secure to the Skyjacker brake line brackets using the OEM brake line retaining clips thru the groove in each OEM brake line fitting. (See Photo # 14)

37. 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 # 14) **Note:** Be extremely careful not to crimp or damage the OEM front hard brake lines while straightening.



38. Attach the OEM drag link to the OEM pitman arm using the OEM hardware & a 24mm socket / wrench.

39. Install the new Skyjacker steering stabilizer bracket to the frame using the OEM hardware & a 13mm socket / wrench. (See Photo # 15)



40. 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)

41. Install the new Skyjacker front shocks using the OEM hardware, supplied hardware, a 18mm, & 19mm socket / wrench.

42. Connect the OEM front sway bar end links to the OEM front sway bar using the OEM hardware & a 18mm socket / wrench.

43. Install the OEM fender liners using a T30 torx & 5.5mm socket / wrench.

44. 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. Remove the OEM rear shocks using a 18mm & 21mm socket / wrench.
4. 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.
5. 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. **Note:** The new rear blocks will be installed below the OEM rear blocks.

6. 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.
7. Install the new Skyjacker u-bolts using the supplied 5/8" fine thread nuts & a 15/16" socket / wrench.
8. Install the new Skyjacker rear shocks using the OEM hardware, supplied hardware, a 18mm, & 21mm socket / wrench.
9. Install the rear tires / wheels using a 21mm socket & lower the rear of the vehicle to the ground.
10. **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.

**TORQUE SPECIFICATIONS**

<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.**



