2007-2009 Toyota Tundra 4WD 6” Suspension Lift Installation Instructions

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REQUIRED TOOL LIST:

*** Metric / Standard wrenches and sockets**
*** Allen Wrenches**
*** Assorted Drill Bits**
*** Floor Jack**
*** Jack Stands**
*** Measuring Tape**
*** Torque Wrench**
*** Reciprocating Saw**
*** Grinder**
*** Welding Machine**

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 lift kit, call 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:

- **OEM wheels can not be reused in the installation of this suspension lift. 17" diameter or larger wheels must be used to install this suspension lift.**
- **This lift is determined from the amount of lift to the front of the vehicle, while only lifting the rear to a position level with the front.**
- **If larger tires (10% more than the stock diameter) are installed, speedometer recalibration will be necessary. Contact your local Toyota dealer or an authorized dealer for details.**
- **After installation a qualified alignment facility is required to align the vehicle to factory specifications**.

Kit Box Breakdown:

TU761A:

ITEM#	DESCRIPTION	QTY
TU756STS	07-08 Tundra 5-6” Performance Strut	2
TU76L	07-08 Tundra Driver Knuckle	1
TU76R	07-08 Tundra Pass Knuckle	1
TU76FCM-B	Tundra 6” Frt Crossmember	1
TU76RCM-B	Tundra 6” Rear Crossmember	1
TU76BSB-D	Tundra 6” Driver Bump Stop Bracket	1
TU76BSB-P	Tundra 6” Pass Bump Stop Bracket	1
TU76SBL	Sway Bar Endlinks (pr.)	1
TUCBL214-B	2.25” Carrier Bearing Lowering Spacers	2
SBL20	Sway Bar Lowering Brackets (pr)	1
FBL07T	Frt Stainless Brk Lines (pr)	1
RBL07T	Rear Stainless Brk Lines (pr)	1
HB-TU76BL/CBL	Brakeline/Carrier Bearing Hardware Bag	1
HB-TU76-BS/DB	Bump Stop/Differential Hardware Bag	1
HB-TU76C	Rear X-member Caps (pr)	1
HB-TU76-CM	Frt & Rear X-member Hardware Bag	1
HB-TU76SSE	Steering Stop Extensions (pr)	1

Hardware Bag Breakdown:

HB-TU76BL/CBL Brakeline/Carrier Bearing

ITEM#	DESCRIPTION	QTY
10x80MMB-1.25	10MM x 80MM- 1.25 TPI bolt	2
38USSW	3/8” USS Washer	2
DVL10	Brake Line Relocation Bracket	1
516x1FTB	5/16” x 1” Fine Thread Bolt	1
516FTN	5/16” Fine Thread Locknut	1
516SAEW	5/16” SAE Washer	2

HB-TU76-BS/DB Bump Stop/Differential

ITEM#	DESCRIPTION	QTY
10x25MMB-1.25	10MM x 25MM - 1.25 TPI bolt	4
10MMN-1.25	10MM - 1.25 TPI locknut	4
38SAEW	3/8” SAE Washer	8
916x6FTB	9/16” x 6” Fine Thread Bolt	2
916x212FTB	9/16” x 2 1/2” Fine Thread Bolt	1
916FTN	9/16”- 18 Locknut	3
12USSW	1/2” USS Washer	2
916SAEW	9/16” SAE Washer	4

HB-TU76C Crossmember Caps

ITEM#	DESCRIPTION	QTY
TU76C-DS	Driver X-member cap	1
TU76C-PS	Pass X-member cap	1

HB-TU76SSE Steering Stops

ITEM#	DESCRIPTION	QTY
TU76SSE-D	Driver Steering Stop Plate	1
TU76SSE-P	Pass Steering Stop Plate	1

HB-TU76-CM	Crossmember	
ITEM#	**DESCRIPTION**	**QTY**
18x50MMB	18MM x 50MM- 2.5” TPI bolt	4
18MMFW	5/8” - A325 Flat Washer	8
18MMN	18MM-2.5 TPI locknut	4
24x50MMB	24MM x 50MM- 3.0 TPI bolt	4
24MMFW	24MM Flat Zinc Washer	8
24MMN	24MM- 3.0 TPI locknut	4

Kit Box Breakdown:

TU761PR:

ITEM#	DESCRIPTION	QTY
916x212x12U	9/16” x 2 1/2” x 12” Square U-bolt	4
HB-916	8- 9/16” locknuts	1
RBF425	4.25” Flat Block	2

TU761PRS:

ITEM#	DESCRIPTION	QTY
916x212x734U	9/16” x 2 1/2” x 7 3/4” Square U-bolt	4
HB-916	8- 9/16” locknuts	1

FRONT DISASSEMBLY:

1.With vehicle on flat level ground set the emergency brake and block the rear tires. Place floor jack under the lower control arm's front cross member and raise vehicle. Place jack stands under frame rails, behind the front wheel wells and lower the frame onto the stands. **Note:** If vehicle is equipped with skid plate, remove it at this time. This is in preparation for step #8.
2. Remove front tires . (See Photo #1).
3. Remove the tie rod end nut from knuckle. Remove the tie rod end from the knuckle by using a tie rod puller. (See Photo #2).
4. Disconnect caliper from rotor, disconnect brake line from upper A-Arm. (See Photo #3). Simply wire the caliper out of the way, it will not be necessary to disconnect the brake line from the caliper.
5. Disconnect sway bar end links, then remove sway bar. (See Photo #4). Disconnect 3 upper strut retaining nuts using 18mm socket. (See Photo #5).
6. Disconnect upper A-Arms from the knuckles. It may be necessary to strike the side of the knuckle with dead blow hammer to dislodge the upper ball joint. Be careful not to damage the ball joint itself. (See Photo #6)


Photo #1


Photo #2


Photo #3


Photo #4


Photo #5


Photo #6

7. Disconnect CV shafts. (See Photo #7).
8. Disconnect Lower A-Arm. Be careful to place jack under A-arm for support. Disconnect lower strut mount at this time & remove.
9. Support Front Differential at this time with transmission jack if able. (See Photo #8).
10. Remove differential mounting bolts. (See Photo #9) Remove differential brackets at this time.
11. It will be necessary to cut the rear cross member out with a reciprocating saw. The driver side will need to be cut for front driveshaft clearance. The measurement is 3 3/8" from the inside of frame rail. (See Photo #10).
12. It will be necessary to cut the passenger side crossmember 2 1/2" from lower A-arm mount. (See Photo #11) Note: It will be necessary to grind down this area after cutting for the caps to be welded in place. (See Photos #12-1 & #12-2)
13. The factory alignment cam brackets (alignment ears) will need to be ground down for the installation of the new Skyjacker Suspension crossmembers. This will have to be done on the front side of both front & rear lower A-arm mounts.(Photo #13)


Photo #7


Photo #8


Photo #9

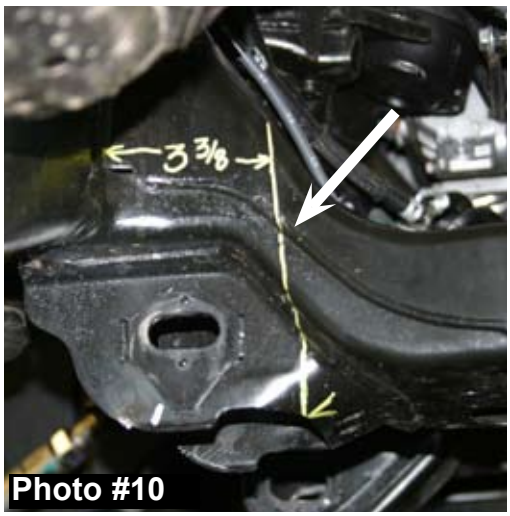

Photo #10

Photo #11


Photo #12-1


Photo #12-2


Photo #13

14. Install new front crossmember using the 24MM bolts, washers, and nuts. Do not tighten hardware completely at this time. The crossmember should be installed with the bolt flanges on the front side of the OEM crossmember flanges. (See Photo #14-1) (HB-TU76-CM)
15. Install rear cross member using the 18MM bolts, washers, and nuts. Do not tighten hardware completely at this time. The crossmember should be installed with the bolt flanges on the front side of the OEM crossmember flanges. (See Photo #14-2) (HB-TU76-CM)
16. Raise and safely support the front differential into place using the supplied 9/16 x 6" bolts. Loosely bolt the differential to the front crossmember. (See Photo #15-1) Now attach the differential pinion support bracket, under the pinion, to the rear crossmember using the factory hardware and the supplied 9/16 x 2/12" bolt, washers, and nut.
(See Photo #15-2 & Photo #15-3) (HB-TU76-BS/DB)
17. Remove the hub bearing assembly from the factory knuckle. Reinstall using the OEM bolts on the Skyjacker Knuckles.Make sure OE seal is reinstalled square into the new Skyjacker Knuckle. (See Photo #16).

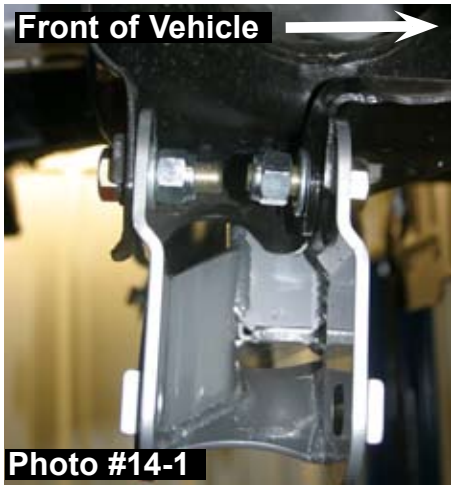

Photo #14-1

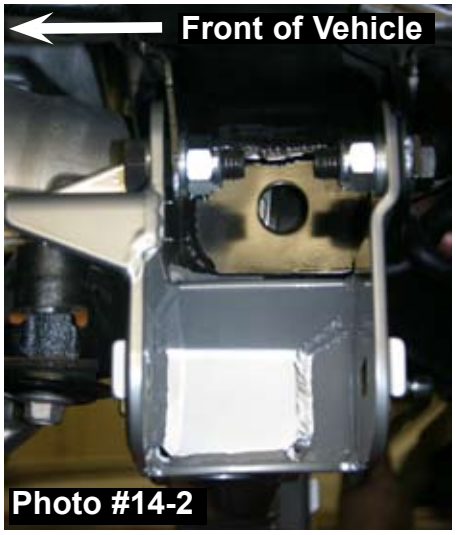

Photo #14-2


Photo #15-1


Photo #15-2


Photo #15-3


Photo #16

18. Disassemble the factory Strut assembly using a Strut Compressor. (See Photo #17)
19. Install factory coil & top assembly to Skyjacker strut. **Note**: There are 3 Snap ring grooves located on the Skyjacker Strut Body. The ring is installed in the middle groove when shipped. This will yield 6" of lift. The Upper groove is only to be used when 6" of lift is desired, but aftermarket accessories have been added that weigh the front end down, ie. Winch, After Market Bumper, etc. The lower ring can be used if you would like to keep the factory rake. (Front of vehicle lower than the rear). **Note**: Skyjacker provides a new upper strut retaining nut for our replacement strut. (See Photo #18) Install the new Skyjacker strut using the factory upper hardware. (See Photo #19)
20. Install new bump stop relocation brackets using the supplied bolts(10MM x 25MMB) (HB-TU76-BS/DB). (See Photo #20-1) Attach factory bumps to brackets with supplied nuts. (10MMN) (See Photo #20-2) (HB-TU76-BS/DB) **Note**: The bump stop brackets are side specific.


Photo #17


Photo #18


Photo #19


Photo #20-1


Photo #20-2

21. Re-install Lower A-arms to both driver & passenger. Re-install lower strut mount to lower A-arm. Install CV shafts at this time. (See Photo #21) Attach Skyjacker Steering Knuckle to upper and lower A-Arm (torque lower to 220lbs)using factory hardware.
22. Attach factory ABS line to upper A-arm.
23. Relocate the ABS line to the Skyjacker knuckle. Attach CV axle to Skyjacker knuckle at this time. (See Photo #22). Install new Skyjacker Brake Lines using the supplied instruction sheet.
24. To install tie rod end to the New Knuckle the tie rods will need to be swapped from driver to passenger & passenger to driver side. Attach outer tie rod to Steering Knuckles using factory hardware. Reinstall brake rotors, calipers, etc.
25. Reinstall factory sway bar using the new Skyjacker Drop brackets. Brackets will install between the sway bar and the factory mount on the frame using the factory hardware. The sway bar will be attached to the bracket with 7/16 x1 1/2" bolts, nuts, and washers. **Note**: The brackets should offset the sway bar towards the front of the vehicle. (See Photo #23) Install new Skyjacker sway Bar End Links. Be sure to install the end link with the pivoting end at the sway bar. **Note**: Sway bar end links are side specific. (See Photo #24).
26. Weld in place the supplied steering stop spacers at this time. Match the contour of the OEM steering stops. Weld in place by placing a weld across the top and bottom of the supplied spacers. (HB-TU76SSE) Note: Steering stop spacers are side specific. Match the contour of the OEM steering stops. (See Photo #25).


Photo #21

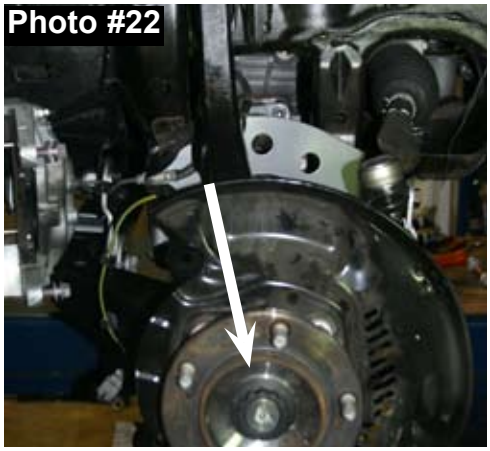
Photo #22


Photo #23


Photo #24


Photo #25

TU761PR / PRS:

27. Raise rear end and properly support using jack stands. Disconnect driver differential bracket (Photo #26). Disconnect rear shocks and U-Bolts.
28. If installing block kit - Install 4.25" rear blocks along with new U-Bolts (Photo #27). Install new shocks with boot up towards body.
29. If installing rear springs - Install new Skyjacker Suspensions Softride rear leaf springs with factory spring eye hardware. (Photo #28) Install new u-bolts & nuts. Install new shocks with boot up towards body.
30. Install new ABS relocation bracket on passenger side of differential. (Photo #29) Install new replacement rear stainless steel brakelines with supplied instructions. Lower vehicle to the ground.

Note: Vehicles equipped with a carrier bearing will need to install carrier bearing lowering kit supplied. (Photo #30)


Photo #26


Photo #27


Photo #28


Photo #29


Photo #30

FINAL NOTES:

• After installation is complete, double check that all nuts and bolts are tight. Refer to the following chart again for torque specifications. (Do not retighten nuts and bolts where Loctite was used.)

• If new tires are installed that are more than 10% taller than original tires, the speedometer must be recalibrated for the rear wheel anti-lock brake system to function properly. Contact an authorized Toyota dealer for details on recalibration.

• With the vehicle on the floor, cycle steering lock to lock and inspect steering, suspension and driveline systems for proper operation, tightness and adequate clearance. Recheck brake hose/ fittings for leaks. Be sure all hoses, including the rear, are long enough.

• Have headlights readjusted to proper settings.

• Have a qualified alignment center realign front end to factory specifications. Be sure vehicle is at desired ride height prior to realignment.

• Retorque all bolts after the first 100 miles.

Seat Belts Save Lives, Please Wear Your Seat Belt.

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	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 bolt is being installed with a bushing.**

TU761PKS