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## 1997-2006 Jeep TJ Wrangler Rock Ready® 4" Dual Rate Long Travel Coils Long Arm Lift Installation Instructions

### Required Tools List:

- SAE Hex Key & SAE Sockets \ Wrenches  
(5/16" & 5/32" Hex Key Socket & 9/16", 3/4"  
1-1/8" & 1-13/16")
- Metric Hex Key & Metric Sockets \ Wrenches  
(13mm, 15mm, 18mm, 21mm & 33mm)
- Star-Shaped T40 & T55 Torx Head Bit
- Reciprocating Saw or Similar Cutting Tool
- Pipe Wrench
- Power Drill
- Power Grinder
- Hammer
- C-Clamp
- Wheel Chock
- Jack Stands
- Paint Marker
- Pitman Arm Puller Tool
- Drill Bit (3/8" & 1/2")
- Channel Lock Pliers
- Center Punch
- Safety Glasses
- Floor Jack
- Measuring Tape
- Torque Wrench



Before beginning installation, read these instructions & enclosed driver's WARNING NOTICE thoroughly & completely. Also affix WARNING decal in passenger compartment in clear view of all occupants. Please refer to Parts List to insure that all parts & hardware are received prior to disassembly of vehicle. If any parts are found to be missing, contact SKYJACKER® Customer Service at 318-388-0816 to obtain 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 vehicle on a level concrete or asphalt surface. Many times a vehicle is not level (side-to-side) from factory, but is usually not noticed until a lift kit has been installed which makes difference more visible. Using a measuring tape, measure front & rear (both sides) from ground up to center of fender opening above axle. Record this information below for future reference.

Driver Side Front: \_\_\_\_\_ / \_\_\_\_\_  
BEFORE / AFTER

Passenger Side Front: \_\_\_\_\_ / \_\_\_\_\_  
BEFORE / AFTER

Driver Side Rear: \_\_\_\_\_ / \_\_\_\_\_  
BEFORE / AFTER

Passenger Side Rear: \_\_\_\_\_ / \_\_\_\_\_  
BEFORE / AFTER

### Important Notes:

- The Drag Link Must Be Adjusted to Center the Steering Wheel Before the Vehicle Is Driven. Failure to Do So Will Cause Computer Errors, Odd Handling Characteristics, & Poor Performance.
- If Larger Tires (10% More Than the OEM Diameter) Are Installed, Speedometer Recalibration Will Be Necessary. Contact Your Local JEEP Dealer or an Authorized Skyjacker® Dealer for Details.
- After Installation, a Qualified Alignment Facility Is Required to Align Vehicle to OEM Specs.
- 6-Speed Transmission Models May Require Additional Modifications. The Options Are Trimming of OEM Console or Bending of OEM Shifter.
- Exhaust Modifications May Be Necessary.
- Does Not Fit 2004-2006 LJ Unlimited Models.

**Component Box Breakdown:****Part # TJ40FDR**

Item #	Description	Qty
TJ40FS-DR	DUAL RATE COIL, FRONT - 4 INCH	2

**Part # TJ40RDR**

Item #	Description	Qty
TJ40RS-DR	DUAL RATE COIL, REAR - 4 INCH	2

**Part # TJ40XRR1**

Item #	Description	Qty
RRSP20	STEERING BOX SKID PLATE	1
SBE120	SWAY BAR DBL DISC LINK, FRT	1
SBE500	SWAY BAR END LINK, REAR	1
TBA10	ADJUSTABLE TRACK BAR, FRT	1
BP50S	BUMP STOP, TJ	2
JA750	PITMAN ARM TJ W/POWER STRG	1

**Part # TJ40RRX**

Item #	Description	Qty
TJ60DFB-B	SUB-FRAME BRACKET, DR	1
TJ60PFB-B	SUB-FRAME BRACKET, PA	1
JLL2501SX-ASY	LOWER FLEX LINK ARM, PAIR	4
TJRTB	TRACK BAR BRACKET, REAR	1
FBL44-RBL98	BRAKE LINE SET, FRT & RR	1
TJRSB10	SHOCK RELOC BRKT, REAR	1
JSRB231A	NP231 TRANSFER CASE SHIFTER	1
TJ403SP	SKID PLATE BRACKETS	1
HB-TJ40RRX	HDWR BAG: TJ40RRX	1
I-TJ40RRX1	INST SHEET: FOR TJ40RRX	1

**Component Breakdown:****Part # FBL44**

Item #	Description	Qty
FBL44S	BRAKE LINE, EXTENDED LENGTH	2
3CCW	COPPER CRUSH WASHER, 3/8"	4
BE15	BRAKE LINE EXTENSION	2
HC1	HOSE/HORSESHOE CLIP	2
BTIE	SHOCK BOOT TIE, RED	2
I-BL	INST SHEET: BRAKE LINES	1

**Part # RBL98**

Item #	Description	Qty
RBL98S	BRAKE LINE, EXTENDED LENGTH	1
BE15	BRAKE LINE EXTENSION	1
HC1	HOSE/HORSESHOE CLIP	1
I-BL	INST SHEET: BRAKE LINES	1

**Part # TJRTB**

Item #	Description	Qty
TJRTB-B	TRACK BAR RELOC BRACKET, RR	1
HB-TJRTB	HDWR BAG: TRAC BAR BRKT, RR	1

**Component Breakdown:****Part # RRSP20**

Item #	Description	Qty
RRSP20-S	STEERING BOX SKID PLATE	1
HB-SSP10	HDWR BAG: FOR SSP10	1

**Part # SBE120**

Item #	Description	Qty
SBE102-L	SWAY BAR END LINK TUBE	2
SBE-E2	SWAY BAR END LINK EYE	4
14X112SPIN	1/4 X 1-1/2 SNAPPER PIN	4
HB-SBENB01	HDWR BAG: FOR SBE226	1

**Part # SBE500**

Item #	Description	Qty
SBE500-L	SWAY BAR END LINK, REAR	2
HB-142118-4	HDWR BAG: 142118 SLEEVE - 4	1

**Part # TBA10**

Item #	Description	Qty
TBA10-B	TRACK BAR FOR 4 INCH	1
RE34X34R	ROD END, 3/4 RH THREAD	1
34RFTJN	3/4 RIGHT HAND JAM NUT	1
7400WS	STEERING DAMPER, WHITE	1
BTIE	SHOCK BOOT TIE, RED	1
B10RS	SHOCK BOOT, RED	1
HSS	HYDRO SHOCK DECAL	1
I-TBA10	INST SHEET: FOR FOR TBA10	1
HB-TBA60	HDWR BAG FOR TBA10/60/80	1

**Part # TJRSB10**

Item #	Description	Qty
JRSRB1-B	SHOCK BRACKET, REAR	2
HB-TJRSB10	HDWR BAG: TJRSB10	1
I-TJRSB10	INST SHEET: FOR TJRSB10	1

**Part # TJ403SP**

Item #	Description	Qty
TJ03SPRDB-1	SKID PLATE, REAR-DR BRKT	1
TJ03SPRPB-2	SKID PLATE, REAR-PA BRKT	1
TJ03SPFDB-3	SKID PLATE, FRONT-DR BRKT	1
TJ03SPFPB-4	SKID PLATE, FRONT-PA BRKT	1
HB-TJ403SP	HDWR BAG: SKID PLATE, REAR	1
I-TJ403SP	INST SHEET: FOR TJ403SP	1

**Part # JLL2501SX-ASY**

Item #	Description	Qty
JLL2501-L	LOWER FLEX LINK ARM	1
RE114-916R	ROD END, 1-1/4 RH / .562 ID	1
114RFTJN	1-1/4 RIGHT HAND JAM NUT	1

**Part # JSRB231A**

Item #	Description	Qty
TJSRB-1	SHIFT RELOCATE BRKT, TJ MAIN	1
TJSRB-2	SHIFT RELOCATE BRKT, TJ AUX.	1
HB-JSRB231A	HDWR BAG: JSRB231A T/C BRKT	1
I-JSRB231	INST. SHEET FOR JSRB231	1

**Hardware Bag Breakdown:****Part # HB-142118-4**

Item #	Description	Qty
142118	ES34 SLEEVE, 1.66 LONG	4

**Part # HB-TJRTB**

Item #	Description	Qty
SSTJRTB	SPACER SLEEVE FOR TJRTB	1
12X70MMB	12MM X 70MM METRIC BOLT/10.9	1
12MMN	12MM NYLON INSERT LOCK NUT	1
12X112FTB	1/2 X 1-1/2 FINE THREAD BOLT	1
12FTN	1/2-20 FINE THRD N/I LOCK NUT	1
12SAEW	1/2 SAE WASHER	3

**Part # HB-TJ40RRX**

Item #	Description	Qty
10MMX90MMB	10MM X 90MM METRIC BOLT / 10.9	2
10X110MMB	10MM X 110MM BOLT / 10.9	2
12MMX80B	12MM X 80MM METRIC BOLT / 10.9	4
12X3FSB	1/2 X 3 FLAT SOCKET BOLT	6
12X412FTB	1/2 X 4-1/2 FINE THREAD GRD. 8	4
12X30SHB	12MM X 30MM SOCKET HEAD BOLT	2
12SAEW	1/2 SAE WASHER	14
12FTN	1/2-20 FINE N/I LOCK NUT	4
BPS30-B	BUMP STOP SPACER BLK, 3	2

**Part # HB-JTRSB10**

Item #	Description	Qty
12X3FTB	1/2 X 3 FINE THREAD BOLT	4
12FTN	1/2 FINE THREAD N/I LOCK NUT	4
12SAEW	1/2 SAE WASHER	8
12XTFW	1/2 EXTRA THICK FLAT WASHER	4
142121	ES24 SLEEVE/402087 1.38	2
38X1FTB	3/8 X 1 FINE THREAD BOLT	2
38FTN	3/8 FINE THREAD N/I LOCK NUT	2
38SAEW	3/8 SAE WASHER	4

**Hardware Bag Breakdown:****Part # HB-TJ403SP**

Item #	Description	Qty
38X114FTB	3/8 X 1-1/4 FINE THREAD BOLT	6
38FTN	3/8-24 FINE THREAD N/I LOCK NUT	6
38SAEW	3/8 SAE WASHER	12

**Part # HB-JSRB231A**

Item #	Description	Qty
516X1FTB	5/16 X 1 FINE THREAD BOLT	2
516FTN	5/16" FINE THREAD N/I LOCK NUT	2
516SAEW	5/16 SAE WASHER	2
38FSFTN	3/8-24 FLANGE SERRATED NUT	2
FSB3838	FLANGED SLV BRG 3/8 X 3/8	2
SS1062-UL	JSRB SLEEVE, 1.062   1.052 LONG	1
SS312-UL	JSRB SLEEVE, .312   .302 LONG	1
TS38	EXT. TUBE, 3.25 FOR JSRB KIT	1

**Part # HB-SSP10**

Item #	Description	Qty
12SAEW	1/2 SAE WASHER	2
38FTN	3/8 FINE THREAD N/I LOCK NUT	1
38SAEW	3/8 SAE WASHER	1
38X2FTB	3/8 X 2 FINE THREAD BOLT	1
516X34TCFB	5/16 X 3/4 THREAD CUTTER BOLT	1
58SP	5/8 SPACER	1

**Part # HB-SBENB01**

Item #	Description	Qty
SBB2	SWAY BAR U-BRACKET FOR SBE	2
141509	ES25 SLEEVE/403646 1.50	4
12X212CTBG5	1/2 X 2-1/2 COARSE THREAD BOLT	2
10X35MMB	10MM X 35MM METRIC BOLT / 10.9	2
12CTCLN	1/2" COARSE CENTER LOCK NUT	2
10MMN	10MM METRIC N/I LOCK NUT	2
38SAEW	3/8 SAE WASHER	2
12SAEW	1/2 SAE WASHER	2

**Part # HB-TBA60**

Item #	Description	Qty
TJDLB	TJ DRAG LINK BUSHING, 1.125	2
12X212FSB	1/2 X 2-1/2 FLAT SOCKET BOLT	1
12X312FTB	1/2 X 3-1/2 FINE THREAD BOLT	1
12USSW	1/2 USS WASHER	1
12SAEW	1/2 SAE WASHER	1
12STVFTN	1/2" STOVER LOCK NUT, FINE THD	1
2888	BUSHING JEEP TRACK BAR	2
142121	ES24 SLEEVE   402087 1.38 LONG	1
81004	TAPERED SLEEVE, 1/2 I.D.	1
LT100	NUTS N' BOLTS 427 1 ML TUBE	1
HOURGLASS 5/8	HOURGLASS SHOCK BUSHING	2
P837	STABILIZER TAPERED STUD	1
140629	EB6 STUD BAG - P932/140629	1
7146-B	TJ TRACK BAR/STABILIZER BRKT	1
12STVCTN	1/2" STOVER COARSE, LOCK NUT	1

## **Pre-Installation Tips:**

### **'SET' the Length of the Rock Ready® Flex Link Arm Assemblies.**

Skyjacker # JLL2501SX-ASY (JLL2501-L Lower Flex Link Arm with # RE114-916R Right Hand 1-1/4" Rod End & # 114RFTJN Jam Nut). (See Photo # 1)

Measure length of Skyjacker Flex Link Arm assembly from centerline of rod end to centerline of bushing. **Note:** Be sure to keep ends square with each other.

**Note:** These are pre-alignment measurements only. Final Measurements are to be set by a qualified alignment facility.

Skyjacker Flex Link  
centerline-to-centerline  
Measurement for 4" Lift.

**Lower Front = 29-1/4"**

**Lower Rear = 29-1/4"**

On the rod end, rotate the jam nut against the steel tubing. Hold the rod end in place with a pipe wrench & use another pipe wrench or 1-13/16" wrench on the jam nut to completely tighten.

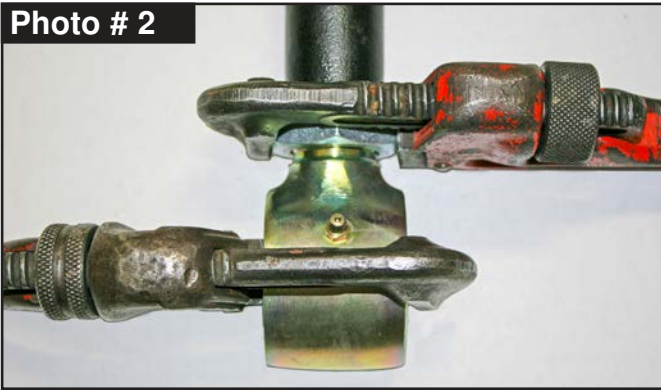
(See Photo # 2 & # 3)

**Tech Note:** The jam nut must be tightened against the steel tubing before installation.

**Photo # 1**



**Photo # 2**



**Photo # 3**



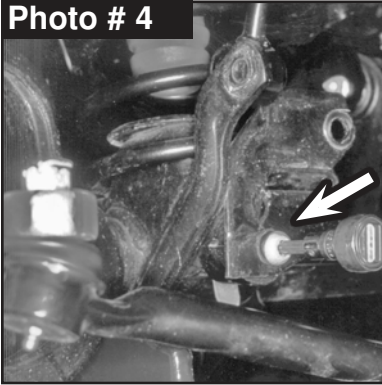
## **Front Installation:** **Note:** Save all factory components & hardware for reuse, unless noted.

1. With vehicle on flat level ground, set emergency brake & chock rear tires \ wheels.
2. From inside the engine compartment, disconnect both OEM front shock upper stud mounts using a 15mm socket \ wrench.
3. Raise front of vehicle, support frame rails using jack stands at indicated lift points in OEM service manual.
4. Remove the front tires \ wheels using a 3/4" or 18mm socket.
5. Place a floor jack underneath front axle for support. Disconnect OEM front shock lower mount using a 13mm socket \ wrench. Retain factory lower mounting hardware for re-use.
6. Remove OEM steering stabilizer using a 15mm socket \ wrench.

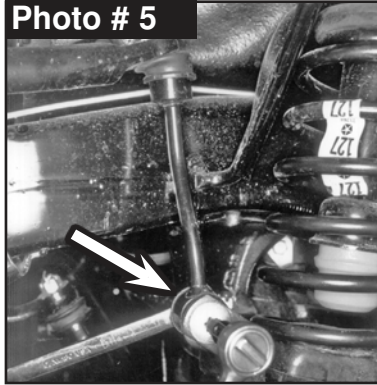


7. Disconnect OEM front track bar from lower passenger side axle mount using a 15mm socket \ wrench or a T55 Torx head bit. (See Photo # 4)
8. Disconnect OEM drag link assembly from OEM pitman arm. Use a pitman arm puller tool to detach drag link from pitman arm. Take caution not to tear the drag link grease boot.  
Mark the position of OEM pitman arm on steering gear box. Remove OEM nut & washer from steering gear box using a 33mm socket \ wrench. Align & install Skyjacker # JA750 Pitman Arm on OEM steering gear shaft. Install with OEM washer & nut. Tighten using 33mm socket \ wrench. Torque 185 ft-lbs.
9. Disconnect OEM sway bar end links from axle brackets using a 18mm socket \wrench & a T55 Torx head bit. (See Photo # 5)
10. Disconnect OEM brake line bracket from frame using a T40 Torx socket. (See Photo # 6)

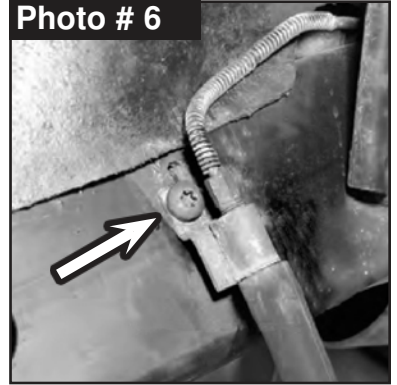
**Photo # 4**



**Photo # 5**

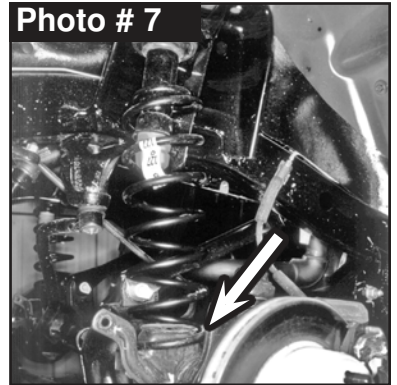


**Photo # 6**



11. Remove two (2) brake caliper mounting bolts & remove brake caliper from OEM knuckle using a 21mm socket \wrench.  
**Tech Note:** Hang brake caliper on frame out of way using a hook or bungee. **Do Not** hang by rubber brake line.

12. Support front axle with a floor jack. While checking for appropriate slack in ABS lines, brake lines, differential vent hose & etc, lower the front differential until the OEM front coil springs become loose.  
Remove OEM bottom bolt & clip from driver side OEM coil spring using a 13mm socket \wrench. (See Photo # 7)



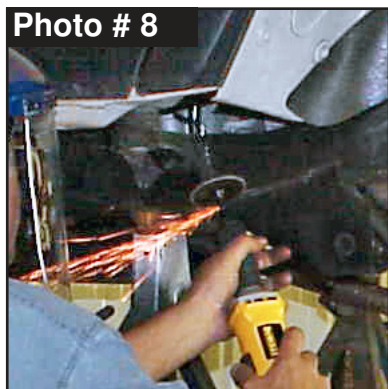
Remove OEM coil spring. **Tech Note:** If front axle cannot be lowered enough to allow coil spring to be installed, carefully rotate the pinion up to provide more clearance.

13. Remove OEM upper bump stop. **Tech Note:** Use channel lock pliers working OEM bump stop back & forth to remove.

Install Skyjacker #BP50S Bump Stop into OEM bump stop cup. **Tech Note:** A silicon spray or lubricant will help installation.

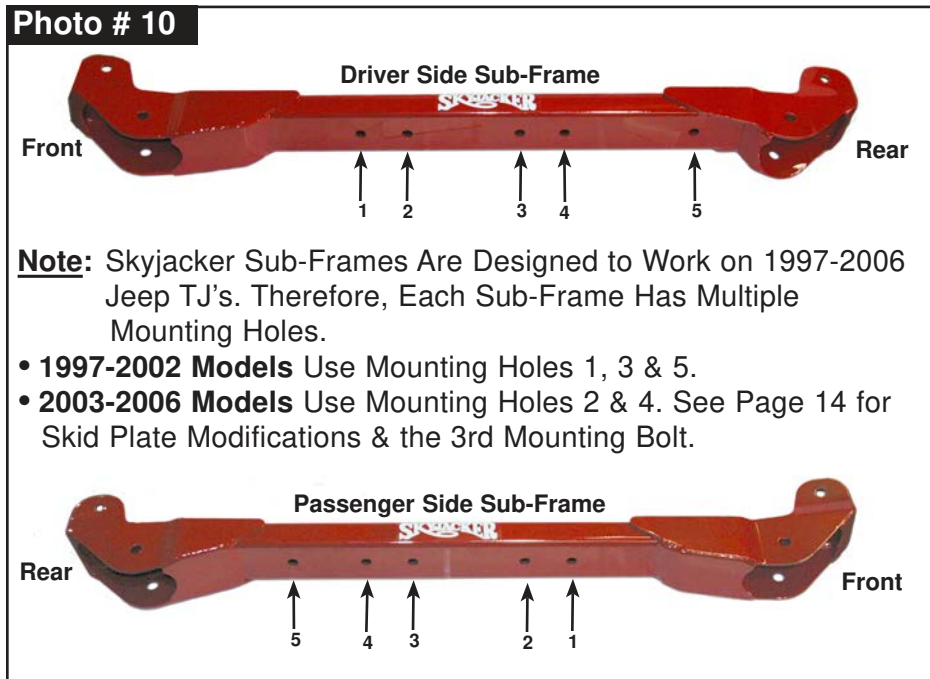
14. Remove OEM lower link arm using a 21mm socket \wrench.  
**Note:** If equipped with ABS brakes, remove ABS sensor wire / clamp from the inside of the lower arms.

15. Using care, grind off OEM front lower link arm mount. File smooth any burrs or sharp edges on OEM frame, then paint or undercoat all exposed metal surface areas. (See Photo # 8)
16. Place a jack under OEM transfer case crossmember \ skid plate.  
Remove six (6) OEM bolts of the transfer case crossmember \ skid plate: three (3) on each frame rail. (See Photo # 9 )  
**1997-2002 TJ Models:** Use 3/4" socket \ wrench.  
**2003-2006 TJ Models:** Use a 18mm socket \ wrench.  
Lower skid plate down.



17. **CAUTION:** 2003-2006 TJ Models Will Require Modification to OEM Skid Plate in order to Install the Skyjacker Sub-Frame. (See Page 14)

Place the Skyjacker # TJ60DFB-B Driver Side & # TJ60PFB-B Passenger Side Sub-Frames between the bottom of the frame & skid plate. **Tech Note:** On some models, it may be necessary to grind down OEM rear step bar nut insert on the outside of the frame to allow the sub-frame rail to mount flush.



**1997-2002 TJ Models Note:** Apply a few drops of supplied # LT100 Thread Lock Compound onto supplied 1/2" x 3" Flat Socket Tapered Head Bolts. Tighten using a 5/16" hex head socket. (See Photo # 10) Secure, but **Do Not Completely Tighten** until all six (6) are installed. Torque 90 ft-lbs.

**2003-2006 TJ Models Note:** Apply a few drops of supplied # LT100 Thread Lock Compound onto supplied 12mm x 80mm Metric Bolts. Install with 1/2 SAE Washer on bolt & tighten using a 18mm socket \ wrench. (See Photo # 10) Secure, but **Do Not Completely Tighten** until all six (6) are installed. Torque 75 ft-lbs.

18. With the Skyjacker sub-frames attached, use the Skyjacker bracket hole as a guide.

Mark, center punch & drill a pilot hole.

Drill out pilot hole using a 1/2" drill bit. (See Photo # 11)

Center punch through drilled hole. Drill completely through the frame & the mounting tab located on the back side of the sub-frame using a 1/2" drill bit. **Tech Note:** Keep drill as straight & square to bracket as possible.

Install supplied 1/2" x 4-1/2" Fine Thread Bolt with 1/2" SAE Washer on outside & 1/2" SAE Washer with 1/2" Nylon Insert Lock Nut inside using a 3/4" socket \wrench. Secure, but **Do Not Completely Tighten**. To set bushings properly for ride height, these will be tightened once vehicle is on ground with full vehicle weight on tires \wheels.

19. Install Skyjacker # JLL2501SX-ASY Lower Link Arm with OEM hardware using a 21mm socket \wrench. (See Photo # 12) **Note:** Install with rod end at OEM lower axle mount & bushing end to upper sub-frame mount.

**2003-2006 TJ Models Note:** Remember to run bolt through Skyjacker Skid Plate Front Mounting Brackets. (See Page 14)

20. Locate Skyjacker # JSRB231A Transfer Case Shifter Bracket & hardware bag. Install now per separate instructions.

21. Lower the front differential. Install Skyjacker coil spring placing the top of the coil spring over the upper bump stop mount first. Be sure that the coil & OEM spring isolator are indexed to seat properly, then raise axle enough to hold coil spring in place.

Re-install OEM bottom clip & bolt to driver side over Skyjacker coil spring using a 13mm socket \wrench. Torque 20 ft.-lbs.

22. Locate Skyjacker # TBA10 Adjustable Track Bar. Locate # HB-TBA60 Hardware Bag. Coat the two (2) # 2888 Poly Bushing halves & one (1) # ES24 1.38 Long Steel Sleeve with a water resistant grease. Press bushings & sleeve into upper track bar mount.

Insert the bushing end of the Skyjacker track bar into the OEM Steering Stabilizer location on the passenger side of the axle (Not OEM track bar location).

Attach Skyjacker # 7146-B Steering Stabilizer Mounting Bracket with the tab over the OEM sway bar end link stud with the OEM nut.

Attach Skyjacker track bar to mounting bracket with supplied 1/2" x 2-1/2" Flat Socket Head Bolt & 1/2" Stover Nut using a 5/16" Hex Key Socket & 3/4" socket \wrench. (See Photo # 13)

**Note:** In extreme situations (depending on pinion angle & caster settings), the drag link may contact the Skyjacker Steering Stabilizer Mounting Bracket when turning. This bracket can be slightly ground for additional clearance, if needed.

Photo # 11

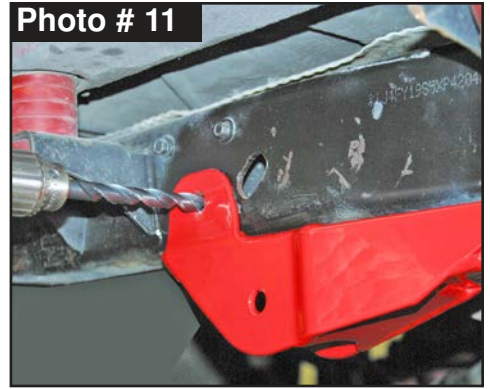


Photo # 12



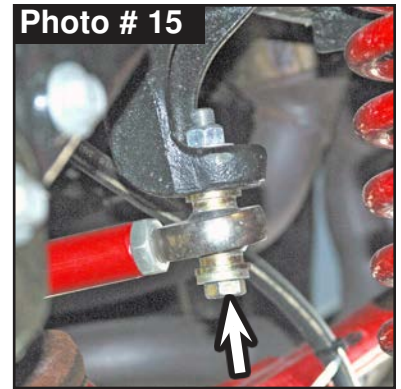
Photo # 13





23. From # HB-TBA60 Hardware Bag, install Skyjacker Track Bar rod end by following the hardware pictured. (See Photos # 14 & # 15) Being sure to keep the rod end square (parallel) with the frame mount. On the rod end, rotate the jam nut against the steel tubing. Hold the rod end in place with a pipe wrench & use another pipe wrench or 1-1/8" wrench on the jam nut to completely tighten.

**Tech Note:** The jam nut must be tightened against the steel tubing before installation.



24. Locate Skyjacker # P837 Tapered Stud & # 140629 EB6 Stud Hardware.

Install Skyjacker # P837 Tapered Stud into upper mounting hole on the Skyjacker Track Bar Bracket through OEM drag link mounting hole. Attach with stud hardware.

Coat the two (2) # Hourglass 5/8 Bushings with a water resistant grease. Press bushings into the Skyjacker Steering Stabilizer eyes. Attach to Skyjacker Stabilizer bracket stud & OEM stud mount. (See Photo # 16)



25. Apply a few drops of supplied # LT100 Thread Lock Compound onto the two (2) brake caliper OEM mounting bolts. Attach brake caliper to OEM knuckle using a 21mm socket \ wrench.
26. Locate Skyjacker # FBL44 Front Brake Lines. Install now per separate instructions.

**NOTE: If installing HYDRO, NITRO, Black MAX, or M95 Monotube Shocks: Proceed to Step 27.**  
**If installing ADX 2.0 Remote Reservoir Shocks: Proceed to Step 28.**

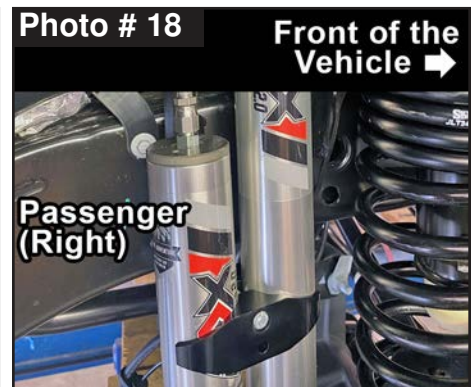
27. Install Skyjacker front shock at upper shock tower mount with supplied stud bushings, cup washers & nut using a 15mm socket \ wrench.

Connect Skyjacker shock at lower axle mount with OEM hardware using a 13mm socket \ wrench. Secure, but **Do Not Completely Tighten**. To set bushings properly for ride height, these will be tightened once vehicle is on ground with full vehicle weight on tires \ wheels.

28. Install Skyjacker ADX front shock. **Tech Note:** ADX Remote Reservoir are to be mounted with the remote reservoir toward rear for proper clearance (opposite side of coil spring mount). (See Photo # 17 & # 18)

Loosely assemble two (2) supplied reservoir clamps with two (2) supplied hex head bolts using a 5/32" Hex Key socket. Position clamp into place around shock & reservoir cylinder. Secure, but **Do Not Completely Tighten**.

Install Skyjacker ADX front shock at upper shock tower mount with supplied stud bushings, cup washers & nut using a 15mm socket \ wrench.





Connect Skyjacker shock at lower axle mount with OEM hardware using a 18mm socket \ wrench. Secure, but **Do Not Completely Tighten** at this time. These will be tightened once vehicle is on ground with full vehicle weight on tires \ wheels.

29. Connect OEM drag link to Skyjacker Pitman Arm using OEM hardware. Torque 55 ft.-lbs.

**Note:** Always tighten, never loosen castellated nut to align cotter pin hole.

30. Connect OEM brake line bracket to frame with OEM bolt using a T40 Torx socket. (See Photo # 6)

31. Locate Skyjacker # SBE120 Front Sway Bar Double Disconnect End Links. Coat # ES25 1.50 Long Steel Sleeves with a water resistant grease & press into upper & lower end links mounts.

**Note:** Sway Bar End Links are to be installed with offset inward as shown. (See Photo # 19)

Install Skyjacker # SBB2 Sway Bar End Link U-Bracket to bottom of OEM sway bar. Connect with 10mm x 35mm Bolt up through u-bracket & sway bar with 3/8" SAE Washer & 10mm Nut on top. Tighten using a 15mm socket \ wrench. (See Photo # 20)

Install upper end link mount into Skyjacker U-Bracket. Connect with supplied 1/2" x 2-1/2 Bolt with 1/2" SAE Washer from frame side out to provide adequate clearance. Attach 1/2" Center Lock Nut with 1/2" SAE Washer on outside using a 3/4" socket \ wrench. (See Photo # 20)

Attach lower end link to axle mount with OEM hardware using a 18mm socket \ wrench & a T55 Torx head bit. Passenger side goes in between OEM mount & Steering Stabilizer Mounting Bracket. (See Photo # 21) Secure, but **Do Not Completely Tighten** at this time.

Photo # 19

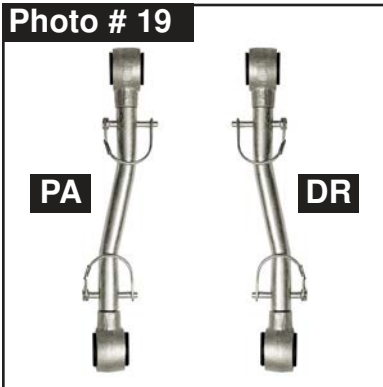


Photo # 20

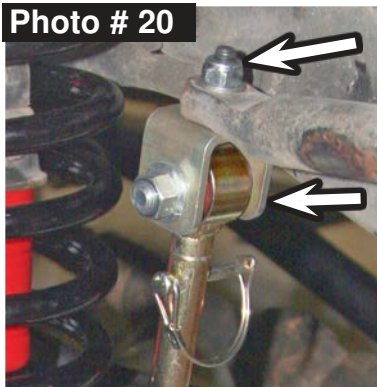
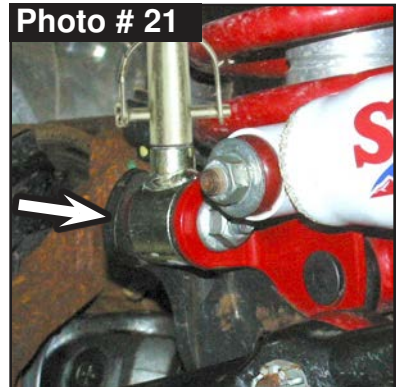


Photo # 21



32. Install the front tires \ wheels using a 3/4" or 18mm socket & lower the vehicle to the ground.

33. Locate Skyjacker # RRSP20 Steering Box Skid Plate. Install now per separate instructions.

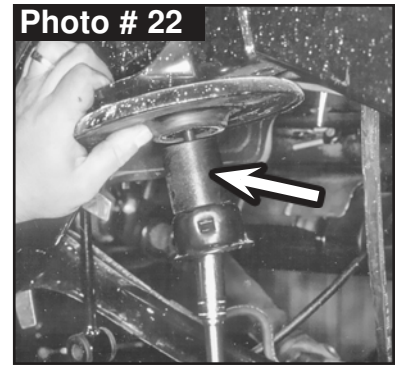
### **REAR Installation: : Note: Save all factory components & hardware for reuse, unless noted.**

1. Chock front tires \ wheels. Raise rear of vehicle & support frame rails using jack stands at indicated lift points in OEM service manual.
2. Remove the rear tires \ wheels using a 3/4" or 18mm socket.
3. Remove OEM rear shocks. Disconnect upper mount bar pin using a 13mm socket \ wrench. Disconnect lower axle mount using a 18mm & a 15mm socket \ wrench.
4. Disconnect OEM rear track bar at axle mount using a using a T55 Torx bit.
5. Disconnect OEM rear sway bar end links using a 18mm & a 15mm socket \ wrench.
6. Support rear axle with a floor jack. Disconnect rear emergency brake cables.  
While checking for appropriate slack in ABS lines, brake lines, differential vent hose & etc, lower the rear axle until the OEM rear coil springs become loose. Remove OEM coil spring.

7. Remove OEM upper bump stop. **Tech Note:** Use channel lock pliers working OEM bump stop back & forth to remove.

Remove OEM 10mm bolt from inside OEM bump stop cup using a 15mm socket \wrench.

Install Skyjacker # BPS30-B Bump Stop Spacer to OEM bump stop cup with supplied 10mm x 90mm Bolt using a 15mm socket \wrench. Install OEM bump stop into OEM bump stop cup. (See Photo # 22)



8. Install Skyjacker # TJRTB-B Rear Lower Track Bar Bracket over OEM rear lower track bar bracket at axle.

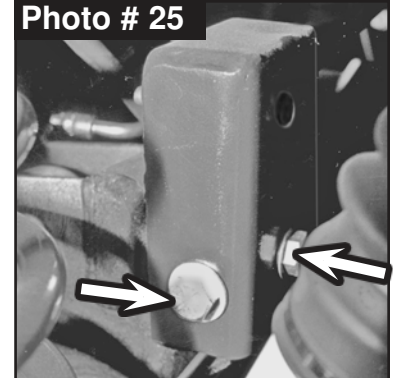
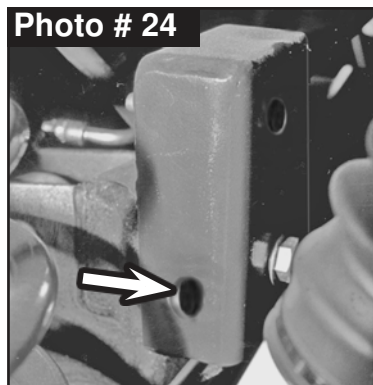
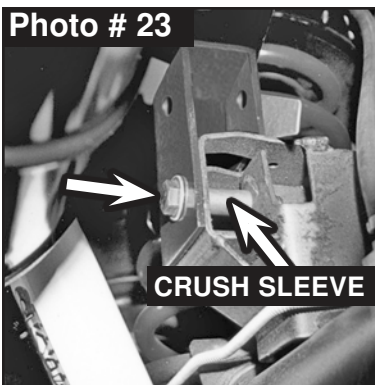
With Skyjacker bracket seated flush, insert supplied 12mm x 70mm Bolt with 1/2" SAE Washer from rear-to-front through bottom hole of bracket \axle mount. Place # SSTJRTB Crush Sleeve inside OEM mount & insert bolt through bracket \axle mount. Attach with 12mm Nylon Insert Lock Nut using a 18mm socket \wrench. (See Photo # 23) Tighten.

With bracket \axle mount tightly in place, use the Skyjacker bracket hole as a guide & mark / center punch the OEM bracket. (See Photo # 24)

9. Remove Skyjacker bracket & supplied hardware. Drill axle mount using a 1/2" drill bit.

Re-install Skyjacker bracket. Insert supplied 1/2" x 1-1/2" Fine Thread Bolt with 1/2" SAE Washer through bracket \axle mount at drilled hole. Attach with 1/2" SAE Washer & 1/2" Nylon Insert Lock Nut using a 3/4" socket \wrench. (See Photo # 25) Torque 60 ft.-lbs.

Re-install supplied hardware for bracket \axle mount as stated before & tighten all mounting hardware. 1/2" Bolt Torque 65 ft-lbs. 12mm Bolt Torque 75 ft-lbs.



10. Install Skyjacker rear coil spring. Be sure coil spring is seated properly at lower axle mount by rotating the coil until the pigtail hits the spring stop. **Note:** Be sure OEM upper coil spring isolator is properly aligned with coil & upper coil spring mount.

Raise rear axle to load Skyjacker rear coil springs.

11. One side at a time, remove OEM rear lower link arm using a 21mm socket \wrench.

12. Using care, grind off OEM rear lower link arm mounts. File smooth any burrs or sharp edges on OEM frame, then paint or undercoat all exposed metal surface areas. **Note:** This is the same process as the front lower link arm bracket.

13. One at a time, install Skyjacker # JLL2501SX-ASY Rear Lower Link Arm with OEM hardware using a 21mm socket \ wrench. **Note:** Install with rod end at OEM lower axle mount & bushing end to upper sub-frame mount. (See Photo # 26) Secure, but **Do Not Completely Tighten**. To set bushings properly for ride height, these will be tightened once full vehicle weight vehicle is on the ground.

**2003-2006 TJ Models Note:** Remember to run bolt through Skyjacker Skid Plate Rear Mounting Brackets. (See Page 14)

14. Connect OEM rear track bar to Skyjacker rear track bar bracket with OEM hardware from rear-to-front using a using a T55 Torx bit. (See Photo # 27)

Secure, but **Do Not Completely Tighten** at this time.

**Tech Note:** It may be necessary to raise \ lower axle to align track bar bolt. A ratchet strap can be helpful to align track bar / bracket.

15. Locate Skyjacker # RBL98 Rear Brake Lines. Install now per separate instructions.

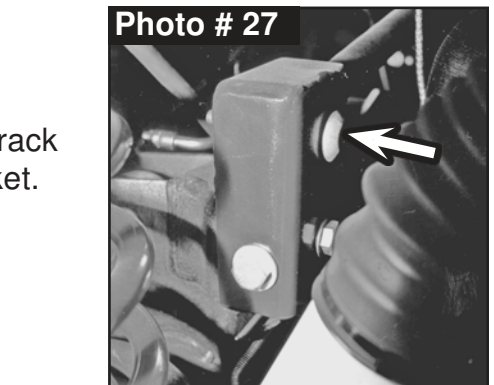
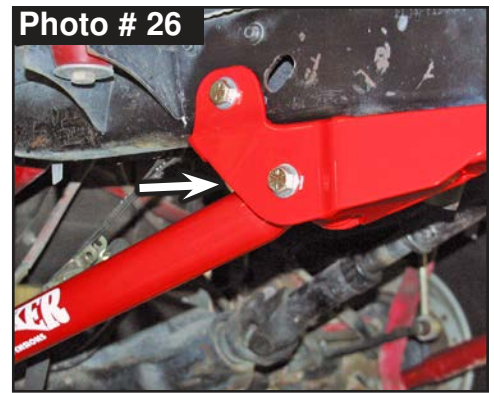
Connect OEM rear emergency brake cables.

16. Locate Skyjacker # SBE500-L Rear Sway Bar End Links. Coat # 142118 Steel Sleeves with a water resistant grease & press into upper & lower end link mounts.

One side at a time, install Skyjacker End Links with OEM hardware with large washer to bushing side of end link using a 18mm socket \ wrench. (See Photo # 28)

Secure, but **Do Not Completely Tighten** at this time.

17. Locate Skyjacker # JRSRB1-B Rear Lower Shock Relocation Bracket & hardware bag. Install now per separate instructions.



**NOTE: If installing HYDRO, NITRO, Black MAX, or M95 Monotube Shocks: Proceed to Step 18.**  
**If installing ADX 2.0 Remote Reservoir Shocks: Proceed to Step 19.**

18. Install Skyjacker rear shock. Connect upper bar pin mount with OEM hardware using a 15mm socket \ wrench.

Connect lower axle mount with OEM hardware using a 18mm socket \ wrench. Secure, but **Do Not Completely Tighten** at this time.

19. Assemble Skyjacker ADX rear shock. Loosely assemble two (2) supplied reservoir clamps with two (2) supplied hex head bolts using a 5/32" Hex Key socket. Position clamp into place around shock & reservoir cylinder. Secure, but **Do Not Completely Tighten** at this time.

Install Skyjacker ADX rear shock. Connect upper bar pin mount with OEM hardware using a 15mm socket \ wrench.

Connect lower axle mount with OEM hardware using a 18mm & a 15mm socket \ wrench.

Secure, but **Do Not Completely Tighten** at this time. **Tech Note:** Remote reservoir is to be mounted toward rear of vehicle & rotated for proper clearance.

20. Install the rear tires \ wheels using a 3/4" or 18mm socket & lower the vehicle to the ground.



## **Final Clearance Check & Torque Steps:**

**Notes:** Check Front Center Axle Disconnect (CAD) connection & on **RUBICON** Models: Check Front & Rear locker connections.

The Drag Link Must Be Adjusted to Center the Steering Wheel Before the Vehicle Is Driven. Failure to Do So Will Cause Computer Errors, Odd Handling Characteristics, & Poor Performance.

1. Start vehicle. Make sure there are no dash lights pertaining to suspension.
2. Jounce vehicle a couple of times. This will help suspension settle to new ride height. Cycle steering lock-to-lock & check all components for proper operation & clearances. Pay special attention to clearance between tires\wheels, ADX Shocks & Reservoirs, control arms, brake hoses, ABS wiring, etc.  
  
Rotate the drive shafts & check for interference at the differential yoke & Cardan joint. If necessary, lightly dress the casting(s) and \or u-joint tabs in order to eliminate binding.
3. **Front Tighten & Torque Sequence.**  
Skyjacker track bar at lower axle\bracket mount using a 5/32" Hex Key Socket & 3/4" socket \wrench. Torque 90 ft-lbs.  
Skyjacker track bar at upper frame mount using a 3/4" socket \wrench. Torque 90 ft-lbs.  
Front shock absorber upper mount using a 15mm socket \wrench. Torque 17 ft-lbs.  
Front shock absorber lower mount using a 13mm socket \wrench. Torque 250 in-lbs.  
ADX Reservoir clamp. Double check position & clearance. Tighten with 5/32" Hex Key socket.  
Sway bar end link upper bolt using a 3/4" socket \wrench. Torque 90 ft-lbs.  
Sway bar end link lower bolt using a 18mm socket \wrench & T55 Torx bit. Torque 75 ft-lbs.  
Skyjacker sub-frame lower link arm mount bolts using a 3/4" socket \wrench. Torque 90 ft-lbs.  
Front upper link arm at frame bracket mount using a 15mm socket \wrench. Torque 60 ft-lbs.  
Front upper link arm at axle mount using a 21mm socket \wrench. Torque 60 ft-lbs.  
Skyjacker lower link arm at axle & sub-frame mounts using a 21mm socket \wrench. Torque 130 ft-lbs.
4. **Rear Tighten & Torque Sequence.**  
Skyjacker track bar bracket bolts. 1/2" Bolt Torque 65 ft-lbs. 12mm Bolt Torque 75 ft-lbs.  
Track bar at Skyjacker bracket using a T55 Torx bit. Torque 74 ft-lbs.  
Rear shock absorber upper mount using a 13mm socket \wrench. Torque 26 ft-lbs.  
Rear shock absorber lower mount using a 18mm & a 15mm socket \wrench. Torque 74 ft-lbs.  
ADX Reservoir clamp. Double check position & clearance. Tighten with 5/32" Hex Key socket.  
Sway bar end link mounts using a 18mm & a 15mm socket \wrench. Torque 40 ft-lbs.  
Skyjacker sub-frame lower link arm mount bolts using a 3/4" socket \wrench. Torque 90 ft-lbs.  
Upper link arm at axle & frame mounts using a 21mm socket \wrench. Torque 60 ft-lbs.  
Skyjacker lower link arm at axle & sub-frame mounts using a 21mm socket \wrench.  
• 1997-2002 Models Torque 130 ft-lbs. • 2003-2006 Models Torque 150 ft-lbs.

## **Final Notes:**

- After installation is complete, double check that all nuts & bolts are tight. Refer to the following chart for proper torque specifications. (**Note:** Do not re-tighten nuts & bolts where thread lock compound was used.)
- With vehicle placed on ground, cycle steering lock to lock & inspect steering, suspension, brake lines, front & rear drivelines, fuel lines & wiring harnesses for proper operation, tightness & adequate clearance.
- Have headlights readjusted to proper settings.
- Have a qualified alignment center align vehicle to OEM specifications.
- After first 100 miles, check all hardware for 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	180 in-lbs	240 in-lbs	6MM	102 in-lbs	108 in-lbs
3/8	30 ft-lbs	35 ft-lbs	8MM	16 ft-lbs	23 ft-lbs
7/16	45 ft-lbs	60 ft-lbs	10MM	32 ft-lbs	45 ft-lbs
1/2	65 ft-lbs	90 ft-lbs	12MM	55 ft-lbs	75 ft-lbs
9/16	95 ft-lbs	130 ft-lbs	14MM	85 ft-lbs	120 ft-lbs
5/8	135 ft-lbs	175 ft-lbs	16MM	130 ft-lbs	165 ft-lbs
3/4	185 ft-lbs	280 ft-lbs	18MM	170 ft-lbs	240 ft-lbs
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.**

**Note: 2003-2006 TJ Models Will Require Modifications to the OEM Crossmember \ Skid Plate in order to Install the Skyjacker Sub-Frame.**

Locate the supplied Cut Template on the last pages of this installation instruction manual.  
Cut out the template using the 'outside' edge of the lines as a guide.

1. With the skid plate removed, use the supplied templates to scribe & cut the rear of the OEM transfer case skid plate. Place the template on the outer profile of the OEM skid plate. The template will line up with the outer rear edge of the skid plate as shown for the Driver Side & for the Passenger Side. (See Photo # 1 # 2, & # 3)



2. Photo # 4 shows the removed portion of the driver side.

Photo # 5 shows the removed portion of the passenger side.

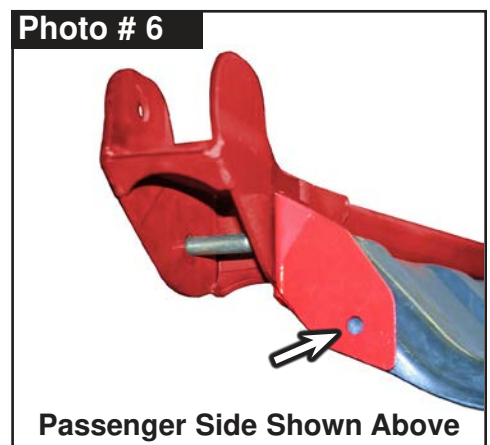
**Note:** File smooth any burrs or sharp edges on OEM skid plate, then paint or undercoat all exposed metal surface areas.



3. With skid plate modified, locate Skyjacker Skid Plate Rear Mounting Brackets. (# TJ03SPRDB-1 Driver & # TJ03SPRPB-2 Passenger)

Mount Skyjacker skid plate bracket to Skyjacker Link Arm Mounting Points on the sub-frame. Install bracket so that it is flush against the sub-frame & the back of OEM skid plate. Mount using the OEM lower link arm bolt. (See Photo # 6)

4. Once installed, mark & drill the new mounting point on the skid plate using a 3/8" drill bit. Install & tighten with supplied 3/8" x 1-1/4" Bolt with 3/8" SAE Washer outside & 3/8" SAE Washer with Nylon Insert Lock Nut inside using a 9/16" socket \ wrench. Torque 35 ft-lbs.





5. Locate OEM front transmission skid plate & crossmember assembly removed in Step # 1. Locate the outside frame mounting points on the crossmember as shown. (See Photo # 7) Measure 3-1/8" from the inside of OEM mounting hole toward the center of the crossmember. Using a straight edge \ square, mark the crossmember at this point. Repeat this process on both driver & passenger sides.



6. Using a reciprocating saw or similar tool, cut the outer mounting points off at the mark made in Step # 5. (See Photo # 8)

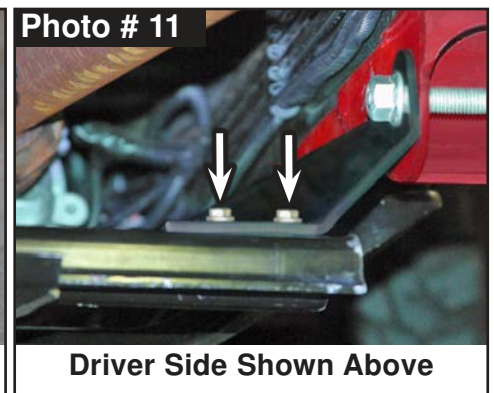
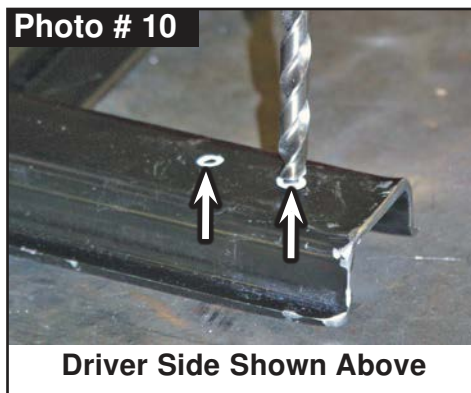
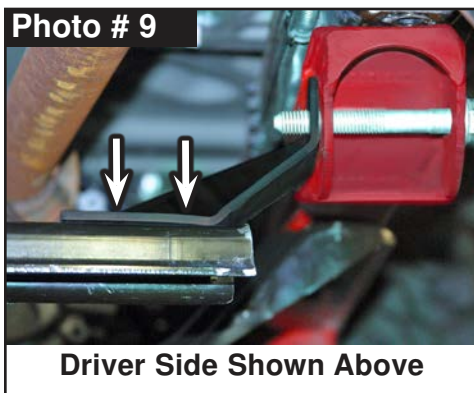
7. Locate the Skyjacker Skid Plate Front Mounting Brackets. (# TJ03SPFDB-3 Driver Side & # TJ03SPFPB-4 Passenger Side)  
Reinstall OEM skid plate assembly.  
Mount the Skyjacker bracket to the new link arm mounting point on the sub-frame using the OEM hardware.  
Install Skyjacker front skid plate bracket so that it is flush against the sub-frame & flush with the top of the crossmember. (See Photo # 9)  
Clamp into place with C-Clamp.  
Using the Skyjacker front skid plate bracket as a guide, mark the two (2) mounting points on top of the crossmember.

8. Remove OEM skid plate assembly at this time. Mark, center punch & drill a pilot hole. Drill out pilot hole using a 3/8" drill bit. (See Photo # 10)

**Tech Note:** Keep drill as straight & square to bracket as possible.

**Note:** File smooth any burrs or sharp edges on OEM skid plate, then paint or undercoat all exposed metal surface areas.

9. Install OEM skid plate assembly & Skyjacker front skid plate bracket.  
Attach & tighten with supplied 3/8" x 1-1/4" Bolt with 3/8" SAE Washer top & 3/8" SAE Washer with Nylon Insert Lock Nut bottom using a 9/16" socket \ wrench. (See Photo # 11)  
Torque 35 ft-lbs.



**Refer Back to Step 17, Page 6 Lift Kit Instructions at this Time.**



**JESUS  
FORGIVES  
ROCKS  
DON'T**

## *Jesus Christ Died For You.*

John 3:16

For God so loved the world that He gave His only Son, so that everyone who believes in Him should not perish, but have everlasting life.  
Romans 3:23

For all have sinned; all fall short of God's glorious standard.  
Ephesians 2:8

God saved you by his special favor when you believed. And you can't take credit for this; it is a gift from God.  
Psalms 18:2

The Lord is my Rock, my fortress, and my savior; my God is my Rock, in whom I find protection. He is my shield, the strength of my salvation, and my stronghold.  
Romans 10:9-10

That if you shall confess with thy mouth the Lord Jesus, and shall believe in your heart that God hath raised him from the dead, you shall be saved. For with the heart man believeth unto righteousness; and with the mouth confession is made unto salvation.

### Pray This Simple Prayer:

God, I come to You admitting I have sinned against You and I need you to take control of my life. The Bible says anyone who calls on the name of the Lord will be saved. I am calling on You, Jesus. I ask that You come live in my heart and be the Lord over my life today. I do believe You died on the cross for me and came back to life to give me life! Thank You, Lord Jesus for a new life in You!

Now, go and tell somebody about your new life in Jesus, get a Bible, begin to read it, and go to a Bible believing church.

If you would like someone to pray with you, call Kenneth Copeland Ministries anytime at 800-600-7395.

To listen to commercial free Christian radio on the web, go to [www.887fm.org](http://www.887fm.org)

## *Jesús murió por ti.*

Juan 3:16

"Porque tanto amó Dios al mundo, que dio a su Hijo unigénito, para que todo el que cree en él no se pierda, sino que tenga vida eterna."  
Romanos 3:23

"Pues todos han pecado y están privados de la gloria de Dios."  
Efesios 2:8

"Porque por gracia ustedes han sido salvados mediante la fe; esto no procede de ustedes, sino que es el regalo de Dios."  
Salmos 18:2

"El Señor es mi roca, mi amparo, mi libertador; es mi Dios, el peñasco en que me refugio. Es mi escudo, el poder que me salva, ¡mi más alto escondite!"  
Romanos 10:9-10

"9 Que si confi esas con tu boca que Jesús es el Señor, y crees en tu corazón que Dios lo levantó de entre los muertos, serás salvo. 10 Porque con el corazón se cree para ser justifi cado, pero con la boca se confi esa para ser salvo."

### Ahora dí esta simple oración:

Dios, vengo a Ti y admito que he pecado contra Ti, necesito que tomes el control de mi vida. La Biblia dice que todo aquel que invoca el nombre del Señor escapará con vida. En este momento yo clamo ante Ti, Jesús; te pido que vengas a vivir en mi corazón y que tomes el control de mi vida. ¡Yo creo que tu moriste en la cruz y resucitaste para darme vida! ¡Gracias Señor Jesús, por una nueva vida que tengo en Ti! Amen.

Ahora ve y dile a alguien sobre la nueva vida que tienes en Cristo. Compra una Biblia y empieza a leerla. Busca una Iglesia que cree en la Biblia y hazte parte de esa Iglesia.

Si te gustaría orar con alguien, puedes llamar a este número 800-600-7395

Puedes ir a este sitio de Internet para escuchar música Cristiana sin anuncios, [www.887fm.org](http://www.887fm.org)

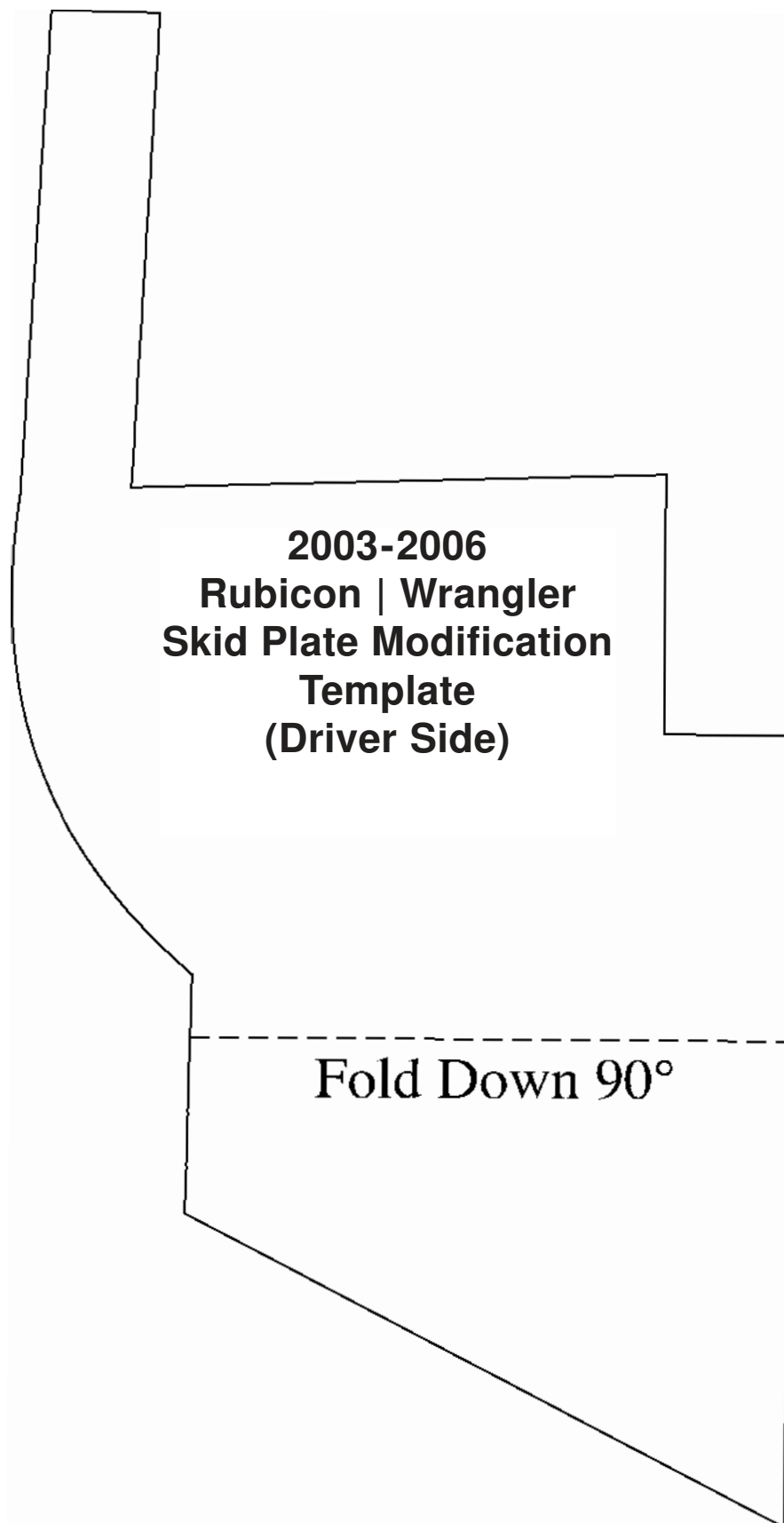
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[www.familychurch.org](http://www.familychurch.org)  
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**Note:** Cut out template using the 'outside' edge of the lines as a guide.







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