

# **#T2500, T2501, T2502 Installation Instructions** 2007-2009 Toyota Tundra 4wd **5" Suspension System**

## Read and understand all instructions and warnings prior to installation of product and operation of vehicle.

Zone Offroad Products recommends this system be installed by a professional technician. In addition to these instructions, professional knowledge of disassembly/ reassembly procedures and post installation checks must be known. Minimum tool requirements include the following: Assorted metric and standard wrenches, hammer, hydraulic floor jack and a set of jack stands. See the "Special Tools Required" section for additional tools needed to complete this installation properly and safely.

#### >>> PRODUCT SAFETY WARNING

Certain Zone Suspension Products are intended to improve off-road performance. Modifying your vehicle for off-road use may result in the vehicle handling differently than a factory equipped vehicle. Extreme care must be used to prevent loss of control or vehicle rollover. Failure to drive your modified vehicle safely may result in serious injury or death. Zone Offroad Products does not recommend the combined use of suspension lifts, body lifts, or other lifting devices.

You should never operate your modified vehicle under the influence of alcohol or drugs. Always drive your modified vehicle at reduced speeds to ensure your ability to control your vehicle under all driving conditions.

Always wear your seat belt.

#### >> TECHNICAL SUPPORT

Live Chat provides instant communication with Zone tech support. Anyone can access live chat through a link on www.zoneoffroad.com.

www.zoneoffroad.com may have additional information about this product including the latest instructions, videos, photos, etc.

Send an e-mail to *tech@zoneoffroad.com* detailing your issue for a quick response.

**888.998.ZONE** Call to speak directly with Zone tech support.

#### >>> Pre-Installation Notes

- 1. Special literature required: OE Service Manual for model/year of vehicle. Refer to manual for proper disassembly/reassembly procedures of OE and related components.
- 2. Adhere to recommendations when replacement fasteners, retainers and keepers are called out in the OE manual.
- 3. Larger rim and tire combinations may increase leverage on suspension, steering, and related components. When selecting combinations larger than OE, consider the additional stress you could be inducing on the OE and related components.
- 4. Post suspension system vehicles may experience drive line vibrations. Angles may require tuning, slider on shaft may require replacement, shafts may need to be lengthened or trued, and U-joints may need to be replaced.
- 5. Secure and properly block vehicle prior to installation of Zone Offroad Products. Always wear safety glasses when using power tools.
- 6. If installation is to be performed without a hoist, Zone Offroad Products recommends rear alterations first.
- 7. Due to payload options and initial ride height variances, the amount of lift is a base Figureure. Final ride height dimensions may vary in accordance to original vehicle attitude. Always measure the attitude prior to beginning installation.

# **Difficulty Level**

easy 1 2 3 (4) 5 difficult

Estimated installation: hours

## Special Tools Required

-Reciprocating Saw or Equivalent -Welder

### Tire/Wheel Fitment

Tire:

35 x 12.50

Wheel:

18" or 20" w/5.5 to 6.25" backspacing

Kit Contents		1	Bolt Pack - Sway Bar Drop
Qty	Part	2	Bump Stop
1	Steering Knuckle (drv)	1	Bump Stop Mount (drv)
1	Steering Knuckle (pass)	1	Bump Stop Mount (pass)
1	Front Crossmember	2	Front Brake Line Relocation Brkt
1	Rear Crossmember	1	Bolt Pack - Bump Stops/Misc.
4	Cam Washer - Front Crossmember	2	Strut Extension Assembly
4	Cam Washer - Rear Crossmember	4	Crush Sleeve - 0.625 x 0.109 x 0.560
1	Bolt Pack - Crossmembers	1	Bolt Pack - Strut Extension
1	Weld-in Plate (pass)	2	3" Lift Block
1	Weld-in Plate (drv)	4	9/16" x 2-1/2" x 10" U-bolt
1	1/4" Breather Hose - 8" Long	1	Bolt Pack - Rear Kit
1	1/8" Vacuum Line - 10" Long	1	ABS Line Bracket
1	Bolt Pack - Differential Mounts	1	Brake Line Bracket
2	Sway Bar Drop Bracket		



#### INSTALLATION INSTRUCTIONS

- 1. Park the vehicle on a flat, clean surface and block the rear wheels for safety.
- 2. Disconnect the positive and negative battery cables minor welding is required during the installation.

## >>> FRONT INSTALLATION

- 1. Raise the front of the vehicle and support with jack stands under the frame rails.
- 2. Remove the wheels.
- 3. Remove the factory plastic mud flaps from the front and rear portions of the front wheel well. These will not be reused.
- 4. Locate and remove the front factory skid plate Figure 1. The skid plate and hardware will not be reused.



Figure 1

5. Loosen the tie rod end jam nuts Figure 2. The tie rod ends will be removed later in the installation.



Figure 2

6. Remove the tie rod end cotter pin. Remove the nut from the tie rod end and thread back on a couple of turns. Strike the steering knuckle near the tie rod

end to dislodge the taper Figure 3. Remove the nut and the tie rod end from the knuckle. Save the nut and discard the cotter pin.

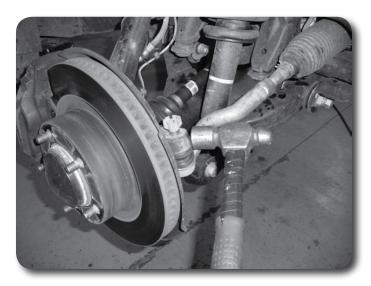


Figure 3

7. Disconnect the sway bar links from the lower control arms. Figure 4. Save the lower mount bolts.



Figure 4

8. Note how the sway bar is oriented on the vehicle. Disconnect the sway bar mounts from the frame rails and remove the sway bar from the vehicle. Figure 5A Take care not to lose the plastic frame bushing spacers. Figure 5B Save mounting hardware.



Figure 5A

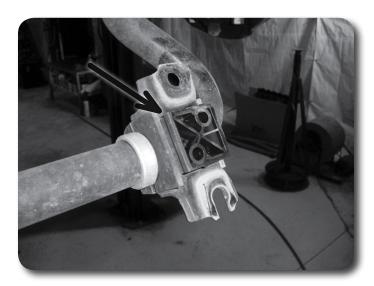


Figure 5B

9. Disconnect the brake line brackets Figures 6A, B from the steering knuckles (2 per knuckle). Save hardware.

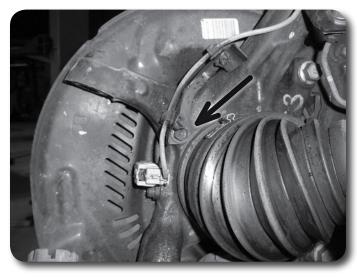


Figure 6A



Figure 6B

10. Disconnect the brake line bracket from the frame Figure 7. Save bolt. Remove the ABS line from the retaining bracket on the upper control arm.



Figure 7

11. Remove the ABS sensor bolt Figure 8A from the knuckle (requires a 5mm hex socket). Carefully remove the sensor from the knuckle Figure 8B. It is held in place by an o-ring. Take extra care not to damage the sensor. Save mounting bolt.

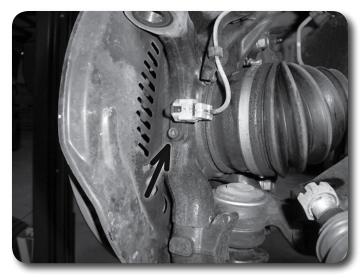


Figure 8A



Figure 8B

12. Remove the bolts mounting the brake caliper to the steering knuckle Figure 9. Hang the caliper and the brake/ABS lines out of the way. Save caliper hardware.



Figure 9

- 13. Remove the brake rotor from the hub.
- 14. Remove the hub dust cap from the hub by carefully working around the lip with a small chisel and hammer Figure 10. Take care not to overly deform the mounting lip so it can be reinstalled later.



Figure 10

15. Remove the cotter pin and castellated nut cap from the end of the axle shaft. Remove the axle nut from the axle. Save the axle nut and cap Figure 11. Discard the cotter pin (new one provided).



Figure 11

16. Unseat the axle shaft from the knuckle. Use an air hammer with blunt nose punch (recommended) or a hammer and punch, unseat the axle from the hub Figure 12. A large rubber mallet can be used also, but make sure to thread the axle nut on flush with the end of the axle to protect the threads.



Figure 12

17. Disconnect the hub bolts from the steering knuckle. Figure 13A The bolts are captive in the hub assembly. Remove the hub, brake dust shield and hub o-ring from the steering knuckle and set aside Figure 13B.



Figure 13A



Figure 13B

18. Remove the upper ball joint cotter pin and save. Remove the upper ball joint nut and thread back on a couple of turns by hand. Strike the knuckle near the upper ball joint to dislodge the ball joint taper Figure 14. Take care not to strike the ball joint. Pull down on the upper control arm and remove the upper ball joint nut. Save nut.

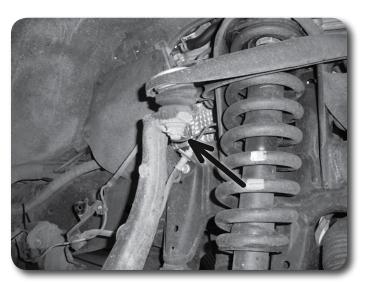


Figure 14

19. Disconnect the steering knuckle from the lower ball joint mount. Remove the two bolts Figure 15 and remove the knuckle from the vehicle. Save bolts and knuckle.



Figure 15

20. Loosen but do not remove the lower control arm cam bolts. On the front, loosen the bolt from the front. On the rear, loosen the nut from the front Figure 16.



Figure 16

21. Disconnect the lower strut mounting bolt and remove from the lower control arm Figure 16. Allow the lower control arm to swing down. Save the strut mount hardware.



Figure 17

- 22. Remove the lower control arm cam bolts and remove the control arms from the vehicle. Save arms and hardware.
- 23. Locate the front differential actuator wire connector on the front passenger's side of the differential. Push in on the retaining clip and pull the connector free from the actuator Figure 18.

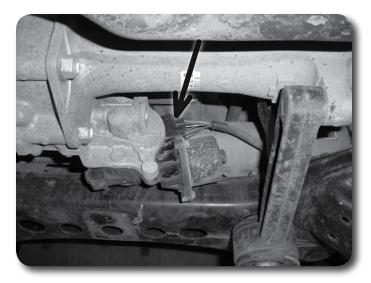


Figure 18

24. Locate the differential vacuum and breather lines on the upper driver's side of the differential Figure 19. Disconnect the lines from the hard lines at the frame.

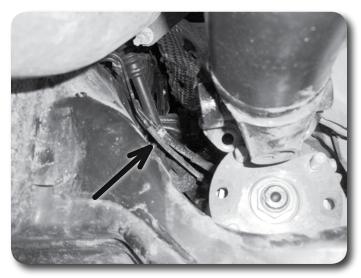


Figure 19

- 25. Disconnect the front driveshaft from the front differential by removing the four mounting nuts. Save nuts. Pull the driveshaft free from the differential input flange.
- 26. With the help of an assistant, support the front differential with a proper jack. Remove the outer bolt and inner nut mounting the rear differential bracket to the frame. Remove the bolt mounting the rear differential bracket to the differential and remove the bracket from the vehicle Figure 20A. Save bracket and hardware. Remove the two bolts mounting the front differential brackets to the frame Figure 20B and remove the differential from the vehicle.

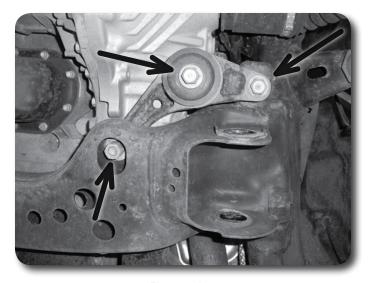


Figure 20A



Figure 20B

27. In order to clear the differential in its new lower position the factory rear frame crossmember must be removed. On the driver's side make cut marks up the front and back faces of the crossmember that extend from the bottom inside edge of the control arm pocket Figure 21A. This line will be approximately 3-13/16" from the front outer control arm pocket edge Figure 21B and 3-3/8" from the inside of the frame on the back face Figure 21C. Connect the top of the two vertical cut lines along the top surface of the crossmember.



Figure 21A



Figure 21B



Figure 21C

28. On the passenger's side, measure in and mark 3" from the inside edge of the control arm pocket Figure 22. Extend the line along the bottom of the crossmember

(parallel to the inside edge of the control arm pocket) and up the front and back faces of the crossmember.

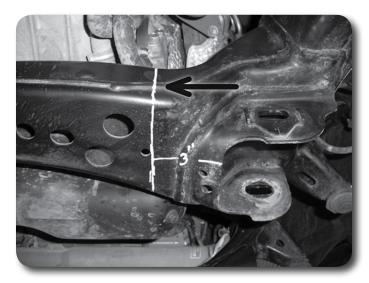


Figure 22

 Using a reciprocating saw (highly recommended), hack saw or cut-off wheel, cut the rear crossmember out of the vehicle along the driver's and passenger's side cut lines Figure 23.



Figure 23

- 30. With the rear crossmember removed, clean any burrs, grease/oil and paint from the cut area. Prep the area properly for welding in the new provided metal plates.
- 31. Position the provided driver's and passenger's side weld-in plates up to the cut surfaces by matching up the profiles Figure 24-pass, Figure 25-drv. On the driver's side make sure the bottom edge of the new plate is even with the bottommost edge of the cut. Tack weld the plates in place.



Figure 24-passenger's side



Figure 25-driver's side

- 32. Double check the weld-in plate positions and completely weld into place. Once the weld area has cooled, paint any bare metal to prevent rust.
- 33. Locate the (2) provided front crossmember crush sleeves (0.875 OD x 2.250 Long). Place the sleeve in the top differential mounting holes in the crossmember. Take care not to drop them into the crossmember tube. Figure 26



Step 33 Note

Front crossmember hardware is located in hardware pack #650.

T2500 Installation - pg. 16 Figure 26

34. Install the new front crossmember into the front lower control arm pockets Figure 27 with the provided 7/8" x 5-1/2" bolts and (2) provided rectangle cam washers (set with large hole). Run the bolts from front to rear and loosely fasten with remaining (2) rectangle cam washers and 7/8" nylock nuts.



Figure 27

35. Locate and replace the factory vacuum and breather lines on the top of the differential Figure 28. Transfer the hose clamps from the factory breather hose to the new provided one. The vacuum line does not have clamps and just slides onto the hard line.



Figure 28

36. With the help of an assistant and an appropriate jack, raise the differential up to the new front crossmember. Align the holes in the factory differential mount brackets with the corresponding holes in the crossmember. Fasten the differential Figure 29 to the front crossmember (through the holes with the crush sleeves) with 9/16" x 5-1/2" bolts, nuts and washers along with the large lower factory washer. Leave hardware loose.

# **Step 36 Note**

All front differential mounting hardware is located in hardware pack #652.



Figure 29

37. Locate the factory rear differential mount that was removed earlier. Locate the bottom outer mount surface and the cast ribs that extend close to the mounting hole. These ribs need to be ground down flush to the mounting surface back into the mount body about 1/4" to provided clearance with the new differential mount Figure 30. This can easily be done with a standard angle grinder.

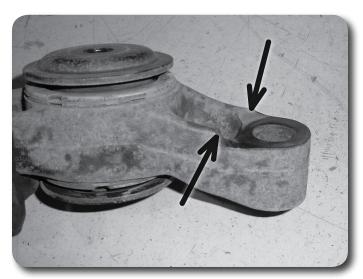


Figure 30

38. Loosely install the modified factory rear differential mount to the differential with the original bolt Figure 31. The mount should be positioned as it was when removed with the captive stud to the inside and pointing down. Leave the bolt loose so the bracket can move freely.



Figure 31

39. Install the new rear crossmember in the rear lower control arm pockets Figure 32. When installing the crossmember, align the captive stud on the rear differential bracket with the mounting hole in the crossmember. Fasten the crossmember to the frame with the provided 18mm x 170mm bolts and (2) rectangle cam washers (set with small hole). Run the bolts from rear to front. Install the remaining (2) cam washers on the bolt but do not install the nut.

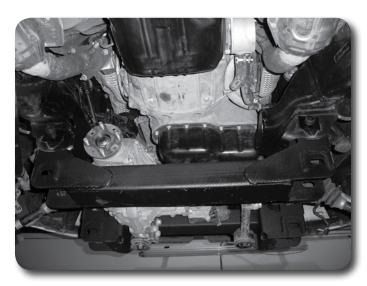


Figure 32

40. With the rear crossmember installed, fasten the factory rear differential mount to the outer crossmember mount with a 9/16" x 2-1/2" bolt, nut and washers. Also, install the factory flanged high nut on the captive stud, which is accessed through the bottom of the rear crossmember Figure 33. Leave hardware loose.

# **Step 40 Note**

All front differential mounting hardware is located in hardware pack #652.

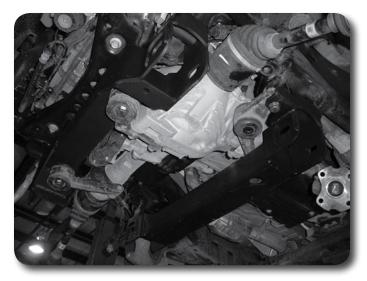


Figure 33

- 41. After all of the differential hardware is installed, push the differential rearward as far as possible and torque the two front differential mount bolts to 90 ft-lbs. Leave the remaining differential hardware loose at this time.
- 42. Connect the new differential breather and vacuum lines to the hard lines at the frame on the driver's side. Reconnect the differential wiring connector to the differential actuator.
- 43. Reconnect the front driveshaft to the differential with the original nuts/washer. Torque nuts to 50 ft-lbs.
- 44. Locate and install the factory lower control arms into the new front and rear crossmembers Figure 34. Loosely fasten the control arms with the factory cam bolts. The front cam bolts run from front to rear and the rear cam bolts run from rear to front. Thread the cam bolts just enough to seat the cams between the cam stops on the crossmembers but do not tighten.



Figure 34

- 45. With the lower control arms installed, go back and torque the (3) rear differential mount bolts to 90 ft-lbs (two at the crossmember, one into the differential).
- 46. With all the differential mount bolts tight, torque the main 7/8" front crossmember bolts to 150 ft-lbs.

47. Locate and remove the rear factory rubber bump stops from the frame Figure 35. These are threaded into the frame and can be removed with large channel-lock pliers. Discard bump stops.



Figure 35

48. Locate the provided driver's and passenger's side bump stop mounts and new bump stops. The new mounts are side specific. The large tab will mount to the rear crossmember bolt and the small slotted hole mounts to the frame. Install the provided bump stops Figure 36 to the new mounts with a 3/8" flanged nut. Tighten nut securely (do not overtighten, causing the bump stop to deform).



Figure 36

49. Install the bump stop mounts to the original bump stop location on the frame with 10mm x 25mm bolts and 3/8" USS washers. Before installing the bolt make sure the rectangle cam washer is in place on the crossmember bolt Figure 37A - installed earlier and the bump stop mount is positioned over the cam washer. Leave 10mm hardware loose and fasten the mount at the crossmember with a 3/4" washer and 18mm nut. Torque the 10mm bolt to 20 ft-lbs followed by the 18mm bolt to 140 ft-lbs.

## Step 48,49 Note

Bump stop hardware is located in hardware pack #649.

# **Step 49 Note**

The 18mm nuts and 3/4" washers for the crossmember bolts are located in hardware pack #650.



Figure 37A



Figure 37B

# Step 50,51 Note

Strut mount hardware is located in hardware pack #648.

The extension may need to be tapped on to Bilstein struts because of the slightly larger body diameter. Use a rubber mallet.

50. Locate the new lower strut extension assemblies. Install the extension on the factory strut so the pinch tabs are toward the inside of the vehicle. Slide the extension over the strut body Figure 38 to align the mount holes with the factory strut bushing and fasten with a 5/8" x 3" bolt, nut and washers. Torque bolt to 125 ft-lbs.

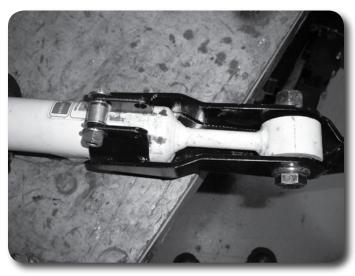


Figure 38 - Shown Off Truck

51. Locate the provided 0.625 OD x 0.560 Long crush sleeves (4 total). Position the sleeves between the pinch tabs on the upper portion of the strut extension Figure 39 and fasten with 3/8" x 1-3/4" bolts, nuts and washers. Torque bolts to 25 ft-lbs. Double check that the strut extension is tight on the strut body. For Bilstein strut equipped vehicles (yellow strut) - place a 3/8" SAE washer on each side of the crush sleeves before installing the pinch bolts. These are needed to compensate for the slightly larger diameter strut body compared to the standard (black) strut.



Figure 39

- 52. With the strut installation complete, swing the lower control arms up to the strut and attach with the original lower strut bolt/nut Figure 40. Leave lower control arm bolt loose.
- 53. Locate the new steering knuckles and the corresponding factory steering knuckles. The factory hub seal needs to be removed from the original knuckles and placed in the new knuckles. Carefully remove/install the seals without damaging them using a blunt nose punch and hammer (a small block of wood works well to install). Be sure the seal is completely seated in the new knuckle Figure 40A, B. If the seal needs replaced do so now. Toyota part #90312A0002.

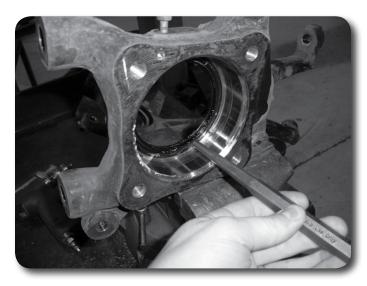


Figure 40A



Figure 40B

54. Install the new steering knuckles on the appropriate side of the vehicle. Run the CV shaft through the knuckle hub bore and fasten the knuckles to the lower ball joint mount with the original mounting bolts Figure 41. Use Loctite on the bolts and torque to 175 ft-lbs.



Figure 41

- 55. Pull down on the upper control arm and attach the upper ball joint to the new steering knuckle with the factory upper ball joint nut. Torque the upper ball joint nut to 80 ft-lbs and install the factory cotter pin. Never loosen the nut to align the cottor pin holes, only tighten.
- 56. Install the factory wheel hubs onto the factory CV shaft and into the new knuckles along with the factory dust shield and outer hub o-ring. Apply Loctite to the (4) captive hub bolts and torque to 73 ft-lbs. Be sure the dust shield is oriented correctly.
- 57. Install the factory CV axle nut and torque to 250 ft-lbs. Install the factory castellated nut cap and new provided 5/32 x 1-3/4" cotter pin. Reinstall the factory hub dust cap and tap into place with a rubber mallet.
- 58. Install the factory brake rotor on the hub followed by the brake caliper. Attach the caliper to the knuckle with the original mounting bolts. Torque caliper bolts to 73 ft-lbs.

## **Step 57 Note**

Cotter pin is located in hardware pack #649

- 59. Attach the factory brake line bracket to the new steering knuckle with the original bolt. It might be necessary to carefully reform the brake hard line at the caliper in order to attach the bracket. Torque bolt to 8 ft-lbs.
- 60. Route the ABS sensor wire over the axle shaft to the front of the steering knuck-le and install with the original bolt. Be sure to seat the sensor complete into the knuckle before tightening the bolt Figure 42. Torque bolt to 8 ft-lbs.



Figure 42

61. Attach the ABS wire bracket to the backside of the knuckle in the provided tapped hole with the original bolt Figure 43. On the driver's side it will be necessary to remove the extra tab on the bracket to mount it properly Figure 44. The ABS line can be slid in the plastic retainer clips that attach to the metal brackets to adjust the line for proper slack. Lubricate the line with spray lubricant and pull through the plastic clips as necessary. Torque bracket bolt to 8 ft-lbs.



Figure 43



Figure 44

62. Locate the new brake line relocation brackets. Attach the brackets to the original frame mount with the original bolt. The stud on the bracket will point out and the bracket will angle in toward the strut about 20-30 degrees from vertical Figure 45. Torque bolt to 10 ft-lbs.



Figure 45 - passenger's side view

63. Carefully reform the brake hard line at the frame and attach the original brake line mount bracket to the stud on the relocation bracket Figure 46. Fasten with the provided 1/4" nut, flat washer and lock washer. Tighten hardware securely.

# Step 63 Note

Brake line bracket hardware is located in hardware pack #649

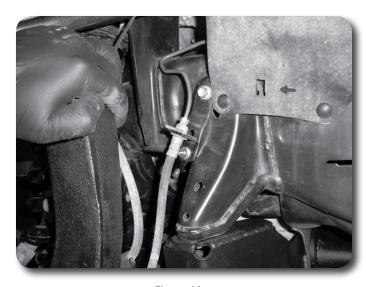


Figure 46

- 64. Cycle the knuckle back and forth to check for proper slack and clearance of the ABS and brake lines. Adjust where necessary.
- 65. Locate the new sway bar drop brackets and mount to the original sway bar mount point on the frame rails with the factory hardware. Figure 47 The open face of the brackets should be toward the inside of the vehicle. Torque bolt to 40 ft-lbs.



Figure 47

- 66. Loosely fasten the sway bar to the new drop brackets with the provided 7/16" x 1-1/4" bolts, nuts and washers. Be sure the sway bar is oriented correctly and the factory plastic bushing spacers are in place. Figure 48
- 67. Attach the factory sway bar links to the lower control arms and fasten with the original bolts. Torque link bolts to 90 ft-lbs. Go back and torque the 7/16" sway bar mount bolts to 40 ft-lbs.

# **Step 66 Note**

Sway bar drop bracket hardware is located in hardware pack #407



Figure 48

- 68. Unthread the driver's and passenger's side tie rod ends and swap them side to side. Thread the tie rod ends back on up to the jam nut. Install the rod ends into the new steering knuckles (top down) and fasten with the factory castellated nut. Torque nut to 51 ft-lbs. Insert a new 5/32 x 1-1/4" cotter pin. Do not loosen the nut to align the cotter pin hole, only tighten.
- 69. With the tie rod ends installed, snug the jam nuts up against the tie rod ends.
- 70. Install the wheels and lower the vehicle to the ground. Torque lug nuts to 100 ft-lbs for aluminum wheels or 150 ft-lbs for steel wheels.
- 71. Bounce the front of the vehicle to settle the suspension. Torque the lower control arm cam bolts to 200 ft-lbs. Torque the lower strut mount bolts to 140 ft-lbs.
- 72. Check all hardware for proper torque.

#### >>> REAR INSTALLATION

- 1. Block the front wheels for safety. Raise the rear of the vehicle and support with jack stands under the frame rails.
- 2. Remove the wheels.
- 3. Support the rear axle with a floor jack and remove the factory rear shocks. Save the axle mount hardware, discard the upper hardware and shocks
- 4. Disconnect the parking brake cable brackets from the driver's and passenger's side of the axle Figure 49. Remove the brackets from the cables.



T2500 Installation - pg. 28 Figure 49

Disconnect the rear brake lines from the (3) mounting points at the center of the axle Figure 50. Save hardware and leave the factory clamps on the hard lines.
Disconnect the plastic ABS line clip from the top of the differential Figure 51.
Remove the plastic clip from the ABS line, it will not be reused.

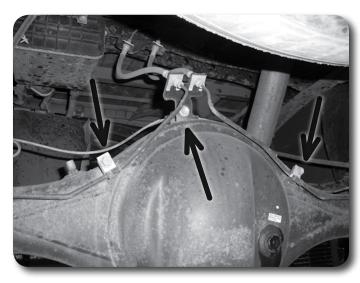


Figure 50



Figure 51

6. Disconnect the ABS line bracket from the driver's side of the axle Figure 52. Save hardware. Carefully bend the factory ABS line bracket down at the charcoal canister located on the frame Figure 53A,B.



Figure 52



Figure 53A—Before



Figure 53B—After

7. With the axle still well supported, remove the passenger's side u-bolts. Lower the axle enough to place the provided lift block between the axle and leaf pack.

Align the pins and pin holes in the block, leaf and axle. Raise the axle to seat all of the components. The block has a slight taper. Make sure the short end of the block is toward the front of the vehicle.

8. With the lift block installed, install the new u-bolts, nuts and washers Figure 54. Snug u-bolts but do not torque at this time. Final torque will be done with the weight of the vehicle on the suspension.



Figure 54

- 9. Repeat block installation on the driver's side.
- 10. With both sides complete, install the new shocks with the provided bushings, sleeves and hardware. New upper hardware is supplied and the factory axle hardware will be reused. Torque the upper shock stud nut to 20 ft-lbs. Torque axle mount bolt to 65 ft-lbs.
- 11. Locate the provided ABS relocation bracket (flat bracket 3" hole-to-hole) and attach to the original axle mount with the factory bolt. Position the bracket vertical and torque bolt to 10 ft-lbs. Attach the factory ABS line bracket to the relocation bracket Figure 55 with the provided 5/16" x 1" bolt, nut and washers. Torque 5/16" hardware to 10 ft-lbs.



Figure 55

12. Locate the provided brake line relocation bracket (flat bracket - 1" hole-to-hole), provided 1/4" hardware and wire clip. Install the wire clip on the ABS wire where the factory plastic clip was removed Figure 56A, B. Remove the 1/4" x 1"

## Step 11-13 Note

All rear brake line hardware is located in hardware pack #651

bolt w/washer through the clip, into the new relocation bracket and into the front of the original ABS mount tab on the top of the differential. Fasten with a 1/4" nut and washer. Position the relocation bracket vertical and torque bolt to 8-10 ft-lbs



Figure 56A



Figure 56B

- 13. Attach the factory brake line bracket to the front of the relocation bracket with the remaining 5/16" hardware. Torque bolt to 10 ft-lbs.
- 14. Flip the two remaining brake hardware line clips and reattach to the original locations on the back of the axle Figure 57. The lines will now be running above the mount bolts instead of below. Torque bolts to 10 ft-lbs.

## **Step 13 Note**

The brake hard lines will need to be reformed slightly.



Figure 57

- 15. Install the wheels and lower the vehicle to the ground. Torque lug nuts to 100 ft-lbs for aluminum wheels or 150 ft-lbs for steel wheels.
- 16. Bounce the rear of the vehicle to settle the suspension. Torque the u-bolts to 100-120 ft-lbs.
- 17. Check all hardware for proper torque.

#### >>> Post-Installation

- 1. Check all hardware (front and rear) for proper torque. Check hardware after 500 miles.
- 2. Reconnect the battery.
- 3. Vehicle will need a complete front end alignment.
- 4. Adjust headlights.

# Post-Installation Warnings

- 1. Check all fasteners for proper torque. Check to ensure for adequate clearance between all rotating, mobile, fixed, and heated members. Verify clearance between exhaust and brake lines, fuel lines, fuel tank, floor boards and wiring harness. Check steering gear for clearance. Test and inspect brake system.
- 2. Perform steering sweep to ensure front brake hoses have adequate slack and do not contact any rotating, mobile or heated members. Inspect rear brake hoses at full extension for adequate slack. Failure to perform hose check/ replacement may result in component failure.
- 3. Perform head light check and adjustment.
- 4. Re-torque all fasteners after 500 miles. Always inspect fasteners and components during routine servicing.