2213 Industrial Park Rd ~~ Lancaster, SC 29720
909-597-7800

2008-16 FORD F-250/350 SUPER DUTY 4WD

FTS22100BK
10” RADIUS ARM BOX KIT

2008-10 FORD F-250/350 SUPER DUTY
4WD FT22100i
10” RADIUS ARM KIT

	FTS22100BK	10" Radius Arm Box Kit Box 1
Qty	**Part #**	**Description**
1	FT31117	Radius Arm Dr.
1	FT31118	Radius Arm Pass.
2	FT30467BK	Radius Arm Drop Drv & Pass
1	FT30122	Pitman Arm
1	FT30185BK	Frt. Bumpstop Drop Driver
1	FT30186BK	Frt. Bumpstop Drop Passenger
1	FT30402	Steering Stabilizer Drop 08-10
1	FT30629	Sway Bar Drop Drv. 15-UP
1	FT30630	Sway Bar Drop Pass. 15-UP
1	FT30304BK	Trac Bar Drop Bracket 10"
1	FT30305BK	Trac Bar Support Tube 10"
1	FT30287	Hardware Kit (radius arm)
1	FT30271	Hardware Kit (10 inch)
1	FT3400-112D	Sway Bar Drop Driver 08-14
1	FT3400-112P	Sway Bar Drop Pass 08-14

	FT30521	Hardware Subassembly
Qty	**Part #**	**Description**
4	FT1006	Bushing
2	FT102	Sleeve
2	FT22100i	Instruction Sheet
1	FT292	Cam Bolt Kit
1	FT30258	Sector Shaft Nut
2	FT30409	8’’ Brake Line
2	FT30410	Brake Line Union
2	FT30276	Frt. Brake line Bracket
2	FT30277	ABS Line Bracket @ Radius Arm
1	FTAS12	Fabtech Sticker
1	FTLUBE	Lube
1	FTREGCARD	Reg. Card

	FT30287	Hardware Kit -
Qty	**Description**	**Location**
2	5/16"-18 x 1 1/4" Bolt	Brake Line Bracket
2	5/16"-18 Nyloc Nut	
4	5/16" SAE Flat Washer	
2	5/16"-18 x 1" Thrd Frmg Bolt	
2	5/16"-18 x 1 1/4" Bolt	Bump Stop Center
2	5/16" SAE Flat Washer	
2	5/16" Split Washer	
7	8" Zip Ties	4wd & ABS Lines
4	7/16"-14 x 1 1/2" Bolt	Bump Stop
4	7/16"-14 Nyloc Nut	
8	7/16" SAE Flat Washer	
4	7/16"-14 x 1 1/4" bolt	Sway Bar Drop Brkt
4	7/16"-14 C-Lock Nut	
8	7/16" SAE Flat Washer	
6	1/4"-20 x 1" Bolt	ABS Line & Brkt
6	1/4"-20 C-Lock Nut	@ Radius Arm
12	1/4" SAE Flat Washer	
2	Adel Clamp	ABS Line & Brkt
2	Zerk Fitting	Radius Arm End
1	1/8" x 2" Cotter Pin	Drag Link
1	Lock Tight	
1	M12-1.75 X 70MM Bolt	Steering Stabilizer
2	M12 SAE Flat Washer	
1	M12-1.75 C-Lock Nut	

	FT30271	Hardware Kit -
Qty	**Description**	**Location**
8	3/4" -10 x 1 1/2" Bolt	Frame Bracket
8	3/4"-10 C-Lock Nut	
16	3/4" SAE Flat Washer	
2	14mm-2.0 x 100MM	Lower Coil Perch
2	14mm Flat Washer	

2011-16 FORD F-250/350 SUPER DUTY
4WD FT22100i
10” RADIUS ARM KIT

	FTS22144	10" Radius Arm Box Kit Box 1
Qty	**Part #**	**Description**
1	FT31117	Radius Arm Dr.
1	FT31118	Radius Arm Pass.
2	FT30467BK	Radius Arm Drop Drv & Pass
1	FT30122	Pitman Arm
1	FT30185BK	Frt. Bumpstop Drop Driver
1	FT30186BK	Frt. Bumpstop Drop Passenger
1	FT30583	Steering Stabilizer Drop 11-UP
1	FT30629	Sway Bar Drop Drv. 15-UP
1	FT30630	Sway Bar Drop Pass. 15-UP
1	FT30304BK	Trac Bar Drop Bracket 10"
1	FT30305BK	Trac Bar Support Tube 10"
1	FT30287	Hardware Kit (radius arm)
1	FT30271	Hardware Kit (10 inch)
1	FT3400-112D	Sway Bar Drop Driver 08-14
1	FT3400-112P	Sway Bar Drop Pass 08-14

	FT30459	Hardware Subassembly
Qty	**Part #**	**Description**
4	FT1006	Bushing
2	FT102	Sleeve
2	FT22100i	Instruction Sheet
1	FT292	Cam Bolt Kit
1	FT30258	Sector Shaft Nut
2	FT30409	8’’ Brake Line
2	FT30410	Brake Line Union
2	FT30276	Frt. Brake line Bracket
2	FT30277	ABS Line Bracket @ Radius Arm
1	FT30059	Rear Brake Line
1	FT30432	Front Brake line
1	FTREGCARD	Reg. Card

	FT30287	Hardware Kit -
Qty	**Description**	**Location**
2	5/16"-18 x 1 1/4" Bolt	Brake Line Bracket
2	5/16"-18 Nyloc Nut	
4	5/16" SAE Flat Washer	
2	5/16"-18 x 1" Thrd Frmg Bolt	
2	5/16"-18 x 1 1/4" Bolt	Bump Stop Center
2	5/16" SAE Flat Washer	
2	5/16" Split Washer	
7	8" Zip Ties	4wd & ABS Lines
4	7/16"-14 x 1 1/2" Bolt	Bump Stop
4	7/16"-14 Nyloc Nut	
8	7/16" SAE Flat Washer	
4	7/16"-14 x 1 1/4" bolt	Sway Bar Drop Brkt
4	7/16"-14 C-Lock Nut	
8	7/16" SAE Flat Washer	
6	1/4"-20 x 1" Bolt	ABS Line & Brkt
6	1/4"-20 C-Lock Nut	@ Radius Arm
12	1/4" SAE Flat Washer	
2	Adel Clamp	ABS Line & Brkt
2	Zerk Fitting	Radius Arm End
1	1/8" x 2" Cotter Pin	Drag Link
1	Lock Tight	
1	M12-1.75 X 70MM Bolt	Steering Stabilizer
2	M12 SAE Flat Washer	
1	M12-1.75 C-Lock Nut	

	FT30271	Hardware Kit -
Qty	**Description**	**Location**
8	3/4" -10 x 1 1/2" Bolt	Frame Bracket
8	3/4"-10 C-Lock Nut	
16	3/4" SAE Flat Washer	
2	14mm-2.0 x 100MM	Lower Coil Perch
2	14mm Flat Washer	

TOOL LIST:

- **FLOOR JACK**
- **JACK STANDS**
- **ASSORTED METRIC AND S. A. E. WRENCHES AND SOCKETS**
- **WHITE LITHIUM GREASE**
- **TORQUE WRENCH**

READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION.

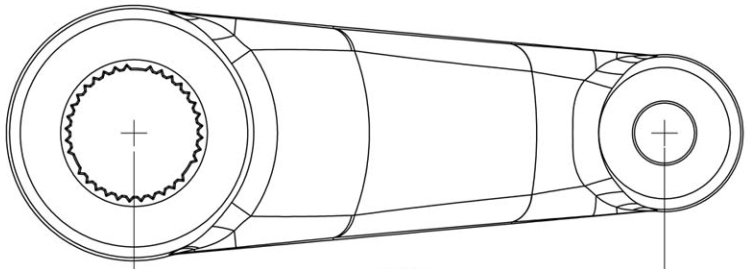
CHECK PARTS & HARDWARE AGAINST THE PARTS LIST BEFORE BEGINNING THE INSTALLATION TO ASSURE THE KIT IS COMPLETE, CONTACT FABTECH @ 909-597-7800 IF KIT IS INCOMPLETE.

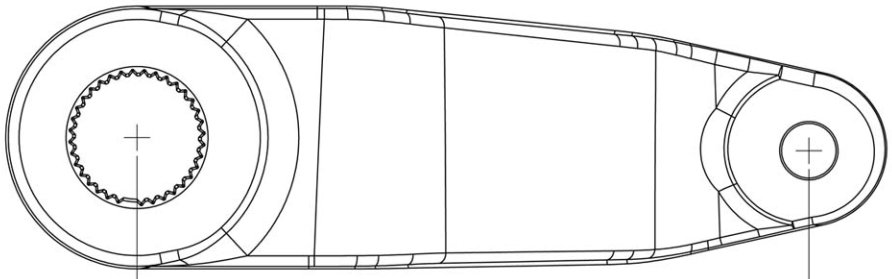
FABTECH RECOMMENDS YOU DO A PRE- INSPECTION OF THE TRUCKS FRAME FOR ANY DAMAGE BEFORE BEGINNING THE INSTALLATION OF THIS KIT. FABTECH ALSO RECOMMEND YOU PREFORM AN ALIGNMENT ON THE TRUCK BEFORE BEGINNING THE INSTALLATION. IF THE TRUCK HAS ANY FRAME DAMAGE OR WILL NOT ALIGN TO FACTORY SEPECS. DO NOT INSTALL THIS KIT UNTIL THE DAMAGE IS CORRECTED. CALL FABTECH FOR FURTHER INFORMANTION.

FABTECH RECOMMENDS THE FOLLOWING TIRE SIZES FOR USE WITH THIS KIT:
10" LIFT- 40/12.50r17 TIRES W/ 17x9 WHEELS W/ 4 5/8" BACK SPACING w/ minor trimming
10" LIFT- 40/13.50r20 TIRES W// 20x10 WHEELS W/ 4 ½" BACK SPACING w/ minor trimming

Fabtech suspension systems FTS22092BK & FTS22100BK when used on "Gas engine" trucks will require that the front drive shaft be modified. This is done to give adequate clearance between the driveshaft and the factory exhaust. Fabtech does not recommend modifying the exhaust and / or the catalytic converters.

**NOTE - DO NOT PROCEED WITH INSTALLATION OF SUSPENSION KIT UNTIL VERIFYING THE PROPER FACTORY PITMAN ARM LENGTH.





CALL FABTECH FOR ADDITIONAL INFORMATION.

LIFT INSTRUCTIONS:

1. Disconnect the negative terminal on the battery. Jack up the front end of the truck and support the frame, at the front frame rails, with jack stands. **NEVER WORK UNDER AN UNSUPPORTED VEHICLE.** Remove the front tires.

2. Working from both sides of the truck, remove the brake calipers **(remove the caliper cage from the knuckle, do not remove the caliper from the caliper cage)** and tie them up out of the way. **DO NOT ALLOW THE CALIPERS TO HANG FROM THE BRAKE LINES!** Remove the brake line and ABS line tabs from the front side and the rear side of the coil spring mount on the axle and save the hardware.

3. Supporting the front axle with two floor jacks, remove the front shocks and discard. Remove the sway bar end links from the axle mount and save with the hardware.

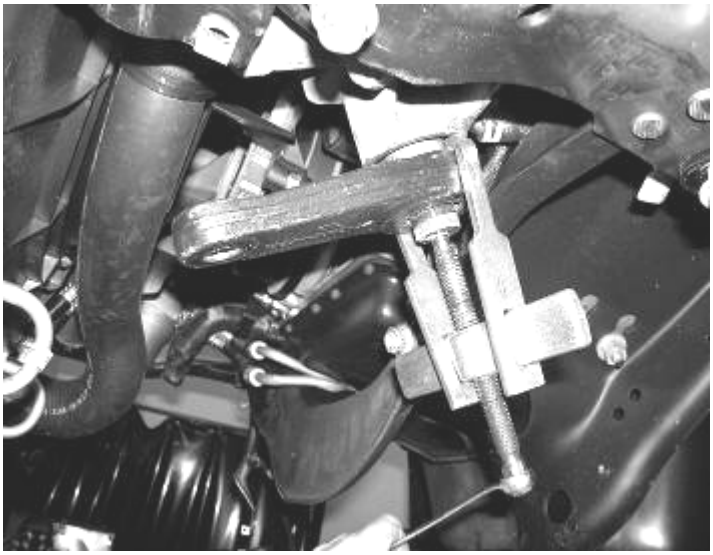
4. Lower the front axle allowing the coil springs to come free of tension. **EXERCISE EXTREME CAUTION WHEN WORKING WITH COIL SPRINGS UNDER LOAD!** Remove the coil springs from the truck and discard, save the factory upper coil isolator.

5. Remove the factory steering stabilizer from the frame mount and save the hardware. Remove the steering stabilizer frame bracket and save the hardware. Discard the frame bracket. Leave the steering stabilizer connected to the drag link. SEE PHOTO BELOW.

6. Remove the drag link from the pitman arm and save factory hardware. You will need to strike the pitman arm with a large hammer to dislodge the drag link from the pitman arm. **USE CARE NOT TO HIT THE THREADS ON THE DRAG LINK!**

7. Remove the trac bar from the frame bracket and save the original hardware. Remove the trac bar bracket from the frame and save the original hardware and discard the factory trac bar bracket. SEE PHOTO BELOW.

8. Remove the factory pitman arm from the steering box using a large pitman arm puller or large two-jaw puller. Save the hardware and discard the pitman arm. SEE PHOTO BELOW.



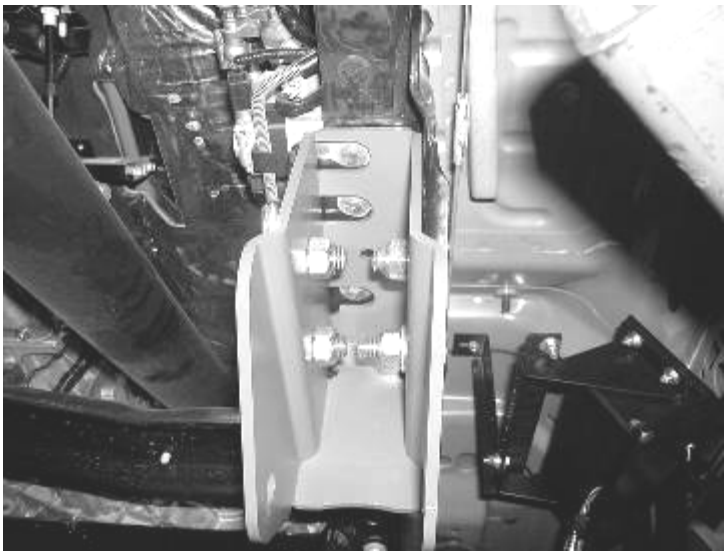
9. Locate FTS30122 new drop pitman arm. Attach to the steering box in the same indexed position as the factory pitman arm was when removed. **Install the provided FT30258 Sector Shaft Nut and torque to 350 ft. lbs. (Note: this is a one-time only use nut, once it is tightened on the sector shaft and removed, it must be discarded)**

10. Locate FT30272 Trac Bar Frame Bracket. Attach to the frame using the original hardware in the same position. Torque bolts to 110 ft. lbs. **DO NOT ATTACH THE TRAC BAR TO THE FRAME BRACKET AT THIS TIME.**

11. Locate the ABS lines on the radius arms and disconnect it at its two mounting points. Use care not to damage the plastic clips on the ABS line as they will be reused, discard the bolt from the bracket.

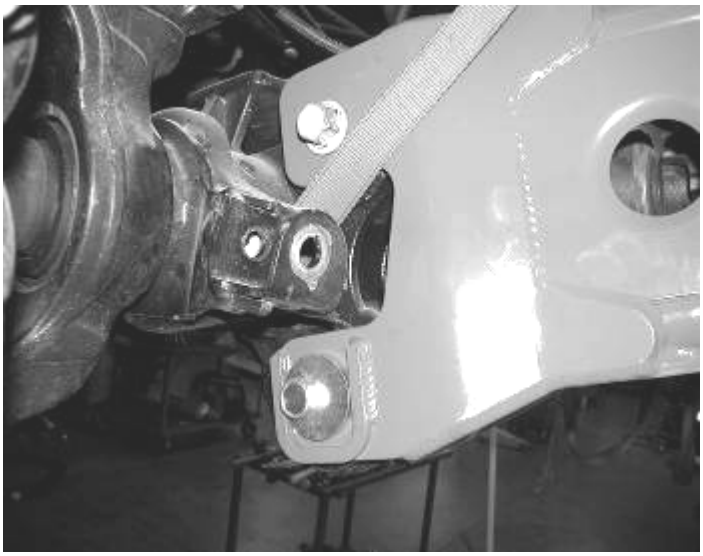
12. With the front axle still supported by the floor jacks remove both front factory radius arms from axle and factory frame mounts. Save the factory frame pivot bolts and the factory front upper pivot bolt from the axle mounts, discard the front lower axle pivot bolt.

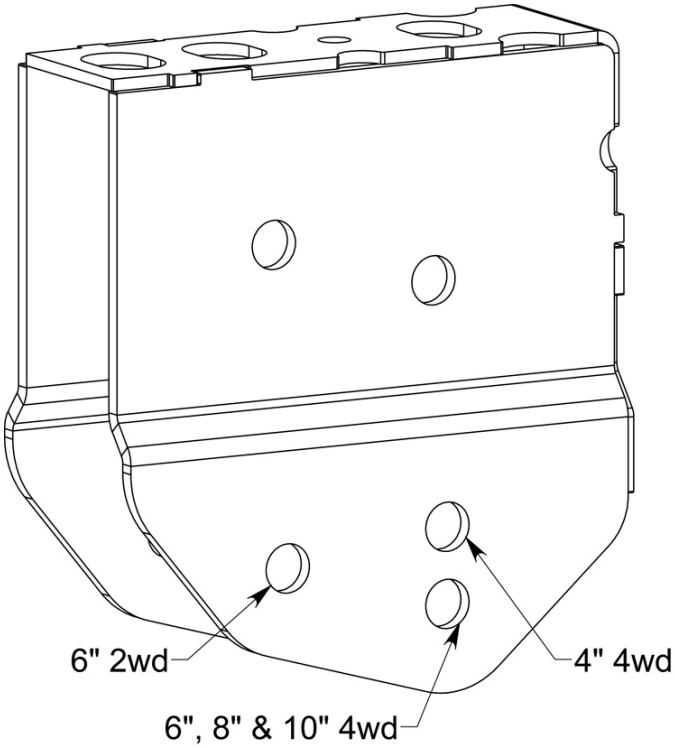
13. Working from the driver side of the truck, locate FT30467 radius arm drop bracket. Place the bracket into the factory radius arm bracket on the frame. Attach the bracket to the factory bracket using the supplied ¾” x 1 ½” bolts, nuts, and washers through the original holes in the frame. Torque bolts to 100 ft. lbs

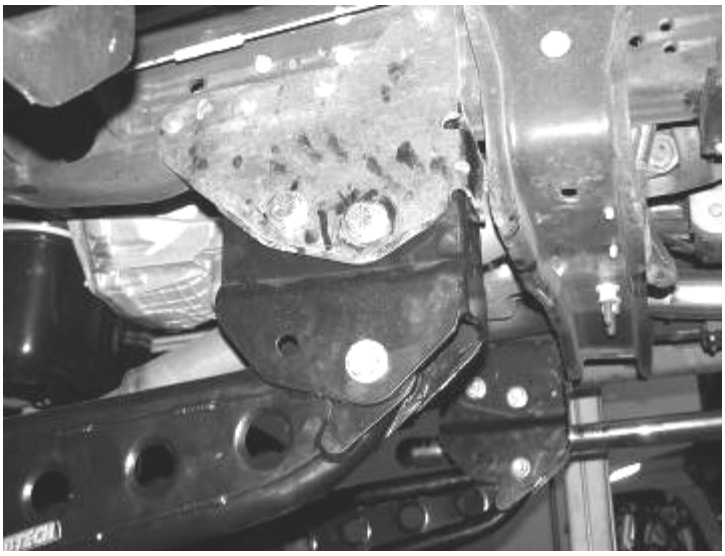


14. Locate both FT31117 and FT31118 radius arms and install two of the supplied bushings and one of the supplied sleeves into each radius arm end. Use the supplied FTLUBE on all the bushing surfaces before installing them into the radius arms. Install one grease fitting into each end of the radius arms with the bushings.

15. Working from the driver side of the truck, Install FT31117, driver side radius arm onto the truck. First attach the radius arm to the axle mounts using the factory upper pivot bolt and the supplied alignment cam on the lower pivot. Then attach the rear pivot to the new Fabtech drop mount in the rearmost hole and use the factory bolt. Leave loose at this time. SEE PHOTO BELOW.



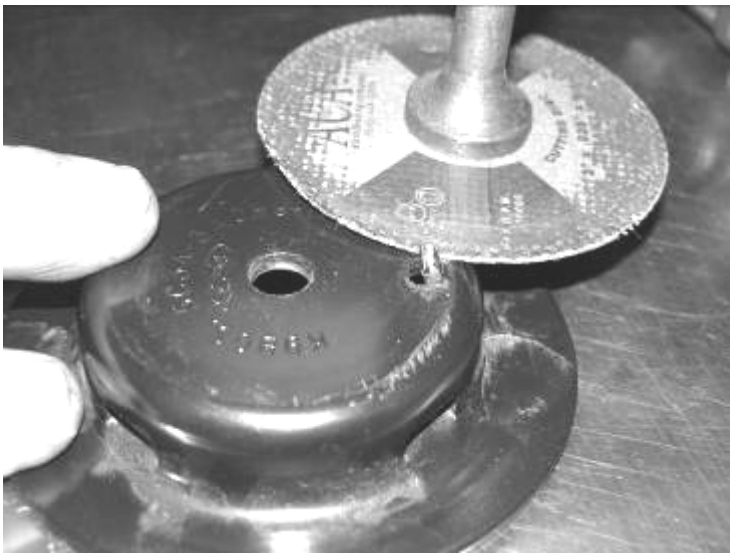


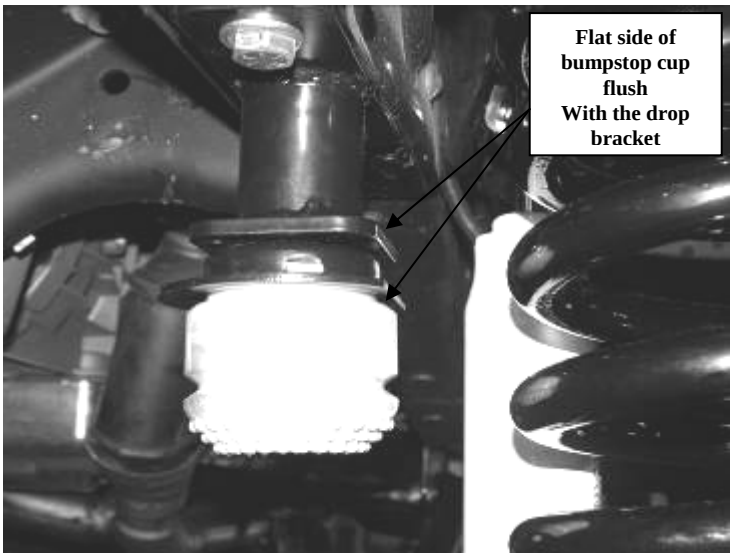


16. Repeat step fifteen on the passenger side of the truck.

17. Working from both sides of the truck, locate and remove the factory front bump stops and save. These can be removed by pulling on the bump stop itself free from the cup. Remove the factory mounting cup from the frame and discard the hardware. Locate (FT30185BK) and (FT30186BK) front bump stop drop brackets. Using a drill with a 7/16” drill bit, drill out the factory locator pin hole in the frame. Now attach the bump stop to the hole in the frame using the supplied 7/16” x 1 ½” bolt, nut, and washer. Once attached and aligned with the frame drill the second hole with the 7/16” drill bit. Attach the last hole with the supplied 7/16” x 1 ½’ hardware.

18. Locate the factory bumpstop cup and use a die grinder with a cut-off wheel to cut off the locating tab from the bottom. Attach the last hole with the supplied 7/16” x 1 ½’ hardware. Attach the factory bump stop cup to the new bracket using the supplied 5/16” x 1 ¼” bolt, flat washer, and split washer. Before tightening the bolt, align the flat part of the bumpstop cup to the flat side of the drop bracket Press the factory bump stop back into the cup. SEE PHOTOS BELOW.





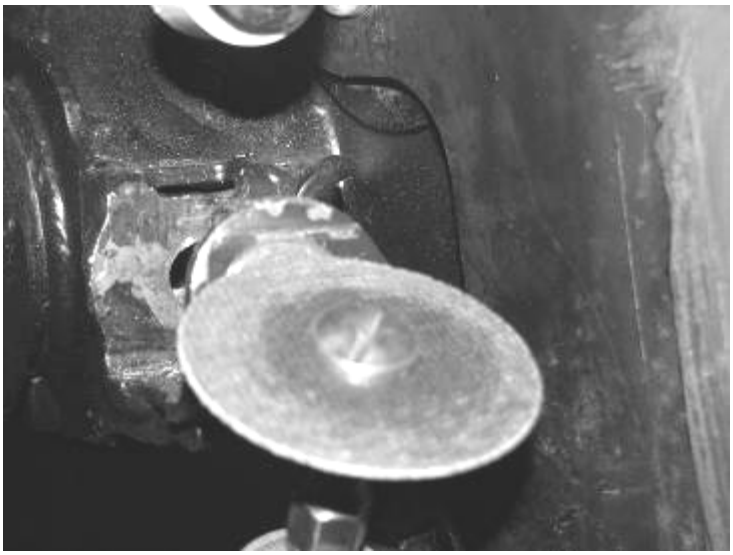
IF INSTALLING A FABTECH DUAL SHOCK KIT SEE THE INSTRUCTIONS ENCLOSED WITH THE DUAL SHOCK KIT AT THIS TIME

19. Locate FT30162 coil spacer **(SUPPLIED IN THE COIL SPRING BOX)** and place on top of the axle were the factory spring perch was mounted, place the factory spring perch on top of the new spacer. Attach the factory perch and new spacer to the axle using the supplied 14mm bolt and washer. Use a small amount of the supplied thread locking compound on the bolt. Torque to 80 ft. lbs

20. Using the coil springs from the 10” lift coil spring kit install the coil spring into the truck in the factory location using the original factory upper coil isolator. Make sure that the coil spring is seated correctly in the upper and lower mounts.

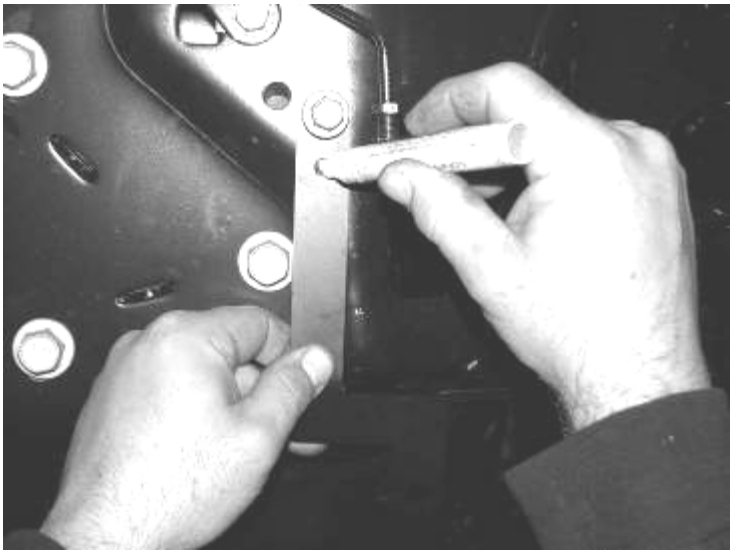
21. Using a floor jack raise the front axle enough to compress the front coils approx. 1”. Locate the correct Dirt Logic 2.25 Front Shocks FTS81064 and install onto the truck. **Note: Some shock mounts will require cutting a ¼” from the top of the factory shock tab. If required, use a die grinder with a cut-off wheel and remove the top ¼” of the tab. Sand and paint bare/ exposed metal**. SEE PHOTOS BELOW AND IN NEXT COLUMN

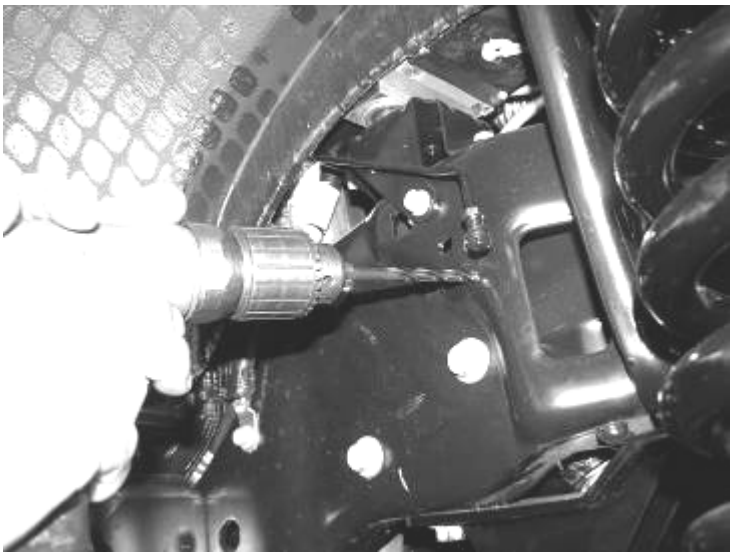
22. Using a floor jack raise the front axle enough to compress the front coils approx. 1”. Locate the correct Dirt Logic 2.25 Front Shocks FTS81064 and install onto the truck. **Note: Some shock mounts will require cutting a ¼” from the top of the factory shock tab. If required, use a die grinder with a cut-off wheel and remove the top ¼” of the tab. Sand and paint bare/ exposed metal**. SEE PHOTOS BELOW

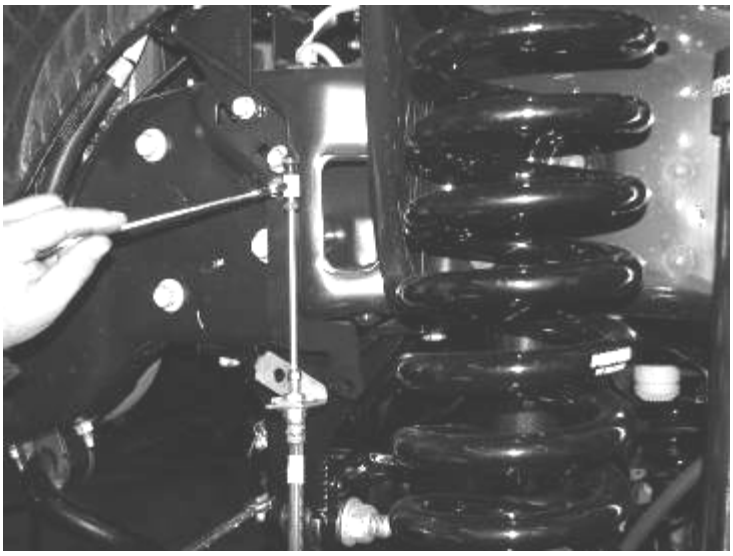


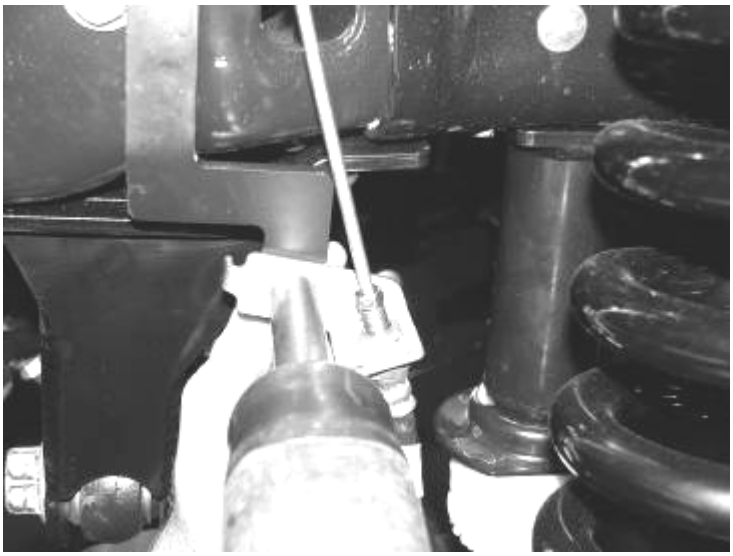
23. Torque the front and rear radius arm pivot bolts to 200 ft. lbs. **NOTE: SET THE ALIGNMENT CAMS IN THE LOWER FRONT RADIUS ARM IN THE MIDDLE OF ADJUSTMENT BEFORE TORQUING. MAKE SURE THE CAM IS SEATED INSIDE THE ALIGNMENT CAM GUIDES.**

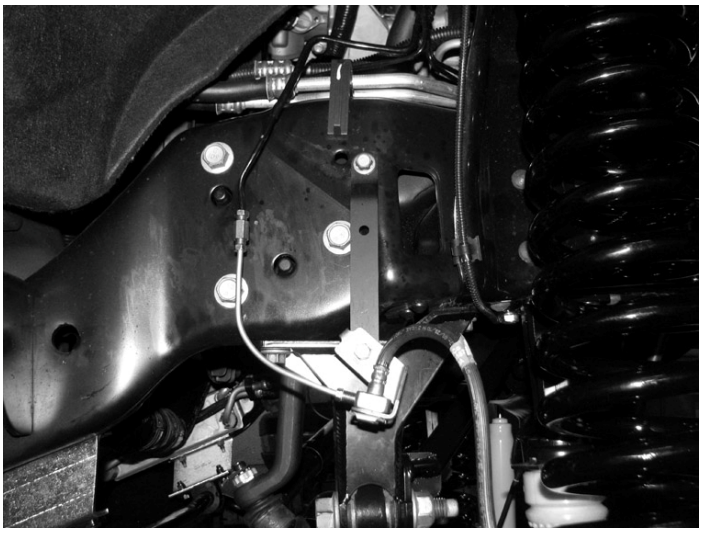
24. Locate the factory brake line mount on the front side of the frame. Remove the bracket from the frame and save the hardware. Locate FT30276 Front Brake Line Drop Bracket and attach to the coil bucket using the original hardware in the factory brake line hole. Locate the supplied 5/16" thread forming bolt. Use a drill with a 17/64th drill bit and drill the new hole from the drop bracket into the frame. Install the 5/16" bolt into the new hole. Locate FT30409 Hard Brake Line Extension and separate the factory hose from the hard line. Install the supplied FT30410 union and hard line to the factory hard line. Connect the factory hose to the new hard line. Using the supplied ¼" x 1 ¼" hardware, attach the factory brake line to the new drop bracket. You will need to carefully bend the hard line down to meet the new brake line bracket. **USE CARE NOT TO DAMAGE THE HARD LINE.** SEE PHOTOS BELOW





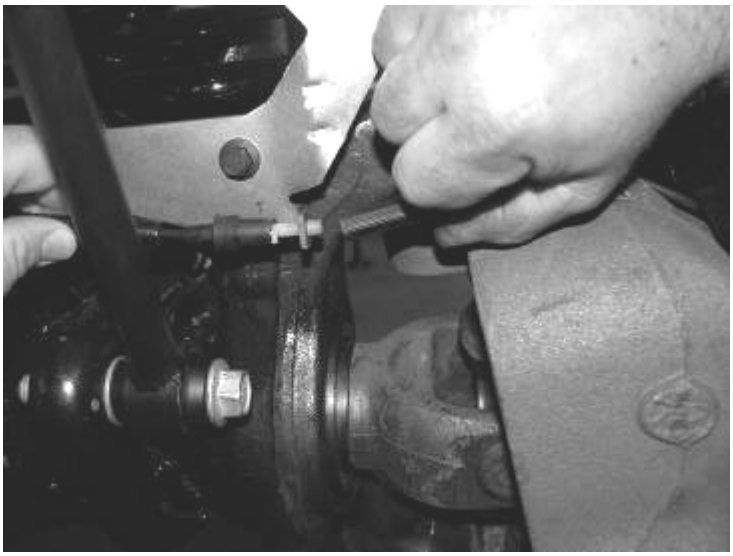


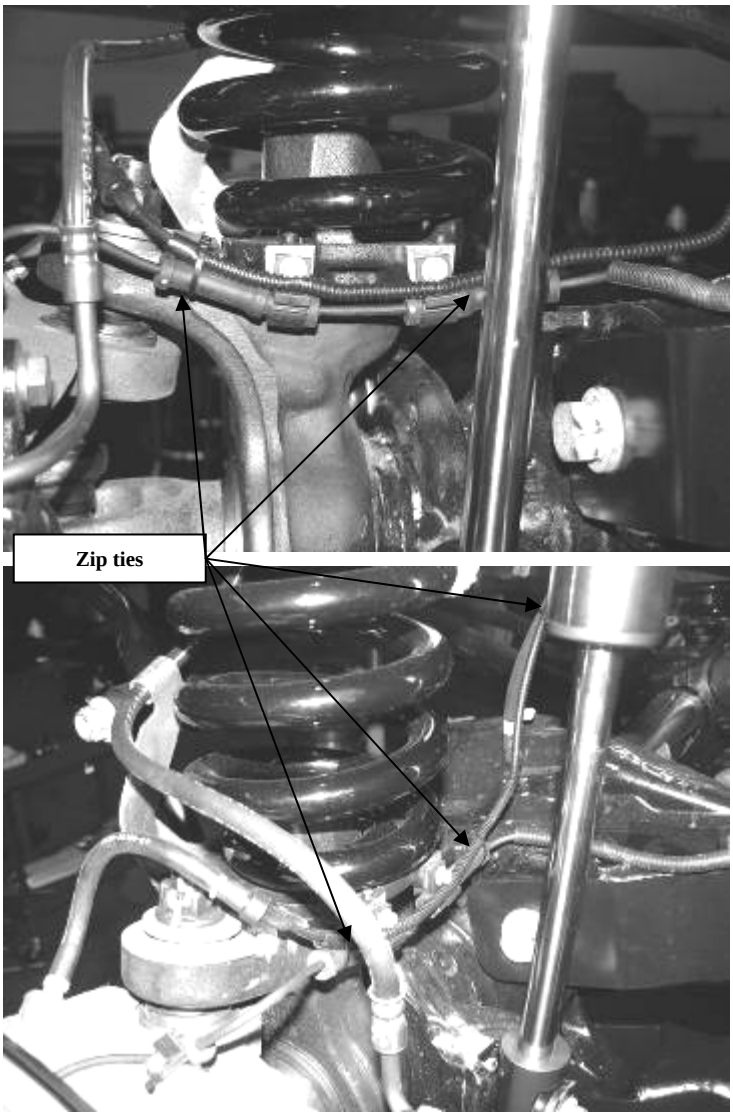




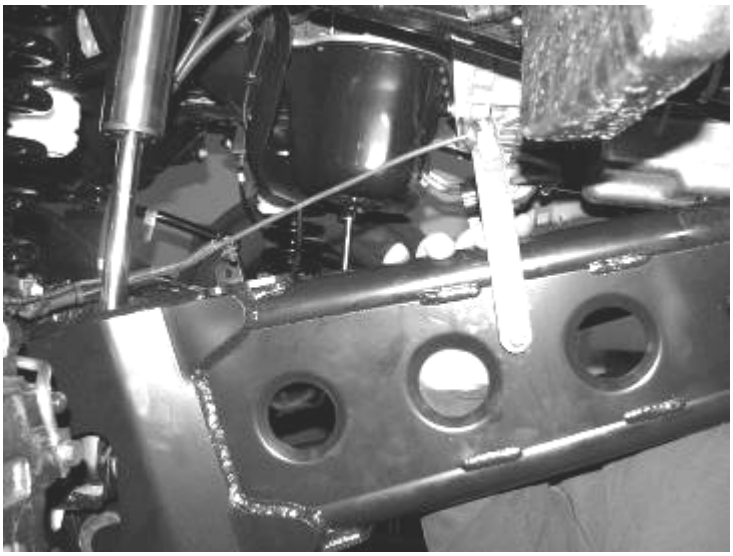
2011 Brake line bracket (FT30432) shown above

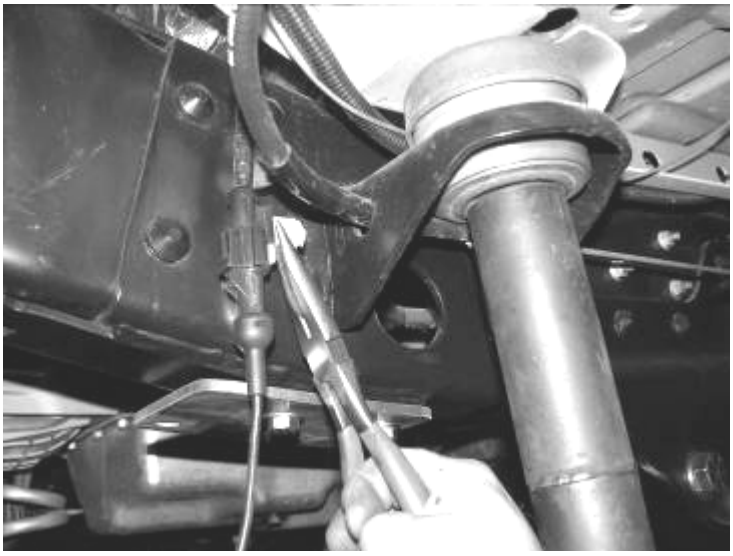
25. Working on the driver side, disconnect the four wheel drive vacuum line from the front brake line bracket and reposition and reconnect behind the coil spring mount. Follow the 4wd vacuum line up to the 120 degree connector and remove it from the line and re-connect the lines with the existing line splint. Attach the vacuum line to the ABS line at the coil mount with 2 of the supplied zip ties and attach the vacuum line to the front differential vent hose with 2 more zip ties. **(this keeps all the lines in place during suspension travel, failure to follow this step could cause ABS or 4wd failure).** SEE PHOTOS BELOW

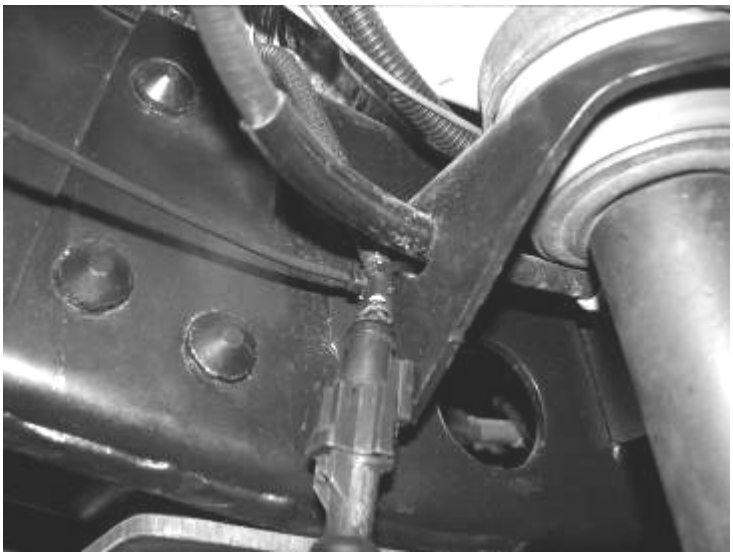




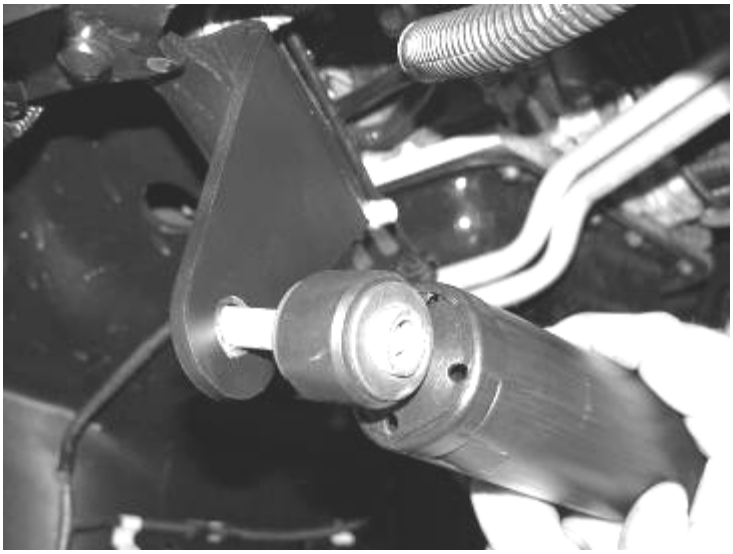
26. Locate FT30277 ABS Line Bracket, the supplied ¼" hardware, and adel clamp. Locate the hole on the radius arm and attach the line bracket to the radius arm in the middle hole. Now mark and drill the bottom hole in the line bracket to the radius arm. Install the ¼" hardware into the bottom hole. Remove the ABS socket connector from the frame and re-connect the ABS line. Install the factory front ABS mount onto the front of the radius arm. Place the provided adel clamp onto the ABS line mount (this may need to be moved) and attach to the new bracket with the supplied ¼" hardware SEE PHOTO BELOW







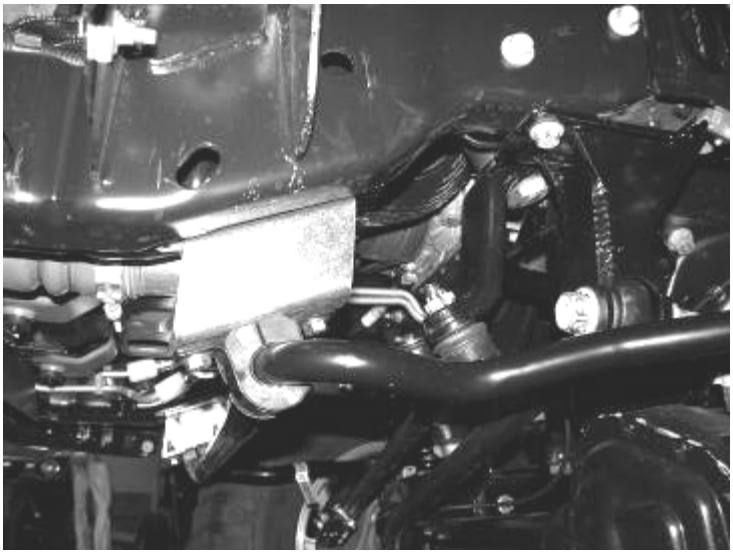
27. Locate FT30402 (08-10) or FT30583 (11-UP) steering stabilizer drop bracket and install in the factory location using the original hardware. Torque to 50 ft. lbs. Reattach the factory stabilizer to the frame bracket using the original hardware unless installing on 11-UP use supplied M12 Hardware. If installing a Fabtech stabilizer do so at this time. SEE PHOTOS BELOW



Picture Shown with Stabilizer being installed

28. Remove the front sway bar from the frame mounts and save the hardware. Locate the appropriate sway bar frame drop brackets and attach to the frame (AS SHOWN IN PHOTOS) where the sway bar was originally attached using the factory hardware. **(MOUNT THE DRIVER SIDE BRACKET ON THE PASSENGER SIDE, AND THE PASSENGER SIDE ON THE DRIVER SIDE)**

Using the supplied 7/16” X 1 ¼” hardware, attach the sway bar to the new drop brackets and torque to 35 ft. lbs. SEE PHOTOS BELOW



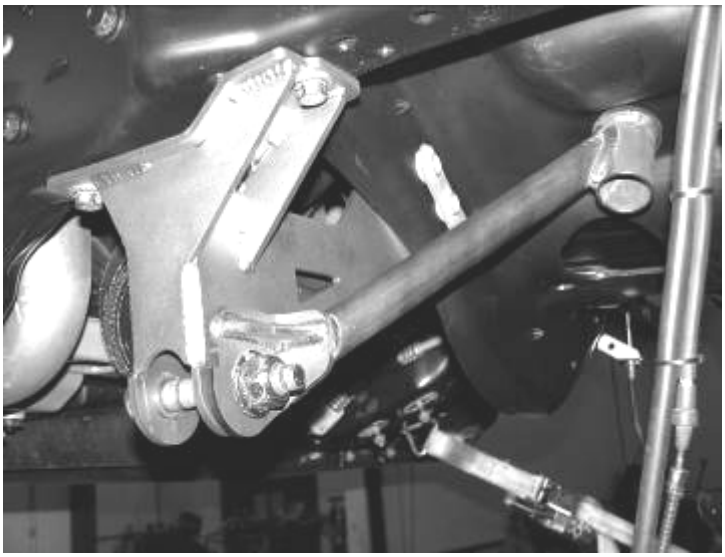
View of outer driver side frame rail

View of inner passenger side frame rail

29. Reattach the factory sway bar end links to the axle mounts using the original hardware. Torque to 40 ft. lbs.

30. Position the factory trac bar into the new trac bar bracket. Note: You may need to raise the axle up or down to align the hole. Using the original bolt insert it from the front side of the bracket towards the back. Do not push the bolt fully through at this time.

31. Locate FT30273 trac bar support bracket. First attach it to the forward motor mount bolt on the driver side of the truck, then line the other end up the trac bar bolt. Torque the factory motor mount bolt to 55 ft. lbs and the trac bar bolt to 400 ft. lbs. SEE PHOTO BELOW.



32. Refer to owner's manual for proper brake bleeding procedure.

33. Install front tires and wheels. Torque lug nuts to wheel manufacturer's specifications.

34. Re-check all front hardware at this time for correct torque tightness.

35. Check the front brake lines and ABS line at this time for proper clearance from all moving parts. You will want to steer the wheels from left to right to make sure the lines clear the wheels. Check fender to tire clearance, trim as needed. Adjust the front headlights.

36. Complete a full alignment on the truck.

37. RETORQUE ALL NUTS, BOLTS AND LUGS AFTER 500 MILES. Re-adjust headlights.

REAR LIFT

SEE THE INSTRUCTIONS ENCLOSED IN THE REAR LIFT BOX KIT.

RETORQUE ALL NUTS, BOLTS AND LUGS AFTER 50 MILES AND PERIODICALLY THEREAFTER.

For technical assistance call: 909-597-7800

Product Warranty and Warnings-

Fabtech provides a Limited Lifetime Warranty to the original retail purchaser who owns the vehicle, on which the product was originally installed, for defects in workmanship and materials.

The Limited Lifetime Warranty excludes the following Fabtech items; bushings, bump stops, ball joints, tie rod ends, limiting straps, cross shafts, heim joints. These parts are subject to wear and are not considered defective when worn. They are warranted for 60 days from the date of purchase for defects in workmanship.

Take apart shocks are considered a serviceable shock with a one year warranty on leakage only. Service seal kits are available separately for future maintenance. All other shocks are covered under our Limited Lifetime Warranty.

Fabtech does not warrant any product for finish, alterations, modifications and/or installation contrary to Fabtech's instructions. Alterations to the finish of the parts including but not limited to painting, powdercoating, plating and/or welding will void all warranties. Some finish damage may occur to parts during shipping which is considered normal and is not covered under warranty.

Fabtech products are not designed nor intended to be installed on vehicles used in race applications or for racing purposes or for similar activities. (A "RACE" is defined as any contest between two or more vehicles, or any contest of one or more vehicle against the clock, whether or not such contest is for a prize). This warranty does not include coverage for police or taxi vehicles, race vehicles, or vehicles used for government or commercial purposes. Also excluded from this warranty are sales outside of the United States of America.

Installation of most suspension products will raise the center of gravity of the vehicle and will cause the vehicle to handle differently than stock. It may increase the vehicle's susceptibility to a rollover, on road and off road, at all speeds. Extreme care should be taken to operate the vehicle safely at all times to prevent rollover or loss of control resulting in serious injury or death. Fabtech front end Desert Guards may impair the deployment or operation of vehicles equipped with supplemental restraining systems/air bag systems and should not be installed if the vehicle is equipped as so.

Fabtech makes every effort to ensure suspension product compatibility with all vehicles listed in the catalog, but due to unknown auto manufacturers production changes and/or inconstancies by the auto manufacturer, Fabtech cannot be responsible for 100% compatibility, including the fitment of tire and wheel sizes listed. The Tire and Wheel sizes listed in Fabtech's catalog are only a guideline for street driving with noted fender trimming. Fabtech is not responsible for damages to the vehicle's body or tires.

Fabtech's obligation under this warranty is limited to the repair or replacement, at Fabtech option, of the defective product only. All costs of removal, installation or re-installation, freight charges, incidental or consequential damages are expressly excluded from this warranty. Fabtech is not responsible for damages and/or warranty of other vehicle parts related or non related to the installed Fabtech product. This warranty is expressly in lieu of all other warranties expressed or implied. This warranty shall not apply to any product that has been subject to accident, negligence, alteration, abuse or misuse as determined by Fabtech.

Fabtech suspension components must be installed as a complete system including shocks as shown in our current catalog. All warranties will become void if Fabtech parts are combined and/or substituted with other aftermarket suspension products. Combination and/or substitution of other aftermarket suspension parts may cause premature wear and/or product failure resulting in an accident causing injury or death. Fabtech does not warrant products not manufactured by Fabtech.

Installation of Fabtech product may void the vehicles factory warranty; it is the consumer's responsibility to check with their local vehicle's dealer for warranty disposition before the installation of the product.

It is the responsibility of the distributor and/or the retailer to review all warranties and warnings of Fabtech products with the consumer prior to purchase.

Fabtech reserves the right to supercede, discontinue, change the design, finish, part number and, or application of parts when deemed necessary without written notice. Fabtech is not responsible for misprints or typographical errors within the catalog or price sheet.