



4331 EUCALYPTUS AVE. ~~ CHINO, CA 91710
909-597-7800 Fax 909-597-7185
2008-2011 FORD F-250/350 SUPER DUTY 4WD
FTS22092BK & FTS22093BK
10" 4 LINK SYSTEM



FTS22092BK & FTS22093BK
10" 4 LINK BOX KITS

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10" 4 LINK KIT**

FTS22092BK 4 Link Kit 10" Box 1		
Qua	Part #	Description
1	FT30128BK	Upper Link Driver
1	FT30137BK	Upper Link Passenger
2	FT30129BK	Lower Link D/P
1	FT30185BK	Frnt. Bmpstp Drop Driver
1	FT30186BK	Frnt. Bmpstp Drop Pass.
1	FT30308	Hdwr Sub-Assembly Kit
1	FT30402	Steering Stabilizer Drop
1	FT3400-112P	Sway Bar Drp Brkt Drv.
1	FT3400-112D	Sway Bar Drp Brkt Pass.

FT30308 Hdwr Sub-Assembly Kit		
Qua	Part #	Description
8	FT103	Mis-Alignments for Links
1	FT292	Cam Bolt
2	FT30409	8" Brake Hard Line
2	FT30410	Brake Line Union
2	FT30276	Frnt. Brake line Bracket
2	FT22092i	Instruction Sheet
1	FTAS12	Decal
1	FTREGCAR D	Registration Card
1	FTAS16	Driver Warning

FTS22093BK 4 Link Kit 10" Box 2		
Qua	Part #	Description
1	FT30268BK	Driver 4 Link Frame Brkt
1	FT30269BK	Pass. 4 Link Frame Brkt
1	FT30304BK	Trac Bar Drop Brkt 10"
1	FT30305BK	Trac Bar Sprt Tube 10"
1	FT30286	Hardware Kit (4 link)
1	FT30306	Hardware Kit (10 inch)
1	FT30122	Pitman Arm
1	FT30258	Sector Shaft Nut

FTS22081BK 10" Coil Spring Box		
Qua	Part #	Description
2	FT30124BK	8" Lift Coil Spring
2	FT30162	Spring Spacer

FT30286 Hardware Kit -		
Qua	Description	Location
4	3/4"-10 x 1 1/2" Bolt	Link Frame Bracket
4	3/4"-10 x 4 1/2" Bolt	Links to Bracket
8	3/4"-10 C-Lock Nut	
16	3/4" Flat Washer	
4	7/16"-14 x 1 1/4" bolt	Sway Bar Drop Bracket
4	7/16"-14 C-Lock Nut	
8	7/16" SAE Flat Washer	
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 Fmg Blt	
2	5/16"-18 x 1 1/4" Bolt	Bump Stop Center
2	5/16" SAE Flat Washer	
2	5/16" Split Washer	
4	7/16"-14 x 1 1/2" Bolt	Bump Stop Drp Brkt
4	7/16"-14 Nyloc Nut	
8	7/16" SAE Flat Washer	
2	5/16"-18 x 1" Bolt	ABS @ Link Arm
2	5/16"-18 C-Lock Nut	
4	5/16" SAE Flat Washer	
1	1/8" x 2" Cotter Pin	Drag Link
2	Lock Tight	
7	8" Zip Ties	4wd & ABS Lines

FT30306 Hardware Kit -		
Qua	Description	Location
4	3/4" -10 x 5" Hex Bolt	Frame Bracket
4	3/4"-10 C-Lock Nut	
8	3/4" SAE Flat Washer	
2	14mm-2.0 x 100MM	Lower Coil Perch
2	14mm Flat Washer	

READ BEFORE BEGINNING INSTALLATION

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.

VEHICLES THAT WILL RECEIVE OVERSIZED TIRES SHOULD CHECK BALL JOINTS, TIE RODS ENDS AND IDLER ARM EVERY 2500-5000 MILES FOR WEAR AND REPLACE AS NEEDED

DO NOT ALTER THE FINISH OF THESE COMPONENTS, EXAMPLE- CHROMING, ZINC PLATING OR PAINTING. CHANGING THE FINISH CAN CAUSE STRUCTURAL FATIGUE OF COMPONENTS

CHECK THE FACTORY PITMAN ARM SPLINE ORIENTATION WITH THE SUPPLIED PITMAN ARM BEFORE BEGINING INSTALLATION. SEE STEP NINE FOR MORE INFORMATION

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 1/2" BACK SPACING w/ minor trimming

SEE FABTECH'S CATALOG FTC2007 FOR OPTIONAL WHEEL & TIRE SIZES

TOOL LIST:

- FLOOR JACK
- JACK STANDS
- ASSORTED METRIC & S.A.E. WRENCHES & SOCKETS
- WHITE LITHIUM GREASE
- TORQUE WRENCH
- DRILL W/ ASSORTED BITS
- PITMAN ARM PULLER or 2 JAW PULLER
- DIE GRINDER w/ CUT-OFF WHEEL & SANDING DISCS

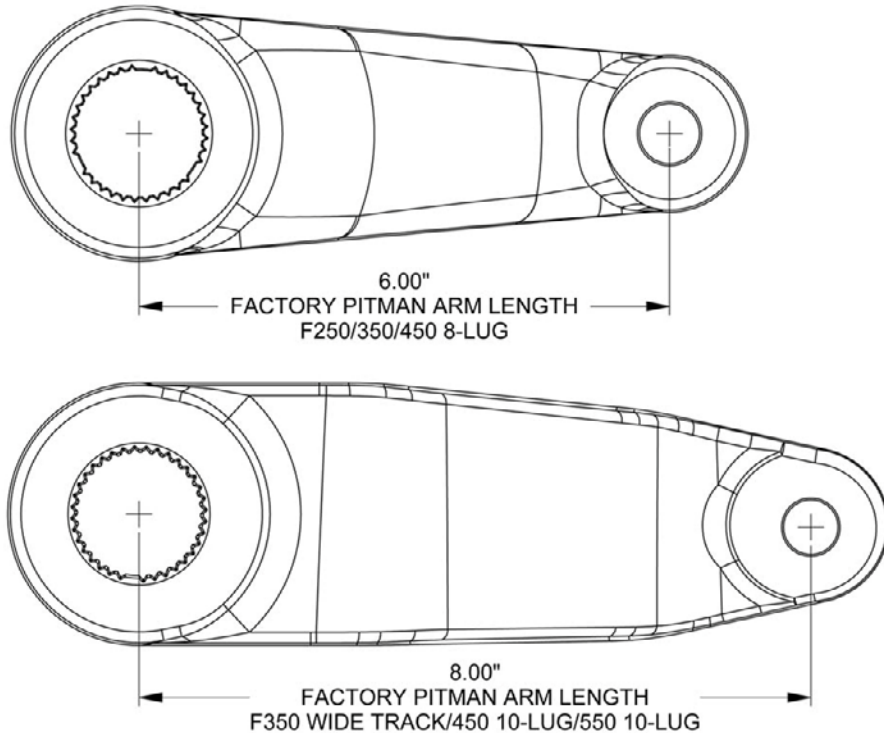
AVALIABLE OPTIONS:

FTS22094BK Coilover Hoop Conversion
FTS83501 4.0 Coil Over Dirt Logic Shock 10" Lift
FTS22051 Dirt Logic Dual Steering Stabilizer System
FTS22116 Dirt Logic Dual Steering Stabilizer System w/ Resi's
FTS8023 Standard Body Dual Steering Stabilizer System

See Fabtech's Master catalog for specific details and application.

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. 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.
4. 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.
5. 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.

6. 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.



7. 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!

8. 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.



9. Remove the factory pitman arm from the steering box using a large pitman arm puller or large two-jaw puller. Discard the hardware and the pitman arm (**do not re-use the factory sector shaft nut**). SEE PHOTO BELOW.



10. 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)**
11. Locate FT30304 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.**

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 pivot bolts and nut from the axle mounts.
13. Locate FT30268 Driver side frame bracket. Place the bracket into the stock radius arm frame pocket. Using the supplied $\frac{3}{4}$ " x 5" bolts, nuts, and washer attach the bracket to the frame through the rearward two holes. Torque to 110 ft. lbs. SEE PHOTO BELOW

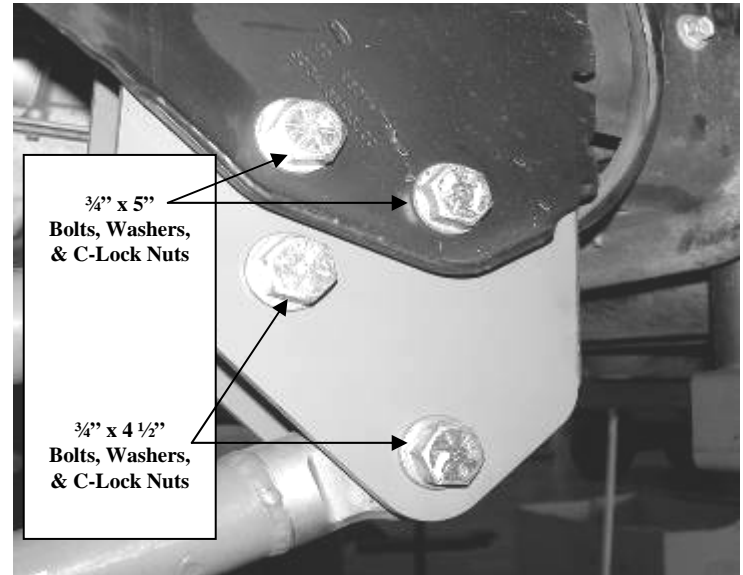
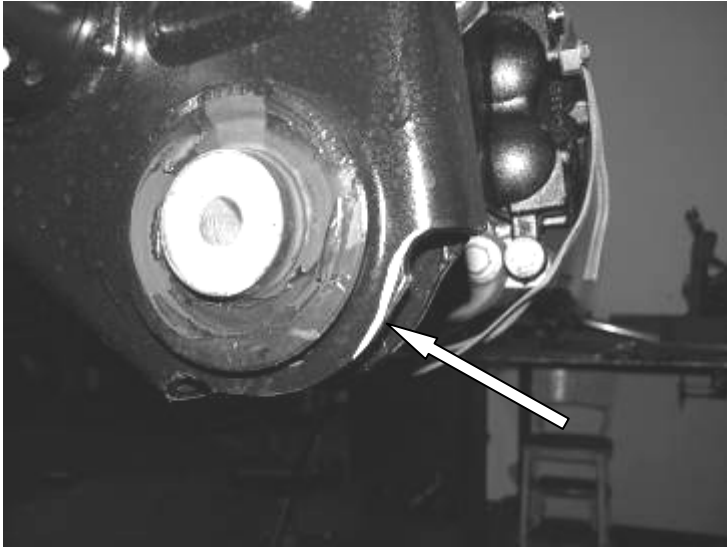
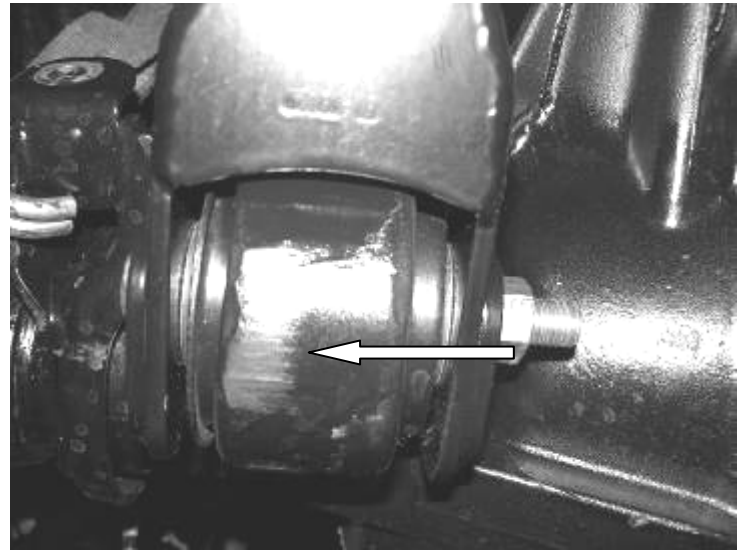


Photo shows links already installed, do not install until step #16

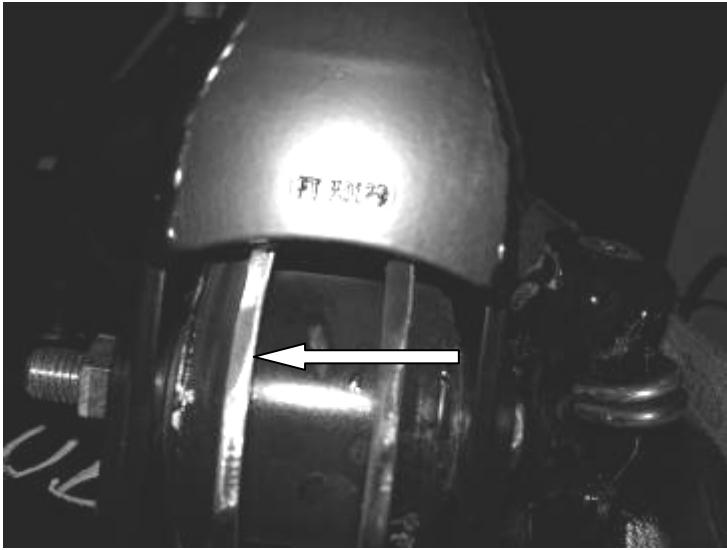
14. Repeat step thirteen on the passenger side of the truck.
15. Locate FT30128 upper driver side link arm. Using the original bolt attach it to the upper mount on the axle. Leave loose at this time. Locate two FT103 Mis-Alignments and insert one into each side of the bearing at the other end of the link arm. Using the supplied $\frac{3}{4}$ " x 4 $\frac{1}{2}$ " bolt, nuts, and washers attach the bearing end of the link arm to the upper hole in the new frame bracket. Leave loose at this time. **Repeat on the passenger side at this time using FT30137 passenger upper link.**
16. Locate FT30129 Lower link arm and attach it to the factory lower axle mount on the driver side using the supplied FT292 alignment cam hardware and leave it loose at this time. When setting the cam up in the lower link arm put the lobe of the cam forward on the 10" kit. Locate two FT103 Mis-Alignments and insert one into each side of the bearing at the other end of the link arm. Using the supplied $\frac{3}{4}$ " x 4 $\frac{1}{2}$ " bolt, nut, and washers attach the bearing end of the link arm with the mis-alignments to the lower hole in the new frame bracket. **Repeat on the passenger side at this time. NOTE: Some axle housings may have to be sanded for proper clearance of the lower link arms. Use a grinder and remove ONLY the material needed for proper fitment of the lower link arms. SEE PHOTOS BELOW**



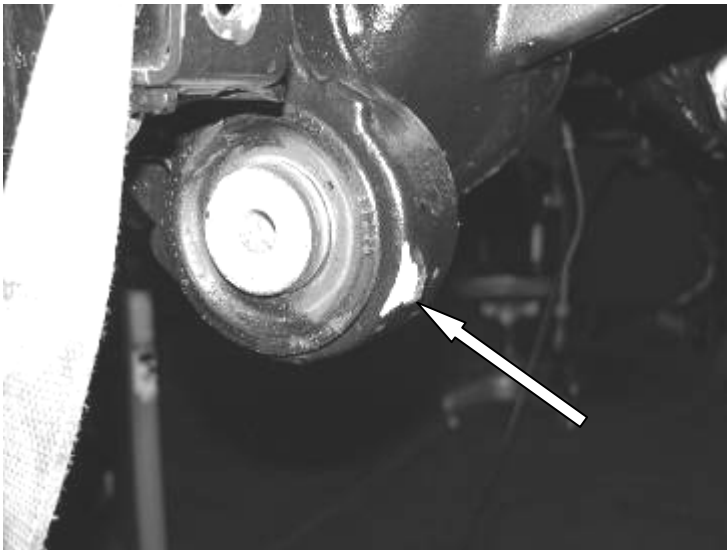
Passenger side before grinding



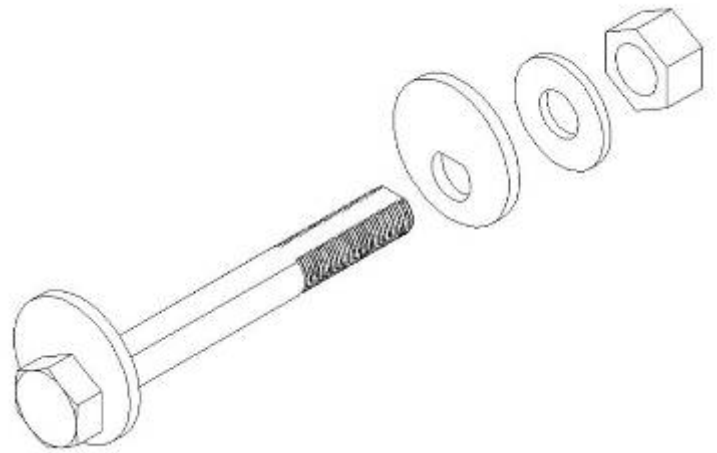
Driver side after grinding



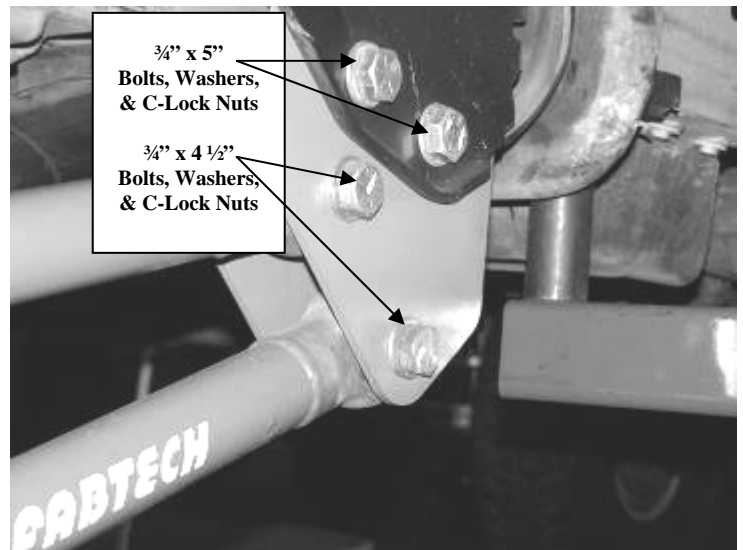
Passenger side after grinding



Driver side before grinding



Assembly of the FT292 Alignment Cam



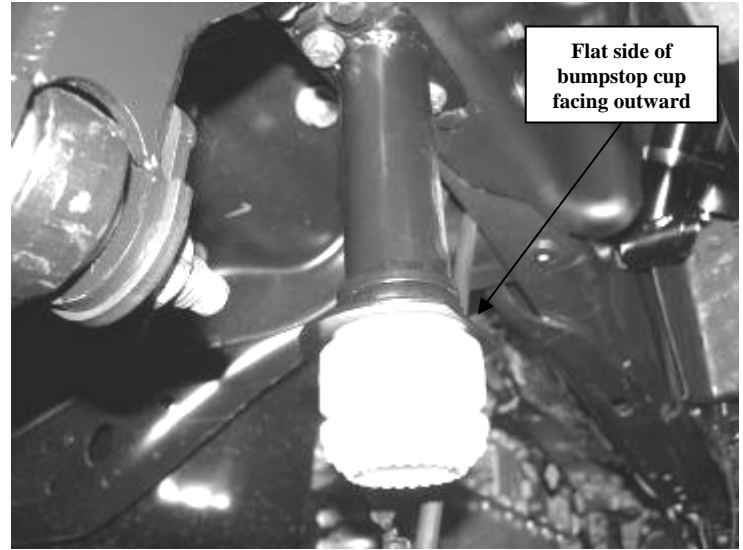
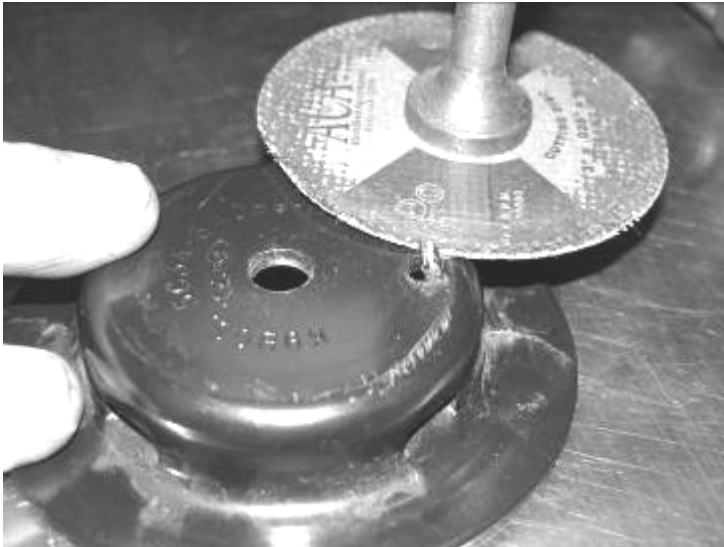
3/4" x 5"
 Bolts, Washers,
 & C-Lock Nuts

 3/4" x 4 1/2"
 Bolts, Washers,
 & C-Lock Nuts

**IF INSTALLING A FABTECH COILOVER
CONVERSION KIT SEE THE INSTRUCTIONS
ENCLOSED WITH THE HOOP KIT AT THIS TIME**

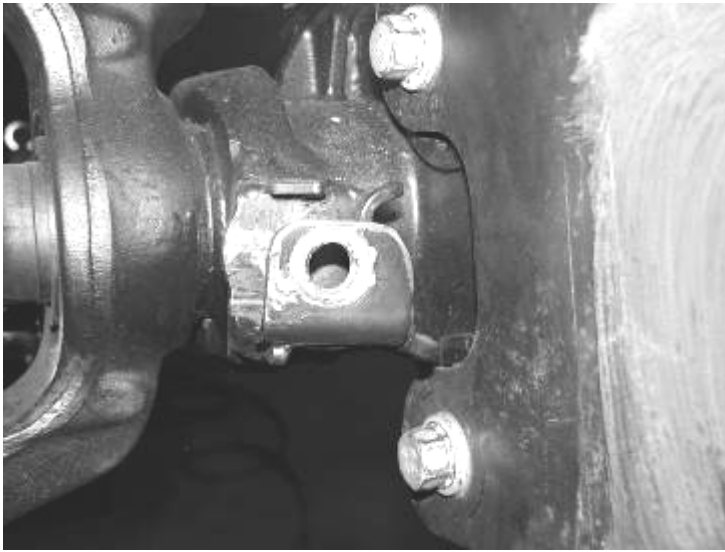
**IF INSTALLING A FABTECH DUAL SHOCK KIT SEE
THE INSTRUCTIONS ENCLOSED WITH THE DUAL
SHOCK KIT AT THIS TIME**

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 FT30185 Drv. Side 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 1/2" bolt, nut, and washer. Once attached and aligned with the frame drill the second hole with the 7/16" drill bit. Locate FT30144 Pass. side and center on the bottom of the frame between the factory rivets. (Pass. side does not have a locating hole). Mark the two holes from the new bracket to the frame and drill the two holes. Attach the bracket to the frame with the supplied 7/16" 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 1/2" hardware. Attach the factory bump stop cup to the new bracket using the supplied 5/16" x 1 1/4" bolt, flat washer, and split washer. Before tightening the bolt, align the flat part of the bumpstop cup so it faces outward toward the coil spring. Press the factory bump stop back into the cup. SEE PHOTOS BELOW



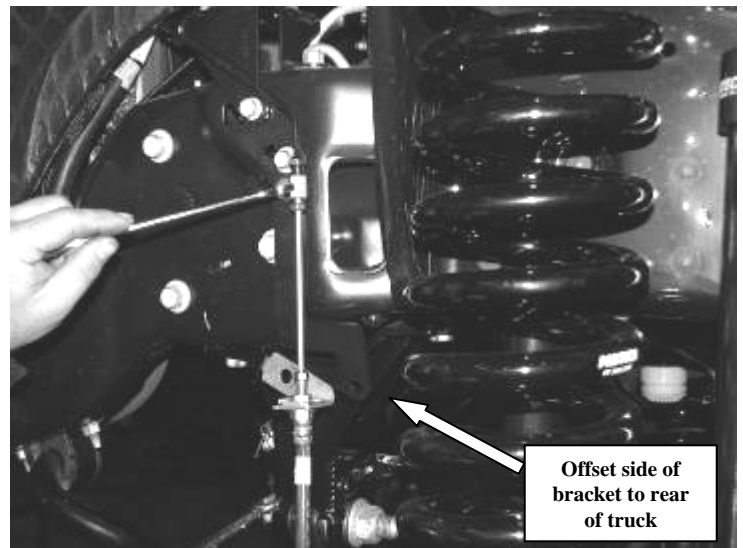
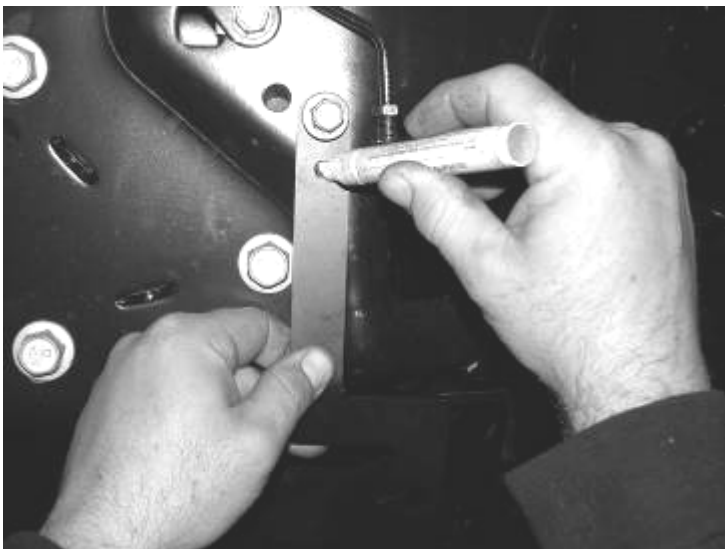
19. Remove the factory lower spring perch from the axle and discard the original hardware
20. Locate FT30162 coil spacer (**SUPPLIED IN THE COIL SPRING BOX**) and place on top of the axle where the factory spring perch was mounted, place the factory spring perch on top of the new spacer. Attach the factory 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
21. 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.
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 1/4" from the top of the factory shock tab. If required, use a die grinder with a cut-off wheel and remove the top 1/4" of the tab. Sand and paint bare/ exposed metal. SEE PHOTOS BELOW**



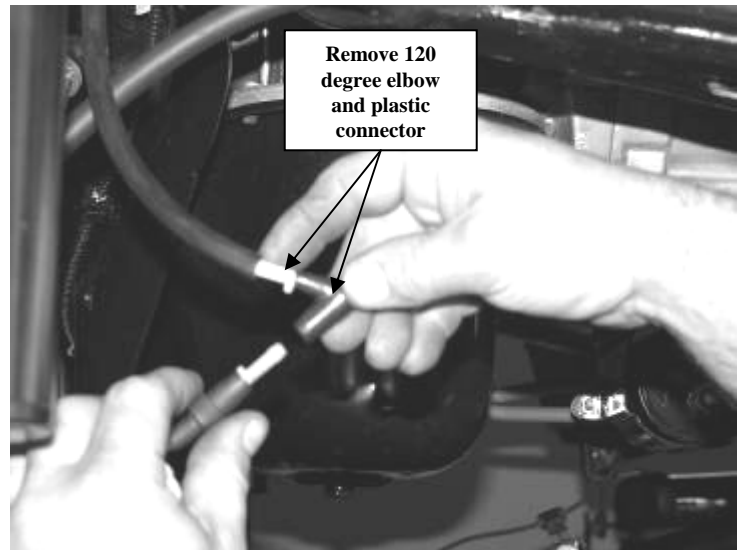
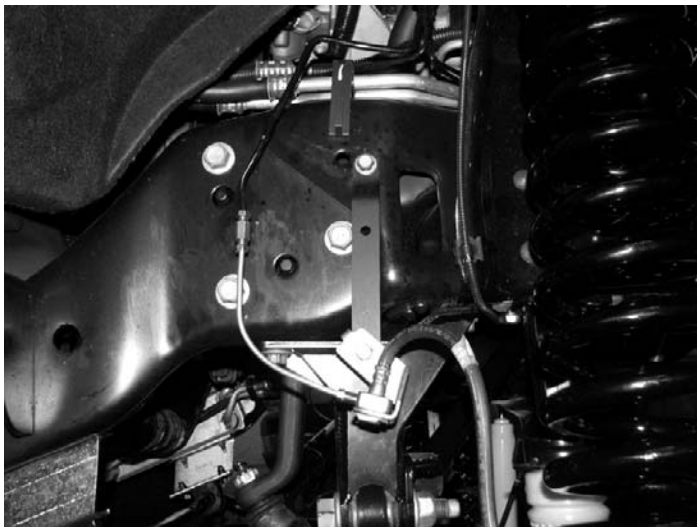
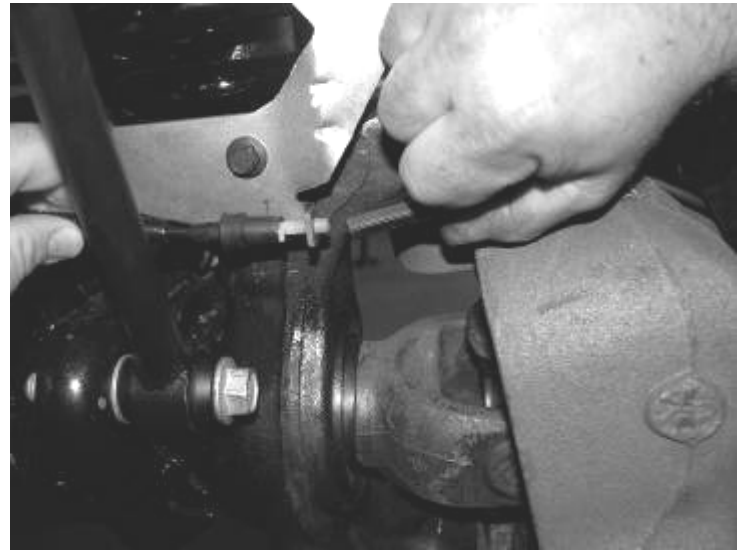
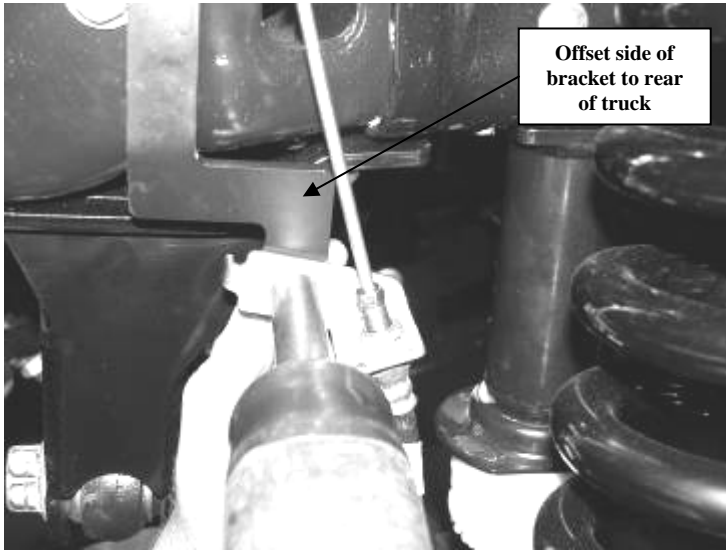


23. Torque the front and rear radius arm pivot bolts to 200 ft. lbs. **NOTE: SET THE ALIGNMENT CAMS IN THE LOWER FRONT RADIUS ARM IN THE MIDDLE OF ADJUSTMENT BEFORE TORQUING. MAKE SURE THE CAM IS SEATED INSIDE THE ALIGNMENT CAM GUIDES.**

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 frame with the offset of the bracket facing rearward 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 5/16" 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 PHOTO BELOW

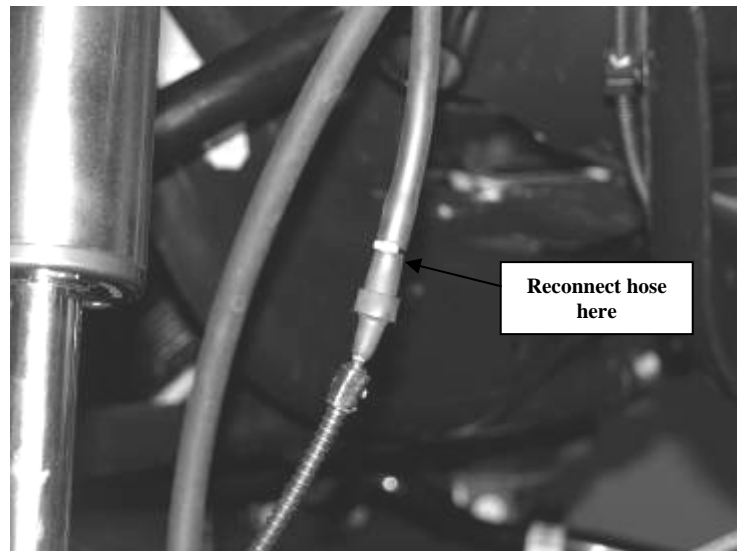


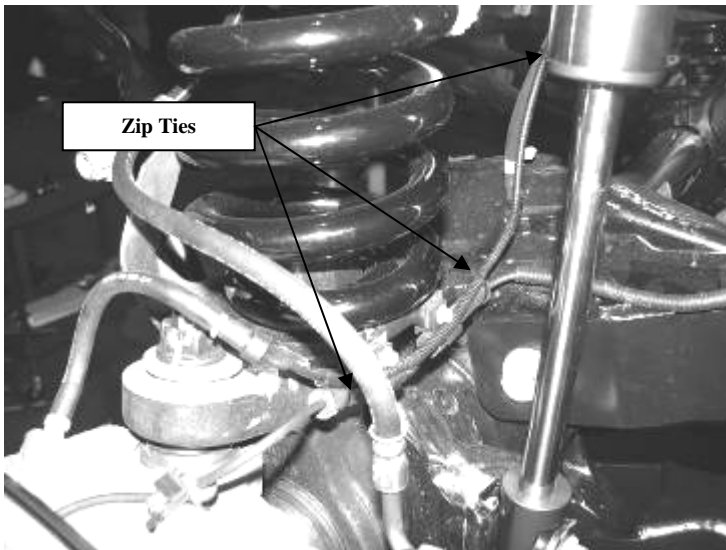
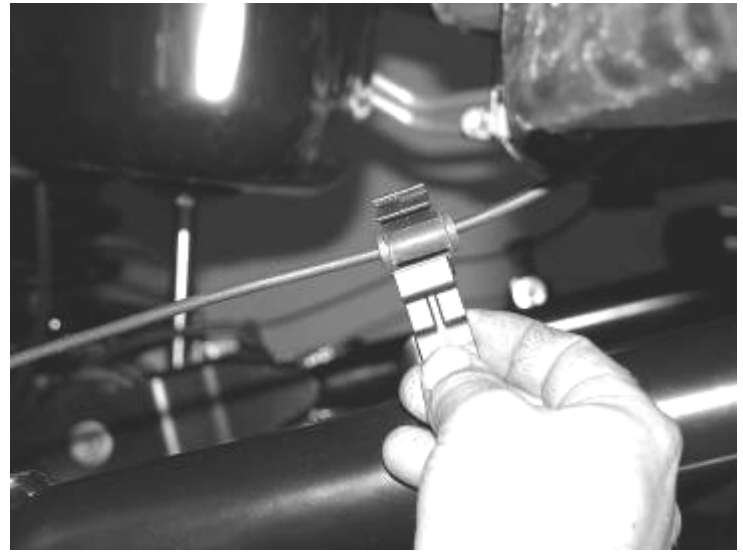
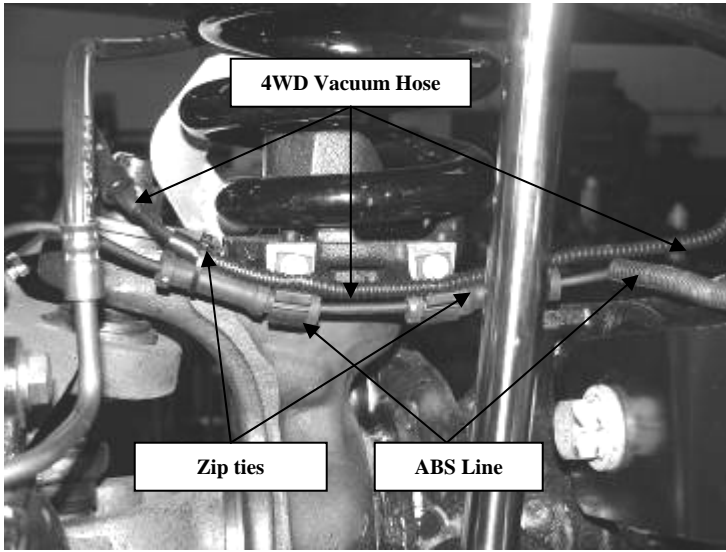
Offset side of
bracket to rear
of truck



2011 Brake line bracket (FT30432) shown above

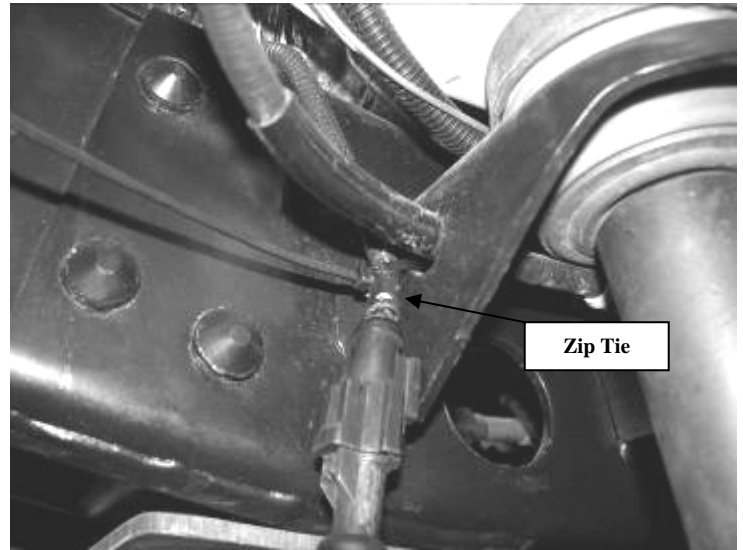
25. Working on the driver side, disconnect the four wheel drive vacuum line from the front brake line bracket and reposition and reconnect behind the coil spring mount. Follow the 4wd vacuum line up to the 120 degree connector and remove it from the line and re-connect the lines with the existing line 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 and / or 4wd failure).** SEE PHOTOS BELOW



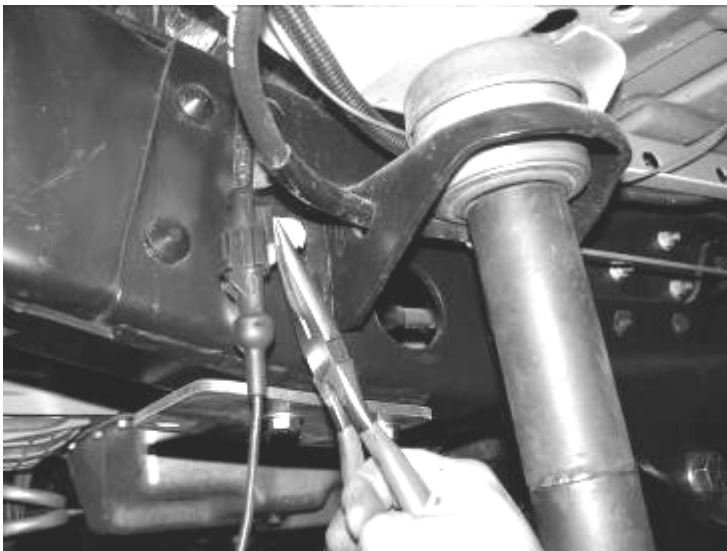


26. Locate stock plastic ABS Line Bracket and the supplied 5/16" hardware. Remove the ABS line from the plastic bracket and use a die grinder with a sanding disc and sand the face of the bracket so that it is flat. Position the bracket on the upper link arm tab and mark the bracket at the hole in the tab. Use a drill with a 5/16" drill bit and drill a hole into the plastic bracket. Use the supplied 5/16" hardware and attach the plastic bracket to the link arm. 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 link arm and the ABS line mount back into the plastic bracket (this may need to be moved). SEE PHOTOS BELOW





27. Locate FT30402 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. If installing a Fabtech stabilizer do so at this time. SEE PHOTOS BELOW.



Picture Shown with Factory Stabilizer re-installed



28. Remove the front sway bar from the frame mounts and save the hardware. Locate FT3400-110D & P 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 (FT3400-110d) ON THE PASSENGER SIDE, AND THE PASSENGER SIDE (FT3400-110p) ON THE DRIVER SIDE.** Using the supplied 7/16" X 1 1/4" hardware, attach the sway bar to the new drop brackets. Reattach the factory sway bar end links to the axle mounts using the original hardware (**Torque to 40 ft. lbs. once the truck is on the ground; do not tighten while the suspension is in the air**). The new drop brackets are slotted at both mounting points. For the 10" lift, position the frame mount and sway bar all the way rearward toward the back of the truck and torque to 35 ft. lbs. SEE PHOTOS BELOW



View of outer driver side frame rail



View of inner passenger side frame rail

29. 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.
30. Locate FT30305 trac bar support bracket. First attach it to the forward motor mount bolt on the driver side of the truck, and 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 PHOTOBELOW



31. Refer to owner's manual for proper brake bleeding procedure
32. Install front tires and wheels. Torque lug nuts to wheel manufacturer's specifications.
33. Re-check all front hardware at this time for correct torque tightness. Torque the sway bar hardware and endlinks at this time
34. 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.
35. Complete a full alignment on the truck.
36. **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 manufacturer's production changes and/or inconsistencies 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.