



FTS22139
4" / 6" & 8" RADIUS ARM BOX
KIT

2008-2016 FORD F-250/350 SUPER DUTY 4WD

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909-597-7800 Fax 909-597-7185



**2008 – 2016 FORD F-250/350 SUPER DUTY
4WD FTS22139
4", 6" & 8" RADIUS ARM KIT**

| FTS22139 Radius Arm Box Kit | | |
|------------------------------------|-------------|--------------------------------|
| Qty | Part # | Description |
| 1 | FT30125BK | Radius Arm Driver |
| 1 | FT30126BK | Radius Arm Pass |
| 1 | FT30122 | Pitman Arm |
| 1 | FT30143BK | Frnt. Bumpstop Drop Driver |
| 1 | FT30144BK | Frnt. Bumpstop Drop Pass |
| 1 | FT30402 | Steering Stabilizer Drop 08-10 |
| 1 | FT3400-112P | Sway Bar Drop Driver 08-14 |
| 1 | FT3400-112D | Sway Bar Drop Pass. 08-14 |
| 1 | FT30373BK | Trac Bar Drop Bracket |
| 1 | FT30273BK | Trac Bar Support Tube |
| 1 | FT30434 | Hdwr Sub-Assembly |
| | | |
| 1 | FT30287 | Hardware Kit (radius arm) |
| 1 | FT30583BK | Steering Stabilizer Drop 11-UP |
| 1 | FT30630 | Sway Bar Drop Driver 15-UP |
| 1 | FT30629 | Sway Bar Drop Pass 15-UP |

| FT30434 Hdwr Sub-Assembly Kit | | |
|--------------------------------------|-----------|--------------------------|
| Qty | Part # | Description |
| 4 | FT1006 | Bushing |
| 2 | FT102 | Sleeve |
| 2 | FT30409 | Brake Line |
| 2 | FT30410 | Brake Line Union |
| 2 | FT30432 | Brake line Bracket 2011 |
| 1 | FT30059 | Brake line Bracket |
| 2 | FT30276 | Frnt. Brake line Bracket |
| 1 | FT30258 | Sector Shaft Nut |
| 1 | FT292 | Alignment Cam Half Kit |
| 1 | FTLUBE | Lube |
| 2 | FT22139i | Instruction Sheet |
| 1 | FTREGCARD | Reg. Card |
| 1 | FTAS12 | Fabtech Sticker |
| 2 | FT30277 | ABS Bracket @ Radius Arm |

| FT30287 Hardware Kit | | |
|-----------------------------|-----------------------------|---------------------|
| Qty | Description | Location |
| 2 | 5/16"-18 x 1 1/4" Bolt | Brake Line Bracket |
| 2 | 5/16"-18 Nylock Nut | |
| 4 | 5/16" SAE Flat Washer | |
| 2 | 5/16"-18 x 1" Thd 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 | |
| 4 | 7/16"-14 x 1 1/2" Bolt | Bump Stop |
| 4 | 7/16"-14 Nylock 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 | |
| 7 | 8" Zip Ties | 4wd & ABS Lines |
| 1 | M12-1.75 X 70MM Bolt | Steering Stabilizer |
| 2 | M12 SAE Flat Washer | |
| 1 | M12-1.75 C-Lock Nut | |

TOOL LIST:

- FLOOR JACK
- JACK STANDS
- ASSORTED METRIC AND S. A. E. WRENCHES AND SOCKETS
- WHITE LITHIUM GREASE
- TORQUE WRENCH
- DIE GRINDER WITH A CUTOFF WHEEL

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.

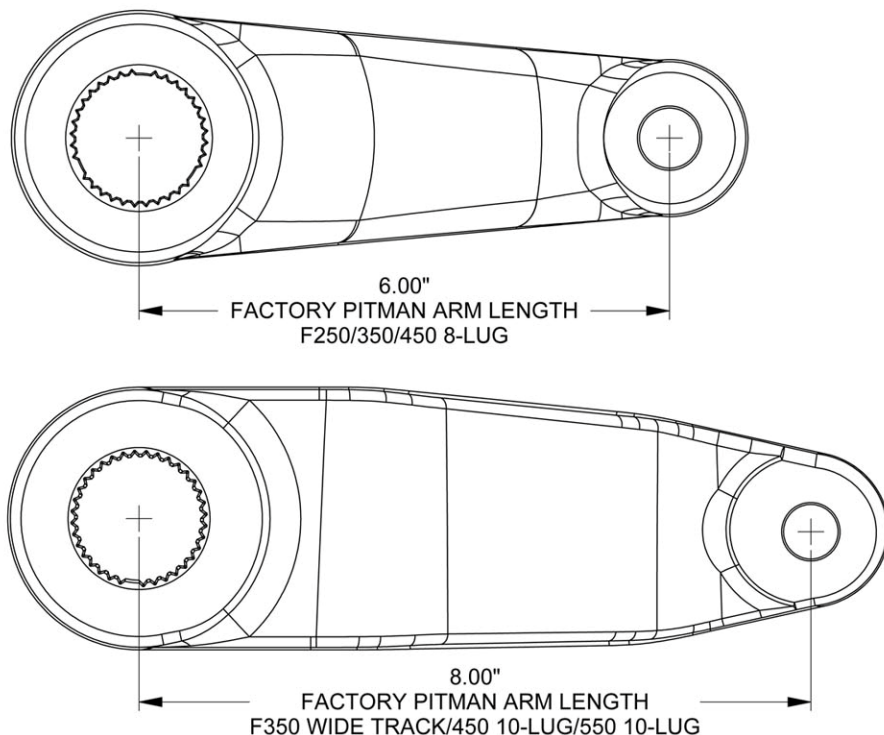
FABTECH RECOMMENDS THE FOLLOWING TIRE SIZES FOR USE WITH THIS KIT:

4" & 6" LIFT- 325/65R18 TIRES W/ 18X9.5 WHEELS W/ 4 3/4" BACK SPACING

8" LIFT- 355/65R18 TIRES W/ 18X9.5 WHEELS W/ 4 3/4" BACK SPACING

Fabtech suspension systems when used on "Gas engine" trucks may 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. Contact Fabtech for additional information.

****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 use a two jaw puller to remove drag link from the pitman arm. **USE CARE NOT TO DAMAGE 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**

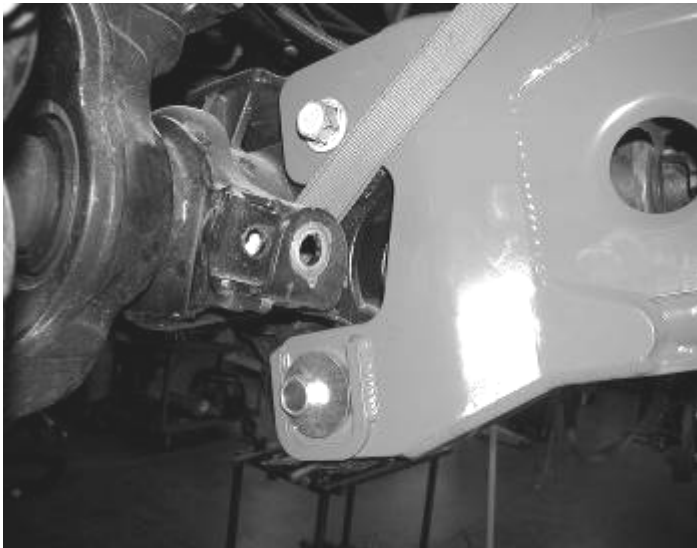


9. Remove the factory pitman arm from the steering box using a large pitman arm puller or large two-jaw puller. Discard the hardware and the pitman arm. **SEE PHOTO BELOW.**



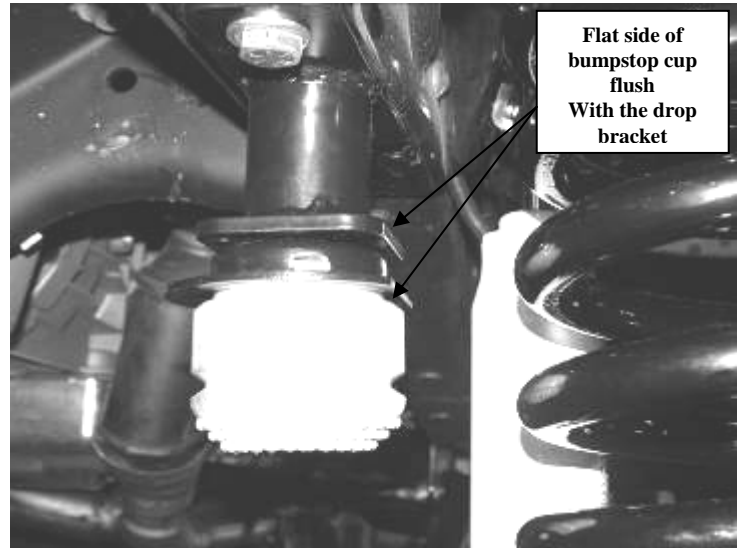
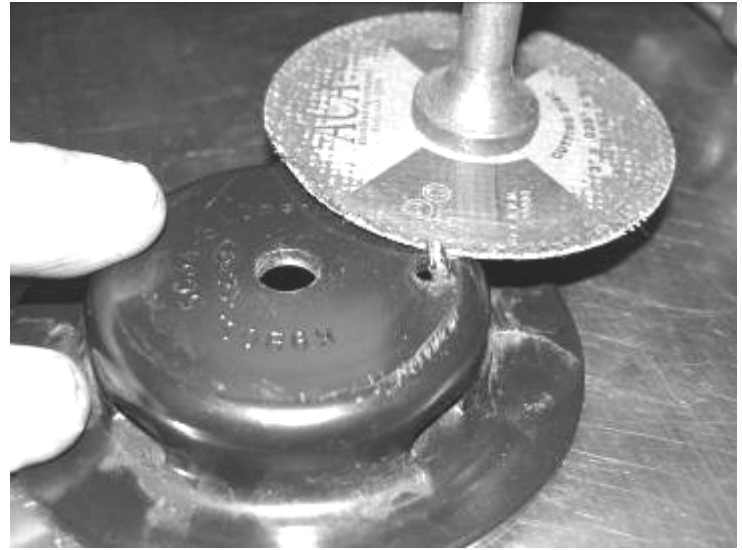
10. Locate FT30122 new drop pitman arm. Attach to the steering box in the same indexed position as the factory pitman arm was when removed. **Install the provided FT30258 Sector Shaft Nut and torque to 350 ft. lbs. (Note: this is a one-time only use nut, once it is tightened on the sector shaft and removed, it must be discarded)**
11. Locate FT30373BK 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 both FT30125BK and FT30126BK 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.
14. Working from the driver side of the truck, Install FT30125, driver side radius arm onto the truck. First attach the radius arm to the axle mounts using the factory upper pivot bolt and nut and the supplied alignment cam on the lower pivot. Then attach the rear pivot to the factory mount on the frame and use the factory bolt. Leave loose at this time. SEE PHOTO BELOW.



15. Repeat step fourteen on the passenger side of the truck.
16. 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 FT30143 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.
17. 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

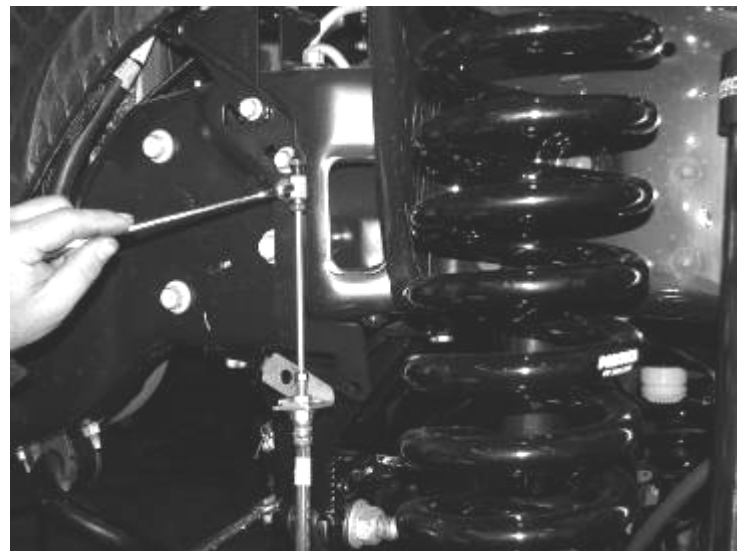
bracket using the supplied 5/16" x 1 1/4" bolt, flat washer, and split washer. Before tightening the bolt, align the flat part of the bumpstop cup to the flat side of the drop bracket. Press the factory bump stop back into the cup. SEE PHOTOS BELOW



18. Using the coil springs from the 6" lift or 8" lift coil spring kit install the coil spring into the truck in the factory location using the original factory upper coil isolator. **IF INSTALLING A FABTECH COILOVER CONVERSION KIT SEE THE INSTRUCTIONS ENCLOSED WITH THE HOOP KIT AT THIS TIME.**
19. 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.**

IF INSTALLING A FABTECH DUAL SHOCK KIT, USE THE INSTRUCTIONS ENCLOSED WITH THE DUAL SHOCK KIT AND INSTALL AT THIS TIME.

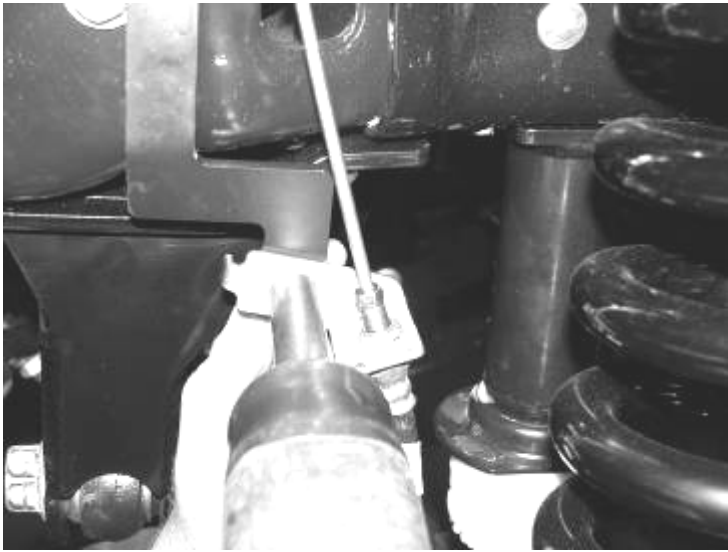
20. Using a floor jack raise the front axle enough to compress the front coils approx. 1". Locate the correct front shocks FTS7188 for the 4" & 6" kit and FTS7189 for the 8" kit and install onto the truck. **Note: Some shock mounts will require cutting a 1/4" from the top of the factory shock tab. If 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**



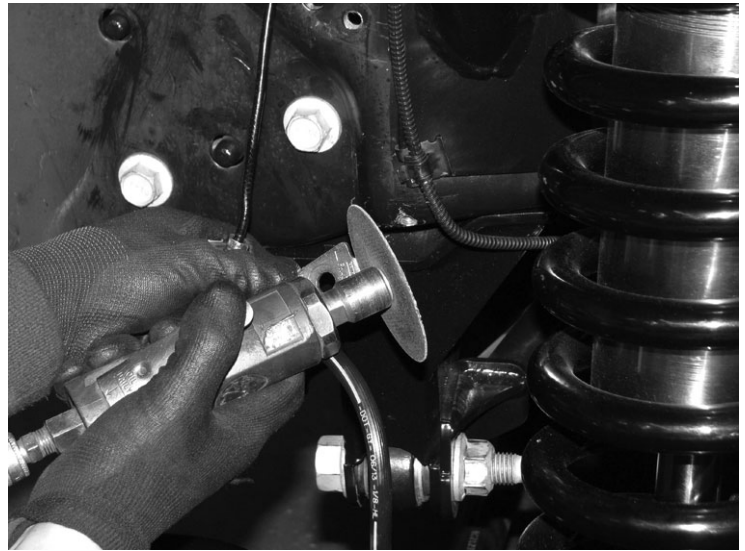
21. Locate the factory brake line mount on the front side of the frame. Remove the bracket from the frame and save the hardware. Locate (FT30276 Front Brake Line Drop Bracket 2008-2010) or the (FT30432 Front Brake Line Drop Bracket 2011-13) and attach to the frame using the original hardware in the factory brake line hole (with the offset of the bracket to the rear of the truck on 2008-2010).

Complete step 22 on 2008-13 models only.

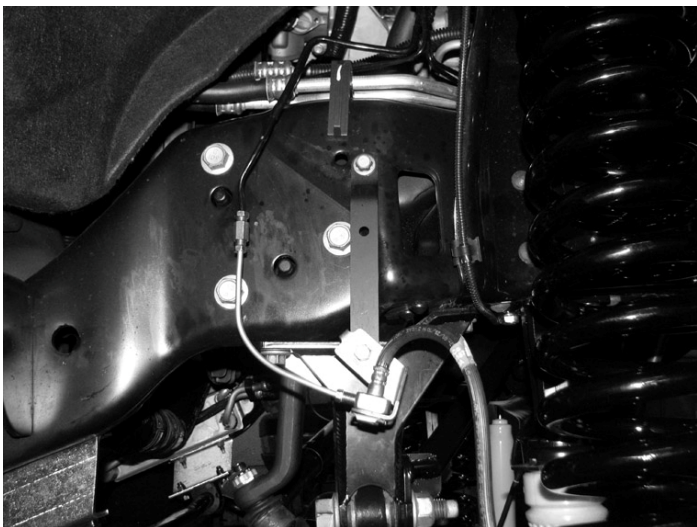
22. Locate FT30409 Hard Brake Line Extension and separate the factory hose from the hard line. Install the supplied FT30410 union and hard line to the factory hard line. Move to step 26. SEE PHOTOS BELOW.



24. Using a die grinder remove the tang from the factory brake line bracket.



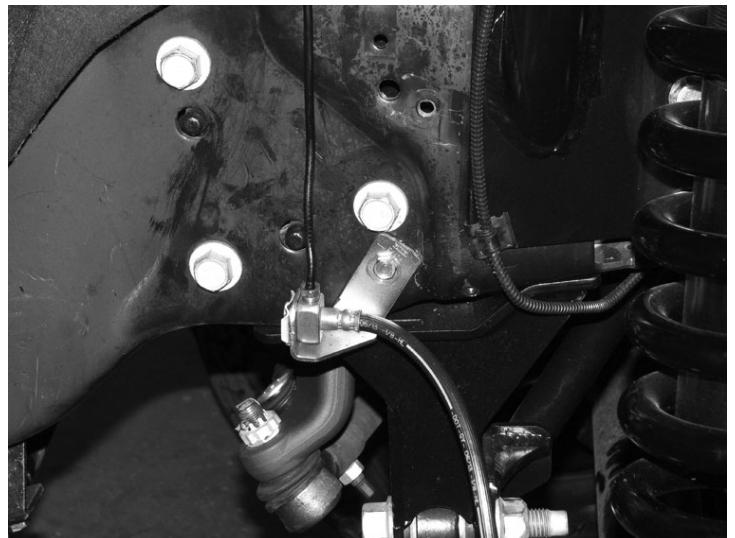
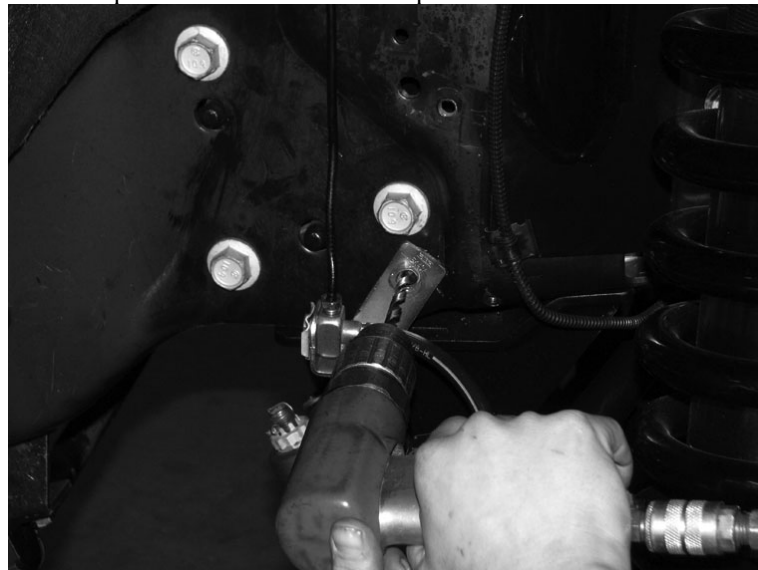
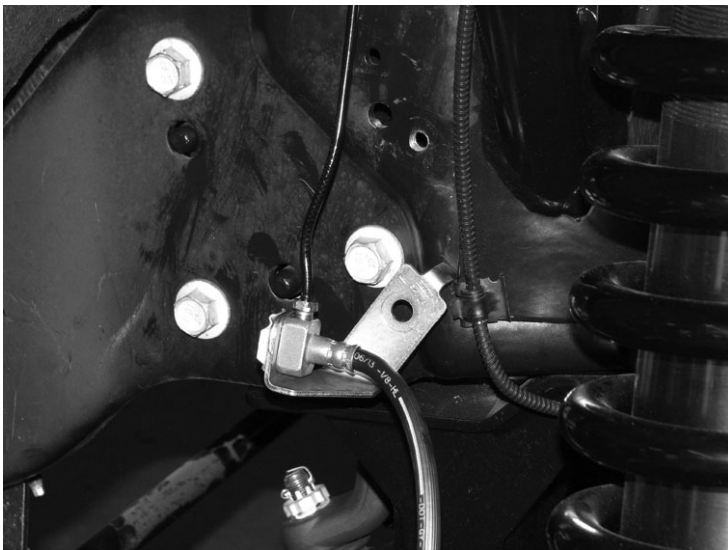
25. Move the bracket down 4" from the factory mounting hole . Using a 1/4" drill bit drill a new hole and remount the factory bracket using the supplied 5/16" self tapping screw. Torque to 14 ft-lbs. Move to step 26.



2011 Brake line bracket (FT30432) shown above

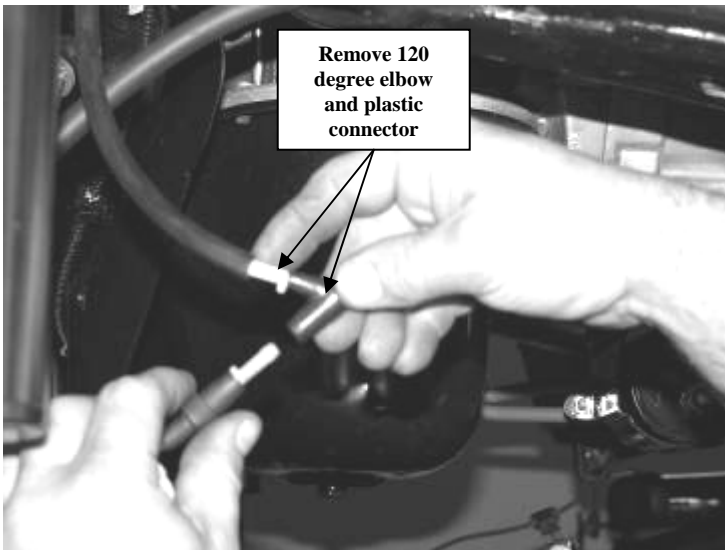
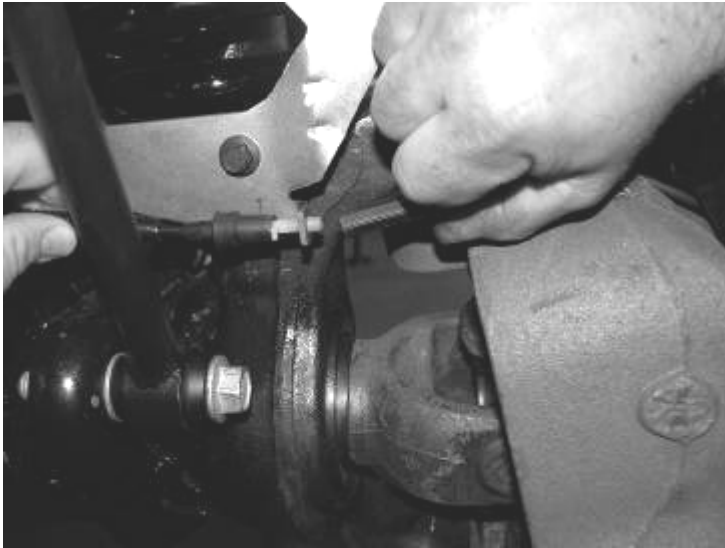
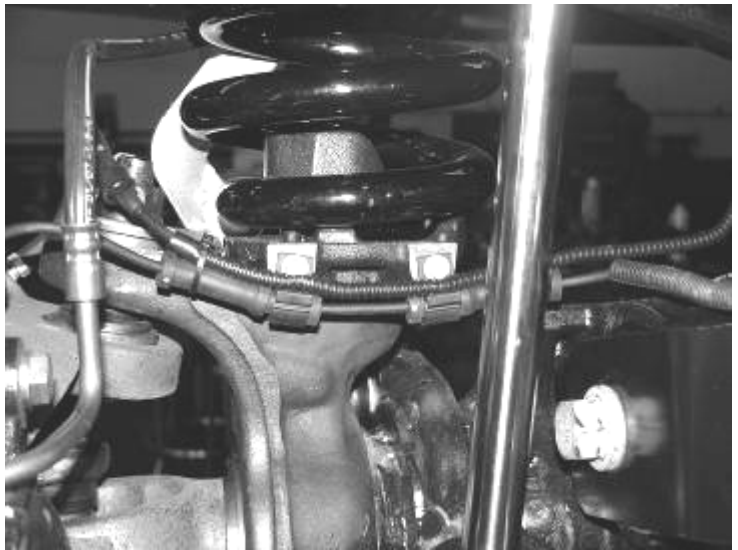
Complete step 23-25 on 2014-2016 models only.

23. Remove the bolt holding the brake line to the frame and straighten out the factory hard line.



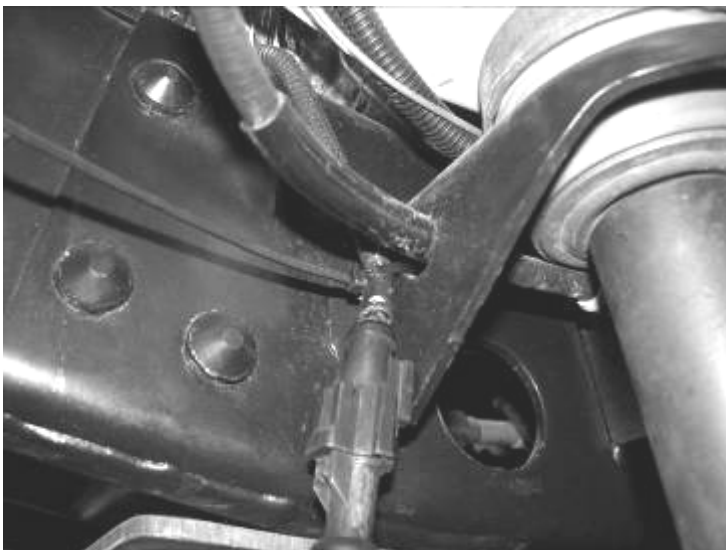
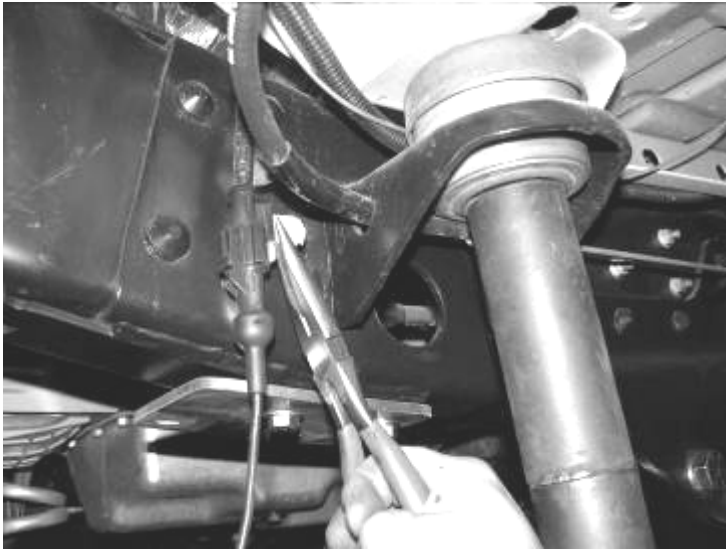
Continue with Step 26 for all models.

26. 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.



27. Locate FT30277 ABS Line Bracket, the supplied 1/4" 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 1/4" 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 1/4" hardware SEE PHOTOS BELOW.



28. Locate FT30402 (08-10) or FT30583BK (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 model use M12 hardware. If installing a Fabtech stabilizer do so at this time. SEE PHOTO BELOW.



Picture Shown with Factory Stabilizer re-installed



29. Remove the front sway bar from the frame mounts and save the hardware. (14-16) Install FT30630 (Driver) and FT30629 (Pass) using the the supplied 7/16 hardware.

(08-14 Models) Install FT3400-112D & P sway bar 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 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 4" & 6" lift, position the frame mount and sway bar all the way forward toward the front of the truck and torque to 35 ft. lbs. For the 8" 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 PHOTO BELOW.



View of outer driver side frame rail



View of inner passenger side frame rail

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, 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 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. Torque the sway bar hardware and endlinks at this time.
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 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.



INSTALLATION INSTRUCTIONS

| FTS22114 | | FORD F250 / F350 8" KIT |
|-----------------|-----------|--------------------------------|
| 1 | FT30240BK | SWAY BAR BRACKET (DRIVER) |
| 1 | FT30241BK | SWAY BAR BRACKET (PASSENGER) |
| 1 | FTS419 | SHIM KIT |
| 1 | FT30356 | HARDWARE SUBASSEMBLY |
| 4 | FT744U | U-BOLT |
| 2 | FTS42000 | REAR LEAF SPRING |

| FT30356 | | HARDWARE SUBASSEMBLY |
|----------------|-------------|-----------------------------|
| 4 | 37000005081 | 3/8" SAE WASHER |
| 2 | 37160003052 | 3/8-16 NYLOCK NUT |
| 2 | 37161001081 | 3/8-16 X 1" BOLT |
| 4 | 50000005081 | 1/2" SAE WASHER |
| 2 | 50130003052 | 1/2-13 NYLOCK NUT |
| 2 | 50131501081 | 1/2-13 X 1-1/2" BOLT |
| 1 | FT58H | 5/8" UBOLT HARDWARE |
| 1 | FT22114i | INSTRUCTIONS |
| 1 | FTAS12 | STICKER FT BLUE 10X4 |
| 1 | FTAS16 | DRIVER WARNING DECAL |
| 1 | FTREGCARD | REGISTRATION CARD |

2008-2016 FORD SUPERDUTY 4WD 8" LEAF SPRING REAR KIT F250/F350

FTS22114

Fabtech Motorsports | 4331 Eucalyptus Ave. Chino, CA 91710

Tech Line: 909-597-7800 | Fax: 909-597-7185 | Web: www.fabtechmotorsports.com

- TOOL LIST -

Required Tools (Not Included)

Basic Hand Tools
Floor Jack
Jack Stands
Assorted Metric and S.A.E sockets, and Allen wrenches
Torque Wrench

- PRE-INSTALLATION NOTES -

For technical assistance call: **909-597-7800** or e-mail: **info@fabtechmotorsports.com**

READ THIS BEFORE YOU BEGIN INSTALLATION -

Check all parts to the parts list above before beginning installation. If any parts are missing contact Fabtech at 909-597-7800 and a replacement part will be sent to you immediately.

Read all instructions thoroughly from start to finish before beginning the installation. If these instructions are not properly followed severe frame, driveline and / or suspension damage may occur.

Check your local city and state laws prior to the installation of this system for legality. Do not install if not legal in your area.

Prior to the installation of this suspension system perform a front end alignment and record. Do not install this system if the vehicle alignment is not within factory specifications. Check for frame and suspension damage prior to installation.

The installation of this suspension system should be performed by two professional mechanics.

This suspension must be installed with Fabtech shock absorbers.

Use the provided thread locking compound on all hardware.

WARNING- Installation of this system will alter the center of gravity of the vehicle and may increase roll over as compared to stock.

Vehicles that receive oversized tires should check ball joints, uniballs, tie rods ends, pitman arm and idler arm every 2500-5000 miles for wear and replace as needed.

FOOTNOTES -

- VEHICLES EQUIPPED WITH A REAR SWAY BAR ORDER PART # FTS92033 (16" LINK) OR PART # FTS92034 (26" LINK)

- INSTRUCTIONS -

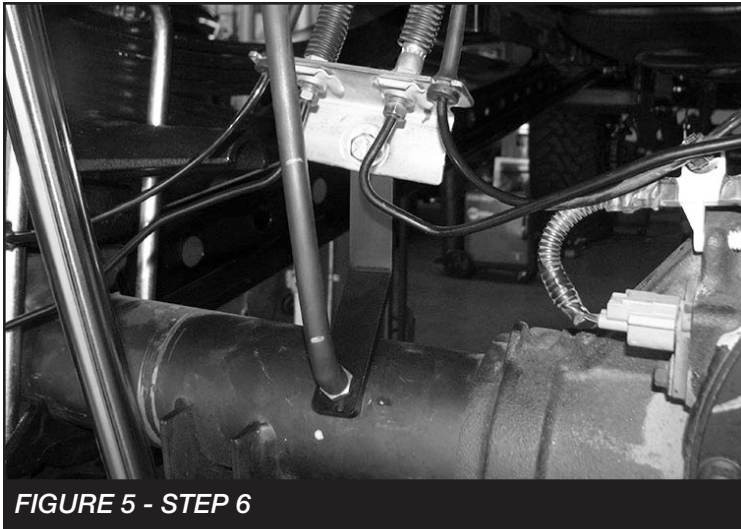
1. Disconnect the negative terminal on the battery. Jack up the rear end of the truck and support the frame rails with jack stands. Supporting the rear axle remove the wheels/tires. **NEVER WORK UNDER AN UNSUPPORTED VEHICLE!**
2. Remove and discard the rear shocks. Save hardware.
3. Remove the u-bolts from the truck and discard. Lower the axle down slowly.
4. Remove the complete leaf spring pack from the truck. If your truck is equipped with a factory over load leaf on top of the factory leaf spring pack you will NOT be able to reuse it with this replacement leaf pack. Remove the upper u-bolt mounting plate and hanger from the factory spring, to install onto the new Fabtech spring. On (11-UP MODELS) the upper u-bolt bracket will need to be removed from the spring. Drill out the center hole to 3/4" and installed on the new Fabtech spring pack. **NOTE: Use caution, make sure the leaf pack is clamped when loosening the centering bolt. SEE FIGURES 1-2.**



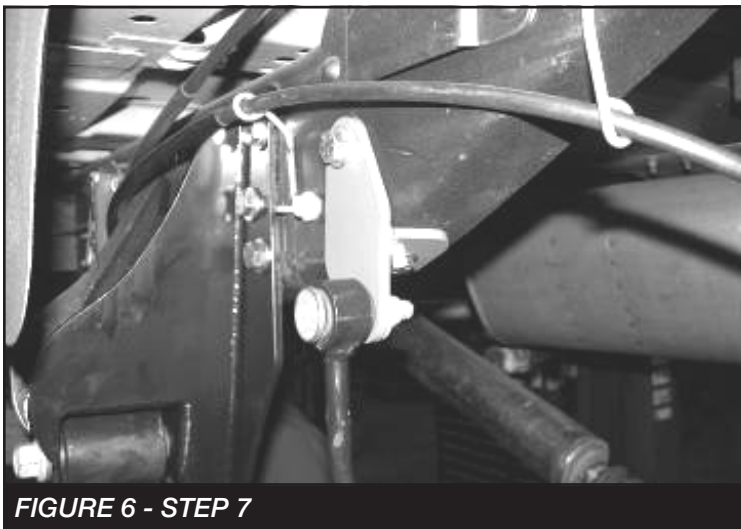
5. Install the new leaf spring into the original spring location using the factory shackle and hanger bolts. Torque to the front and rear leaf mount hardware to 185 ft-lbs. Use the supplied u-bolts to secure the new leaf spring to the axle. **NOTE: The factory block will be reused in the factory location. Torque the u-bolts to 179 ft-lbs. SEE FIGURE 4**



6. (11-UP MODELS) Locate the factory brake line mount on the driver side of the axle. Remove the vent line from the bolt and remove the bolt. Save hardware. Locate the supplied brake line bracket FT30059 from the front box kit and attach the side with the sleeve to the axle using the factory hardware. Using the supplied 3/8" x 2" bolt, nut and washer, attach the brake line to the other end of the bracket. Reattach vent line. **SEE FIGURE 5**



7. Locate the FT30240BK (driver) and FT30241BK (pass) Rear Sway Bar Drop Brackets. Remove the factory sway bar endlinks from the frame and save the hardware. Place the drop bracket onto the frame so that the hole in the new bracket is directly above the factory hole (the longer end of the bracket goes upward and attaches to the frame). Use a paint pen or center punch to mark the center of the hole. Using a drill, drill the new hole into the frame starting with a smaller size bit and working up to the 1/2" size. Using a drill with a 3/8" bit, drill the bottom hole through the new bracket into the frame. Use the supplied 3/8" hardware and install the bolts through the bracket into the frame, torque to 30 ft. lbs. Install the end link into the bottom of the new drop bracket with the factory hardware and torque to 50 ft. lbs. **SEE FIGURE 6**



8. Locate and install the rear shocks using the factory hardware.
9. Install FTS419 as per the instruction sheet enclosed in the FTS419 box.
10. Install tires and wheels and torque lug nuts to wheel manufacturer's specifications. Turn front tires left to right and check for appropriate tire clearance. **Note - Some oversized tires may require trimming of the front bumper & valance.**
11. Check front end alignment and set to factory specifications. Readjust headlights.
12. Recheck all bolts for proper torque.
13. Recheck brake hoses, ABS wires and suspension parts for proper tire clearance while turning tires fully left to right.
14. Check the fluid in the front and rear differential and fill if needed with factory specification differential oil. **Note - some differentials may expel fluid after filling and driving. This can be normal in resetting the fluid level with the new position of the differential/s.**
15. Install Driver Warning Decal. Complete product registration card and mail to Fabtech in order to receive future safety and technical bulletins on this suspension.

Vehicles that will receive oversized tires should check ball joints, uniballs and all steering components every 2500-5000 miles for wear and replace as required.

RE-TORQUE 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 and driveshafts. 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.

Dirt Logic and Performance Coilover 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, powder coating, 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 on the website, 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 website 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 is not responsible for premature wear of factory components due to the installation of oversized tires and wheels.

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 on our website. 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.

Depending on the condition of the factory suspension components retained after the installation of a Fabtech suspension not all vehicles may have the same ride stance front to rear as described in the website. The blue color of suspension components shown in all Fabtech photographs are for display purposes only. Majority of all Fabtech components will be black specifically where noted with part numbers ending in BK.

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. Some state laws may prohibit modification of suspension to a vehicle in whole or in part. It is the responsibility of the installer and consumer to consult local laws prior to the installation of any Fabtech suspension product to comply with such written laws.

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 super cede, 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 website or price sheet. For the most recent Product Warranty and Warnings visit our website www.fabtechmotorsports.com