



4331 EUCALYPTUS AVE. ~~ CHINO, CA 91710
909-597-7800 Fax 909-597-7185
2005 – 2007 FORD F-250/350 4wd
FTS22090BK COILOVER HOOP CONVERSION

FTS22090BK		
Qua	Part #	Description
1	FT30151BK	Driver Hoop
1	FT30152BK	Passenger Hoop
1	FT30266BK	Driver Lower Mount
1	FT30267BK	Passenger Lower Mount
1	FT30191	Hardware Kit

FT30826		
Qty	Part #	Description
2	FT30197	Upper Limit Strap Brkt
2	FT30270	Lower Limit Strap Brkt
2	FT30192BK	Limited Straps w/ Logo
2	FT22090i	Instruction Sheet

FT30191 Hardware Kit		
Qua	Description	Location
14	1/2"-13 x 1 1/2" Bolt	Hoop To Frame
6	1/2"-13 x 1 3/4" Bolt	Limit Strap Bracket
24	1/2"-13 C-Lock Nut	
52	1/2"SAE Flat Washer	
4	7/16"-14 x 1 3/4" Bolt	Hoop To Frame (top)
4	7/16"-14 C-Lock Nut	
8	7/16 SAE Flat Washer	
8	1/4"-20 X 1" Hex Bolt	All Brake Line to Hp
8	1/4"-20 Nylock Nut	
16	1/4" SAE Flat Washer	
2	14mm-2.0 x 30mm Bolt	Lower Mount to Axle
2	14mm Flat Washer	
2	18mm-2.5 x 130mm Bolt	Uppr Axle Pivot Bolt
2	18mm-2.5 C-Lock Nut	
4	18mm Flat Washer	
1	Lock Tight	

TOOL LIST:

- Floor jack
- Jack stands
- Assorted metric & S.A.E. wrenches & sockets
- Air Hammer
- Die Grinder with cutoff wheel
- Drill with 7/16" & 1/2" bit

CHECK ALL PARTS INCLUDED IN THIS KIT TO THE PARTS LIST ABOVE BEFORE BEGINNING INSTALLATION OF THE KIT. IF ANY PIECES ARE MISSING, CONTACT FABTECH AT 909-597-7800

FABTECH RECOMMENDS FTS92001 HYDRAULIC BUMP STOP KIT USE ON TRUCKS THAT WILL HAVE HEAVY OFF ROAD USE.

THIS KIT MUST BE INSTALLED WITH FABTECH DIRT LOGIC COILOVER SHOCKS NOT INCLUDED IN THIS BOX KIT.

THIS KIT MUST BE USED WITH FABTECHS 10" RADIUS ARM SYSTEM OR 10" 4 LINK SYSTEM ONLY.

NOTE: IF YOU HAVE THE FABTECH DUAL SHOCK KIT FTS52002 ON THE VEHICLE, YOU WILL NEED SEVERAL OF THE PARTS THAT WERE DISCARDED DURING THE INSTALL OF THE DUAL SHOCK KIT. THE FORD PARTS REQUIRED ARE THE FACTORY BRAKE LINE BRACKETS AND THE FABTECH PARTS REQUIRED ARE THE SWAY BAR DROP BRACKETS WITH HARDWARE AND SWAY BAR END LINKS WITH THE BUSHINGS AND HARDWARE. CONTACT FABTECH FOR PART NUMBERS IF NESSESARY. 909-597-7800

DO NOT INSTALL THIS KIT ON MODELS WITH DIGITAL CLIMATE CONTROL.

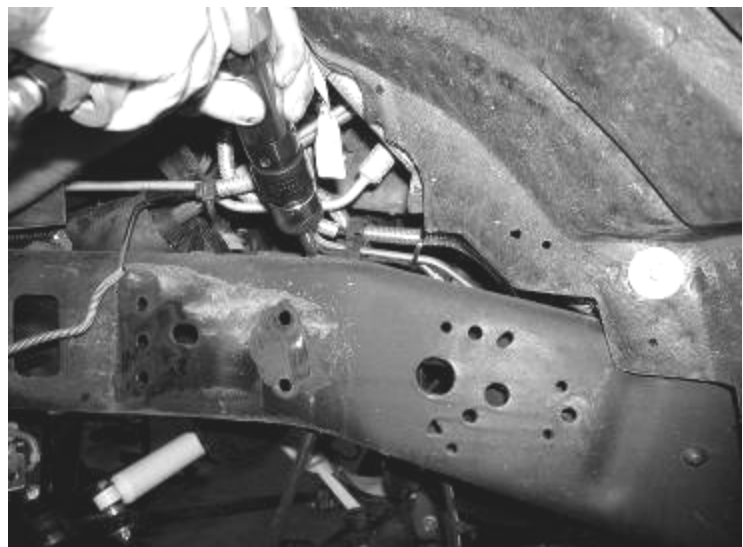
SPANNER WRENCH IS NOT INCLUDED IN THIS KIT,IF NEEDED ORDER FTS89905.

INSTRUCTIONS:

1. Disconnect the negative terminal on the battery. Jack up the front end of the truck and support the front axle with jack stands. **NEVER WORK UNDER AN UNSUPPORTED VEHICLE.** Remove the front tires.
2. Support the front axle with a floor jack. Raise the floor jack approx. 1". Working on both side of the truck, remove the front shocks and discard. Save the factory lower shock bolt and nut tab. Disconnect the front sway bar end links from the axle mount and save the hardware.
3. Remove the brake line bracket from the factory coil bucket and discard hardware. If a Fabtech kit has already been installed remove the brake line drop bracket supplied with that kit and discard. Remove the brake line and ABS line mounts from the lower coil perch and discard the hardware.
4. Remove the trac bar bracket from the driver side of the frame and save the hardware.
5. Lower the floor jack supporting the axle down until the coil springs are free of tension. Remove the coil springs and discard.
6. Locate bump stop on the bottom of the frame below the coil bucket and remove. If you have a Fabtech kit that has already been installed on the truck, remove the bump stop along with the drop bracket and discard. Fabtech recommends running the FTS92001 optional Hydraulic Bump Stop Kit. The installation of the coil over kit does not require the installation of a bump stop.
7. Working from the driver's of the truck, using a die grinder with a cut off wheel cut all the heads of the rivet in a cross pattern that attach the factory coil bucket to the frame. Using an air chisel, remove the heads of the rivets and pry the coil bucket free from the frame. With the bucket removed from the frame use a hammer and center punch and knock the rest of the rivets out of the holes in the frame. SEE PHOTOS BELOW AND IN NEXT COLUMN.



8. Once the factory bucket is removed from the frame, you will need to remove an additional two rivets from the top of the frame using the same method as above. SEE PHOTO BELOW.



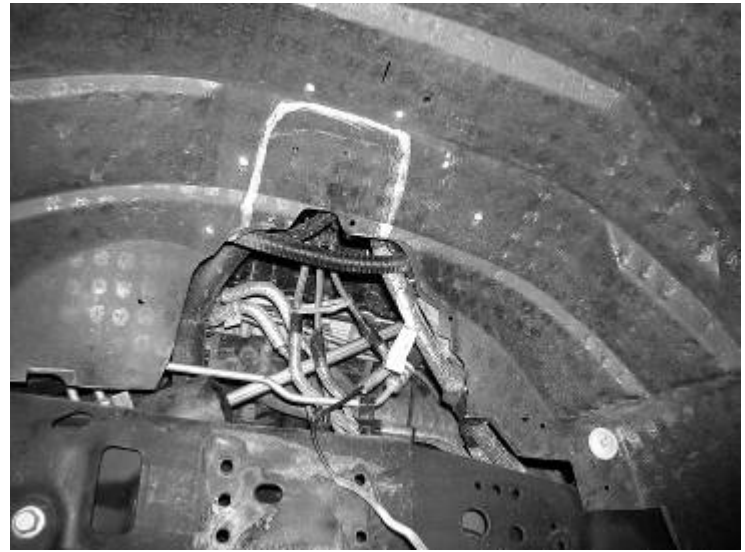
9. Using a drill with a 1/2" bit, drill all the holes on the outside, top, and bottom of the frame that the hoop will be mounting to. SEE PHOTO BELOW.



10. Locate the factory lower coil perch on the axle and remove. Discard the perch and hardware.
11. Using a sharp razor blade cut a 6" x 4" rectangle in the plastic inner fender well as shown below. When cutting the inner fender well do not cut the heat shield felt on the backside of the inner fender well. SEE PHOTOS BELOW.

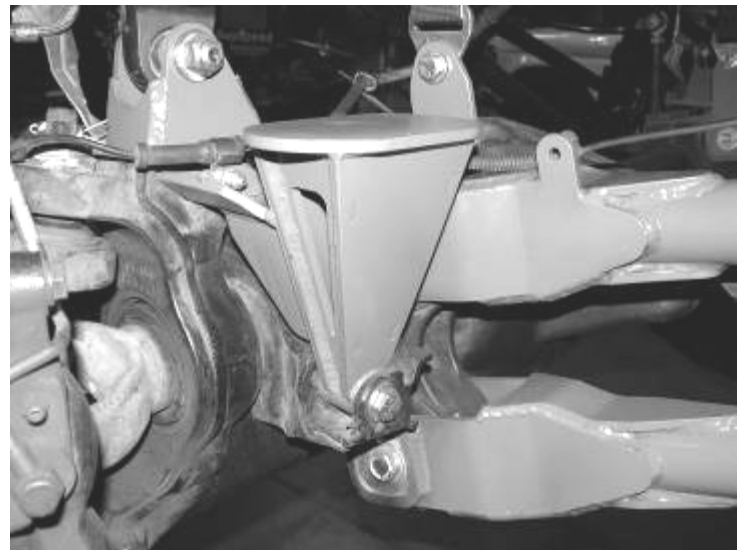


Passenger Side Cut



Driver Side Uncut But Marked

12. Repeat steps eight through twelve on the passenger side of the truck.
13. Working from the driver side of the truck, locate FT30266 lower coil over axle mount. Place the mount on the axle where the factory coil perch was located, aligning the arm of the new perch into the factory lower shock mount on the axle. Using the supplied 14mm bolt and washer and small amount of the supplied thread locking compound attach it to the axle. Using the original lower shock bolt and nut tab attach the support arm of the mount to the factory shock mount on the axle. Torque the 14mm bolt to 100 ft. lbs. and the support arm bolt to 80 ft. lbs. SEE PHOTO IN NEXT COLUMN.



14. Locate FT30151 (driver side) Coil Over Hoop and align onto the frame where the factory bucket was mounted. Align the holes in the hoop to the holes in the frame. Using the supplied 1/2" x 1 1/2" hardware on the holes on the outside of the frame attach the hoop to the frame, leave loose at this time. Use the supplied 7/16" x 1 3/4" hardware attach the two holes on the top of the frame to the bucket, leave loose at this time.

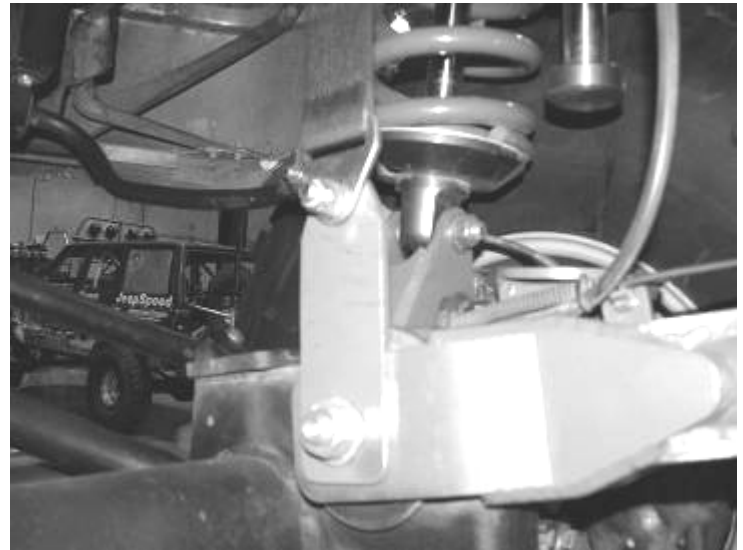
15. Using a drill with a 1/2" bit, drill the two rear holes out through the frame. Using the supplied 1/2" x 1 1/2" hardware attach to the frame. Leave loose at this time. SEE PHOTO BELOW.



16. Reinstall the trac bar bracket to the frame and torque the frame mount bolts to 80 ft. lbs & motor mount bolt to 55 ft. lbs & trac bar bolt to 400 ft. lbs.
17. Locate FT30197 upper limit strap bracket. Place the bracket on the inside of the frame to the rear hole on the bottom of the frame. Using the supplied 1/2" x 1 3/4" hardware attach it to the frame. Attach the forward hole of the hoop to the frame with the supplied 1/2" x 1 1/2" hardware at this time also. Torque to 50 ft. lbs. SEE PHOTO ON NEXT PAGE.

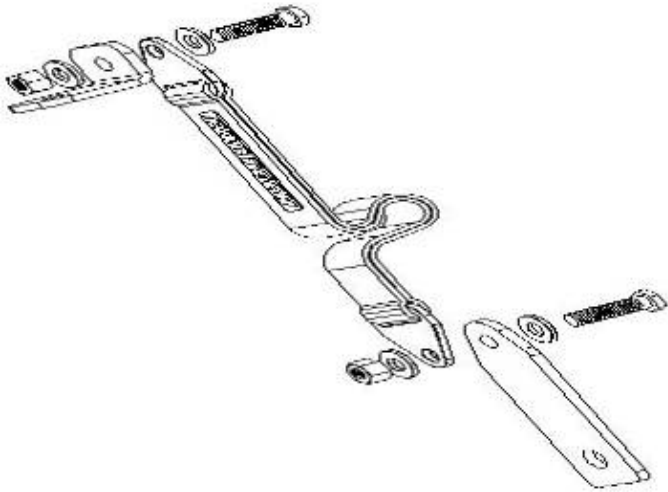


18. Locate the upper axle pivot on the front axle. Remove the bolt and discard. Locate FT30270 lower limit strap bracket and attach to the inside of the upper pivot using the supplied 18mm x 130mm bolt, nut, and washer. If installing this kit on an 8" kit the long end of the bracket will be facing upward and on a 6" kit the short end will be facing up. SEE PHOTO BELOW.

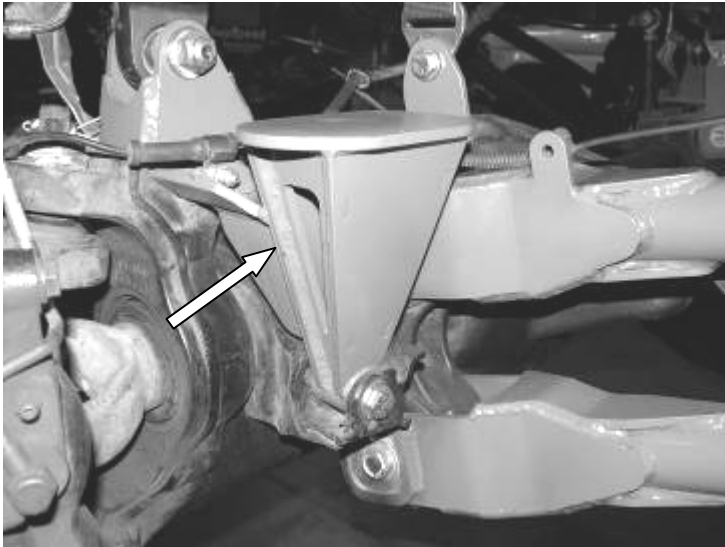


Picture Shown With Tab Set Up For 10" Kit

19. If installing Fabtech's optional Hydraulic front bump stop kit do so at this time.
20. Locate one of the 4.0 Dirt Logic Coil Over 6" or 8" kits. Insert one of the supplied FT83034 mis-alignment spacers to each side of the top bearing in the shock. Next locate the supplied FT1040 and FT1041 Delron bushings and place the one with the larger inner ring on the side of the bearing without the snap ring and the one with the smaller inner ring on the side with the snap ring. Insert the top of the coil over into the coil over hoop. Using the supplied 5/8" x 3.5" bolt and washers and FT30183 nut tab connect the coil over to the hoop. SEE DIAGRAM ON LAST PAGE.
21. Locate the last two FT83034 mis-alignment spacers and insert them into the bearing on the bottom of the shock. Using the supplied 5/8" x 3.5" bolt, nut, and washer attach it to the lower mount on the axle.
22. Install the supplied limit straps to the upper and lower mounts using the supplied 1/2" x 1 3/4" bolt, nuts, and washers. You will need to stack three 1/2" washer between the limit strap and mounting brackets on both upper and lower mounts. SEE DIAGRAM BELOW.



23. Using the Supplied $\frac{1}{4}$ " x 1" bolt, nut, and washer attach the ABS line to the new lower coil perch as shown below. The original line clamps will be reused. SEE PHOTO BELOW.



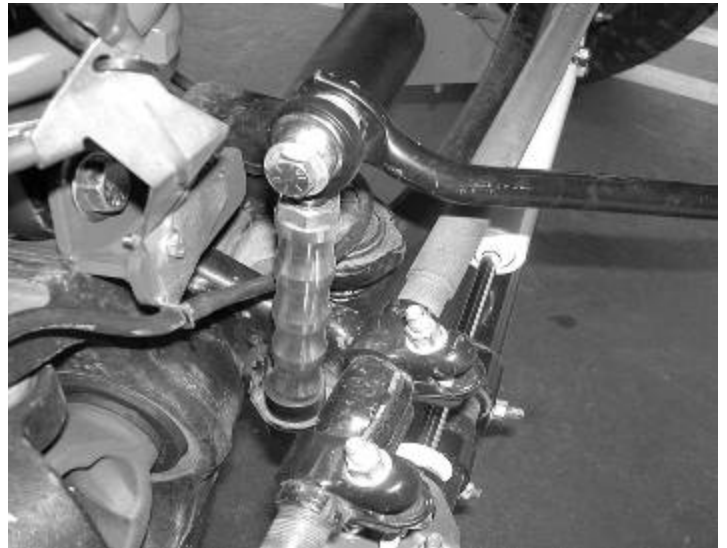
24. Using the supplied $\frac{1}{4}$ " x 1" bolt attach the brake line to the coil over hoop. You will need to carefully pull the hard line free from the frame. Re-install the brake calipers and torque caliper bolts to 130lbs. SEE PHOTO ON NEXT PAGE



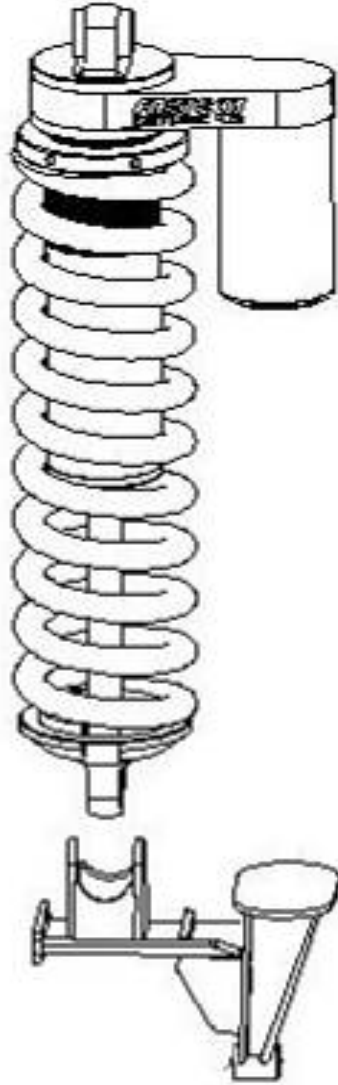
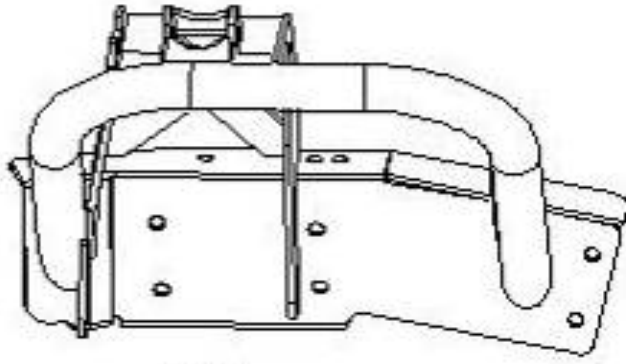
25. Attach the lower brake line bracket to the new lower coil over mount using the supplied $\frac{1}{4}$ " x 1" bolt, nut, and washer. SEE PHOTO BELOW.



26. Make sure the vacuum line from the hub assembly is still routed in the stock position. If the line is tight carefully pull some slack free from the frame mounts.
27. Reconnect the front sway bar back to the axle mount using the original hardware. SEE PHOTO BELOW.



28. Reinstall the front tires and set the truck back on the ground. Turning the steering wheel fully in each direction, check for contact between the tires and any newly installed components. Drive the truck fifty miles and complete a full front end alignment. Re-adjust headlights.



Driver Side Shown

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.