www.fabtechmotorsports.com

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6” LIFT SYSTEM
2003 – 2008 DODGE RAM 2500 & 3500 4WD
2006 – 2008 2500 MEGA CAB
FTS23017BK

Fabtech Motorsports 4331 Eucalyptus Ave. Chino, CA 91710
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6” BASIC LIFT SYSTEM
2003 – 2008 DODGE RAM 2500 & 3500 4WD
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FTS23017BK

	FTS23017BK	Box Kit
Qty	**Part Number**	**Description**
2	FT3400-111	Frt. Bump Stop
1	FT44039	Pitman Arm
2	FT44103BK	Upper Link Arm
2	FT44104BK	Lower Link Arm
1	FT44198BK	Trac Bar Bracket
2	FT30153	Sway Bar End Link
2	FTBK41	Lift Blocks
1	FT44058	Hardware Kit
1	FT44114	Hdwr Sub-Assembly Kit

	FT44114	Hdwr Sub-Assembly Kit
2	FTS50	Jam Nut 3/4"
2	50133001081	1/2"-13 x 3" Bolt
2	50130004152	1/2"-13 C-Lock Nut
4	50000005081	1/2" SAE Flat Washer
2	50133001882	1/2"-13 x 3" Btn Hd Bolt
8	FT84	Grease Fitting
2	FT160	Block Pin Sleeve
2	FTS98003	3/4" Heim
4	FTS43	Mis-Alignments
4	FT90051	Sway Bar Bushing
4	FT90050	Sway Bar Washer
1	FT90112	Bushing Kit
4	FT76	Sleeve 1.00 x .563 x 2.230
4	FT77	Sleeve 1.00 x .630 x 2.620
4	FT1037	Link Bushing
12	FT1038	Link Bushing
2	FTLUBE	Bushing Lube
1	FT44045	Track Bar Brkt Nut Tab
1	FTREGCARD	Reg. Card
1	FTAS12	Fabtech Sticker
1	FTAS16	Driver Warning
2	FT23017i	Instruction Sheet

	FTS23020BK	6" Coil Spring Box "Diesel"
Qty	**Part Number**	**Description**
1	FT44102DBK	Coil Spring 6" Drv.
1	FT44102PBK	Coil Spring 6" Pass
4	FT748U	U-Bolt
1	FT58H	U-Bolt Hardware

" OR "

	FTS23014BK	6" Coil Spring Box "Gas V8"
Qty	**Part Number**	**Description**
1	FT44107PBK	Coil Spring 6" Pass
4	FT744U	U-Bolt
1	FT58H	U-Bolt Hardware

	08 Model Only	Trac Bar Bolt
1	63113501082	5/8”-11 x 3 ½” Hex Cap Bolt
1	62110003382	5/8”-11 C-Lock Nut
2	62000005081	5/8” SAE Flat Washers

YOU <u>MUST</u> INSTALL THE PROPER TRANSMISSION BRACKET WITH THIS KIT. SEE LIST BELOW FOR PROPER APPLICATION. CONTACT FABTECH FOR BRACKET AVAILABILTY.

FTS9300	Diesel (5.9L) 06-07 Auto 2500 4wd		

3			
FTS93004	Gas 03-05 Auto 2500 4wd	**FTS93007**	Gas 06-07 Auto 2500 4wd
FTS93005	Diesel 03-05 Auto 2500 4wd	**FTS93008**	Diesel (6.7L) 2007 Auto 4wd

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FTS23017BK

	FT44058 Hardware Kit	
Qua	**Description**	**Location**
1	9/16"-12 x 3" Bolt	Trac Bar
1	9/16"-12 Nylok Nut	
2	9/16" SAE Flat Washer	
5	7/16"-14 x 1 1/4" Bolt	Trac Bar Bracket
4	7/16"-14 Nylok Nut	
9	7/16" SAE Flat Washer	
1	7/16" Split Washer	
1	14mm-2.0 x 150mm Bolt	Pass. Upper Link Arm
1	14mm-2.0 C-Lock Nut	
2	14mm Flat Washer	

TOOL LIST: (NOT INCLUDED)

- FLOOR JACK
- JACK STANDS
- ASSORTED METRIC AND S.A.E SOCKETS, & ALLEN WRENCHES
- PITMAN ARM PULLER
- GREASE GUN
- DIE GRINDER WITH CUT OFF WHEEL
- DRILL w/ ASSORTED DRILL BITS

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

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

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

THIS KIT MUST BE INSTALLED WITH A FABTECH 6” LIFT COIL SPRING KIT, FRONT SHOCKS AND, REAR SHOCKS.

THIS SYSTEM COMES WITH A 4” LIFT BLOCK FOR THE REAR, DUE TO DIFFERENT CAB & MOTOR CONFIGUATIONS YOU MAY NEED TO CONTACT YOUR FABTECH DEALER TO PURCHASE A LARGER BLOCK TO LEVEL YOUR TRUCK. MOST MODLES REQUIRE A 4” LIFT BLOCK TO LEVEL THE TRUCK.

DODGE ¾ TON TRUCKS CAME WITH TWO DIFFERENT REAR U-BOLT SIZES. THEY DIFFER DEPENDING ON IF YOUR MODEL IS A GAS OR DIESEL. THE U-BOLTS ARE SUPPLIED IN THE COIL SPRING BOX KIT.

THIS KIT ALLOWS THE USE OF 37X12.50R17 TIRES ON A 17X9 RIM W/ 5" BACK SPACING. SOME MINOR TRIMMING MAY BE REQUIRED ON SOME MODELS.

LONG BED MODELS MAY REQUIRE LENGTHENING OF REAR DRIVELINE.

FRONT INSTRUCTIONS:

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

2. Support the front axle with 2 floor jacks. Remove the bolts attaching the brake line tabs to the front axle. Remove the front sway bar end links from the axle mount. Remove the bolts securing the sway bar mounts to the frame and set the sway bar aside, save all sway bar hardware.

3. Remove the hardware attaching the drag link to the pitman arm and separate the tie rod end from the pitman arm. Save the hardware.

4. Remove the nut securing the track bar to the frame and separate. Save the track bar hardware.

5. Remove the top nuts on the front shocks and than the lower bolts securing the shock to the axle. Leave the shock loose inside the factory coil spring at this time. Save the lower hardware and discard the upper.

6. Loosen the bolts securing the link arms to the frame and front axle, **DO NOT REMOVE THE BOLTS**. Lower the jacks supporting the front axle and remove the coil springs. Save the upper rubber insulator and discard the coil springs and shocks. **USE EXTREME CARE WHEN WORKING WITH COILS THAT ARE UNDER LOAD!**

7. Locate FT44198BK Track Bar bracket and install into the factory frame track bar mount **(2008 model trucks will need the two 9/16" holes in the track bar bracket drill out to 5/8").** Attach the new bracket to the original frame hole using the original hardware. Leave loose at this time. Using the supplied FT44045 nut tab along with the supplied 7/16" x 1 ¼" bolt, flat washer and split washer attach to the inboard hole of the new track bar bracket to the frame. **(Note" on some models this hole will need to be drilled.)**Torque the 7/16" bolt to 50 ft. lbs. and the 9/16" bolt to 100 ft. lbs

8. Remove the nut securing the pitman arm to the steering box. Using a pitman arm puller, remove the pitman arm from the steering box. Slide the new FT44039 pitman arm onto the steering box shaft, making sure to line up the splines properly. Reinstall the original lock washer and nut and torque to 220 ft/lbs

9. Remove the original rubber bumpstops from the frame and install the supplied FT3400-111 urethane bump stops. SEE PHOTO IN NEXT COLUMN.

10. Locate FT44103 upper link arms. **(This link is 18" from the center of the barrel to the center of the barrel)**. Press one FT1037 small bushing and one large FT1038 bushing into each end of the upper link arms. **Be sure to check offset of bushings so that zerk fitting is not covered.** Locate FT76 upper link arm sleeve and press one into each end of the link arms. Use the supplied FTLUBE on the surfaces of the bushings and sleeves before installing. Install one of the supplied FT84 grease fitting into each barrel on the link arms.

11. Locate FT44104 lower link arms. **(This link is 19 11/16" from the center of the barrel to the center of the barrel)**. Press two FT1038 large bushings into each end of the links arms. **Be sure to check offset of bushings so that zerk fitting is not covered.** Locate FT77 lower link arm sleeve and press one into each end of the lower link arms. Use the supplied FTLUBE on the surfaces of the bushings and sleeves before installing. Install one of the supplied FT84 grease fitting into each barrel on the link arms.

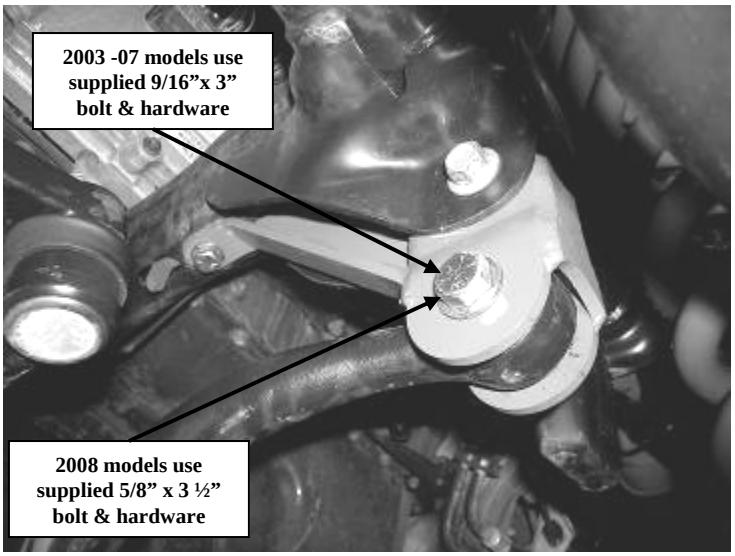
12. Remove the bolts attaching the lower link arms to the front axle and then the frame. Save the factory bolts and discard the links. Locate the assembled FT44104 lower link arms. Attach the link arms to the axle mounts first than to the frame mounts using the original hardware. **NOTE: when**

installing the link arms onto the truck make sure the gussets on the lower arms facing down. **Also when reinstalling the alignment cam bolts in the lower axle pivot make sure they are set in the center of their adjustment**. **Both factory lower link arms will need to be removed before installing the Fabtech links.** Leave the link arm bolts loose at this time

13. Remove the bolts attaching the upper link arms to the front axle and then the frame. Save the factory bolts and discard the links. Locate the assembled FT44103 upper link arms. Attach the link arms to the factory frame pocket using the original hardware (DO NOT ATTACH TO AXLE MOUNT AT THIS TIME). **Note: Both factory upper link arms will need to be removed before installing the Fabtech links. Also when installing the upper links make sure the gussets are facing up.** Leave the link arm bolts loose at this time. **ON PASS. SIDE OF THE TRUCK THE UPPER LINK ARM BOLT AT THE FRAME MOUNT WILL NEED TO BE CUT OUT FOR EASY OF REMOVAL, A NEW 14MM BOLT NUT AND WASHER IS SUPPLIED FOR THAT MOUNT.**

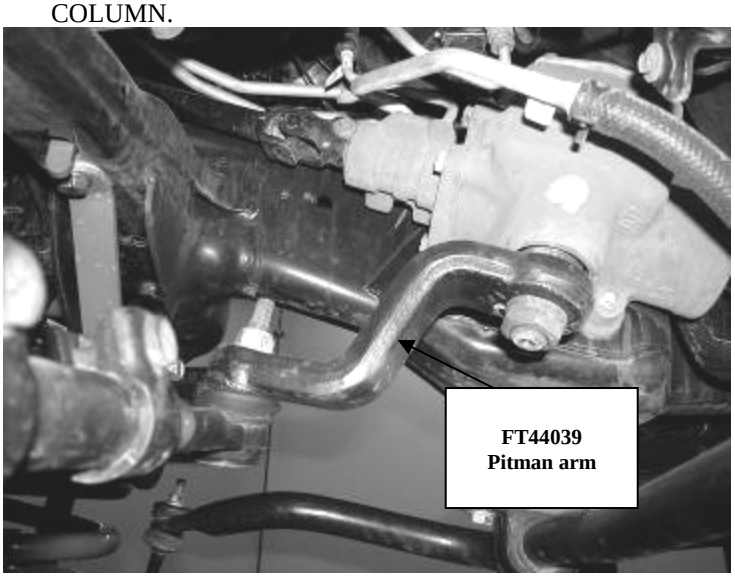
14. Take one of the new coil springs FT44102P and FT44102D driver and passenger and locate the top of the coil spring (smaller diameter end). Locate FTS7189 front shocks (not supplied with this kit) and place one shock inside each coil spring **BEFORE INSTALLING ON THE TRUCK.** The shocks must be placed inside the coil spring before it is installed. Place the original coil spring insulator on top of the coil spring and place the coil spring onto the front axle. Align the coil spring in the upper and lower pockets and raise the jacks supporting the front axle. Raise the axle just enough to compress the coil spring ¼". **USE CARE TO NOT LIFT THE TRUCK OFF OF THE SUPPORT STANDS.** Attach the new upper link arm to the axle using the original hardware. Torque the all of the link arm bolts to 95 lbs.

15. Connect the track bar to the new drop bracket using the supplied 9/16" x 3" bolt, nut, and washers **(2008 model trucks will need to drill out the two holes in the drop trac bar bracket to 5/8" & use the supplied 5/8" x 3 ½" Hardware)**. NOTE: This may need to be done when the truck is back on the ground**.** SEE PHOTO BELOW.

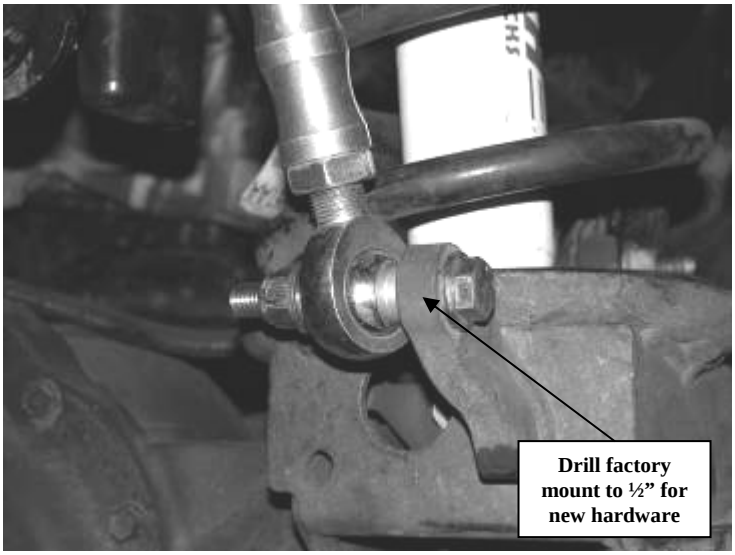


16. Attach the front shocks to the upper and lower mounts. You will use the supplied hardware for the upper mount and factory lower hardware. Torque the upper hardware to 35 ft. lbs. and the lower hardware to 60 ft. lbs

17. Connect the drag link to the new drop pitman arm. Torque the original nut to 45 ft/lbs. SEE PHOTO IN NEXT COLUMN.



18. Locate FT30153 Billet Sway Bar End Links. Attach one FTS98003 heim joint and one Jam nut to each end of the end links. You will want to thread the jam nuts all the way down the heim joints and the heims all the way into the billet end links. Position one end of the end link with two of the supplied FT43 mis-alignments against the rear lower shock mount. Using the supplied ½" –13 x 3" bolt, flat washers and attach the end link to the factory sway bar mount. SEE PHOTO BELOW



19. Locate the supplied ½" button head bolts and the sway bar bushing along with the cup washers. Attach the bushing end of the sway bar end links to the sway bar, leave loose at this time. **At times this may be easier to attach when the truck is completed and on the ground.** SEE PHOTO ON NEXT PAGE

20. Attach the brake line tab back to the original mount using the original hardware. You may need to pull the factory hose through the bracket to gain some slack. Repeat this on the opposite side of the truck.

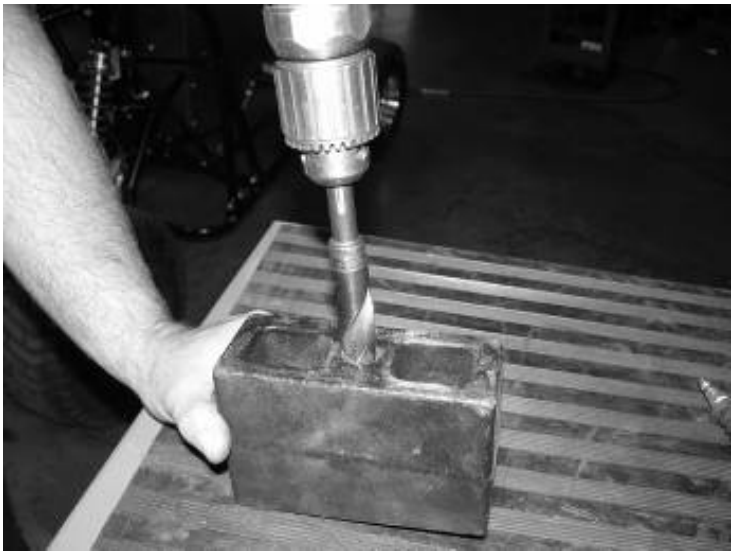
21. Reinstall the front tires and torque the lugs to factory specifications. The factory torque specifications can be found in your owner's manual. Set the truck back onto the ground. **WHILE TURNING THE STEERING WHEEL FULLY IN EACH DIRECTION, MAKE SURE THERE IS AMPLE CLEARANCE BETWEEN THE WHEELS, TIRES, LINK ARMS, BRAKE LINES AND ABS WIRES.**

Install appropriate transmission drop bracket (not included with this kit) at this time as per the instructions included with this kit

REAR INSTRUCTIONS

22. Jack up the rear end of the vehicle and support the frame rails with jack stands. Supporting the rear differential remove and discard the rear shocks and u-bolts. Lower the axle down slowly. Use care not to over extend the brake hoses.

23. Locate the supplied 4" blocks and FT160 Block Pin Sleeve. Use a drill with a ¾" drill bit and drill out the hole in the bottom of the block. Install the Pin Sleeve into the hole in the axle perch and install block with its locating pin into the new sleeve. If the block supplied has an integrated bump stop, make sure the block is installed in the correct orientation so that the bump stop points toward the inside of the vehicle. Using the supplied u-bolts, nuts and washers, from the Coil Spring box, align axle, lift block, and springs and torque to u-bolts to 90lbs. For blocks without the integrated bump stop, the short end of the block should face to the front of the vehicle. SEE PHOTOS IN NEXT COLUMN



NOTE:

Dodge ¾ Ton truck came with two different rear U-Bolt sizes. They differ depending on if your model is GAS or DIESEL. The U-Bolts are either supplied in the Coil Spring Box Kit or the Coilover Hoop Kit.

24. Install new Fabtech shocks Performance or Dirt Logic 2.25" (not supplied with this kit) with the factory hardware and torque upper and lower bolts to 65lbs.

25. Recheck all bolts for proper torque. Recheck brake hoses and lines for proper clearances.
26. 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 tires may require trimming of the front plastic bumper valance.

27. Check front-end alignment and set to factory specifications. Re-adjust headlights.

28. Recheck all the hardware on the suspension that was used for correct toque.

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.

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