



**2007-2011 CHEVROLET C1500  
FTS21103 6" UCA/ SPINDLE KIT**

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[www.fabtechmotorsports.com](http://www.fabtechmotorsports.com)

	<b>FTS21103</b>	<b>GM C1500 6" UCA/SPINDLE KIT</b>
1	FT20431BK	UCA T900 DRVR ASSMBLD
1	FT20432BK	UCA T900 PASS ASSMBLD
1	FTS20463D	SPINDLE MACHINED DRIVER
1	FTS20463P	SPINDLE MACHINED PASSENGER
4	FT1500U-3	UBOLT SQ 9/16-18X12.50X2.63
2	FTBK4	BLOCK 4.0 IN
1	FT20535	HARDWARE SUBASSEMBLY
2	FT20025	REAR BUMPSTOP SPACERS
1	FT20349	REAR BRAKE LINE BRACKET
4	FTS1001	A-ARM BUSHING FTS1001
4	FT1002	BUSHING UCA HALF
4	FT1500-6-101	SLEEVE .750 X .560 X 2.180
4	FT147	HD MISALIGNMENT
1	FT20313	FRONT BRAKELINE BRACKET DRVR
1	FT20314	FRONT BRAKELINE BRACKET PASS
1	FT916H	HARDWARE KIT
2	FT20277	OUTER TIE ROD
1	FT20353	HARDWARE KIT
1	FT20472	HARDWARE KIT
12	2500000505 2	WASHER 1/4 SAE G5 Z1
6	2520000415 2	1/4"-20 C-LOCK NUT
6	2520100105 2	SCREW 1/4-20 X 1 HEX G5 Z1
2	7500000508 1	WASHER FLAT 3/4" - SAE
2	7510000415 2	NUT 3/4-10 CRIMP LOCK G5 Z1
2	7510525108 1	3/4"-10X5/14" HEXCAP BOLT GR8
4	FT84	GREASE FITTING 1/4-28
4	FTCLAMP	CLAMP 3/8X1/2W .26THK NEOPRENE
4	1200800710 0	ZIP TIE 8" BLACK 40 LBS
1	FTLOCK	THREAD LOCKING COMPOUND 1 MIL
2	FT21103I	INSTRUCTIONS

**TOOL LIST: (NOT INCLUDED)**  
**FLOOR JACK**  
**JACK STANDS**  
**ASSORTED METRIC AND**  
**S.A.E SOCKETS, & ALLEN**  
**WRENCHES**

READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION! IF THESE INSTRUCTIONS ARE NOT PROPERLY FOLLOWED, SEVERE FRAME OR UPPER CONTROL ARM DAMAGE MAY RESULT TO THE VEHICLE.

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.

OEM **WHEELS AND TIRES** CAN NOT BE USED AFTER THE INSTALLATION OF THIS KIT. A LARGER TIRE CANNOT BE INSTALLED ON THE OEM WHEELS. WE RECOMMEND AFTER MARKET WHEELS - 17 X 8 WITH A 5.0 BACK SPACE. TIRE – 35 X 12.5 X 17.

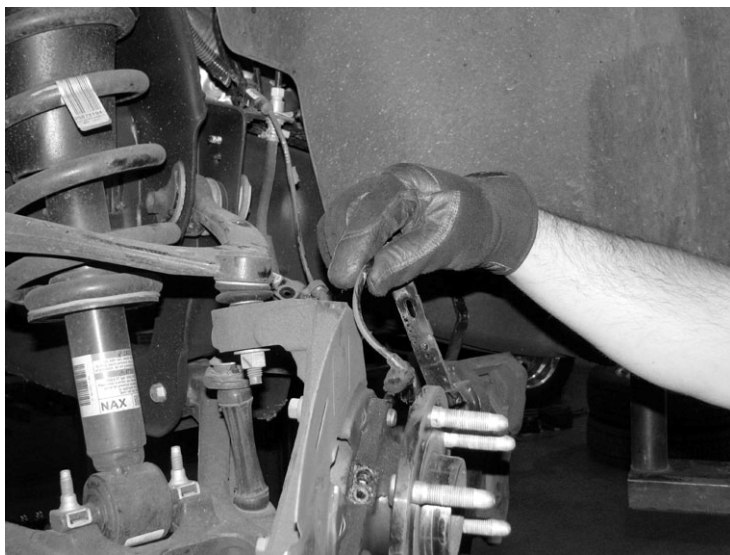
VEHICLES THAT WILL RECEIVE OVERSIZED TIRES SHOULD CHECK BALL JOINTS, TIE RODS ENDS AND IDLER ARM EVERY 2500-5000 MILES FOR WEAR AND REPLACE AS NEEDED

SUSPENSION SYSTEM WILL NOT WORK ON VEHICLES EQUIPPED WITH FACTORY AUTO RIDE SUSPENSION

## **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. Starting on the driver side of the truck, remove the bolt attaching the brake line tab to the spindle. Remove the two bolts securing the brake caliper bracket to the spindle, separate the brake caliper from the spindle and tie it up out of the way. **DO NOT LET THE CALIPER HANG BY THE BRAKE LINE!**
3. Follow the wheel speed sensor wire from the hub to the frame rail. Separate the wire from the upper control arm and separate the connector at the spindle.

SEE PHOTO BELOW



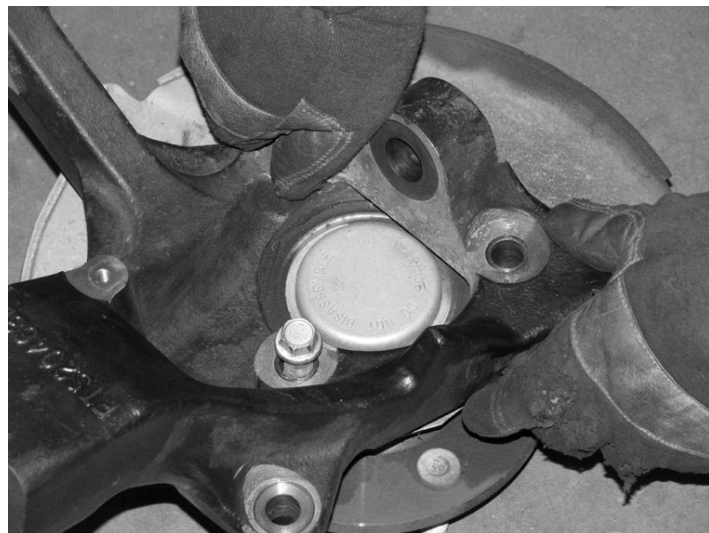
4. Remove the nuts securing the tie rod, upper and lower ball joints to the spindle. Separate all three joints from the spindle and remove the spindle from the control arms. Remove the three bolts securing the wheel bearing assembly to the spindle, noting the position of the hub and dust shield in the spindle for reassembly.

SEE PHOTOS BELOW



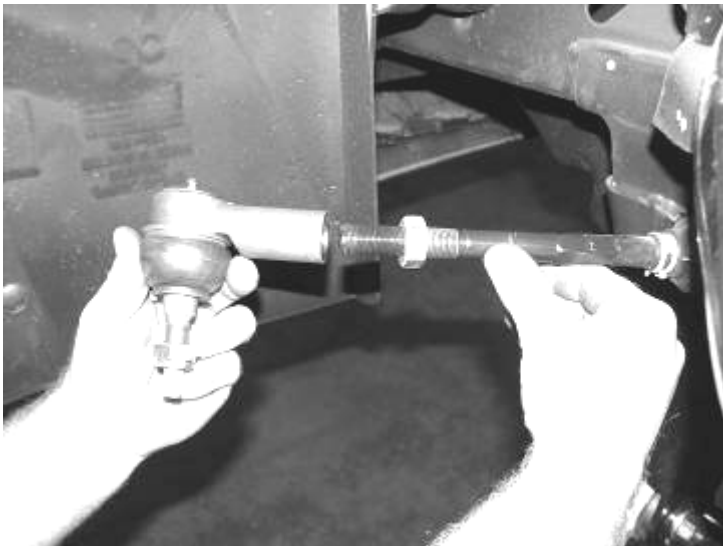
5. Locate the spindle marked FTS20463D. Install the Factory dust shield and hub assembly into the new Fabtech spindle. Apply several drops of the supplied thread locking compound to the three original spindle hub bolts and torque to 160 ft-lbs. Drill out the top taper on the spindle to 3/4" This is to allow for the 3/4" X 5-1/4" bolt to pass through the spindle.

SEE PHOTO BELOW



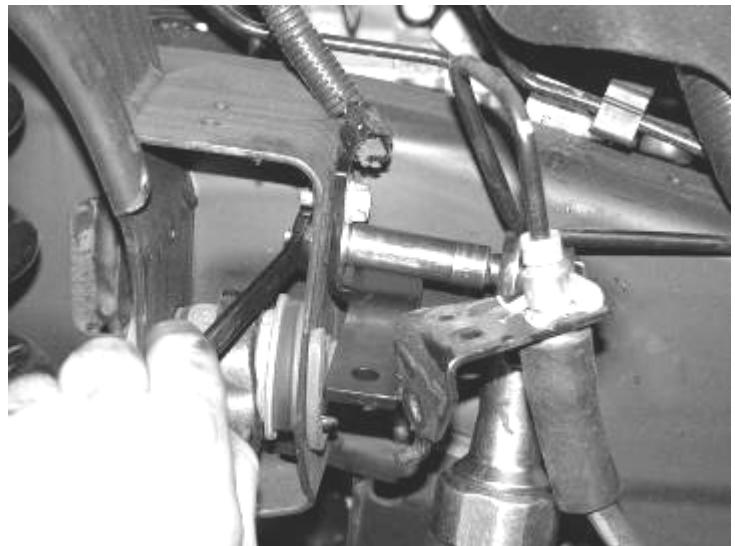
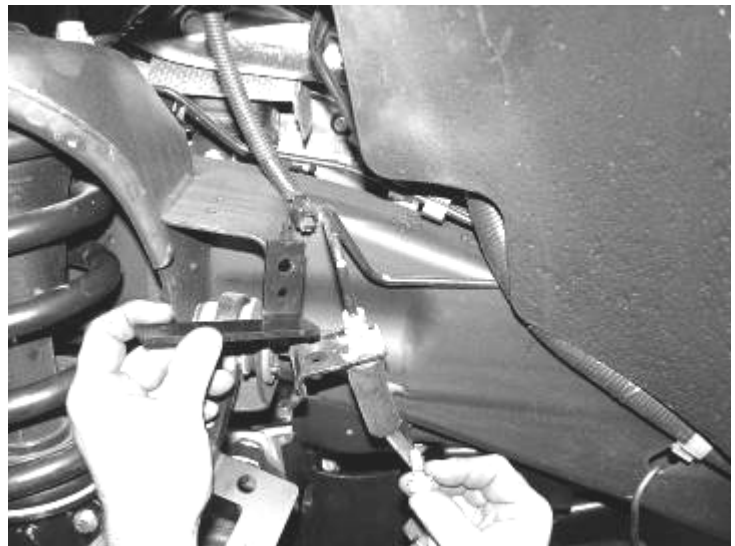
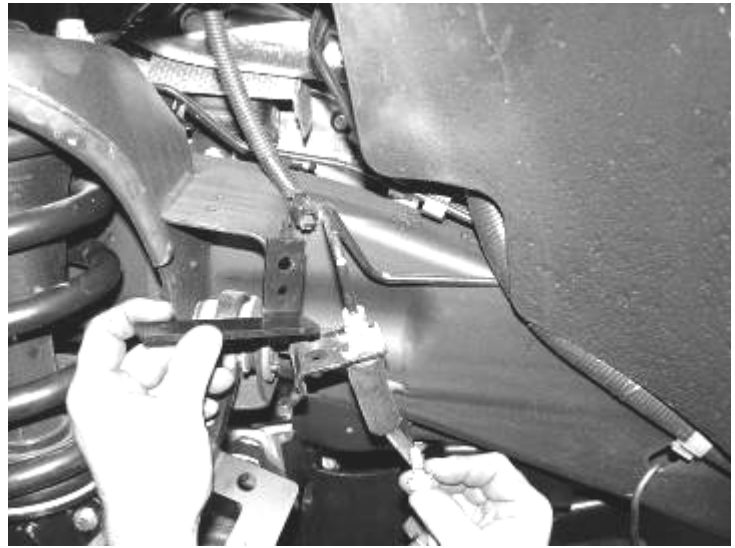
6. Locate the steering knuckle FTS20463D and attach the lower control arm to the spindle using the stock hardware and torque to 70 ft-lbs. Attach the upper control arm to the new knuckle using the 3/4" x 1/4" hardware and (2) FT147 Misalignments. Torque to 300 ft- lbs.
7. Reinstall the brake rotor, caliper and wheel speed sensor. Torque caliper bolts to 100 ft-lbs.
8. Locate FT20277 outer tie rods. Loosen the jam nut and remove the factory outer tie rods and discard, leaving the factory jam nut on the inner tie rod. Install the new outer tie rod onto the inner tie rod until it makes contact with the jam nut. Attach new tie rod end to the knuckle with the supplied nut and torque to 40 ft-lbs. **(This is just a starting point. A final alignment must be performed upon completion of suspension system).**

SEE PHOTOBELOW



9. Locate FT20313 (driv) FT20314 (pass) Brake Line Bracket and 1/4" x 3/4" hardware. Position the new bracket into the factory brake line bracket location and attach with the factory hardware and the 1/4" hardware. Attach the factory brake line bracket to the new Fabtech bracket. Carefully bend the hard brake line and attach with the supplied 1/4" hardware. Torque to 10 ft-lbs.

SEE PHOTOS BELOW



10. Repeat steps 2-9 on the passenger side of the vehicle.
11. Install the front tires and torque the wheel lugs to factory specifications. Set the truck back on the ground. **WHILE TURNING THE STEERING WHEEL FULLY**

**IN EACH DIRECTION, MAKE SURE THERE IS AMPLE CLEARANCE BETWEEN THE WHEELS, TIRES, CONTROL ARMS, BRAKE LINES AND ABS WIRES.**

If installing FTS21088, perform the following steps:

12. Disconnect the negative terminal on the battery. With the u-bolts removed and the rear axle clear of the leaf spring, make sure the block will fully seat onto the leaf spring and the spring pad of the rear axle housing with the wide end of the block to the rear of the vehicle. On the leaf spring make sure the center pin head will seat fully into the hole in the block, allowing the top surface of the block to rest against the leaf spring. If the hole in the block is not large or deep enough, drill it out to fit the center pin. Add 1/16"

or 0.062" to the center pin diameter, and enlarge the hole to this size. Do not enlarge the hole more than that measurement.

13. If the pin in the lift block cannot fully seat into the rear axle spring pad, you will need to shorten the block center pin. To shorten the block center pin, use a hand grinder or sander to remove only as much material as is necessary.
14. Test fit the block after all modifications and complete the installation. Please notify Fabtech Motorsports on any modifications that were made during the installation of this block kit.
15. Check the wheel alignment and set to the factory specifications. Readjust head lights.

**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 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.

Instruction Sheet Part #- FT21088i

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