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2007-2013 CHEVROLET C1500
FTS21082 UPPER CONTROL ARM SYSTEM



	FTS21082	GM C1500 3" UCA KIT
1	FT20431BK	UCA T900 DRVR ASSMBLD
1	FT20432BK	UCA T900 PASS ASSMBLD
1	FT20433	HARDWARE SUBASSEMBLY
1	FT20472	HARDWARE KIT
2	FT21082i	INSTRUCTIONS

	FT20433	HARDWARE SUBASSEMBLY
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	FT20472	HARDWARE KIT

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12	25000005052	WASHER 1/4 SAE G5 Z1
6	25200004152	1/4"-20 C-LOCK NUT
6	25201001052	SCREW 1/4-20 X 1 HEX G5 Z1
2	75000005081	WASHER FLAT 3/4" - SAE
2	75100004152	NUT 3/4-10 CRIMP LOCK G5 Z1
2	75105251081	3/4"-10X5/14" HEXCAP BOLT GR8
4	FT84	GREASE FITTING 1/4-28
4	FTCLAMP	CLAMP 3/8X1/2W .26THK NEOPRENE
4	12008007100	ZIP TIE 8" BLACK 40 LBS
1	FTLOCK	THREAD LOCKING COMPOUND 1 MIL

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 – 33 X 12.5 X 17.

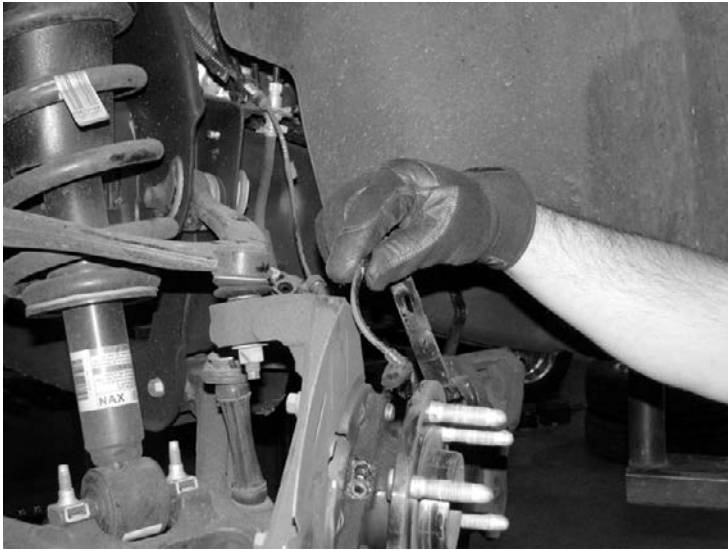
VEHICLES THAT WILL RECEIVE OVERSIZED TIRES SHOULD CHECK BALL JOINTS, TIE RODS ENDS AND IDLER ARM EVERY 2500-5000 MILES FOR WEAR AND REPLACE AS NEEDED

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

INSTRUCTIONS:

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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

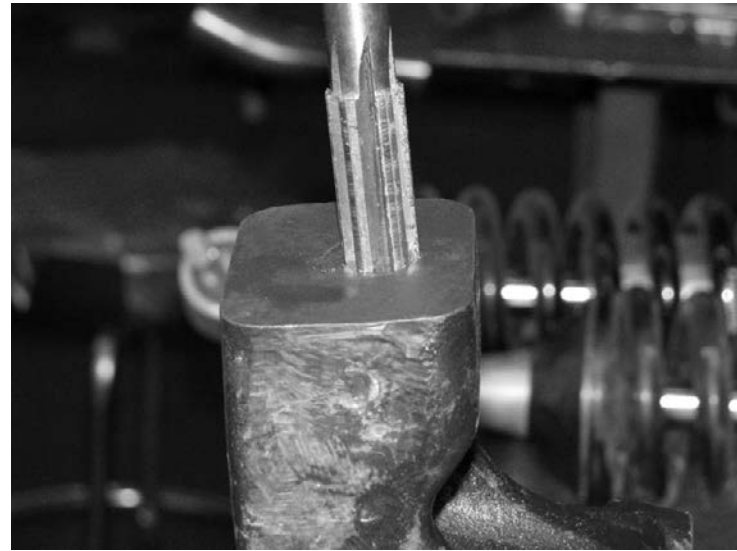


4. Remove the nuts securing the tie rod, upper and lower ball joints to the spindle. Separate all three joints from the spindle and remove the spindle from the control arms.
SEE PHOTO BELOW



5. Drill out the top taper on the factory spindle to $\frac{3}{4}$ ". This is to allow for the $\frac{3}{4}$ " bolt to pass through the spindle.

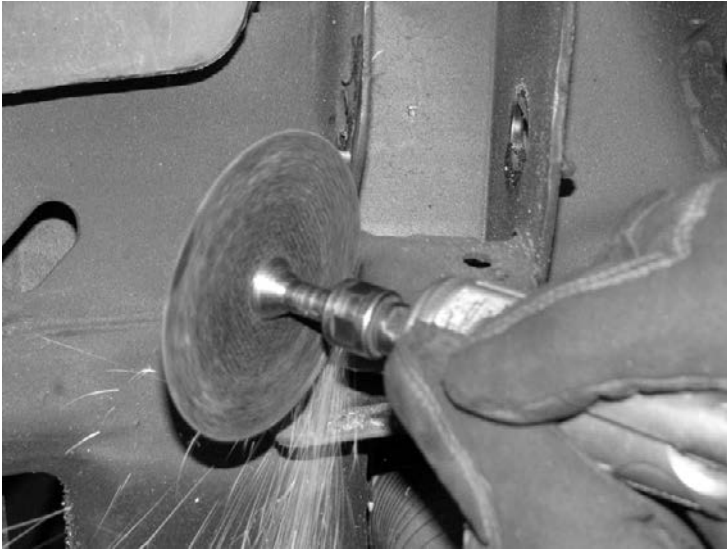
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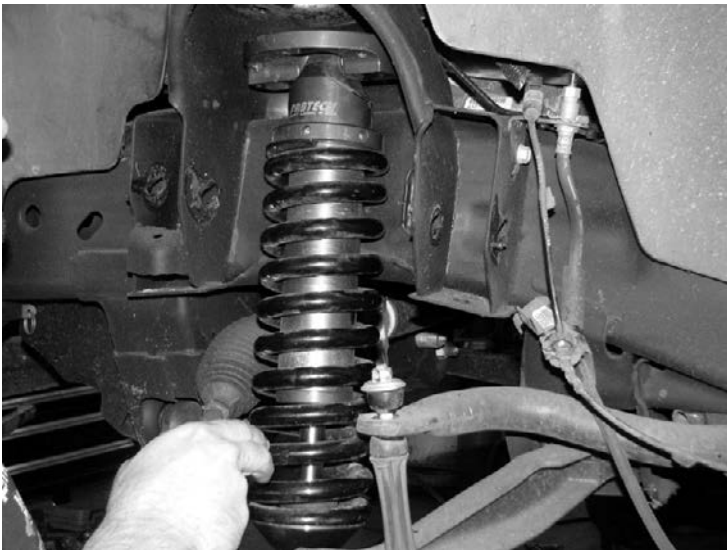
6. Remove the upper control arm from the vehicle and save the factory hardware.
SEE PHOTO BELOW



7. Using a die grinder remove the factory droop stop off the control arm pocket.
SEE PHOTOS BELOW

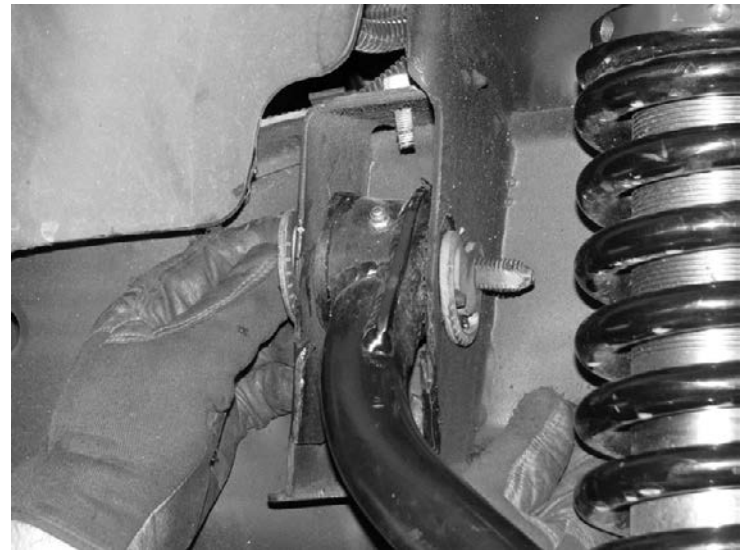


8. Install the coil over shock. If using Fabtech part # FT825261, torque the upper three bolts to 52 ft-lbs and the lower bolt to 83 ft-lbs.
SEE PHOTO BELOW

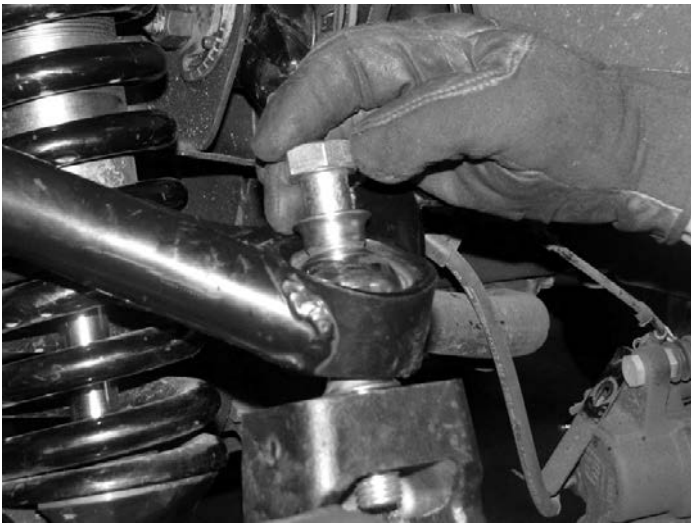
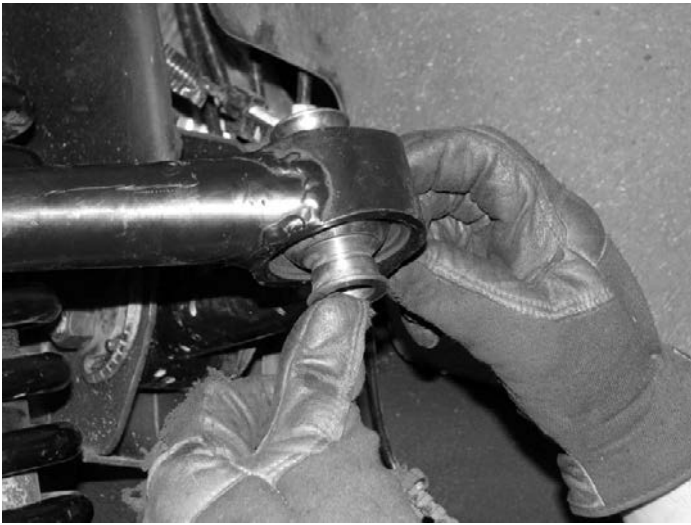


9. Locate the new Fabtech upper control arm FT20431BK, two FTS1001 bushings, two FT1002 bushings and two FT1500-6-101 sleeves. Press the bushings and sleeves into the barrels on the control arm.
10. Install the new control arm in the factory pockets on the frame using the factory hardware. Torque the bolts to 160 ft-lbs.

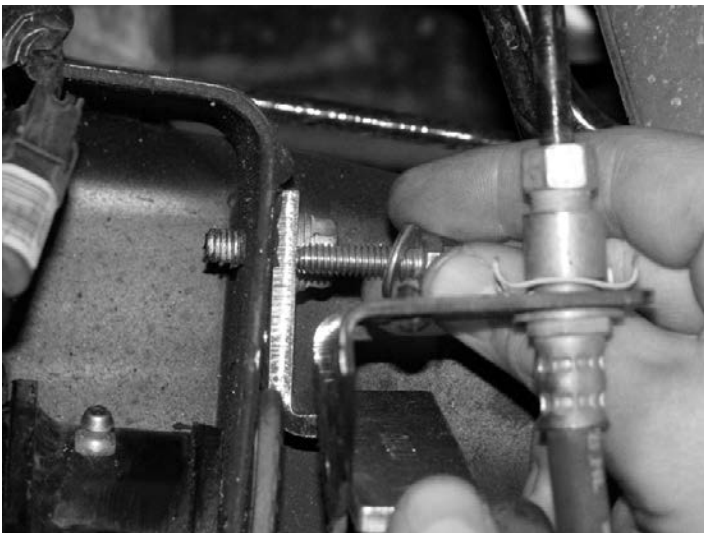
SEE PHOTOS BELOW



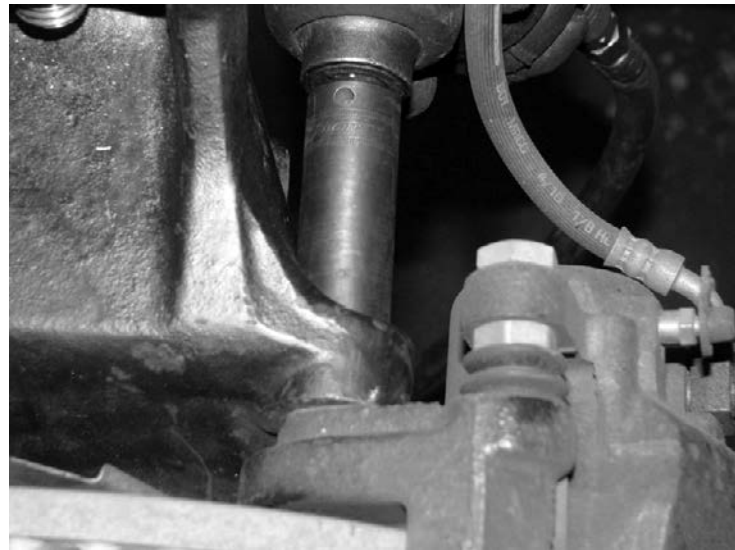
11. Locate the factory spindle, two misalignments FT147, the $\frac{3}{4}$ " -10 x 5- $\frac{1}{4}$ " bolt, nut and washers.
12. Reinstall the factory spindle to the lower ball joint. Place the misalignments in the uni-ball and bolt upright of the spindle to the control arm using the $\frac{3}{4}$ " hardware. Torque the lower ball joint to 100 ft-lbs and the upper assembly to 317 ft-lbs.
SEE PHOTOS BELOW



13. Install the brake line drop FT20313 using the 1/4"-20 x 1" bolts, nuts and washers.
SEE PHOTOS BELOW



14. Reinstall the wheel speed sensor into the hub and reinstall the factory tie rod into the spindle. Torque the tie rod to 74 ft-lbs.
15. Attach the wheel speed sensor wire to the small tab on the control arm using the clamp, 1/4"-20 x 1" bolts nuts and washers.
16. Reinstall the brake caliper and torque to 80 ft-lbs.



17. Repeat steps 3 – 16 on the Passenger side of the vehicle.
18. 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 vehicles may require trimming of the front plastic bumper valance for tire clearance.
19. Align the vehicle and check the brake lines for proper clearance by steering back and forth making sure there is no contact.

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.

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