



4331 EUCALYPTUS AVE. ~~ CHINO, CA 91710
909-597-7800 FAX 909-597-7185
1998-2000 FORD RANGER 2WD
FTS98100-73 3.5" LIFT SPINDLES

PARTS LIST:

	FTS98100-73	98-00 Ranger 2WD Lift Spindle
Qty	Part #	Description
1	FT30360	Hdwr Sub-Assembly Kit
1	FTS98100-73D	Spindle Driver
1	FTS98100-73P	Spindle Passenger

	FT30360	Hdwr Sub-Assembly Kit
Qty	Part #	Description
6	12002007000	Cotter Pin 1/8" X 2"
2	12175701725	12MM-1.75 X 70MM Socket Head Bolt
4	25000005052	1/4" SAE Flat Washer
4	25000005252	1/4" Split Lock Washer
2	25200751052	1/4"-20 X 3/4" Hex Bolt
2	25201751052	1/4"-20 X 1 3/4" Hex Bolt
4	37000005052	3/8" SAE Flat Washer
2	37160003052	3/8"-16 Nylok Nut
2	37162751081	3/8"-16 X 2 3/4" Hex Bolt
2	50130003052	1/2"-13 Nylok Nut
2	50132001081	1/2"-13 X 2" Hex Bolt
2	FT98100-7-101	Steering Stop
2	FT98100-7i	Instruction Sheet
1	FTAS12	Sticker
1	FTAS16	Driver Warning Decal
1	FTLOCK	Thread Locking Compound
1	FTREGCARD	Registration Card

TOOL LIST: (NOT INCLUDED)

FLOOR JACK

JACK STANDS

ASSORTED METRIC AND S.A.E SOCKETS, & ALLEN WRENCHES

DIE GRINDER WITH CUTOFF WHEEL

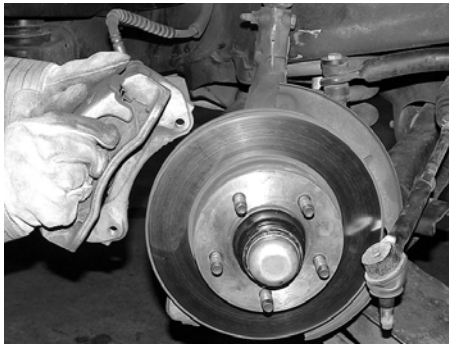
CHECK ALL PARTS INCLUDED IN THIS KIT TO THE PARTS LIST ABOVE BEFORE BEGINNING INSTALLATION OF THE KIT. IF ANY PIECES ARE MISSING, CONTACT FABTECH AT 909-597-7800

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

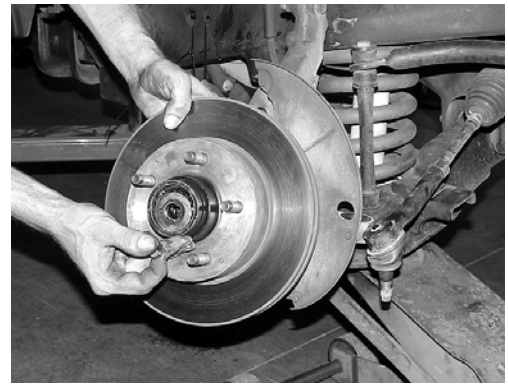
VEHICLES THAT WILL RECEIVE OVERSIZED TIRES SHOULD CHECK BALL JOINTS, TIE RODS ENDS AND IDLER ARM EVERY 2500-5000 MILES FOR WEAR AND REPLACE AS NEEDED.

INSTRUCTIONS:

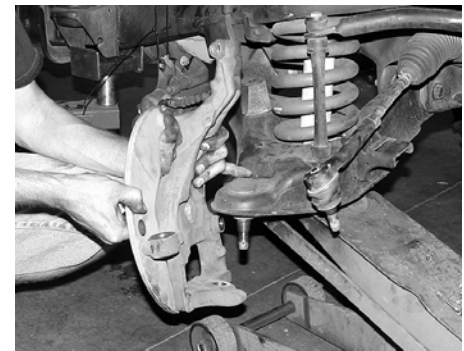
1. Disconnect the negative terminal on the battery. Jack up the front end of the truck and support the frame rails with jack stands. **NEVER WORK UNDER AN UNSUPPORTED VEHICLE!** Remove the front tires.
2. Starting on the passenger side of the truck, remove the two bolts securing the brake caliper to the spindle. Tie the caliper up and out of the way. **DO NOT LET THE CALIPER HANG BY THE BRAKE LINE!** SEE PHOTOS BELOW.



3. Support the lower control arm with a floor jack, using enough tension to compress the control arm 1/4". Remove the cotter pin and castle nut from the tie rod end at the spindle. Separate the tie rod end from the spindle using a tie rod puller. Remove the dust cap from the rotor using a hammer and a chisel. **DO NOT DAMAGE THE CAP, YOU WILL BE REINSTALLING IT LATER.** Slide the rotor and bearings off of the spindle. Keep the bearings in the rotor. Discard the spindle and brake dust shield. SEE PHOTOS BELOW AND IN NEXT COLUMN.

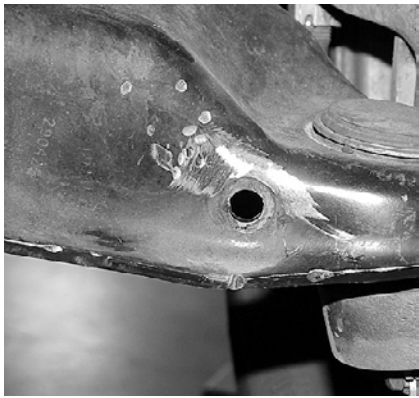


4. If this truck is equipped with front ABS, separate the line from the spindle and set the sensor aside. Remove the top clinch bolt from the spindle. Remove the cotter pin and castle nut from the lower ball joint. Separate the lower ball joint from the spindle and slide the spindle off the ball joints. SEE PHOTOS BELOW.



5. Using a die grinder, remove the inside head of the steering stop on the backside of the lower control arm. Tap out the steering stop with a hammer and punch. Drill out the original hole to 1/2". SEE PHOTO BELOW AND ON NEXT PAGE.





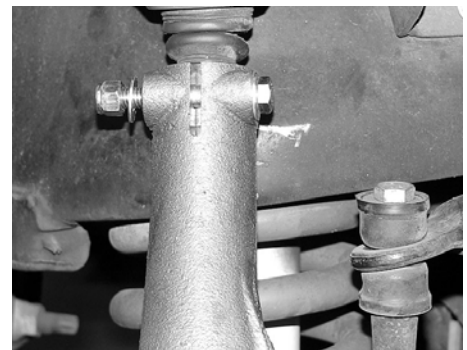
6. Attach the supplied steering stop tube to the outside of the lower control arm using the drilled out hole and the supplied $\frac{1}{2}$ " hardware. Torque the bolt to 70 ft-lbs. SEE PHOTO BELOW.



7. On models with front ABS, attach the sensor to the spindle in the provided hole. Use a $\frac{1}{4}$ " x $1\frac{3}{4}$ " bolt, $\frac{1}{4}$ " lock washer and $\frac{1}{4}$ " flat washer to mount the sensor. Use the $\frac{1}{4}$ " x $\frac{3}{4}$ " bolt, $\frac{1}{2}$ " lock washer and $\frac{1}{4}$ " flat washer to attach the ABS sensor wire to the back of the spindle. SEE PHOTO BELOW AND IN NEXT COLUMN.



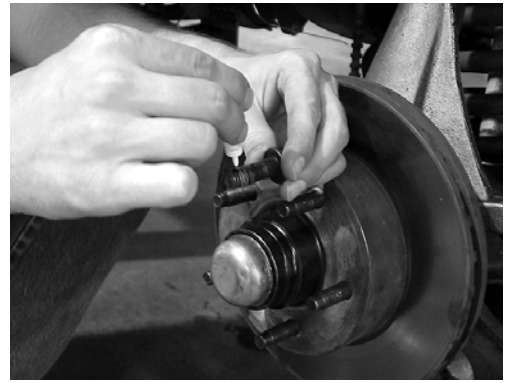
8. Place the passenger side spindle onto the lower ball joint and reinstall the original castle nut. Slide the upper ball joint into the top of the spindle. Insert the supplied $\frac{3}{8}$ " x $2\frac{3}{4}$ " bolt from front to rear through the top clinch hole in the spindle with a $\frac{3}{8}$ " flat washer on each side followed by a lock nut. Torque the top bolt to 30 ft-lbs. Torque the lower castle nut to 70 ft-lbs. and align it with the cotter pin hole in the lower ball joint. Install one of the new supplied cotter pins. Reconnect the ABS sensor wire at the frame. SEE PHOTOS BELOW.



9. Grease the end of the spindle with high temperature brake grease and slide the rotor onto the spindle. You may want to repack the wheel bearings if the bearing grease shows any signs of aging or wear. Replace the original castle nut and tighten it just enough to remove any bearing play in the rotor, make sure the rotor can spin freely. Place the cotter pin locator onto the spindle and install one of the new supplied cotter pins. SEE PHOTOS BELOW.



10. Slide the brake caliper back onto the spindle. Place several drops of thread locking compound onto the original lower brake caliper bolt and attach the caliper to the spindle. Use one of the supplied 12mm-1.75 x 70mm bolts in place of the original upper caliper bolt with thread locking compound. Torque the bolts to 35 ft-lbs. SEE PHOTO BELOW AND IN NEXT COLUMN.



11. Place the tie rod end into the spindle. Reinstall the castle nut and torque it to 35 ft-lbs. Aligning it with one of the cotter pin holes in the tie rod end. Install one of the new supplied cotter pins. SEE PHOTOS BELOW.



12. Repeat steps two through eleven on the opposite side of the truck.
13. Reinstall the front tires and torque the wheel lugs to factory specifications, located in the owner's manual. 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.** Check the alignment and reset it to factory specifications. Re-adjust headlights.

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.