



EZ - Ride Suspension

PART NUMBER : 75290
1998 — 2004 FORD F250 / F350 SUPER DUTY
MULTIPLE SHOCK SYSTEM

PARTS LIST:

Part #	Description	Qty.
DSFF-01	Upper shock brackets	2
DSFFNB	Hardware bag	1
75290NB	Hardware bag	1
DSFFINST	Installation manual	1

The Tuff Country EZ-Ride Suspension product safety label that is included in your kit box must be installed inside the cab in plain view of all occupants.

Congratulations on your selection to purchase a Tuff Country EZ-Ride Suspension System. We at Tuff Country are proud to offer a high quality product at the industries most competitive pricing. Thank you for your confidence in us, and our product.

Before installation begins, it is the customers/installers responsibility to make sure that all parts are on hand. If any parts are missing, please feel free to call one of our customer service representative @ (800) 288-2190.

Make sure to use locktite on all new and stock hardware associated with this installation.

Tuff Country EZ-Ride Suspension recommends using hydraulic shocks in conjunction with the multiple shock system. If nitrogen gas shocks are used in conjunction with the multiple shock system, ride characteristic problems may occur.

If the vehicle that you are working on has a 2.5" leveling system or the 3" shackle relocation kit, 23" fully extended shocks are to be installed.

If the vehicle that you are working on has a 3.5" suspension system, 26" fully extended shocks are to be installed.

If the vehicle that you are working on has a 5" suspension system, 30" fully extended shocks are to be installed.

INSTALLATION MANUAL

1998 — 2004 FORD F250 / F350

SUPER DUTY

MULTIPLE SHOCK SYSTEM

PART # 75290

sj082905rev.02

IMPORTANT CUSTOMER INFORMATION

Tuff Country EZ-Ride Suspension highly recommends that a qualified or a certified mechanic performs this installation.

If you desire to return your vehicle to stock, it is the customers responsibility to save all stock hardware.

It is the responsibility of the customer or the mechanic to wear safety glasses at all times when performing this installation.

It is the customers/installers responsibility to read and understand all steps before installation begins. OEM manual should be used as a reference guide.

This vehicles reaction and handling characteristics may differ from standard cars and/or trucks. Modifications to improve and/or enhance off road performance may raise the intended center of gravity. Extreme caution must be utilized when encountering driving conditions which may cause vehicle imbalance or loss of control. **DRIVE SAFELY!** Avoid abrupt maneuvers: such as sudden sharp turns which could cause a roll over, resulting in serious injury or death.

It is the customers responsibility to make sure that a re-torque is performed on all hardware associated with this suspension system after the first 100 miles of installation. It is also the customers responsibility to do a complete re-torque after every 3000 miles or after every off road use.

After the original installation, Tuff Country EZ-Ride Suspension also recommends having the alignment checked every 6 months to ensure proper tracking, proper wear on tires and front end components. Tuff Country EZ-Ride Suspension takes no responsibility for abuse, improper installation or improper suspension maintenance.

LIMITED LIFETIME WARRENTY

Notice to all Tuff Country EZ-Ride Suspension customers: It is your responsibility to keep your original sales receipt! If failure should occur on any Tuff Country EZ-Ride Suspension component, your original sales receipt must accompany the warranted unit to receive warranty. Warranty will be void if the customer can not provide the original sales receipt.

Do not install a body lift in conjunction with a suspension system. If a body lift is used in conjunction with any Tuff Country EZ-Ride Suspension product, your Tuff Country EZ-Ride Suspension **WARRANTY WILL BE VOID.**

Tuff Country Inc. ("Tuff Country") suspension products are warranted to be free from defects in material and workmanship for life if purchased, installed and maintained on a non-commercial vehicle; otherwise, for a period of twelve (12) months, from the date of purchase and installation on a commercial vehicle, or twelve thousand (12,000) miles (which ever occurs first). Tuff Country does not warrant or make any representations concerning Tuff Country Products when not installed and used strictly in accordance with the manufacturer's instructions for such installation and operation and accordance with good installation and maintenance practices of the automotive industry. This warranty does not apply to the cosmetic finish of Tuff Country products nor to Tuff Country products which have been altered, improperly installed, maintained, used or repaired, or damaged by accident, negligence, misuse or racing. ("Racing is used in its broadest sense, and, for example, without regards to formalities in relation to prizes, competition, etc.) This warranty is void if the product is removed from the original vehicle and re-installed on that or any other vehicle. This warranty is exclusive and is in lieu of any implied warranty of merchantability, fitness for a particular purpose or other warranty of quality, whether express or implied, except the warranty of title. All implied warranties are limited to the duration of this warranty. The remedies set forth in this warranty are exclusive. This warranty excludes all labor charges or other incidental of consequential damages. Any part or product returned for warranty claim must be returned through the dealer of the distributor from whom it was purchased. Tuff Country reserves the right to examine all parts returned to it for warranty claim to determine whether or not any such part has failed because of defect in material or workmanship. The obligation of Tuff Country under this warranty shall be limited to repairing, replacing or crediting, at its option, any part or product found to be so defective. Regardless of whether any part is repaired, replaced or credited under this warranty, shipping and/or transportation charges on the return of such product must be prepaid by the customer under this warranty.

Hardware Bag DSFFNB Includes:

Description	Quantity
1/2" x 7 1/2" bolt	2
7/16" USS flat washer	4
1/2" unitorque nuts	2

Hardware Bag 75290NB Includes:

Description	Quantity
P19 (universal shock bolt)	6
S10014 (.620" x .500" x 1.500")	2
S10083 (.620" x .500" x 1.500" sleeve with washer welded	2

Before installation begins, drive and check to make sure that there are no uncommon sounds and/or frame damage.

1. To begin installation, block the rear tires of the vehicle so that the vehicle is stable and can't roll backwards. Safely lift the front of the vehicle and support the frame with a pair of jack stands. Place a jack stand on both the driver and passenger side. Next, remove the wheels and tires from both sides.

2. Working on the driver side, remove the stock shock from the stock upper and lower location and discard the stock shock and hardware. New shocks and hardware will be used. Repeat procedure on passenger side.

3. Working on the driver side, remove the (3) stock bolts that hold the stock upper shock bracket to the frame rail. The stock upper bracket may be discarded. Save the stock hardware for later re-installation. Repeat procedure on passenger side.

If the vehicle that you are working on is going to have 2 shocks per side, follow steps 4—8

If the vehicle that you are working on is going to have 3 shocks per side, follow steps 9—13

4. Locate (2) new upper multiple shock brackets and (4) universal shock bolts. Install (2) new universal shock bolts to the new upper brackets outside holes. **Torque to 85 ft. lbs.**

5. Working on the driver side, install the new upper multiple shock bracket into the stock location and secure using the stock hardware that was removed in step # 3. **Torque to 70 ft. lbs.** Repeat procedure on passenger side.

See Illustration # 1

6. Working on the driver side, drill the stock lower shock mount hole to a 1/2". Repeat procedure on passenger side.

See Illustration # 2

7. Working on the driver side, install the new shocks to the newly installed upper shocks bracket and secure using the new hardware for the universal shock bolt. **Special Note: Make sure to use a lithium or moly base grease on all shock bushings prior to installation. Refer to the shock sizes on the front page of the installation manual.**

See Illustration # 3

8. Locate (4) lower shock sleeves, (2) anti-crush sleeves, (2) 1/2" x 7 1/2" bolts, (4) 7/16" USS flat washers and (2) 1/2" unitorque nuts. Working on the driver side, install the new lower shock sleeves into the lower eyelets of the new shocks. Secure the new shocks to the stock lower shock bracket using the new 1/2" x 7 1/2" bolt and hardware. **Torque to 85 ft. lbs.** Repeat procedure on passenger side.

See Illustration # 4

If the vehicle that you are working on is only getting 2 shocks per side, skip to step # 14.

9. Locate (2) new upper multiple shock brackets and (6) universal shock bolts. Install (3) new universal shock bolts to the new upper brackets. **Torque to 85 ft. lbs.**

10. Working on the driver side, install the new upper multiple shock bracket into the stock location and secure using the stock hardware that was removed in step # 3. **Torque to 70 ft. lbs.** Repeat procedure on passenger side.

See Illustration # 5

11. Working on the driver side, drill the stock lower shock mount hole to a 1/2". Repeat procedure on passenger side.

See Illustration # 2

12. Working on the driver side, install the new shocks to the newly installed upper shocks bracket and secure using the new hardware for the universal shock bolt. **Special Note: Make sure to use a lithium or moly base grease on all shock bushings prior to installation. Refer to the shock sizes on the front page of the installation manual.**

See Illustration # 6

13. Locate (4) lower shock sleeves, (2) anti-crush sleeves, (2) 1/2" x 7 1/2" bolts, (4) 7/16" USS flat washers and (2) 1/2" unitorque nuts. Working on the driver side, install the new lower shock sleeves into the lower eyelets of the (2) new outside shocks. Next, install the new anti-crush sleeve into the lower eyelet of the middle shock. Secure the new shocks to the stock lower shock bracket using the new 1/2" x 7 1/2" bolt and hardware. **Torque to 85 ft. lbs.** Repeat procedure on passenger side.

See Illustration # 7

14. Working on the driver side, re-install the tires and wheels. Repeat procedure on passenger side.

15. Carefully lower the vehicle to the ground.

Congratulations Installation Complete

Check and double check to make sure that all steps were performed properly. Also at this time check and double check to make sure that all bolts are torqued to proper specifications. Refer to the torque setting on the last page of the installation manual.

Torque Specifications

5/16"	15-18 ft. lbs.	3/8"	28-32 ft. lbs.
7/16"	30-35 ft. lbs.	1/2"	65-85 ft. lbs.
9/16"	75-90 ft. lbs.	5/8"	85-110 ft. lbs.
3/4"	105-125 ft. lbs.		

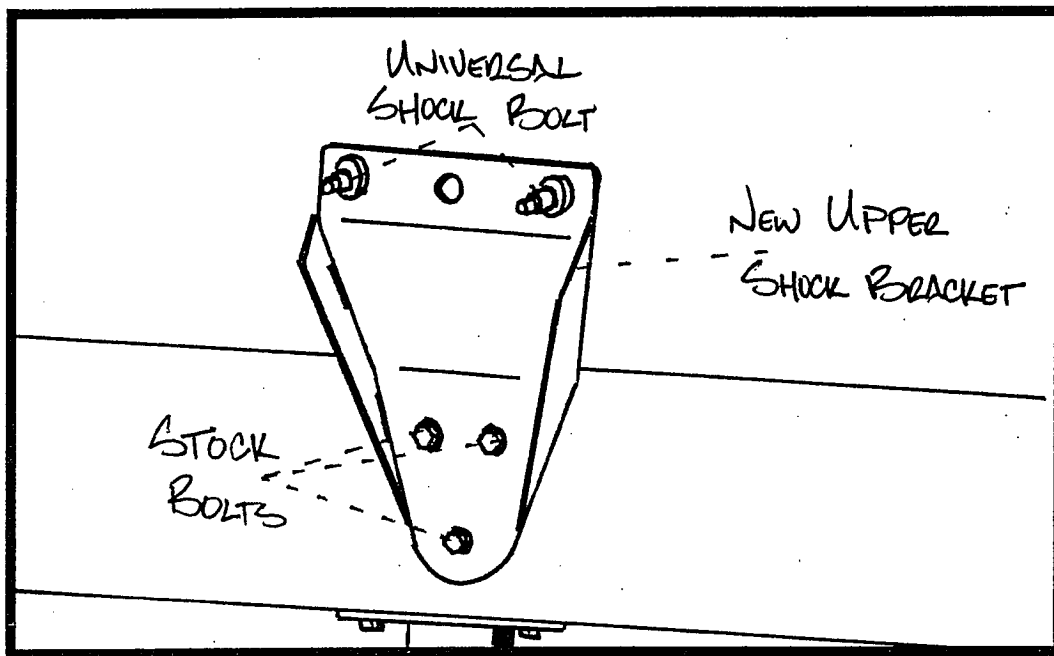


Illustration # 1

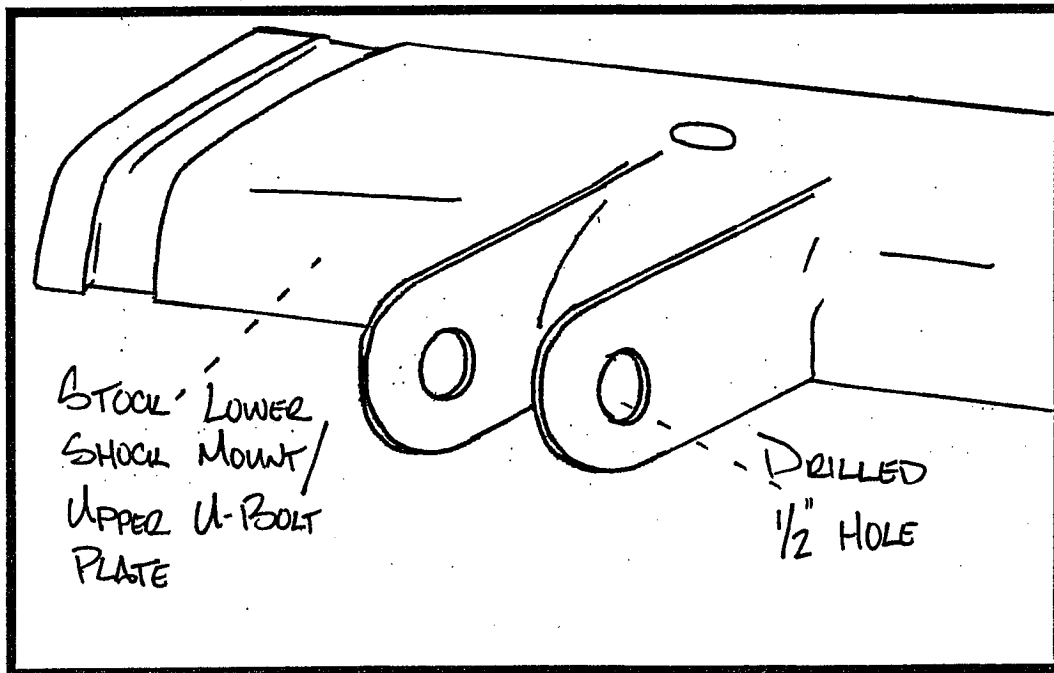


Illustration # 2

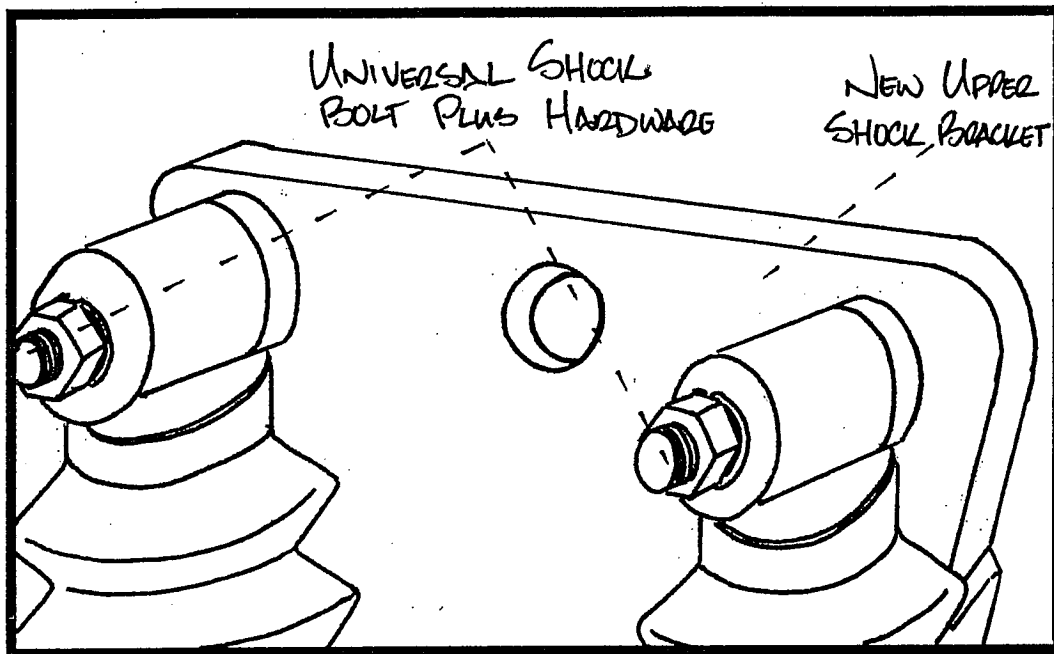


Illustration # 3

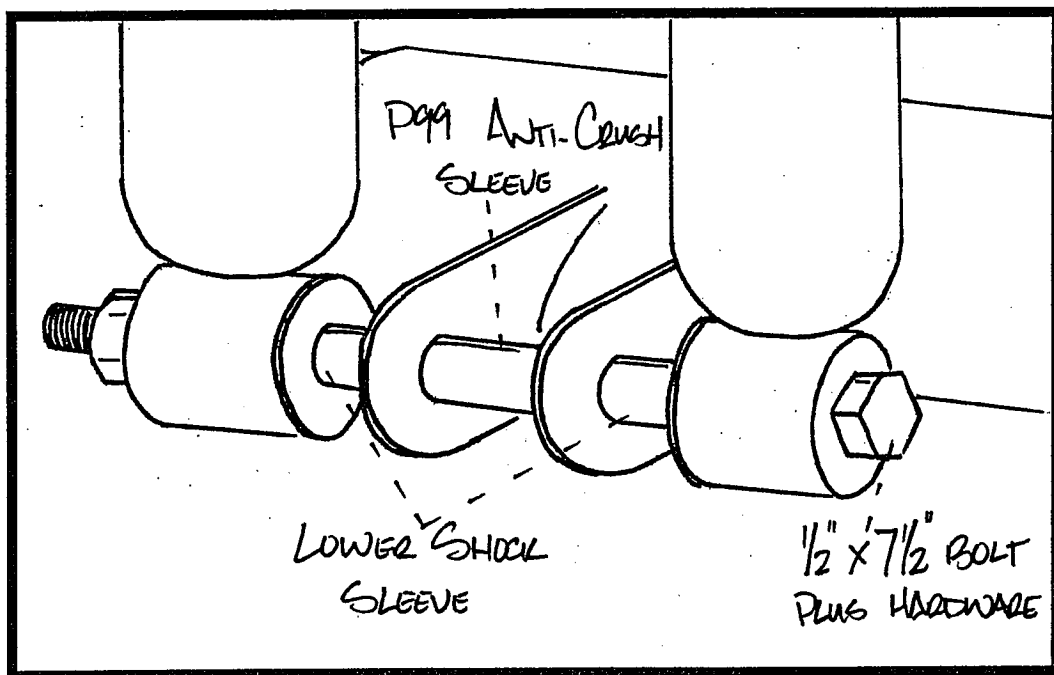


Illustration # 4

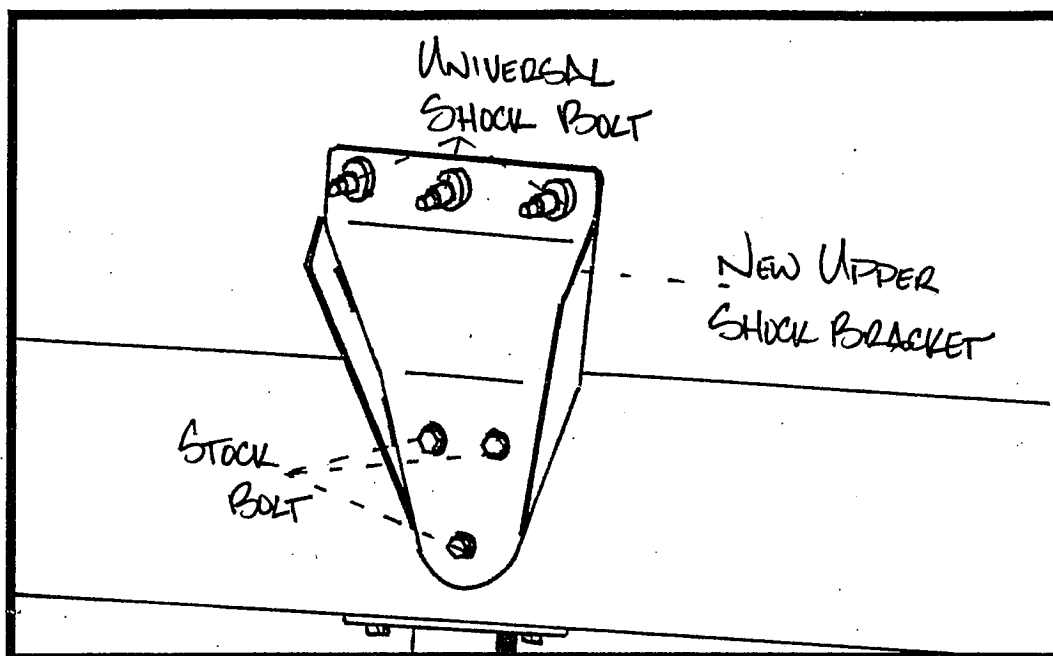


Illustration # 5

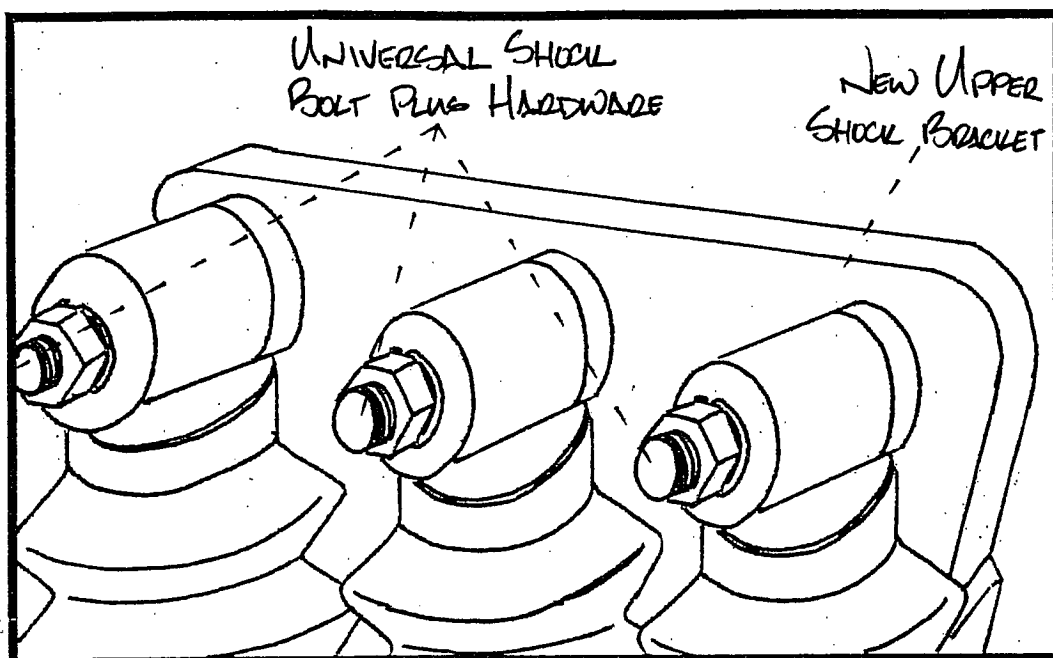


Illustration # 6

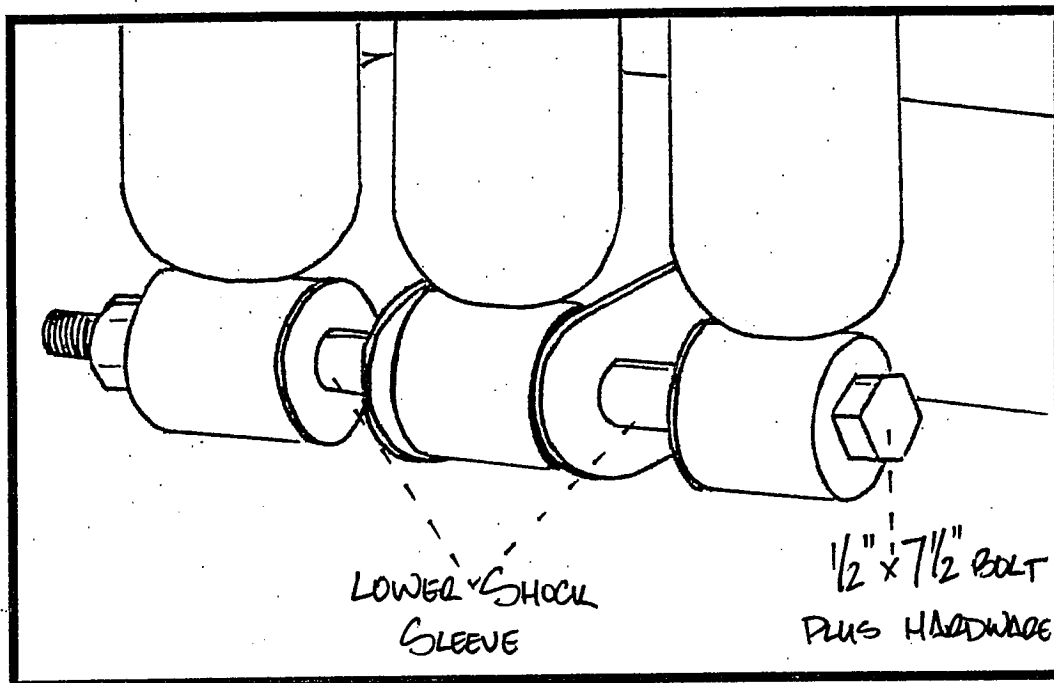


Illustration # 7