



TUFF COUNTRY

EZ-RIDE SUSPENSION

INSTALLATION MANUAL

RANGER 1985-1995

4" SUSPENSION LIFT

PART # R4B

System Parts Check List

| Description | Qty. |
|---|------|
| R4CL-01 - Front Coil Springs | 2 |
| TCI-R15 - Rear add-a-leafs | 2 |
| CB381 - 3/8" Centering Bolts with Nuts | 2 |
| R401 - Axle Pivot Drop Bracket (Front-Large) | 1 |
| R402 - Axle Pivot Drop Bracket (Rear-Small) | 1 |
| R403 - Driver Side Radius Arm Drop Bracket | 1 |
| R404 - Passenger Side Radius Arm Drop Bracket | 1 |
| R405 - Axle Pivot Gusset | 1 |
| F405 - Front Sway Drop Brackets | 2 |
| CAM-01 - 9/16" x 3 1/2" Cam Bolts | 2 |
| CAM-02 - Cam Washers | 4 |
| 916UN - 9/16" Unitorque Nuts | 2 |
| 5U-144R - 1/2" x 2 3/4" x 9 1/2" Round "U" Bolt | 4 |
| 12NW - 1/2" "U" Bolt Nuts and Washers | 1 |
| R4NB - Hardware Bag | 1 |

Please following instructions carefully.

Front End Installation:

1. To begin installation, block the rear tires and safely raise front of vehicle with an air or hydraulic jack and place a pair of jack stands under frame. Place one jack stand on each side of vehicle.

2. Remove front tires and shocks.

3. Remove anti-sway bar endlinks from both sides of the axle. Also disconnect from frame rail. (If so equipped.)

4. To remove stock passenger side Radius Arm Bracket, place a hydraulic jack under the center of the stock radius arm. Drill or chisel off frame rivots and remove stock bolts from stock radius arm. Drill all stock holes on frame and stock radius arm drop brackets to 1/2". **Note: Stock brackets will be re-used. (See Illustration # 1)**

5. Locate part # R404 (Passenger Side Radius Arm Drop hardware bag find (8) 1/2" x 1 1/2" Bolts, (8) 1/2" Lock Nuts and (16) 1/2" Flat Washers. Install new passenger side radius arm drop bracket between frame and original radius arm bracket. Secure with 1/2" hardware. Torque to 70 ft lbs. **(See Illustration # 2)**

6. To remove stock driver side Radius Arm Bracket, place a hydraulic jack under axle on driver side of vehicle. Drill or chisel off frame rivets and remove stock bolts. Drill all stock holes on frame and stock radius arm drop brackets to 1/2". **Note: Stock brackets will be re-used.**

Congratulations on your selection to purchase a Tuff Country 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.

***Important Notes:** Please read before beginning installation. **Do Not Install a Bodilift in combination with a suspension system. If Bodilift is installed warranty will be void.**

Read and understand all sections of instruction manual. Check off parts list to be sure all parts are on hand. If any part is missing, you may call Tuff Country at: (800) 288-2190.

TUFF COUNTRY SUSPENSION highly recommends a qualified and or certified mechanic to perform this installation.

Front end alignment will be required.

7. Locate part # R403 (Driver Side Radius Arm Drop Bracket), Locate part # R4NB (Hardware Bag). From hardware bag find (8) 1/2" x 1 1/2" Bolts, (8) 1/2" Lock Nuts and (16) 1/2" Flat Washers. Install new driver side radius arm drop bracket between frame and original radius arm bracket. Secure with 1/2" hardware. Torque to 70 ft lbs.

8. Place hydraulic jack in the center of the driver side axle. Remove axle pivot bolt out of stock bracket and discard. Lower down on jack so that the axle comes out of stock bracket. Remove the stock bolts from front stock axle pivot bracket and save for later use. **Note: The stock axle pivot bracket operates the driver side axle and is located on the passenger side of vehicle which is the front bracket.**

10. Locate part # R401 (Driver Side Axle Pivot Bracket). Locate part # R4NB (Hardware Bag). From hardware bag find (1) 1/2" x 1 1/2" bolt, (1) 1/2" Lock nut and (2) 1/2" Flat washers. Install new Driver Side axle pivot bracket in to stock holes using stock hardware. **(See Illustration # 3)** On the side of the new bracket there is a tab welded. Drill a 1/2" hole into stock crossmember using new bracket as a guide. Secure with 1/2" hardware. **(See Illustration # 4)**

11. Locate part No. (1) CAM-01 (9/16" x 3 1/2" Cam Bolt), (2) CAM-02 (Cam Washers) and (1) 916UN (9/16 unitorque nut). Jack up driver side axle so that Cam bolt can be put through new bracket and axle.

Secure with Cam bolt hardware. **Note: Center Cam bolt and washer. The alignment shop will align to proper specs. (See Illustration # 3)**

12. Locate part No. R4-02 (Passenger Side Axle Pivot Drop Bracket), R4-05 (Axle Pivot Gusset). From R4NB locate (5) 7/16" x 1 1/2" bolts, (1) 1/2" x 1 1/2" bolt, (5) 7/16" Lock nuts, (1) 1/2" Lock nut, (10) 7/16" Flat Washers and (1) 1/2" Lock nut.

13. Install axle pivot gusset bracket to the top of new passenger side axle pivot bracket using 1/2" hardware. Now install passenger side axle pivot bracket into stock holes on crossmember using 7/16" hardware. (See Illustration # 5)

14. Locate part No. (1) CAM-01 (9/16" x 3 1/2" Cam Bolt), (2) CAM-02 (Cam Washers) and (1) 916UN (9/16 unitorque nut). Jack up passenger side axle so that Cam bolt can be put through new bracket and axle. Secure with Cam bolt hardware. **Note: Center Cam bolt and washer. The alignment shop will align to proper specs. (See Illustration # 6)**

Front Coil Installation

15. Locate part No. R4CL-01 (Front Coil Springs). Place a hydraulic jack under driver side of front axle. Remove lower 1 1/8" retaining nut and washer from driver side stock coil spring. On driver side radius arm remove coil clip that holds coils spring into place. **Note: save both hardware for later use.** Lower down on axle so that stock coil spring can be removed. Twist on stock coil spring so that it can be removed. Install new 4" coil spring on driver side and jack up on axle until coil spring sets into saddle. Install coil clip into stock hole, then re-install lower 1 1/8" retaining nut and washer to lower stock bolt. **Note: Smaller spring opening fits over the bottom saddle, larger spring opening fits in the top pocket.**

16. Locate part No. R4CL-01 (Front Coil Springs). Place a hydraulic jack under passenger side of rear axle. Remove lower 1 1/8" retaining nut and washer from passenger side stock coil spring. On passenger side radius arm remove coil clip that holds coils spring into place. **Note: save both hardware for later use.** Lower down on axle so that stock coil spring can be removed. Twist on stock coil spring so that it can be removed. Install new 4" coil spring on passenger side and jack up on axle until coil spring sets into saddle. Install coil clip into stock hole, then re-install lower 1 1/8" retaining nut and washer to lower stock bolt. **Note: Smaller spring opening fits over the bottom saddle, larger spring opening fits in the top pocket.**

17. Install new front shocks (not included in this kit), wheels and tires.

Coil Spring Installation Complete

17. Locate part No. F405 (Sway Bar Drop Bracket), (4) 7/16 x 1 1/2" bolts, (4) 7/16" lock nuts and (8) 7/16" Flat washers from R4NB. Place sway bar drop bracket between stock mount on frame and stock sway bar on driver side. Use stock bolts to secure bracket to stock upper frame. Use new 7/16" hardware to secure sway bar to the bottom of new bracket. Repeat on passenger side. Re-install anti-sway bar endlinks to axle using stock hardware. **Note: if your vehicle is not equipped with a front sway bar discard bracket and hardware and skip step 17.**

Rear end Installation

18. To begin installation, block the front tires and safely raise rear of vehicle with an air or hydraulic jack and place a pair of jack stands under frame. Place one jack stand on each side of vehicle.

19. Remove wheels, tires and stock shocks.

20. Place hydraulic jack under axle on driver side. Remove stock "U" bolts and discard. If vehicle is equipped with a rear sway bar, loosen axle clamp bolts. Lower down on hydraulic jack until spring releases from spring perch. Place two C-clamps on stock spring about 4" from each side of stock centering bolt and tighten. Remove stock centering bolt and discard. Now slowly remove the two C-clamps until springs come apart.

21. Locate part No. TCI-R15 (Rear add-a-leaf), CB38 (3/8" Centering Bolts and nuts). Place new add-a-leaf between existing spring assembly in progression of size order. (Longest to shortest). **Note: Do not install new leaf under the original factory overload spring. The overload leaf is usually the large, un-arched leaf at the bottom of the spring assembly.** Now use C-clamp to compress springs back together and secure with new 3/8" centering bolt and nuts. Cut off extra thread on bolt. Raise up on hydraulic jack until springs sit into spring perch.

22. Locate part No. 5U-144R (1/2" x 2 3/4" x 9 1/2" Round "U" bolts) and 12WA (1/2" "U" bolt nuts and washers). Install new "U" bolts around axle and spring assembly and secure with nuts and washers. **Torque to 85 ft. lbs.**

Repeat steps 20-22 on passenger side.

23. Tighten up bolts that were loosen on rear sway bar.

24. Install new shocks (not included with this kit), wheels and tire.

Check and double check to make sure all steps were performed properly. After first 100 miles and every off-road us re-check all hardware to make sure they are at proper torque settings

Take directly to alignment shop for front end alignment.

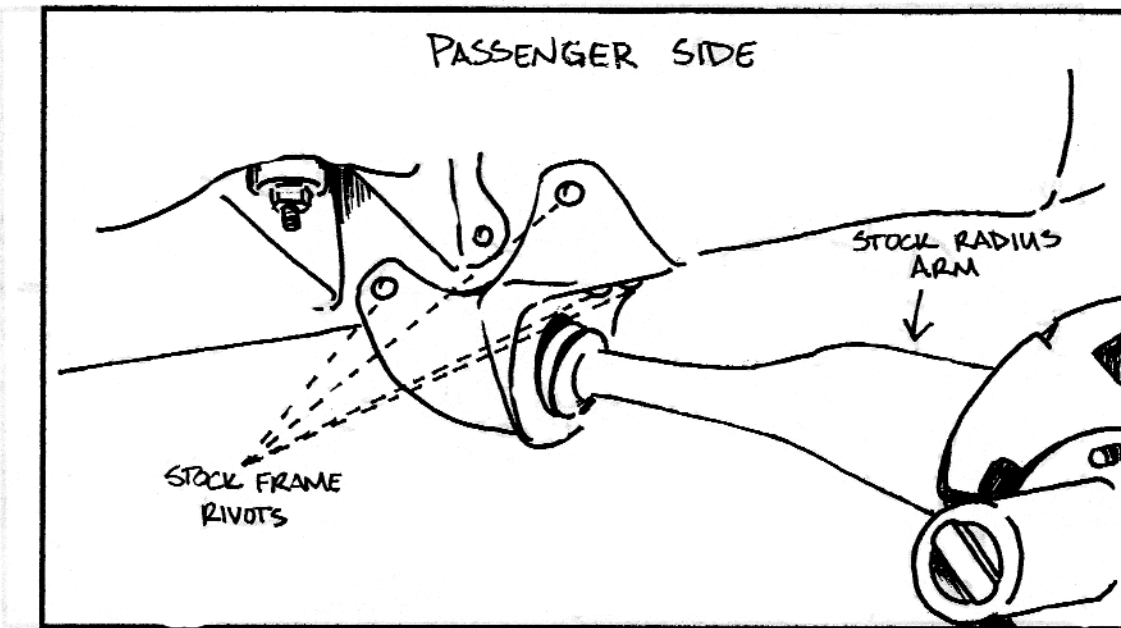


ILLUSTRATION # 1

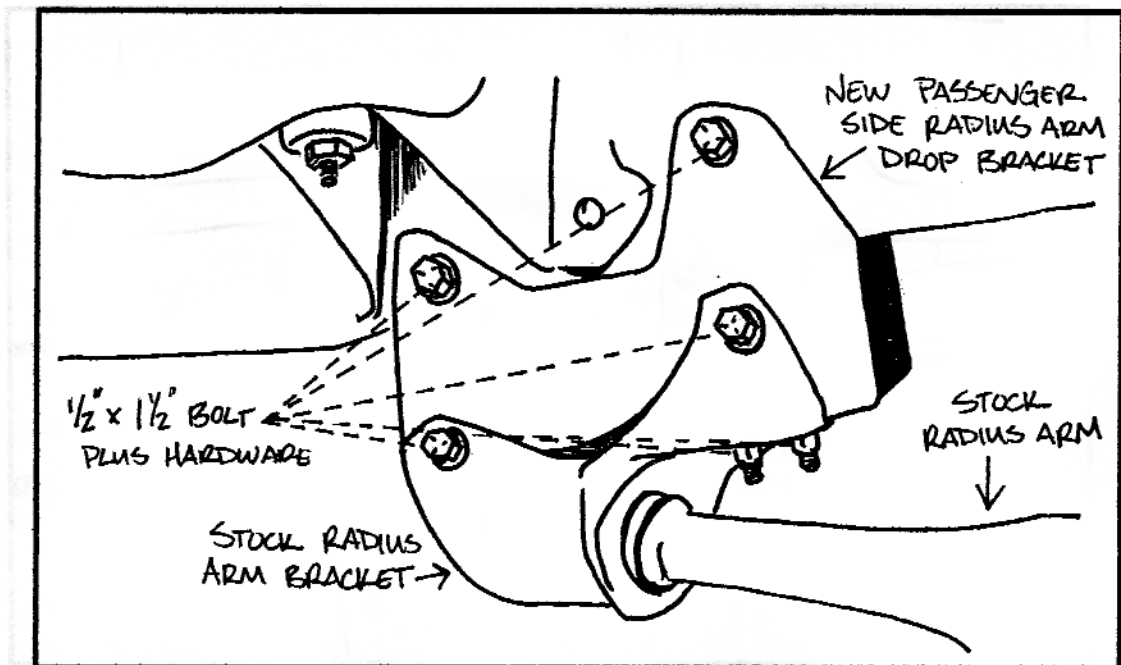


ILLUSTRATION # 2

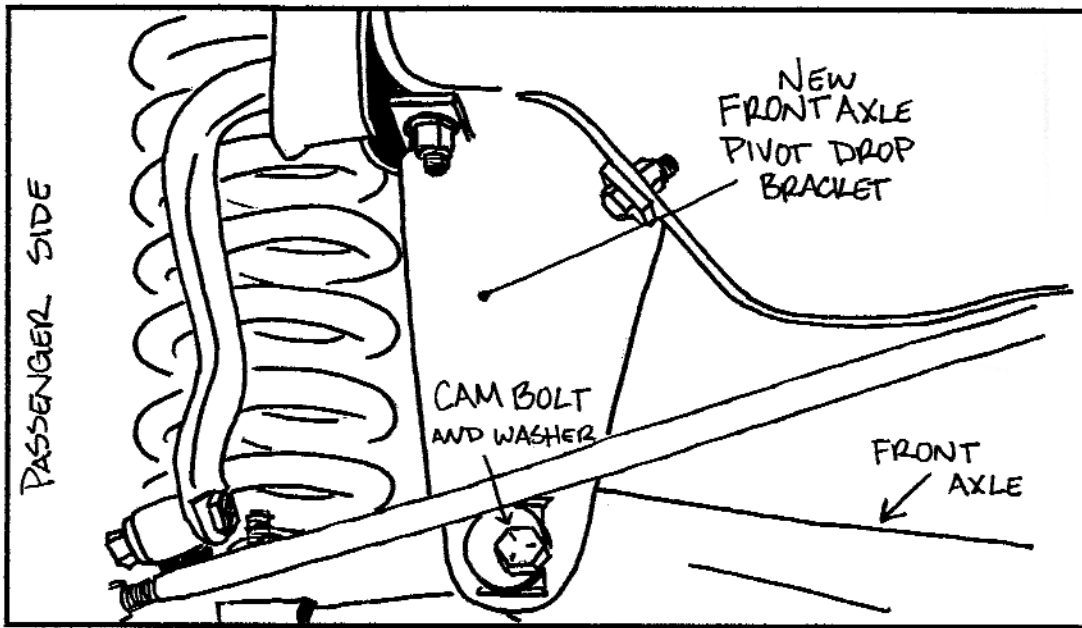
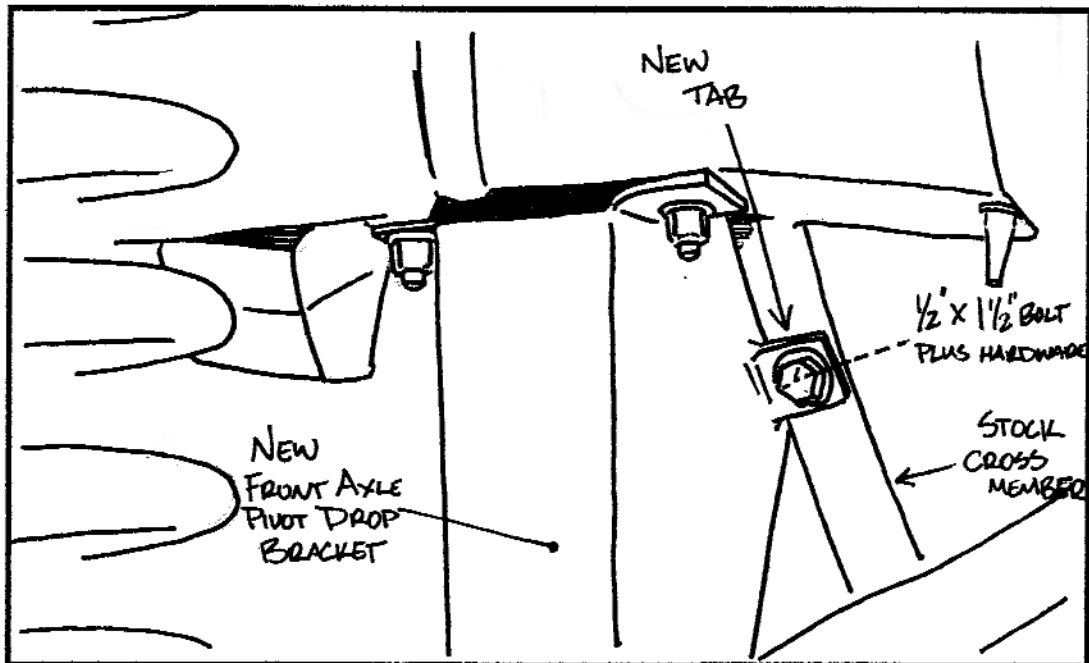


ILLUSTRATION # 3



ILLUSTRATION# 4

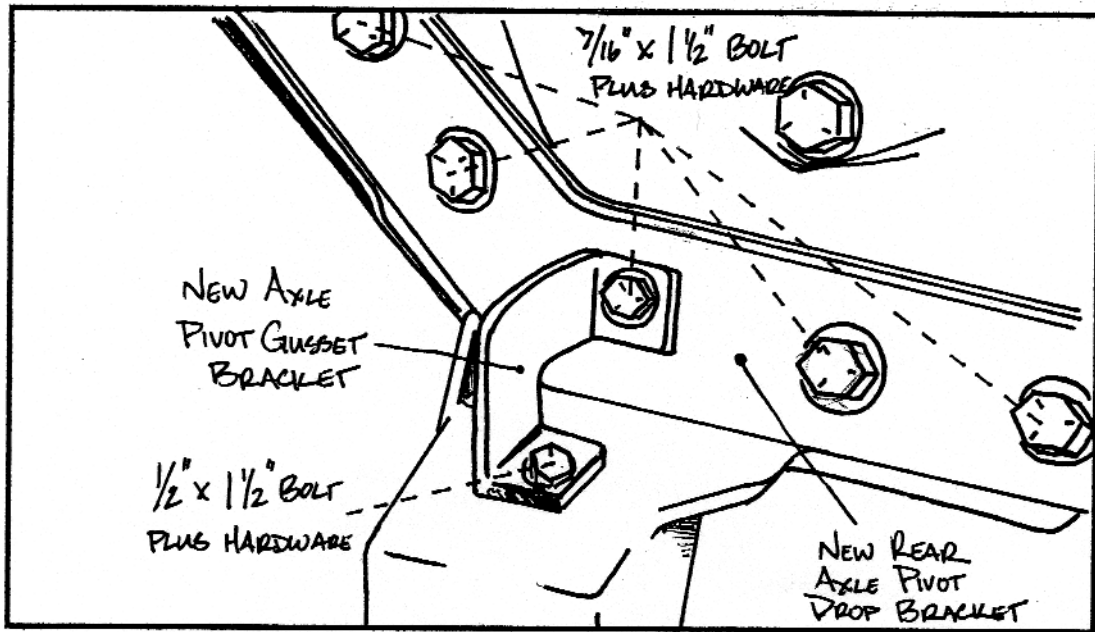


ILLUSTRATION # 5

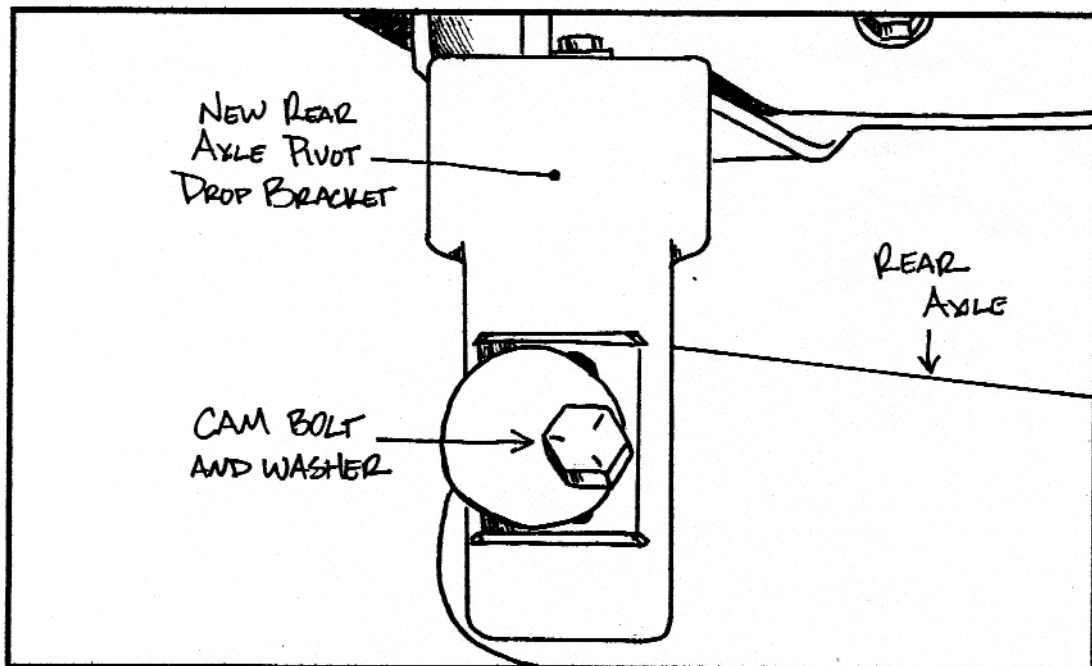


ILLUSTRATION # 6