



## **EZ - Ride Suspension**

INSTALLATION MANUAL  
 4" RADIUS ARM  
 RELOCATION BRACKET  
 1983 — 1997 FORD RANGER  
 1991 — 1994 FORD EXPLORER  
 PART # 20774

(supersedes R4RAD)  
 sj071105rev.01

**PART NUMBER : 20774 (supersedes R4RAD)**  
**1983 — 1997 Ford Ranger**  
**1991 — 1994 Ford Explorer**  
**4" Radius arm relocation bracket**

### **PARTS LIST:**

<b>Part #</b>	<b>Description</b>	<b>Qty.</b>
R403	DS radius arm relocation bracket	1
R404	PS radius arm relocation bracket	1
12112B	1/2" x 1 1/2" bolts	16
716WA	7/16" flat washers	32
12UN	1/2" unitorque nuts	16
20774INST	Instruction sheet	2
MIRRORHANGER	Rear view mirror warning hanger	1
WARNINGDECAL	Warning decal	1

### **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.**

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

**Make sure to use thread locker or locktite on all new and stock hardware associated with the installation of this suspension system.**

**It is the responsibility of the installers to make sure that the rear view mirror hanger is hung from the rear view mirror. The rear view mirror hanger has instructions on proper post installation procedure.**

**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.**

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

**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.***

**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 WARRANTY

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 or 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.

## Special Note:

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 representatives @ (801) 280-2777.

Before installation begins, it is the customers/ installer responsibility to do a visual inspection on the vehicle and make sure that there is no frame damaged or worn out parts. If during the visual inspection on the vehicle you find problems, please replace or fix any problems before installation.

## Please Follow Instruction Carefully

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 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, place a hydraulic floor jack under the driver side radius arm. Repeat procedure on the passenger side.
3. Working on the driver side, carefully drill or chisel off the stock rivets that hold the stock driver side radius arm to the stock driver side frame rail. Remove the stock bolts that connect the stock radius arm to the stock driver side frame rail. The stock hardware may be discarded. Carefully drill all the stock holes in the stock frame rail to 1/2" **Special note: Take special care not to drill into any hose or lines running down the stock frame rail.** Also, drill out each hole in the stock radius arm bracket to 1/2".
4. Locate the new driver side radius arm relocation bracket, (8) 1/2" x 1 1/2" bolts, (16) 7/16" flat washers and (8) 1/2" unitorque nuts. Working on the driver side, install the new driver side radius arm relocation bracket to the stock radius arm bracket and secure using the new 1/2" x 1 1/2" bolts and hardware. **Special note: Do not tighten at this point. Also, make sure to use thread locker or lock tite.** Now, secure the new driver side radius arm relocation bracket to the stock frame rail using the new 1/2" x 1 1/2" bolts and hardware. **Special note: Do not tighten at this point. Also, make sure to use thread locker or lock tite.** One all (8) bolts have been installed, torque the new 1/2" bolts to **80 ft. lbs.**  
**Illustration # 1 (Passenger side shown)**
5. Carefully remove the hydraulic floor jack under the stock driver side radius arm.

6. Working on the passenger side, carefully drill or chisel off the stock rivets that hold the stock passenger side radius arm to the stock passenger side frame rail. Remove the stock bolts that connect the stock radius arm to the stock passenger side frame rail. The stock hardware may be discarded. Carefully drill all the stock holes in the stock frame rail to 1/2" **Special note: Take special care not to drill into any hose or lines running down the stock frame rail.** Also, drill out each hole in the stock radius arm bracket to 1/2".

7. Locate the new passenger side radius arm relocation bracket, (8) 1/2" x 1 1/2" bolts, (16) 7/16" flat washers and (8) 1/2" unitorque nuts. Working on the passenger side, install the new passenger side radius arm relocation bracket to the stock radius arm bracket and secure using the new 1/2" x 1 1/2" bolts and hardware. **Special note: Do not tighten at this point. Also, make sure to use thread locker or lock tite.** Now, secure the new passenger side radius arm relocation bracket to the stock frame rail using the new 1/2" x 1 1/2" bolts and hardware. **Special note: Do not tighten at this point. Also, make sure to use thread locker or lock tite.** One all (8) bolts have been installed, torque the new 1/2" bolts to **80 ft. lbs.**

**Illustration # 1 (Passenger side shown)**

8. Carefully remove the hydraulic floor jack under the stock passenger side radius arm.

9. Install the tires and wheels and carefully lower the vehicle to the ground.

10. Check and double check to make sure that all steps were performed properly. If you have any questions or concerns regarding this installation, please call and talk to someone in our tech department. (801) 280-2777

11. Install the tires and wheels and carefully lower the vehicle to the ground.

## Congratulations; Installation complete

### Torque Settings

<b>5/16"</b>	<b>15—18 ft lbs.</b>
<b>3/8"</b>	<b>28—32 ft lbs.</b>
<b>7/16"</b>	<b>30—35 ft lbs.</b>
<b>1/2"</b>	<b>65—85 ft lbs.</b>
<b>9/16"</b>	<b>85—120 ft lbs.</b>
<b>5/8"</b>	<b>95—130 ft lbs.</b>
<b>3/4"</b>	<b>100—140 ft lbs.</b>

