



## **U-BOLT SKID PLATES** **INSTALLATION INSTRUCTIONS**

### **READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION.**

- A. Make sure that the vehicle is in a suitable working environment. Remember you will be removing your leaf spring U-bolt spring plates and the vehicle will have to be raised to accomplish your job. Make sure you are on level ground, have a suitable jack for lifting, eye protection and tools. The jack must have a weight capacity higher than your vehicle weight.
- B. Replacement U-bolts are not included with your WARRIOR skid plates, but they should be visually inspected prior to removal to determine if they should be replaced while you are installing your WARRIOR skid plates. You may want to purchase these prior starting your installation.

### **BEGIN INSTALLATION**

1. YOU WILL DO ONE CORNER OF YOUR VEHICLE AT A TIME. With a floor jack, lift the corner of the vehicle where you will begin. Install a jack stand in front of and behind the leaf spring hangers under the vehicle frame. Lower jack so the vehicle is resting on the jack stands with the tire off the ground. Remember, only one tire should be off the ground. Be sure to wear safety glasses!
2. Remove the tire and wheel. Disconnect factory shock absorber and sway bar if either is connected to the stock leaf spring plate. You should only need to disconnect the bottom mount when it is connected to the spring plate. Push both the shock and sway bar link out of your way before removing the stock plate.
3. Note the location of the shock stud and sway bar stud, if any, on the stock plate and match your WARRIOR skid plate for the same stud locations. Remove the U-bolt nuts and lower the stock plate off the U-bolts. Be sure that the axle position does not change. Compare your stock plate to the WARRIOR replacement skid plate.
4. Inspect your U-bolts for damage and determine if you will be replacing them. If necessary, do so at this time.



5. Install your WARRIOR skid plates making sure that the studs can be installed to accommodate your sway bar or shock absorber. Do not screw in the WARRIOR studs until you have secured the spring plate to the vehicle. Reinstall U-bolts, if removed, and tighten U-bolt nuts to factory specifications. Be sure to check the U-bolt nuts a number of times to be sure your new WARRIOR skid plate is secure and parallel to the ground.
6. Determine if you wish to keep your sway bar or shock absorber connected to your new plate (some customers wish to remove or relocate these items). If you will be reinstalling them, install your WARRIOR studs (P-19 stud kit supplied) and torque them to 45 ft. lbs. Tighten factory sway bar nut and shock stud nut to factory specifications.
7. Re-check all mounting hardware for correct torque. Make sure axle is still in the same location and check the U-bolt nuts one more time.
8. If your U-bolts hang below the WARRIOR skid plates, you may want to remove the excess with a suitable cutting device (perhaps a hacksaw). Be sure to wear safety glasses.
9. Install your tire and wheel, tightening the lug nuts to factory specifications.
10. Lower the vehicle to the ground and proceed to the next corner of the vehicle. Repeat all of the steps listed above on the other side of your vehicle.
11. After your spring plates are completely installed, test-drive your vehicle. You should recheck your U-bolt tightness at this time, and again after 400 to 500 miles of driving.