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1976 – 1986 JEEP CJ5 / CJ7 SHACKLE REVERSE KIT

P/N: SR 180-2

INSTALLATION INSTRUCTIONS

IMPORTANT NOTE:

THE VAST MAJORITY OF CJ7 FRAMES MEASURE 27-9/16" WIDE (CENTER OF MOUNTING HOLE TO CENTER OF MOUNTING HOLE), BUT SOME CJ7 FRAMES ARE SLIGHTLY WIDER. THIS KIT MAY NOT WORK FOR THE WIDER FRAMES WITHOUT SIGNIFICANT MODIFICATION.

To install your WARRIOR SR 180 SYSTEM, be sure your jeep is on a level surface before removal of front wheels and tires. You will need jack stands or a way to support your axle and your chassis before you begin installing your new kit. If you have after market springs you must verify your vehicle wheel base. The original location of your housing is very important, measure your wheel base before beginning any work. Remember, your new kit was designed to fit with all factory springs. After market springs may alter this wheelbase and your new kit may have to be adjusted accordingly. Please read the instructions completely and understand all the provisions before you begin. If you have any questions about your installation, call our factory direct technical department and ask for assistance at 1-888-220-6861. AFTERMARKET LEAF SPRINGS may be longer. If they are you may have to adjust the placement of your rear shackle hanger to ensure that the prescribed angle for the shackle is maintained!

*****ALL WELDING MUST BE DONE BY A CERTIFIED WELDER*****

1. Make all necessary measurements and make notes before jacking vehicle and removing wheels.
2. Jack up front of jeep, put on frame supports (jack stands). Behind the rear of the front leaf springs, firmly place on the frame to suspend entire front of jeep off the ground. Be sure jeep is level and secure. Shake jeep to be sure it is stable.
3. Remove front wheels for ease of installation.
4. Remove front u-bolts (4). Raise front housing up and out of your way with a floor jack, support housing with additional jack stands.
5. You should now be able to remove both front leaf springs completely from the jeep. Remove the stock spring bushings on both ends of both front leaf springs and replace with the polyurethane bushings supplied in your kit.
6. Remove both front shackle brackets from your front cross member. Retain all four (4) bolts, as you will need these with your new front cross member. Remove front rivet from



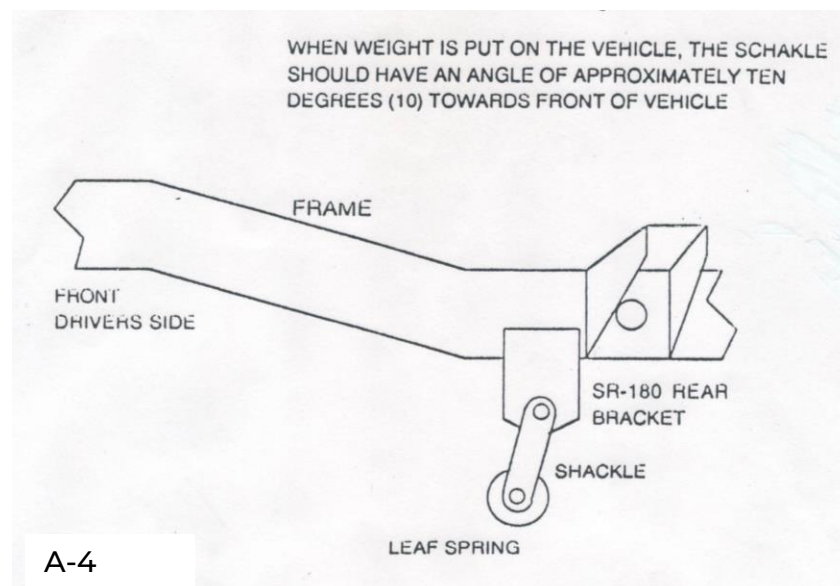
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each side of the frame and drill out hole, (1/2" drill bit), to except a new 1/2" bolt included in installation kit. Do this to both sides.

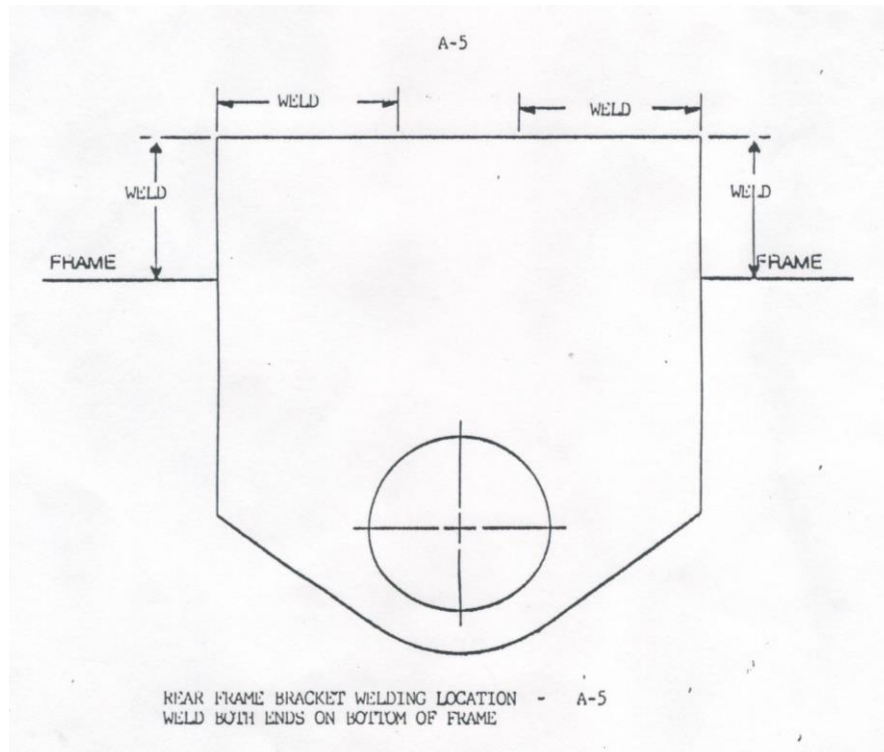
Install WARRIOR front cross member using the bolts you removed in step six (6) above with flat washers, PLUS two (2) additional 1/2" x 1" bolts supplied, also with flat washers and nuts. Tighten all six (6) bolts, three (3) on each side, after all have been installed. Tighten factory bolts to factory torque specifications, approximately 62 ft. lbs. and the 1/2" bolts and nuts to 65 ft. lbs. of torque.

7. Remove front leaf spring rear brackets from the frame.
8. Clean frame thoroughly for welding purposes.
9. Measure 44 1/4" from the center of the front leaf spring mounting hole on your new WARRIOR front bracket to the frame, make a scribe mark on the frame. Clamp rear WARRIOR bracket to frame so measurement of 44-1/4" is centered in middle of hole in rear bracket. Before welding be sure your new shackle will look like the picture A-4. If your not sure, install the front leaf spring in the WARRIOR front bracket, install your warrior H-shackle to the rear of the spring, install new bushings in the WARRIOR frame bracket, hook up the H-shackle to the frame bracket and compare to picture A-4. Do not tighten bolts. If necessary, adjust the frame bracket on the frame slightly to make it similar to picture A-4. The shackle should be straight down to approximately 10 degrees forward, but no more. If you have after market springs this measurement may vary slightly, so clamp shackle hanger to frame at that distance and assemble the system. With vehicle back on the ground, adjust placement of shackle hanger to assure the shackle will be pointed towards the front of the vehicle slightly at an angle of 0 to 10 degrees. Mark that location and then weld the hangers in place.



IF YOU ARE IN DOUBT, CALL BEFORE WELDING

10. Proceed with welding of the frame bracket in accordance with picture A-5. **IMPORTANT:** Do not weld completely around frame bracket but only in accordance with picture A-5. Not abiding by this welding pattern will void all warranties.



11. If not done in step ten above, install front leaf springs with your WARRIOR H-bracket. The front bolt is a 4" x 7/16" and the rear bolts are 4 1/2" x 1/2". Tighten front leaf spring bolt to 45 ft. lbs. rear leaf spring bolt to 35 ft. lbs. and shackle frame bracket to 35 ft. lbs.
12. Lower front housing onto leaf springs, be sure leaf spring locating pin is in correct location, reinstall front u-bolts, replace all that were stripped upon removal, not supplied in kit, torque to factory specifications.
13. Install front wheels and tires, tighten to factory specifications.
14. Check all bolts for tightness, yes again.
15. For added strength you may decide to tac-weld front leaf spring bracket, do not make continuous welds, paint all welds after they have had time to cool.



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16. Lower Jeep to floor and test drive. Please inspect all bolts for tightness and all welds for fractures.

17. Enjoy the way your Jeep now drives with your SR-180 SYSTEM.

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