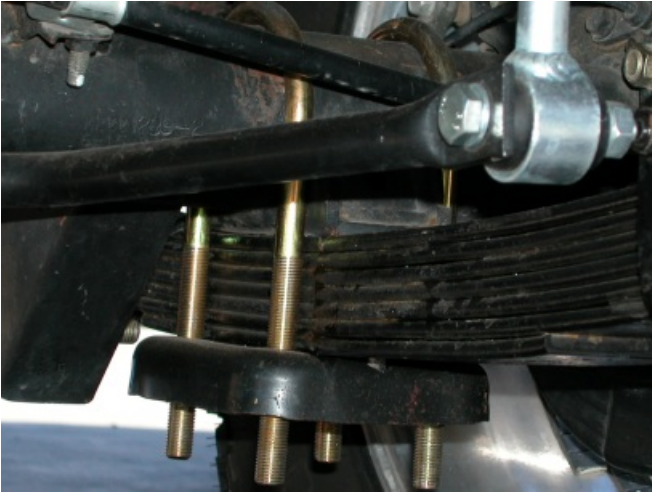


XTERRA REAR SUSPENSION INSTALLATION

GENERAL INSTALLATION OVERVIEW: The rear portion of this suspension lift will replace the factory spring pack, u-bolts, shocks, sway bar links, and shackles. In addition, longer bump stop extensions and brake line extension pieces will be added to the vehicle as well. It is recommend to have a friend or assistant to help properly remove and re-install the replacement spring packs due to the weight.

1. Ensure the rear portion of the vehicle's frame is properly supported by jack-stands. The vehicle should be lifted high enough in the air to also allow for the axle housing to be placed on jack-stands as well.
2. Once the vehicle is securely placed on jack-stands, begin loosening all corresponding hardware to allow removal of the leaf spring. The front spring eye bolts, rear spring eye(shackle) bolts and u-bolts can also be done.
3. Once loose, starting on the driver's side, remove factory hardware from the leaf spring and remove from vehicle. Repeat this procedure for the passenger side as well. NOTE: The forward spring eye bolt will be re-used. The factory shackles can also be removed at this time as well.
4. Before installing the new springs locate the stock center pin location at the axle. Measure approximately 1.5" back (there should be a factory hole) and drill this open to 9/16". The new CALMINI springs can now be re-installed using the supplied replacement u-bolt kit. The military wrapped spring eye (double-wrapped end) faces towards the front of the vehicle. Using the saved factory bolt for the forward mount, snug hardware into position. Also snug u-bolts to the axle as well. Locate shackles and corresponding hardware/sleeve kit.
5. Using the supplied rear spring eye sleeve, install in rear spring eye. Assemble shackle plate with corresponding mounting bolts in the same manner as the stock units. The upper shackle mount can be installed into the frame once completed. Snug all shackle hardware at this time.
6. Once the replacement leaf springs and shackles are installed, all hardware can be tightened. Remove and discard the factory sway bar links. Using the supplied 3/8" hardware, install new longer sway bar links to the vehicle.
7. Loosen and remove the factory leaf spring bump stops. These are located on the frame directly above the axle. Using the supplied bump stop extension and hardware, secure the stock bump stop to the extension block and re-install into the frame using the previously removed stock hardware.
8. Using the supplied brake lines in the kit, swap out the factory units. Note the orientation of the threaded opening on the block side of the line to ensure it is correctly routed. The opening will need to face the outside of the vehicle on both lines. Once brake lines have been installed and the retaining clips installed, bleed rear brakes to ensure proper pedal feel. Follow the factory service manual procedure. At this time, the included brake hard line spacers can be mounted to the axle as well.
9. The rear shocks can finally be installed in place of the stock units. The shocks run boot up and will mount using the stock hardware.
10. Re-check all hardware and tighten to factory specifications before re-installing tires and wheels.

INSTALLATION REFERENCE PHOTOS



Leaf spring correctly mounted using supplied U-bolts. Additional bolt can be cut-off once tightened.



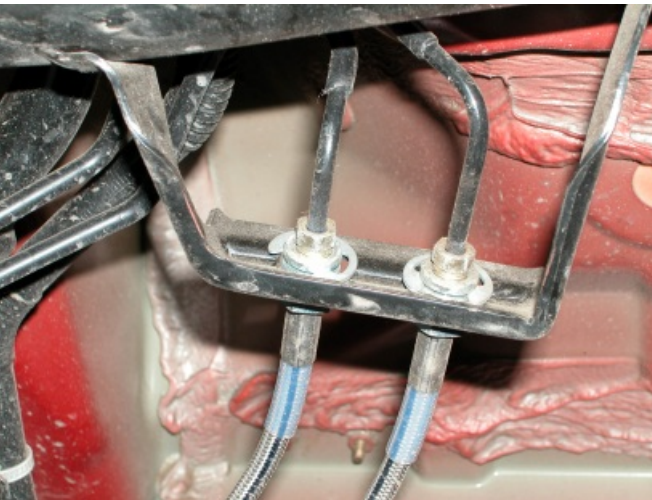
Hard brake line spacer installed on top of rear differential.



Rear spring shackle correctly installed on the rear replacement leaf spring using supplied hardware and sleeves.



Hard brake line spacer installed on passenger side of rear axle housing.



Rear brake lines installed at the body with supplied clips



Overall rear installation: brake lines, spacer, shocks, sway bar links, leaf springs, and u-bolts.