

## Installation Guideline Suzuki LTZ 250

1. Lift front end and secure quad.
2. Remove front tires.
3. Remove front bumper.
4. Remove top and bottom bolts of the shocks and remove them.
5. Take the brake line out of the upper bracket.
6. Remove tie rods by loosening the jam nuts on each end of them at the ball joints. Rotate them until they come off at each ball joint.
7. Loosen and remove nuts only on each of the A arms at the frame mount.
8. Remove the lower bolts of the A arms at the frame mount.
9. Lower the lower arm out of frame mounts.
10. Remove the upper bolts of the A arms at the frame mount.
11. Pull the A arms out of the frame mounts and set just below the frame. Support may be needed to keep pressure off the brake line.
12. Follow steps 5-11 on both sides.
13. Install the 4 lower extension brackets (A) to the lower frame mounts.

These will be attached to the outside of each frame mount tab, one in front of and one in back of each of the 4 lower A arm frame mounts. Special note: these brackets will overlap with the small flares on the a-arm frame tabs. These small flares are used by the factory to aid with assembling the a-arms. They are not structural. When the bolts and nuts are tightened, these flares will press flat. These will be secured using the 8 shortest bolts in the kit, 16 washers, and 8 nylok nuts.

The bolts should face in towards each other on each mount, to have room to install all of the bolts.

Use a washer under each of the bolts and locking nuts to spread out the load and protect the paint while tightening.

Do not tighten at this time.
14. Install the 3 upper extension brackets that are the same, and the one special shaped bracket (which avoids the steering knuckles).

These also will be attached to the outside of each frame mount tab, one in front of and one in back of each of the 4 upper A arm frame mounts.

Assemble with bolts, washers and nuts the same as the lower mount brackets.

Do not tighten at this time.

Align each bracket with the A arm frame mount they are attached to and make sure they are centered left to right and tighten them at this time. Repeat for all eight a-arm brackets.
15. Re-install the A arms. One side at a time.

Depending on extending 4 ½" or 6" use the inside holes in the extension brackets if wanting 4 ½", and the outer holes if wanting the 6" extension. Make sure the same holes are used on all brackets.

Slide the upper A arms into the upper extension brackets. Put a bolt through the extension brackets and A arm bushings. This is just to hold them in place while installing the mounting hardware. Do the same for the lower A arms.

One at a time remove the bolt holding the A arms in place and install the mounting hardware.

Remove the bolt and place a spacer washer between the inside of the brackets and the A arm bushings, one on each side of the bushing. Slide the bolt with a washer on the outside of the bracket through the extension bracket, spacer washer, bushing, spacer washer and extension bracket. Add washer to the outside of the bracket and install locking nut. Do not tighten at this time.

Repeat this to the 4 upper and 4 lower A arm mounts.

Once all 8 are installed, align as needed and tighten them all at this time.

\*\*All bolts need to face the rear, locking nuts to the rear of the quad. Tighten the bolts to remove any gap left between the brackets and the a-arm bushings.

16. Install the tie rod extensions sent with the kit to one end of each tie rod. Adjust the nut on the extension so that it is nearest the body of the extension. Screw onto the tie rods as far as it will go.

17. Install the tie rods on back onto the ball joints, one at the wheel and one at the steering stem. Rotate making sure both ends are connected until they are completely on the ends.

18. Install the shock mount extension brackets (C) to the stock shock mounts. These will be mounted to the outside of the mounts.

Place a 3/4" spacer between the stock shock mount tabs and slide bolt with washer on the outside of the extension bracket through the brackets and spacer and put washer on the outside of the rear bracket and attach locking nut. Do the same on the other side. Align with the stock mount and tighten bolts. \*\* Bolts facing the rear, locking nuts to the rear of the quad.

20. Install the shocks using the stock mounting bolt and nut in the bottom mount and supplied hardware for the upper mount.

Install a washer on each side of the upper shock bushing between it and the extension brackets.

Install a bolt with a washer on the outside of the bracket through the mounting hole, washer, bushing, washer and bracket. Add washer to the outside of the bracket and install a locking nut. Tighten the upper and lower shock mount bolts.

19. Re-install the front tires.

20. Align the front end.

Measure the length of the tie rods from mid ball joint to mid ball joint on each side. Adjust by turning the tie rods until both sides are equal in measurement.

Mark a line in the center of the rear grab bar.

Use a tape measure or equal lengths of string measure from the end of the grips to to this center line mark. When the measurements are the same your handle bars should be straight.

Take a measurement from the front of the tires at a center point across from each other. Write it down. Take the same measurement directly across at the same point at the rear of the front tires. Make sure you do not turn the wheels or handle bars during these measurements.

Adjust the tie rods equally on each side until the measurement in the front is about 1/4" smaller than the back of the tires.

Tighten the jam nuts on the tie rods at each end.

This should get you front end close to being aligned properly.  
You will need to check it again after riding for the first time.

21. Make sure all nuts and bolts are tight.
22. Re-tighten all nuts and bolts after first ride.
23. BE SAFE AND HAVE FUN !!!!