



# Installation Instructions for TeraFlex Revolving Shackles (RFJ-40)



**For Toyota FJ40, FJ45 front and rear**

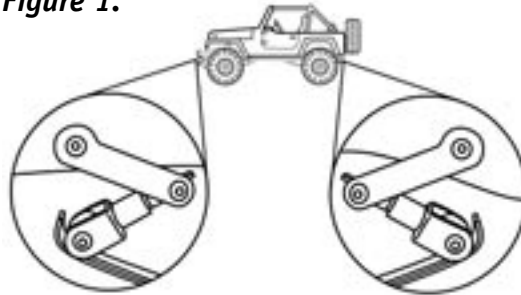
### Warning:

*Brakelines should be correctly extended, shocks should be checked for extended travel length, and the left rear emergency brake cable may need to be modified before using this vehicle. Check the driveline for proper clearance as well.*

### Installation:

1. Jack the rear of the vehicle up by the frame so that the axle droops. Secure the frame with jack stands.
2. Unbolt the spring shackles and discard shackles. It may be necessary to re-use the stock bolt in applications using a metric bolt to connect the shackle to the frame.
3. Install the shackle so the hinged portion points toward the axle (see fig. 1). The relief in the yoke should be positioned towards the spring. The hinged portion of the shackle should always point towards the axle.

**Figure 1.**



### Each kit should include:

- 1 pair Revolving Shackles
- 4 bolts ( 1/2" x 4 1/2")
- 4 flat washer (1/2")
- 4 lock nut (1/2")
- 4 sleeves (.625"OD x .55"ID)

**Note:** Grease the sides of the spring bushings to make installation easier.

4. Insert the new sleeves through the shackle and spring. Secure the shackles with the new bolts and locking nuts. When tightened, the bolt should still be able to be rotated slightly using a wrench.
5. Remove the vehicle from the jack stands.
6. Check to make sure you have tightened shackle bolts. Lower vehicle off jack stands.
7. Repeat above steps for front installation.

The shackles are now installed and ready for use.

Please check the following items:

Jack the rear of the vehicle up until the shackles just start to open. STOP! Check driveshaft rotation, brake line length and shock travel. When using a slip yoke stock drive shaft, make sure that under full droop it has at least a 1-1/4 inch overlap. If the drive shaft is rotating freely and the shocks and brake lines are not maxed out, lift the vehicle until the rear tires are slightly off the ground or brake lines are tight. If successful in lifting the vehicle until the tires are slightly off the ground, re-check the driveshaft rotation, shock travel, and brake line tension. Please note that shocks may limit your full articulation capability.

A few considerations will maximize the off-road performance of TeraFlex Revolving Shackles:

1. Use sway bar disconnects.
2. Use an aftermarket telescoping track bar.
3. Use front shocks with 10.5 to 12 inches of wheel travel.
4. Use rear shocks with 8 to 10 inches of wheel travel.
5. Use longer brake lines front and rear. Note: Most aftermarket suspensions kits already supply them but check to make sure yours are long enough.
6. Check right side emergency brake cable bracket that it clears the muffler mount. This can be bent to make clearance.
7. Check the 9/16 inch bolts on the fixed end of the springs. Tighten until snug, but you should be able to rotate them slightly with the bolt end.