BIG FOOT ADJUSTABLE 3RD BEARING SUPPORT ENGINE PIVOT INSTALLATION INSTRUCTIONS

Billet Engine Pivot Parts List

Quantity	ADA Part Description
1	Billet pivot body
1	Billet bearing housing
1	Pivot bushing
1	12mm x 1.25 puller bolt
4	6mm x 16 bttn hd allen
6	6mm flat washer
1	6mm x 45 spindle bolt
1	Bearing
1	6mm x 12mm bttn hd allen
1	Spring

Optional Lockout Parts List

Quantity	ADA Part Description
1	Lockout bracket
2	6mm x 25 allen
9	6mm flat washer
1	RH Ball joint
1	LH Ball joint
1	¼ -28 Nut
1	Turnbuckle
1	6mm Nylock nut

INSTALLATION PROCEDURE

1. Remove Rear Wheel.
2. Swing Fender Forward and remove four Phillips engine mount bolts.
3. Remove stock drive spindle and set engine aside.
4. Remove pivot nut, bolt, shims, cable, and spring from stock engine pivot.
5. Using the stock pivot collar and shims, in the same configuration in which they were removed, bolt on the ADA billet engine pivot. See stock parts used in **FIGURE # 1.**
   - Stock collars vary in size from go-ped so they may need to be cleaned up in order to achieve smooth rotation.
   - If you are installing the engine lockout kit, make sure you install the mounting bracket under the pivot nut now, with one of the stock wheel washers on the inside of the lockout bracket. **See FIGURE #2**
   - See **FIGURES #3 and #4** for lockout kit installation, noting the location of the four-spacer washers on each ball joint to space them towards each other.
6. Install ADA Big Foot long drive using the supplied shorter spindle bolt.
   - IMPORTANT. Leave drive bolt loose at this time.
7. Mount engine on pivot using the four stock Phillips engine bolts. Apply a small amount of blue loc-tite to these bolts.
8. After the engine with the drive has been mounted on the pivot, torque the drive to 8 foot-pounds.
   - Following the spindle tightening steps and torque specs will provide proper engine alignment with bearing, as well as allowing the spindle to be captured within that bearing properly.
   - System can be run without support bearing, just remove bearing prior to assembly, and install an ADA standard Big Foot drive on engine.
9. Reinstall rear wheel with no washer between the frame and wheel bearing, and then put the remaining washer between the outer wheel bearing and the fender mount. Tighten lock nut so that the wheel is not bound up and spins freely.
10. Adjust engine height according to your tire size. For best performance the spindle should drive from the top of the tire when under load. The four adjustment slots allow for large stock off road tires at the top of their travel, and small racing tires at the bottom of travel. After desired height is achieved apply a small amount of blue loc-tite to the threads and tighten bolts.
11. Mount pivot cable between the two washers on the mounting hole and adjust cable the length for desired travel, and proper spindle contact with tire. See **FIGURE #5**
    - If running the lockout kit the turnbuckle can be twisted for proper spindle contact with the tire, and the locking nut tightened to hold in place.
    - With the lockout kit in place and the spindle in proper contact with the tire the Big Foot can be push started like the sport go-peds.

12. Install spring as shown in **FIGURE #6**
13. Recheck all bolts, nuts, cables, and Ride
    - This system is compatible with the ADA Series 1 Exhaust Pipe. The aluminum bracket supplied with the pipe must be twisted 90 degrees and mounted on the top right engine mounting bolt. See **FIGURE #7**

ADA LONG DRIVE PULLER INSTRUCTIONS

Using the supplied puller bolt follow these five steps.
1. Loosen drive bolt approximately three revolutions.
2. Thread puller bolt into drive end until it bottoms out on drive bolt.
3. While keeping the spindle stationary, use a ¾ wrench to tighten the puller bolt until the spindle pops off the taper.
4. Remove puller bolt.
5. Remove spindle bolt and drive spindle.

FIGURE #1

FIGURE #2

FIGURE #3

FIGURE #4

FIGURE #5

FIGURE #6

FIGURE #7