

FZ Shifter New Engine Checklist

Installation:

- Check that transmission has **Oil** (look for check mark up by the oil fill cap)
- **Mount Engine as far back** (toward axle) as possible; you should have to cut several links from a new 60-link #428 chain
- **Mount seat** about 1.5cm - 2.0cm to the left of standard position; For Factory Karts chassis, move your engine side seat plate to the left side of the chassis tab. For other chassis models, use a large diameter spacer or seat washers in between your seat and the engine side seat mount. Move the Radiator side seat mount as needed.
- **J-Arm** should be mounted as vertically as possible on the shift shaft splines. Try not to let the J-Arm lean forward or back when it's in its neutral position; this helps make the up-shifts and down-shifts as smooth as possible.
- **Shift Shaft** should be bent at a 35-45 degree angle, roughly 4" from the end of the rod that attaches to the J-Arm. The rest of the shift rod should be ran as straight as possible to the shift lever on the chassis, but ensure that the shift rod can up-shift & down-shift without binding up against the seat or engine. You may make additional bends to help with clearance if needed. You will also have to cut a standard (490mm) shift rod a little shorter to get the proper length.
- **Clutch Cable & Lever** should be adjusted so that the lever has about a 1/2" of slack before it engages the clutch push rod.

Check After first session:

- Chain Tension (1/2" to 1.0" of free play is recommended)
- Bottom Motor Mount Clamps
- Silencer Perf Core Screws (Tighten when new & after first session)
- J-Arm Pinch Bolt
- Countershaft Sprocket nut (Mainly on FZ125; can use a 25mm or 27mm wrench)
- After 2nd session – remove break-in jet and install 'standard' main jet (120 for FZ65/85, 175 for FZ125)

End of Day

- Drain Fuel out of Carburetor (easiest is to remove carburetor and tip it upside down)
- Drain Transmission oil & Install new oil after first day of running; After that oil changes are recommended every 2-3 hours of use
- Clean Engine & inspect parts; Look over exhaust pipe & brackets for signs of any cracks

