

INSTALLATION FOR 3" ELECTRIC START FOR 1970-78 SHOVELHEAD (Kit numbers EVO-10S, EVO-10ST, EVO-10SF, EVO-10STF) KICK START (Kit numbers EVO-4S, EVO-4T, EVO-5S, EVO-5T, EV-76-47S, EV-76-47T, EV-72-47)

NOTE: THIS DRIVE REQUIRES A STOCK 1991 UP STARTER. THIS KIT WAS DESIGNED AROUND A STOCK FX.

AFTER MARKET STARTERS WILL NOT FIT WITH A STOCK OIL TANK AND BATTERY BOX. A 1979 CLUTCH RELEASE ARM WILL ALSO BE NEEDED, OEM # 37054-79, AND THIS ARM WILL NEED SLIGHT MODIFICATIONS TO WORK. ALSO YOU WILL NEED TO FABRICATE A RIGHT SIDE STARTER SUPPORT FOR THE NEW STARTER. SEE INSTRUCTIONS BELOW

Be sure to read the Warranty, Introduction, belt tracking and starter gear problems, alignment procedure and disconnect battery.

NOTE: Kit comes with 1/4 insert for stock application. For installation in wide frame/ tire applications, choose the appropriate insert. For Shovelhead[®] models from 1970 to 1978.

SPECIAL NOTES: This kit does require you to update your starter to a 1989 – 2006 style starter. This kit does not work with Rotary Top transmissions.

1. Remove outer primary cover, chain or belt drive and inner primary.

2. Loosen transmission completely.

3. Modify stock oil tank support bracket by notching it as illustrated at right. This will allow clearance to the back side of the starter. (Fig. 1)

4. BE SURE BATTERY IS DISCONNECTED.

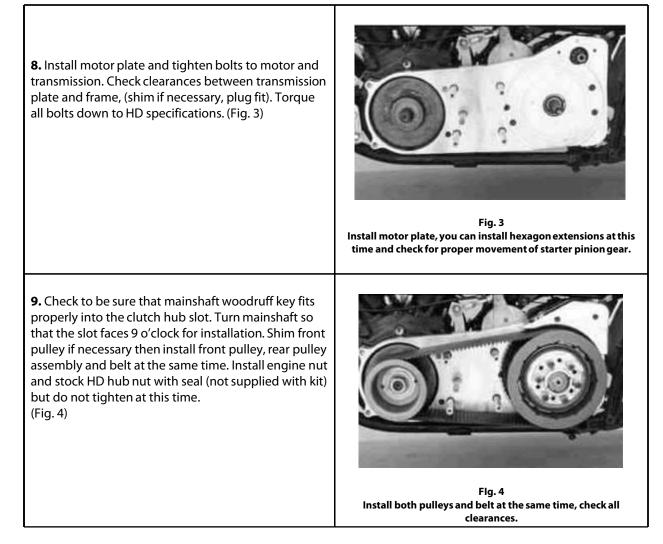
5. Install starter pinion gear, supplied with kit, onto starter shaft. Apply red loctite and install starter bolt.

6. Install cables on to starter and place starter on transmission for later installation.

7. The clutch release arm must be clearanced to achieve maximum travel of the arm against the starter. (Fig. 2)



Fig. 1 Fig. 2 Cut a notch in oil tank support bracket as pictured above for clearance on the back side of the starter. Grind side of arm to allow maximum travel against starter when installed.



10. Rotate the motor by hand to be sure belt tracks straight and away from motor. Be sure that belt is not dragging on any part of the motor plate. If installation is correct then remove engine and transmission nut, apply red loctite, reinstall and torque to HD specifications.

11. Bolt starter to motor plate, grease starter housing bushing and install over starter gear. Tighten front bolt first then lift up on housing while tightening rear bolt. This should allow proper alignment of starter gear.

12. Install Quiet Clutch, 1-.120" (EDP-200) spline steel first, then alternate fiber and steel ending with a steel.Install pressure plate, springs and shoulder bolts. To install shoulder bolts apply red loctite to a bolt and install it one turn, go on to the next bolt with same procedure until all 6 bolts are in place, then tighten them all the way down until they bottom out. There is no adjustment to the spring pressure, this is all pre-determined with the length of the shoulder bolt and exact dimensions of our pressure plate. (Fig. 5)



13. Install the 4 hexagon extensions into motor plate, shim if necessary with washers supplied and mount side guard with the 4 buttonhead allen bolts. Note: one hole is countersunk so that this bolt will not interfere with the midshifter.

14. Clutch screw adjustment should be 3/4 to 1 turn loose from lightly seated. (Note when clutch is hot the adjustment screw should not be seated). Tighten jam nut when adjustment is complete.