

POWERKING BICYCLE ENGINE KIT



POWER  **KING**
MOTORIZED BICYCLE ENGINE KIT

Addon Installations

Section 1: Centrifugal Clutch Installation.....Page 3

Section 2: Pull Start Installation.....Page 7

Credits : A big thank you to Brian (PowerRyder) on www.zoombicycles.com for preparing the information included in these Installation Guides.

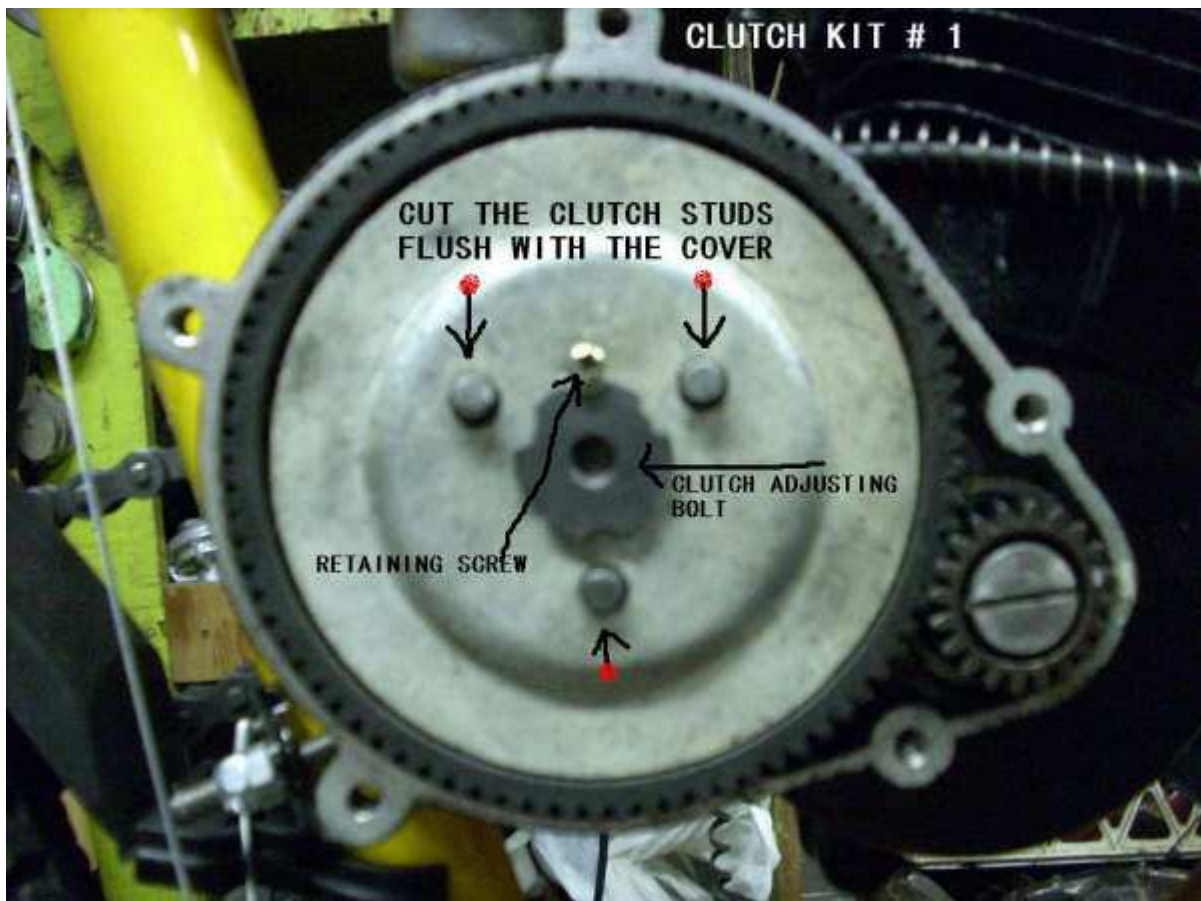
PowerKing Engines

Centrifugal Clutch Installation Instructions

TOOLS NEEDED:

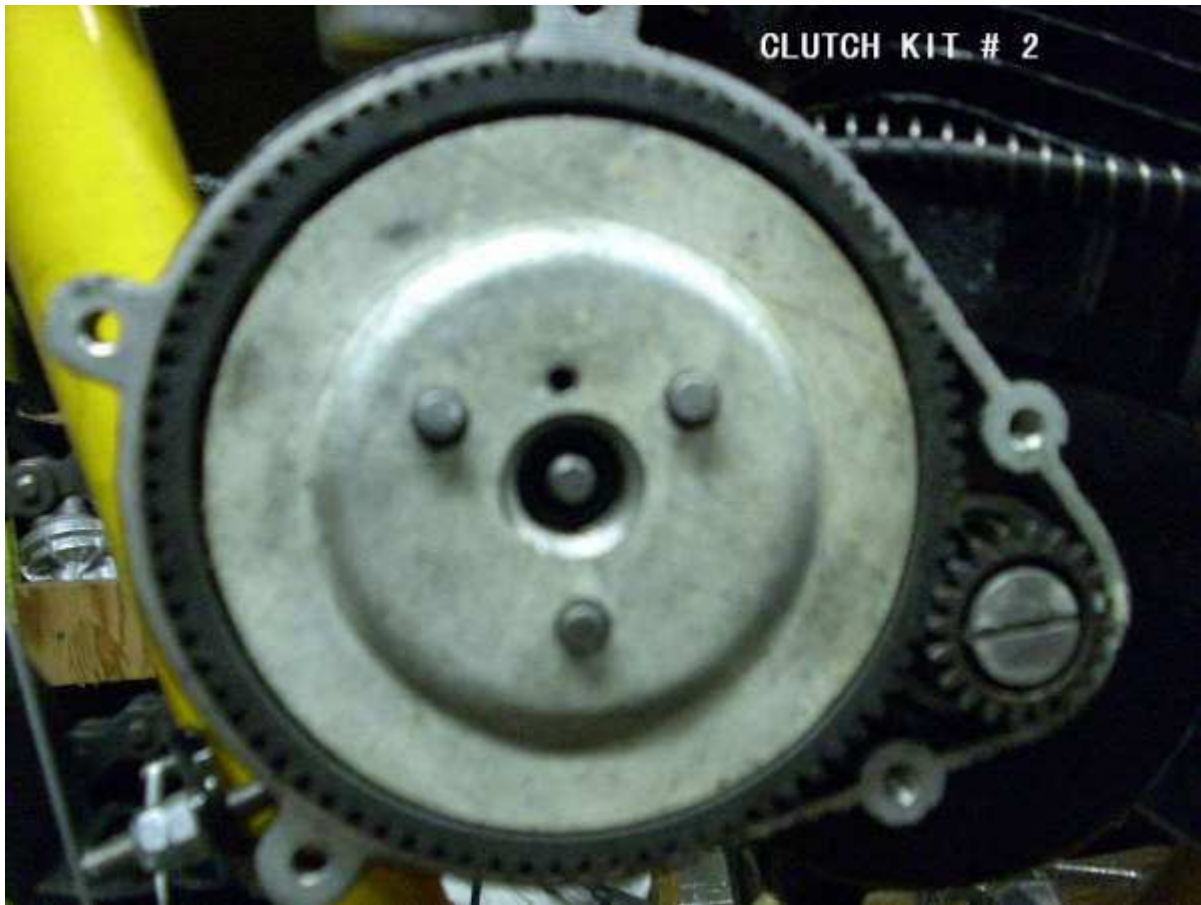
- Large straight screwdriver
- Standard straight screwdriver
- Small straight screwdriver
- Allen key set
- Needle nose pliers or side cutters
- The clutch gear puller (can be purchased through the
- 17 mn. socket and ratchet
- sorry it took so long to get this off.

- 1: Remove clutch cover be careful not to damage the gasket as you will need to use it again.
- 2: The three studs that protrude through the clutch cover must be cut flush with the clutch cover.



POWERKING BICYCLE ENGINE KIT

Remove the retaining screw and clutch adjusting nut.



Put a piece of tape over the hole so no debris can fall into the clutch. Use a hacksaw dermal or a mini grinder. If you use a power tool use the tap tap method rather than applying direct pressure so as not to create any heat damage to the studs. Remove the tape and clutch cover and blow or vacuum out any debris. Reassemble and adjust the clutch.

POWERKING BICYCLE ENGINE KIT

3: The small gear now must be removed from the crank.



It may be necessary to jam the gears where they mesh with a small screwdriver. After you remove the big screw it will be time to get out the puller that came with your motor kit. Once the gear is removed be sure to remove the shear pin from the crank.

4: Now it is time to put on the new side cover, use the gasket from the old clutch cover. Reuse the old cover bolt except for the two front holes which will need 2#6 hex head taper bolts approximately $\frac{1}{2}$ inch long. [I could only find $\frac{3}{4}$ inch and had to cut a bit off to make them fit].

5: Next install the new clutch assembly; this is a good time to put a small amount of high tack grease on the gears, not too much as it could contaminate the clutch and cause slipping. Install the crank bolt be sure to put the thrust washer on the bolt before tightening.

6: Install the side cover and turn the engine over a few times and check for any clearance issues. [I had to make a 2mm. gasket to make some clearance].

7: Hop on and go for a ride start the engine just like normal then forget about the clutch for the rest of your ride.

POWERKING BICYCLE ENGINE KIT



PowerKing Engines

Pull Start Installation Instructions

TOOLS NEEDED:

- Small straight screwdriver
- 14 mm. socket and ratchet

1: Remove the magneto cover [be careful not to damage the gasket as you will need to reuse it].

2: Remove the 14 mm. nut and washer .Place the starter adapter over the stud and tighten down.



Check for clearance on the magneto bolts. [Some of the bolts have thicker heads and may cause clearance issues photo 2]. I had to put the washer under the adapter to make up for clearance. If you do this put a small bit of thread locker on the nut.

3: Install the pull start don't forget to replace the gasket!

POWERKING BICYCLE ENGINE KIT

4: Give it a few pulls to start using the choke may now be necessary.



POWERKING BICYCLE ENGINE KIT

