PX-2, PX-4G-5, PX-5 & PX-7 ALTERNATOR TEAR-DOWN INFO

Disassemble for inspection - short version

NOTE: # 15 shows hand-operated press used in most operations.
1) Remove the rear bearing retainer snap ring.
2) Remove any nuts, washers, or insulators from the large heat sink posts.
3) Remove the pulley attaching nut, pulley, fan, & fan spacer.
4) Remove the four rear housing to front housing attaching Allen bolts.
5) Put penetrating oil on the rotor shaft at the bearings for easier disassembly.
6) Use a 3-jaw puller to pull the front housing off of the rotor.
7) Place a support ring on a hand-operated press and mount the rear assembly on it, stator down.
8) NOTE: Don’t try to press the rear bearing out with the rotor. Press down directly on the rotor shaft only.
9) Pressing down gradually on the rotor only will push the rotor down & out of the rear bearing & the rear housing.
10) Turn the rear housing & stator assembly over. Remove the 3 stator attaching nuts and remove the stator.
11) Remove the 3 nuts on the other heat sink that retain the 3 metal straps.
12) Take the brush holder lead and the 3 metal straps off of the heat sink studs.
13) On a 2005 and up PX-5_D, also remove the negative diode leads from the heat sink studs.
14) Remove the heat sink, brush holder, and capacitor attaching screws.
15) With the rear bearing on the bottom, press the rear bearing out of the rear housing.
16) Remove the rear bearing wave washer from the rear housing.
17) Remove the Allen screws attaching the 3 bearing retainers to the front housing.
18) Turn the front housing over and press the front bearing out of the housing.