

CONVERSION INSTRUCTIONS FOR HH-190 OR HH-170

CONVERSION PART LIST

- 1- 6/3 Frame Motor (81-700) (18/9 Frame 81-800)
- 2- Speed Control (81-705)
- 3- Speed Control Mount (81-704)
- 4- Coupler Guard (6/3 Frame 81-701) (18/9 Frame 81-803)
- 5- Motor Mount (81-702) (18/9 Frame 81-801)
- 6- 3- 8 mm Nuts, Bolts and 2 1/4" Washers
- 7- 4-#10 x 32 Nuts, Bolts and 8 Washers
- 8- 1/8, 5/16 and 3/8 Ball Bearing
- 9- 9 mm Coupler for (6/3 Frame 81-707) and 12 mm for (18/9 Frame 81-708)

TOOLS NEEDED (NOT SUPPLIED)

- 11/2" or 12 mm Wrench
- 3 mm Allen Wrench (Supplied with Purchase of Extractor)
- 7/64 Allen Wrench
- #2 Phillips Screw Driver
- Rubber Hammer

STEP 1:

Using a 1/2" wrench remove nuts on the hinges and gear box. Remove gear box and hinges.



STEP 2:

Ears of shaft should not be sitting on Teflon bushing. If they are you need to put a bigger ball bearing in the shaft holder located on the bottom of the extractor.



STEP 3:

Put the 2- 1/4" washers on the left hinge stud.

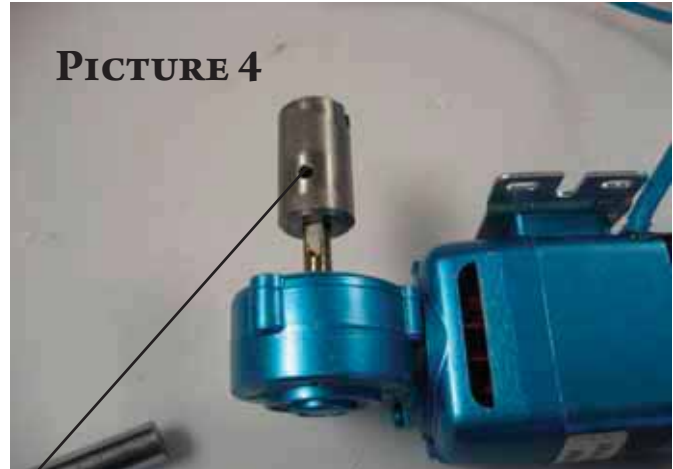


STEP 4:

Put the motor mount #5 in picture 3, on the cross bar on the left side. Using 8 mm nuts and bolts. The motor mount is put on with the slots closer to front of extractor. Put the hinge on. Bolts go in from bottom first. Make sure to tighten motor mount bolts and hinge nuts.

Note Picture 3

Add the right hinge to extractor also and tighten.

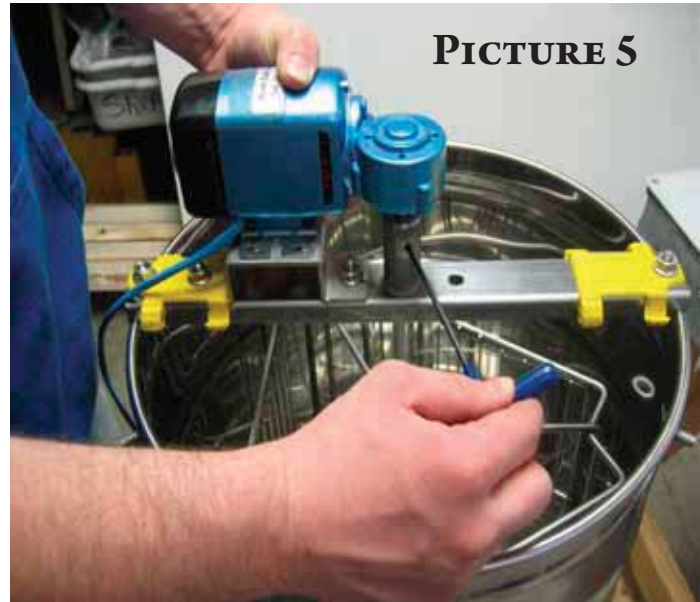


PICTURE 4

STEP 5:

Put the coupler (#9 in picture 4) over the motor shaft. Matching the set screw from coupler to the flat side of motor shaft. Hold motor flat on motor mount slide coupler down on extractor shaft until it bottoms, then raise coupler about 1/32" and tighten set screw. This will give coupler and shaft proper clearance.

Note Picture 5



PICTURE 5

STEP 6:

Remove motor and install coupler guard (#4 in picture 6). Centering it around extractor shaft, using the other 8 mm bolts and nuts. **Note Picture 6**



PICTURE 6

STEP 7:

Reinstall motor, aligning cutouts in coupler with ears of shaft.

STEP 8:

Motor bracket edge should be parallel with edge of motor mount. When bolting down motor use the #10 x 32 nuts, bolts and washers (#7 in picture 7). Hardware should stack as follows: Top bolt, washer, motor bracket, motor mount, washer and nuts. **Note Picture 7**

STEP 9:

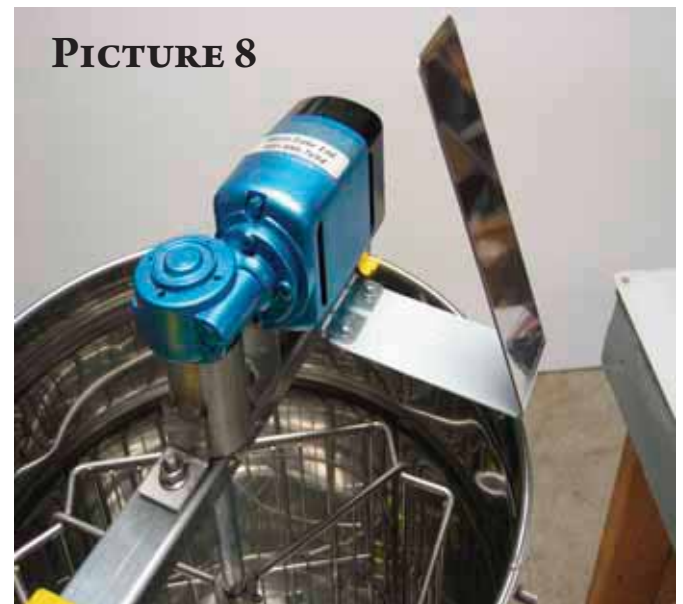
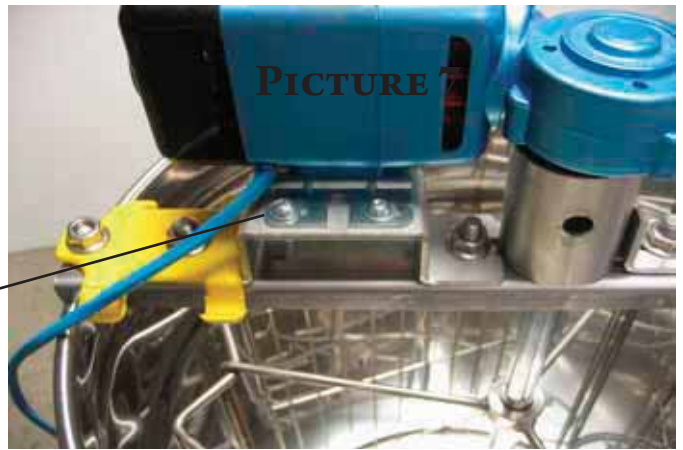
On the back side is where you add speed control mount (#3 in Picture 8). Hardware should stack as follows: Bolts, washer, motor bracket, speed control mount, washer and nut. Make sure **ALL** nuts and bolts are tighten down. **Note Picture 8**

STEP 10:

Add speed control to mount plug motor into speed control and plug speed control into the wall.

Never Plug Motor Directly Into The Wall.

Note: If there is excessive wobbling check depth of coupler and make sure all bolts and nuts are tighten down.



Picture 9 shows complete motorized extractor.