

# CARRY PUMPS

800-492-2779

## 6" MOTOR AND LEAD REPLACEMENT GUIDE

To replace the motor on a 6" Discharge Carry Manufacturing, Inc. Stainless Steel Axial-Flow Submersible pump, follow these steps:

**1.** Remove the recuperator from the pump. (See Figure 1) **This is installed with left handed threads.** To remove turn clock-wise. This may require some strength. You may use a crescent wrench to hold one of the lugs of the recuperator and tap the opposite fin with a hammer to loosen.

Figure 1



Figure 2



**2.** Once the recuperator is removed, the impeller will be exposed. (See Figure 2) Remove the bolt and lock washer holding the impeller on the motor. This is a 5/16" bolt. Then,

remove the impeller.

**3.** Remove the four bolts and lock washers holding the motor to the pump crown. (See Figure 3) These are 1/2" bolts. Please use caution and set the pump on a block to prevent the motor from "dropping" out of the casing. Cut the cable tie holding the motor lead to the pump foot.

Figure 3



**4.** Lift the casing off the "old" motor. Remove the motor from the block. **IMPORTANT NOTE: If your pump is 2014 or older, please see reverse side for additional instructions before proceeding to Number 5.**

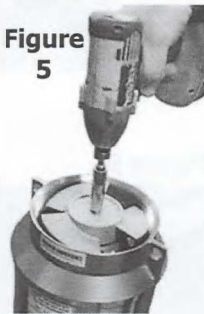
**5.** Place the new motor on the block. Lift the casing over the new motor, lining up the bolt holes in the motor and the pump crown. (See Figure 4) Also line up the pump cord with one of the pump feet.



Figure 4

**6.** Replace the four motor bolts and lock washers to the motor. Finger tighten all bolts first, then go back and tighten with a wrench.

Figure 5



**7.** Replace the impeller over the motor shaft. Be sure that it does not hit the sides of the crown. Replace the impeller bolt and lock washer. (See Figure 5) Finger tighten first then tighten with a wrench.

**8.** Replace the recuperator on the pump crown. (See Figure 6) **This has left handed threads.** To tighten turn counter-clockwise. This must be tight. Use wrenches on the recuperator and the crown to assist you.

Figure 6



Figure 7



**9.** Use a cable tie strap to secure the motor lead to the nearest pump foot. (See Figure 7)

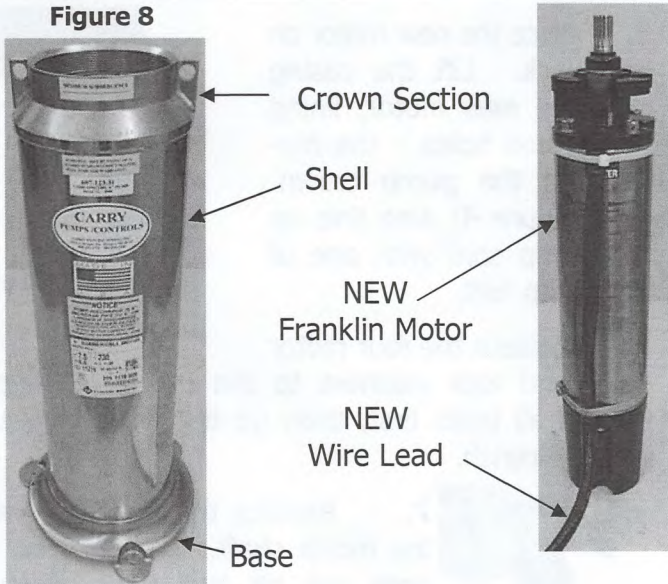
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# 6" CROWN MODIFICATION

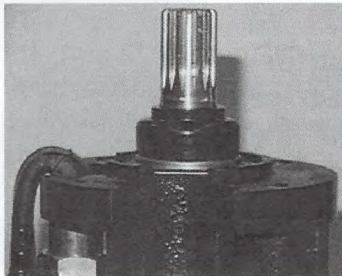
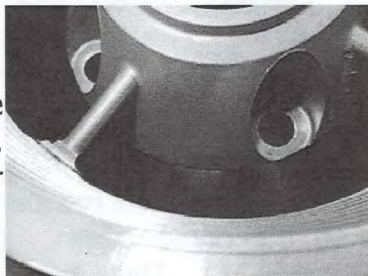
**Figure 8**



Front view of the existing shell assembly. (See Figure 8)

Top view of the inside of the Crown Section. Please note motor mounting holes. (See Figure 9)

**Figure 9**

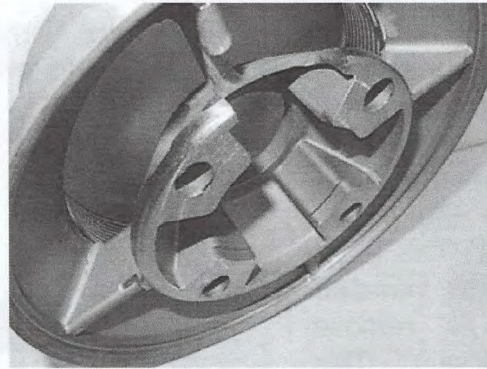
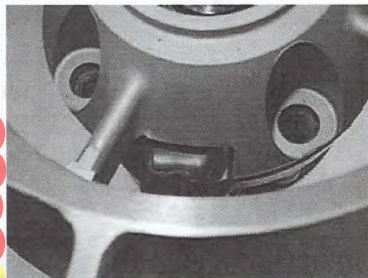


Franklin Electric motors manufactured after 2014 have a taller lead plug coming out of the top of the motor. (See Figure 10)

**Figure 10**

The new-style taller lead plug interferes with the older-style Crown Section requiring modification to accept the taller lead plug. Use a reciprocating saw using a metal-cutting blade or plasma cutter to make crown modifications. (See Figure 11)

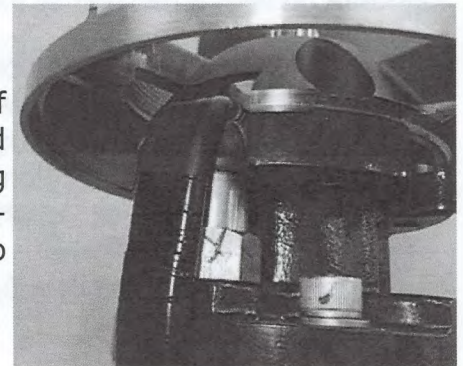
**Figure 11**



View of the underside of the crown section after modification. The modification cutout does not need to be perfect.

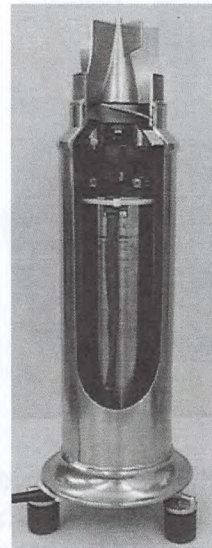
**Figure 12**

The cutout only needs to be large enough to allow clearance for increased height of the new-style lead plug.



This is a view of the modified crown looking up after mounting the crown to the new motor. (See Figure 13)

**Figure 13**



This is a cutaway photo of the pump after the new motor has been installed and all components have been reassembled. (See Figure 14)

**Figure 14**

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