# Section 1: Parts List

**Motor Replacement Kit (supplied by EPI)**

(1) New hydraulic motor
(2) Motor Fitting Caps
(4) Hydraulic Hose Plugs
(2) Hydraulic Fitting Caps
(4) Stainless Steel Bolts and Washers
(2) White Plastic Guard Strips
(1) Roll of Anti-Corrosion Tape
(1) Teflon Paste

**Tools Required (supplied by others)**

Phillips head screwdriver
File
(2) Adjustable Wrenches
(2) Lengths of Rope-minimum 35' (10,6m) long
Paper towels
Plastic bags
Duct Tape

# Considerations

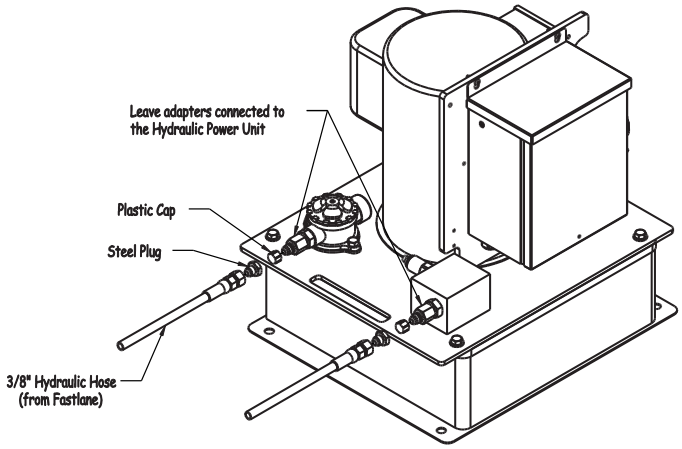
**WARNING** Be sure to disconnect electrical service to the hydraulic pump unit. Accidental activation of the hydraulic pump during servicing would result in the loss of hydraulic fluid requiring extensive clean up and could also promote a chance for bodily harm.

**CAUTION** Use extreme caution when working in and around the front housing. The edges, especially around the propeller cylinder, can be very sharp. Wear protective gloves when removing the motor.

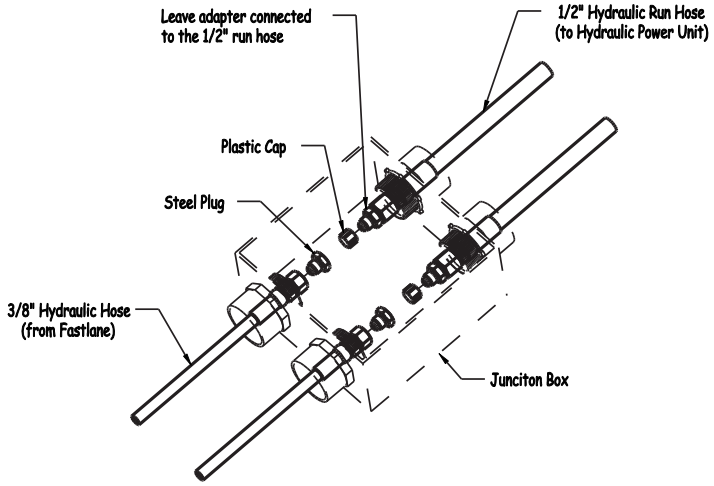
**NOTICE** If your power unit is at a higher elevation than the Fastlane, disconnect both hydraulic hoses at the power unit. Use the red threaded plugs to cap the end of each hose, making sure to mark each hose so you know to which fitting it needs to be re-connected.

# Section 3: Motor Replacement Instructions

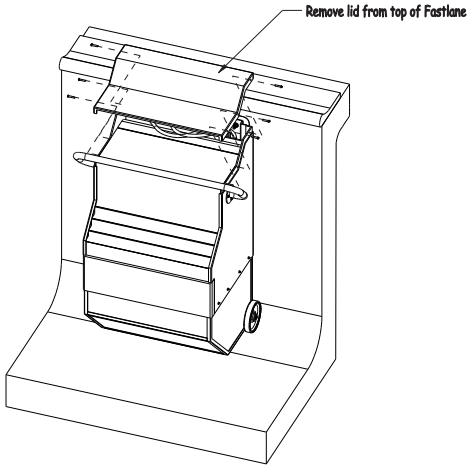
1. Turn off the power off to the system.
2. There are two 25' (7,62m) lengths of hose (sub hoses) that are connected to the Fastlane in the pool that must be disconnected and plugged at the first connection outside the pool.
   - **If the sub hoses are connected directly to the power unit (no junction box):** Use the adjustable wrench and disconnect the hoses from the connections on the power unit. Additional adapters were installed to make the connection between the sub hoses and the power unit. Make sure that the hoses are disconnected from the adapters. Install the provided plug into the end of the sub hose. If the sub hose fitting has a tapered face, then use the provided metal plug. If the sub fitting has an O-ring seal, then use the provided plastic plug.



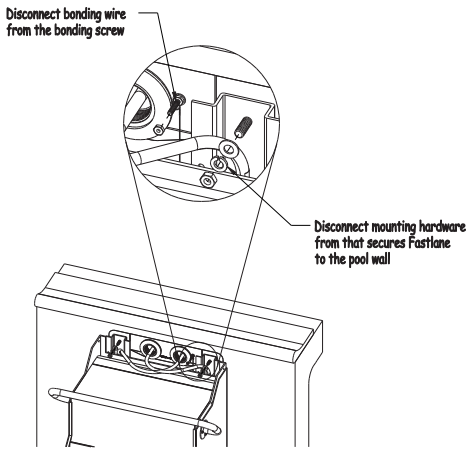
- **If the sub hoses are connected to additional hydraulic hoses (with junction box):** Remove the lid of the junction box and use the two adjustable wrenches to disconnect the sub hoses from the additional hoses. A male x male adapter is joining the 2 pair of hoses. Make sure that adapter is removed from the sub hoses. Install the provided plug into the end of the sub hose. If the sub hose fitting has a tapered face, then use the provided metal plug. If the sub fitting has an O-ring seal, then use the provided plastic plug.



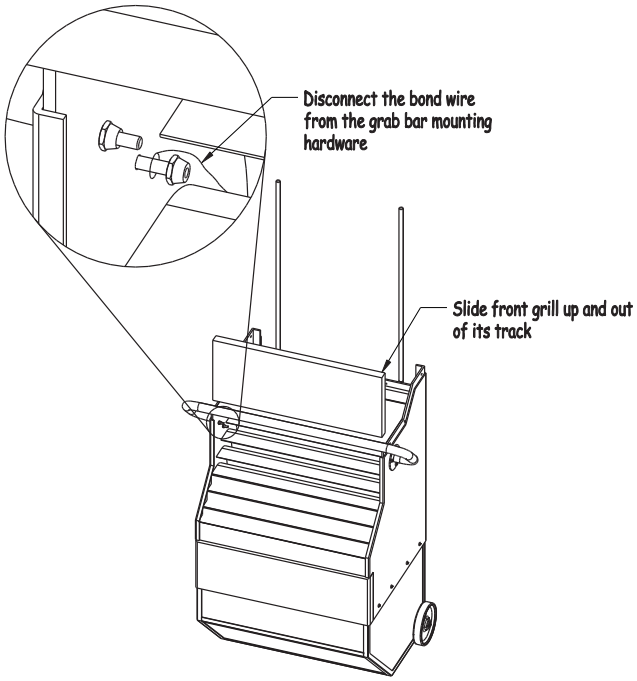

3. Use the duct tape to secure the fish rope to each end of the sub hose.
4. Remove the six screws that are securing the Fastlane top to the Fastlane body and remove the lid.



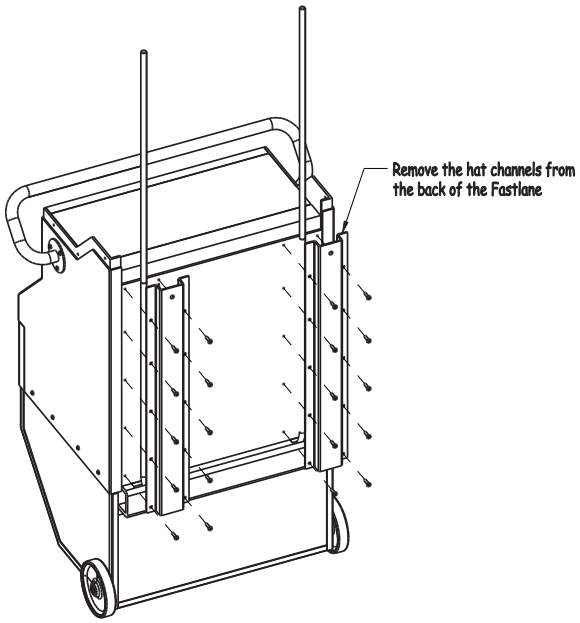

5. Unthread the two mounting bolts that are securing the Fastlane to the pool wall. Disconnect the stainless steel wire (that is attached to the Fastlane) from the bonding lug attached to the wall bracket.



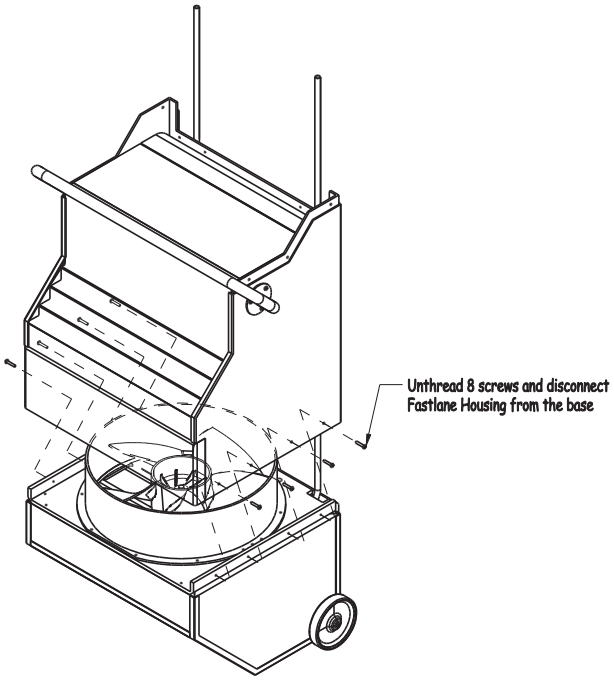
6. This next step should be done with a helper. Pull the Fastlane off of the bracket and slowly lift it out of the pool. Make sure to allow the water to drain out of the unit before completely removing it from the pool wall.
7. Pull the sub hoses out of the conduit, making sure to leave the tag end of the fish rope accessible where the conduit terminates (at the junction box or at the power unit).
8. Rest the Fastlane on a tarp (or similar) in the unlikely event the hydraulic fluid escapes from the unit.
9. Pull the top vertical grill up and out of the Fastlane Housing.



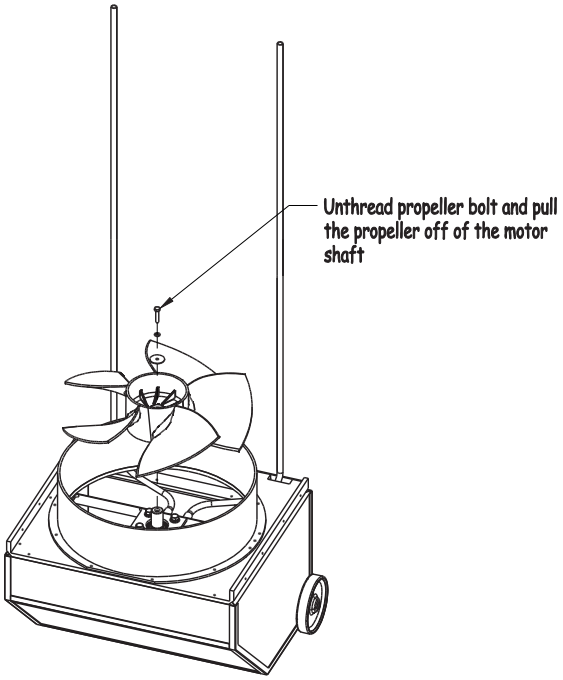

10. On one of the screws, securing the grab bar to the housing there will be a stainless steel wire that travels down between two of the turning vanes. Remove the nut that is over this wire and pull the wire off of the screw. Loosely replace the nut.
11. Use the Phillips head screwdriver to remove the protective hat channels from the rear of upper housing. There should be eight screws per channel.



12. Remove the screws that are securing the upper housing to the lower base (four per side) and lift the housing off of the base.

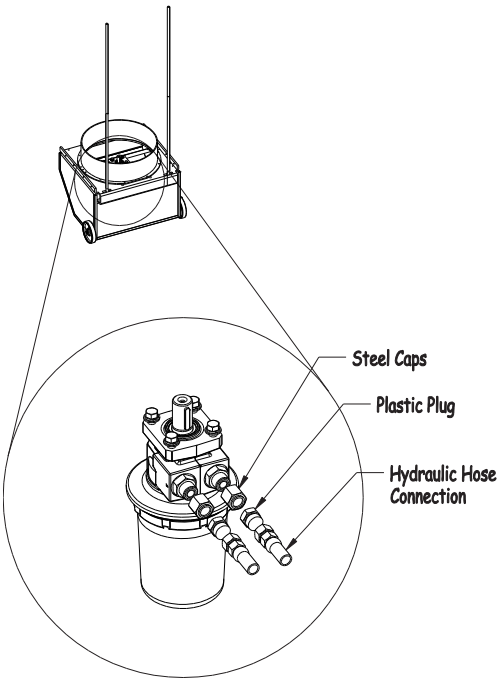



13. Unthread the propeller-mounting bolt and pull the propeller off of the motor shaft.

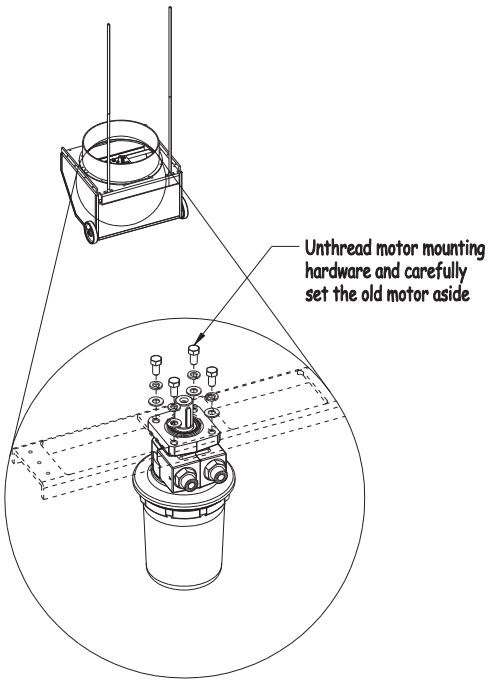



14. Place the plastic bag underneath of the motor and use the provided plastic guard strips to secure the bag to the cylinder. Place some paper towel in the base of the bag under the motor.

15. Note the position of each hose connect to the motor as they will connect the same ports on the new motor. Unthread the hoses from the motor fittings. Connect the provided caps to the motor and thread the provided plugs into each hydraulic sub hose.




16. Make sure to recognize the motor orientation and then unthread the four bolts that are holding the motor to the motor mount. Pull the motor out of the base.




17. Place the new motor into the base, making sure to position the new motor in the same manner as the old motor.
18. New bolts and washers have been provided. Place some of the provided Teflon paste around the threads of the new bolts before attaching to the new motor.
19. Install the hydraulic hoses to the new motor. Make sure the hoses are connected to the correct motor fitting. Remove the plug from the hose just prior to attaching to the motor. Make sure that there is an

O-ring on each fitting of the motor and that there is **NO** O-ring in the fitting of the hose. Tighten each fitting with a wrench until they are just tight, then tighten an additional 30-45 degrees (1/2-3/4 flats past wrench resistance).

20. Carefully remove the bag from under the motor, making sure not allowing any fluid to spill out.
21. Place the propeller back onto the shaft of the motor, making sure that the key on the motor shaft is in place and is aligned with grove in the hub of the motor. Tighten the propeller bolt.

## Reassembling the Fastlane

To reassemble the Fastlane, simply reverse the order of the previous instructions.

**When reconnecting the hydraulic fittings at the deck plate:**

- Tapered face hydraulic connection: tighten the fittings with a wrench until they are just tight-then tighten an additional 1/4 – 1/3 turn (1-1/2 flats).
- O-ring seal hydraulic connection: tighten the fittings with a wrench until they are just tight-then tighten an additional 1/8 – 1/4 turn (1/4 to1/2 flats).

Once connected, make sure to wrap the fitting with provided anti-corrosion tape.