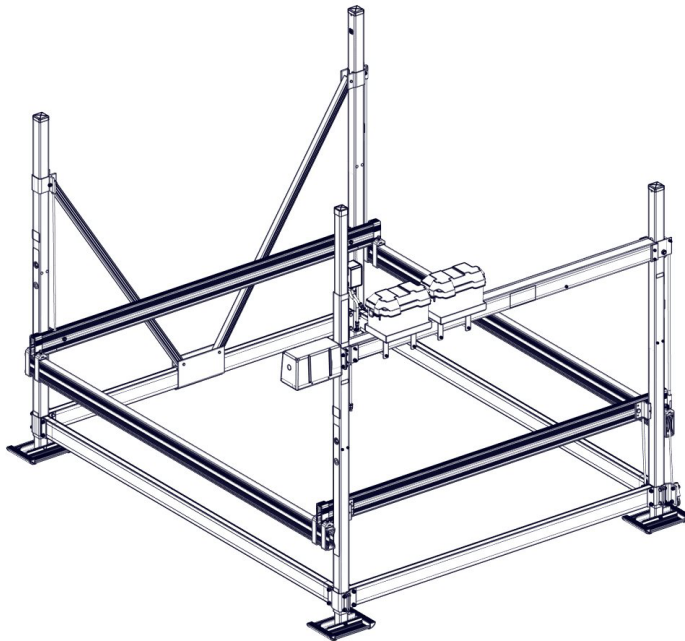


# FLOE VSD AC BRAKE REPLACEMENT PRE 2016 (ROUND STYLE)

## INSTRUCTIONS

KIT P/N 511-00002-00



\* LIFT & DRIVE KIT NOT INCLUDED

### TOOLS REQUIRED

- (2) 9/16" WRENCHES
- 1/4" FLAT TIP SCREWDRIVER
- 5/16" FLAT TIP SCREWDRIVER
- #2 PHILLIPS SCREWDRIVER
- SIDE CUTTERS
- 5/32" HEX BIT/ALLEN WRENCH  
(VSD3800/5000 LIFTS)
- 1/4" HEX BIT/ALLEN WRENCH  
(VSD6000-10000 LIFTS)
- TORQUE WRENCH
- TAPE MEASURE

### **VERY IMPORTANT!!!**

**LIFT MUST BE LOWERED ENTIRELY  
BEFORE REMOVING THE DRIVE UNIT.  
FAILURE TO ADHERE MAY RESULT IN  
SEVERE INJURY OR DEATH.**

**BILL OF MATERIALS/EXPLODED VIEW**

|                  |                           |                                |            |
|------------------|---------------------------|--------------------------------|------------|
| P/N 511-00002-00 | BRAKE, AC VSD MOTOR ROUND |                                |            |
| <u>NO.</u>       | <u>PART NUMBER</u>        | <u>DESCRIPTION</u>             | <u>QTY</u> |
| 1                | 007-03909-00              | BRAKE, ELECTRIC 120V AC W/ HEX | 1          |

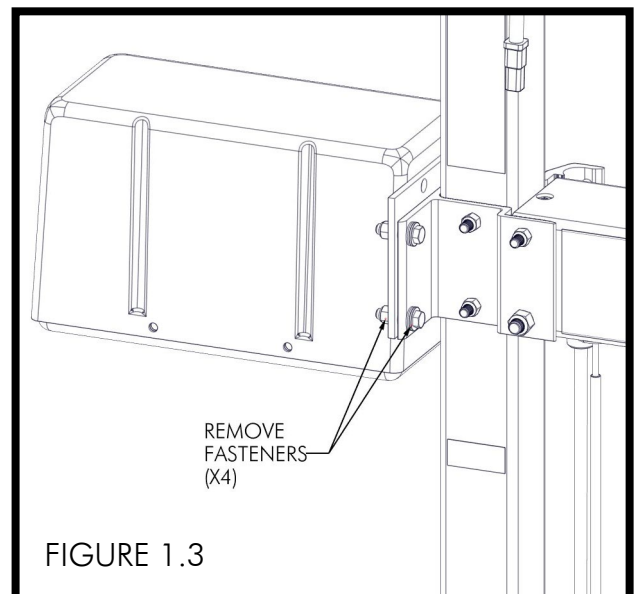
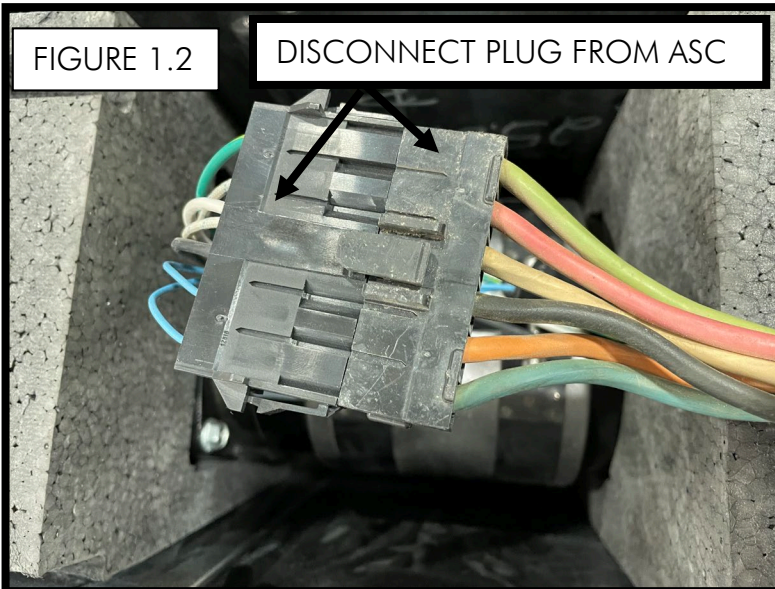




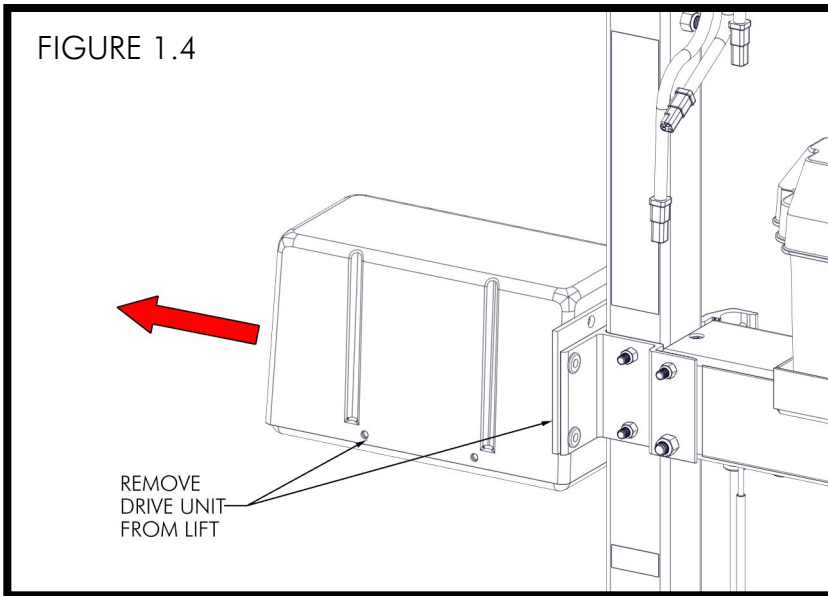
## STEP 1

**LOWER THE LIFT UNTIL THE CRADLE HAS REACHED THE LOWER LIMIT SWITCH AND THE WEIGHT OF THE BOAT IS NO LONGER ON THE LIFT. THERE MUST BE NO LOAD ON THE CRADLE/LIFT, AS THE DRIVE UNIT WILL BE REMOVED FROM THE LIFT. IDEALLY, THE BOAT WILL BE REMOVED FROM THE LIFT AND TIED TO THE DOCK.**

REMOVE (2) SCREWS FROM THE BOTTOM OF THE MOTOR COVER (FIGURE 1.1). PULL THE COVER DOWN AND DISCONNECT THE MOTOR PLUG FROM THE ASC (FIGURE 1.2). REMOVE THE FASTENERS SECURING THE DRIVE UNIT TO THE BALL SCREW CLAMP (FIGURE 1.3).

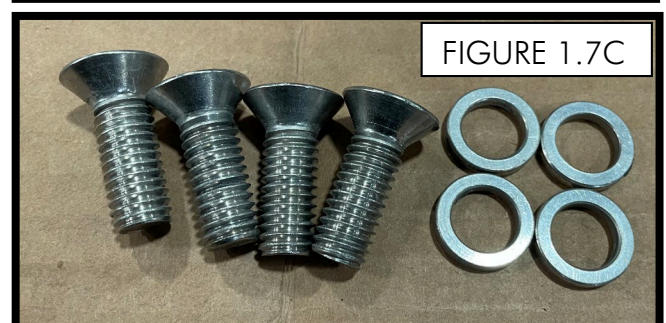
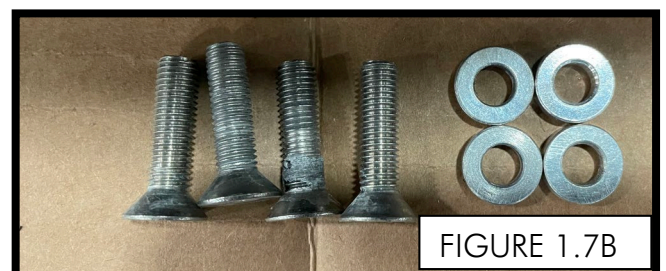
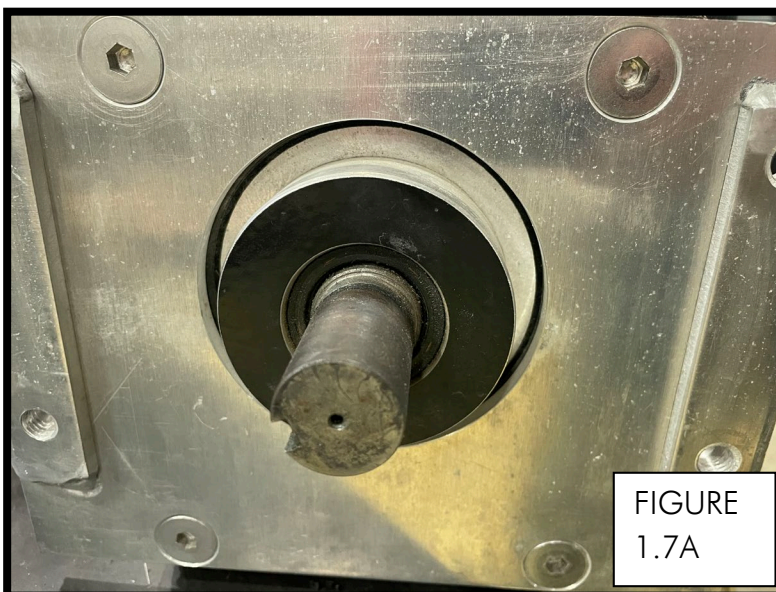
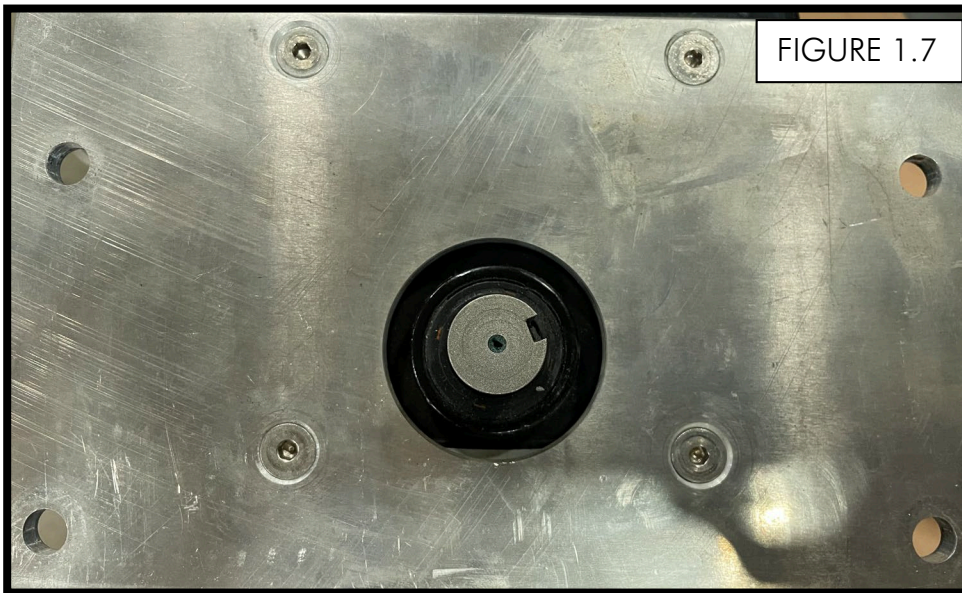


PULL THE MOTOR OUT OF THE END OF THE BALL SCREW (FIGURE 1.4). REMOVE THE REMAINING (2) SCREWS FROM THE COVER (FIGURE 1.5). REMOVE THE COVER AND THE FOAM INSERTS (FIGURE 1.6).





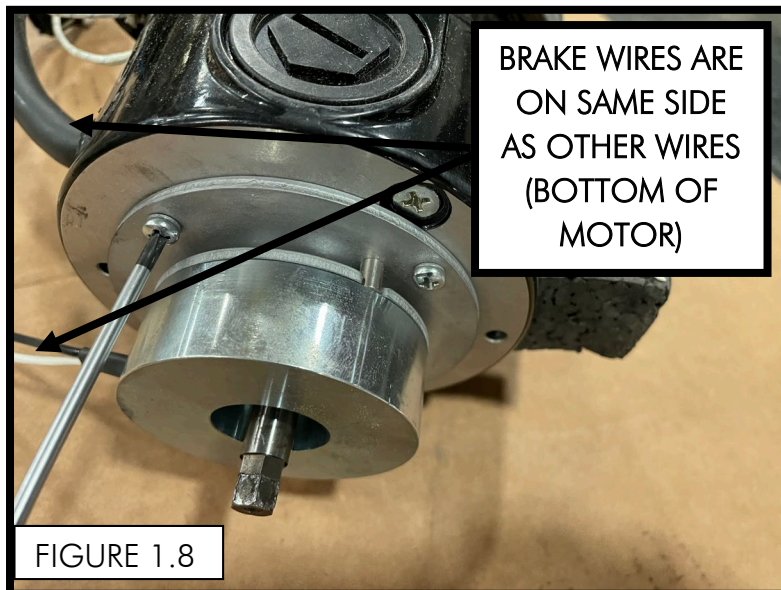
REMOVE THE (4) FASTENERS SECURING THE MOUNT FROM THE COVER. FOR VSD3800/5000 LIFTS, USE A 5/32" HEX BIT/ALLEN WRENCH TO REMOVE THE BOLTS (FIGURE 1.7). FOR VSD6000-10,000 LIFTS, USE A 1/4" HEX BIT/ALLEN WRENCH TO REMOVE THE BOLTS (FIGURE 1.7A). **NOTE: THERE ARE (4) SPACERS UNDERNEATH THE PLATE THAT NEED TO BE RETAINED FOR REASSEMBLY (FIGURE 1.7B & 1.7C).**



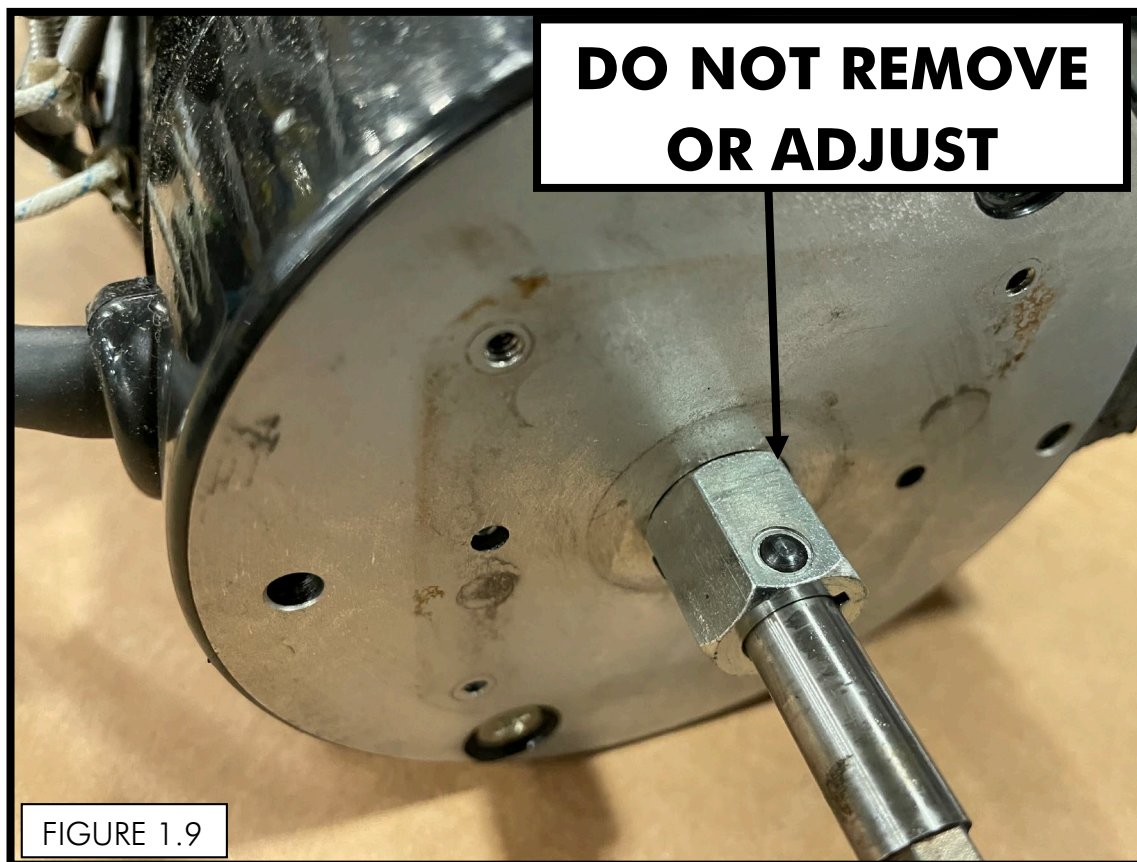


ONCE THE MOTOR IS REMOVED FROM THE COVER, REMOVE THE (4) SCREWS AND (4) WASHERS SECURING THE BRAKE TO THE MOTOR (FIGURE 1.8). NOTE THE ORIENTATION OF THE WIRES BEFORE REMOVING THE BRAKE).

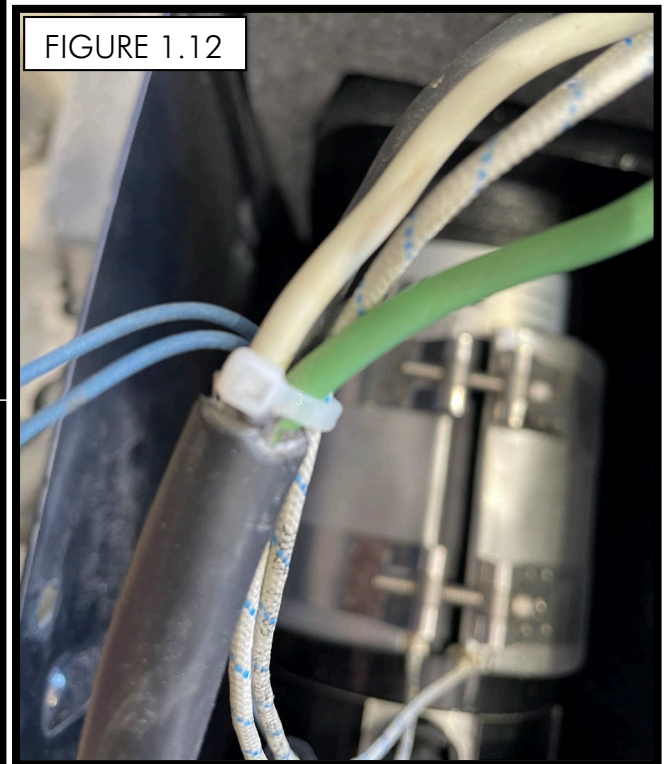
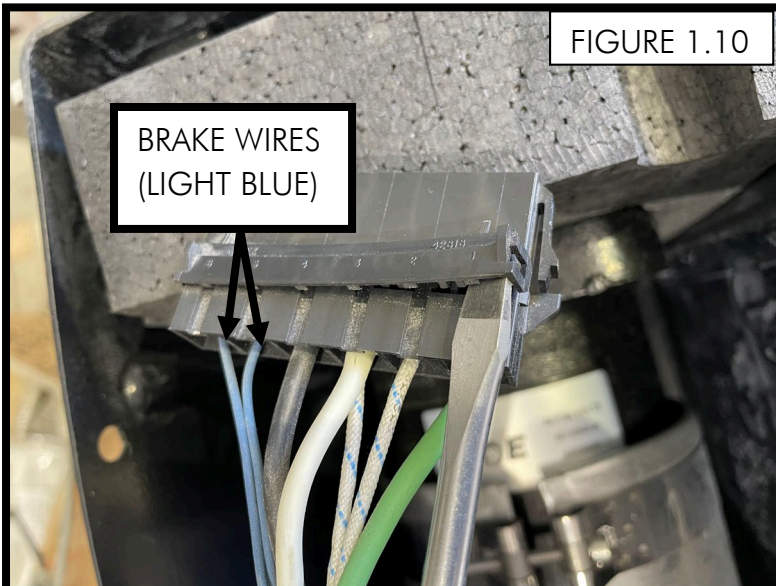
**VERY IMPORTANT: THE NUT ATTACHED TO THE MOTOR MUST NOT BE REMOVED OR ADJUSTED (FIGURE 1.9).**



**VERY IMPORTANT!!!**  
**DO NOT USE THE SUPPLIED NUT WITH REPLACEMENT BRAKE**

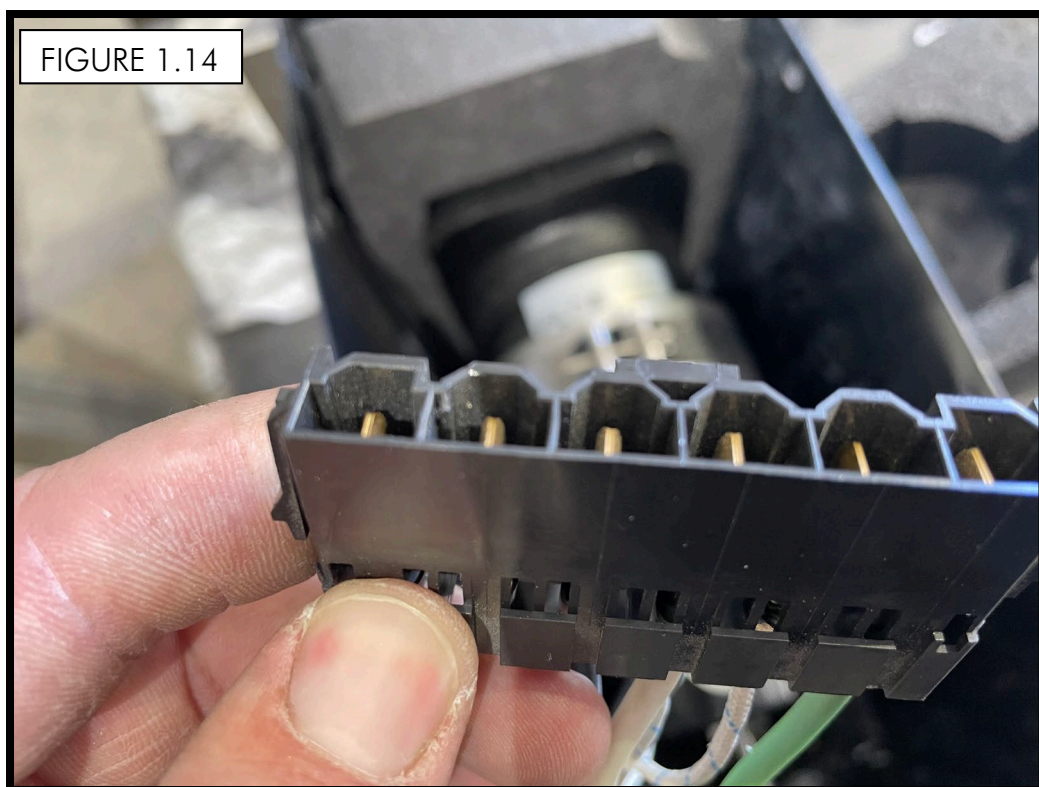
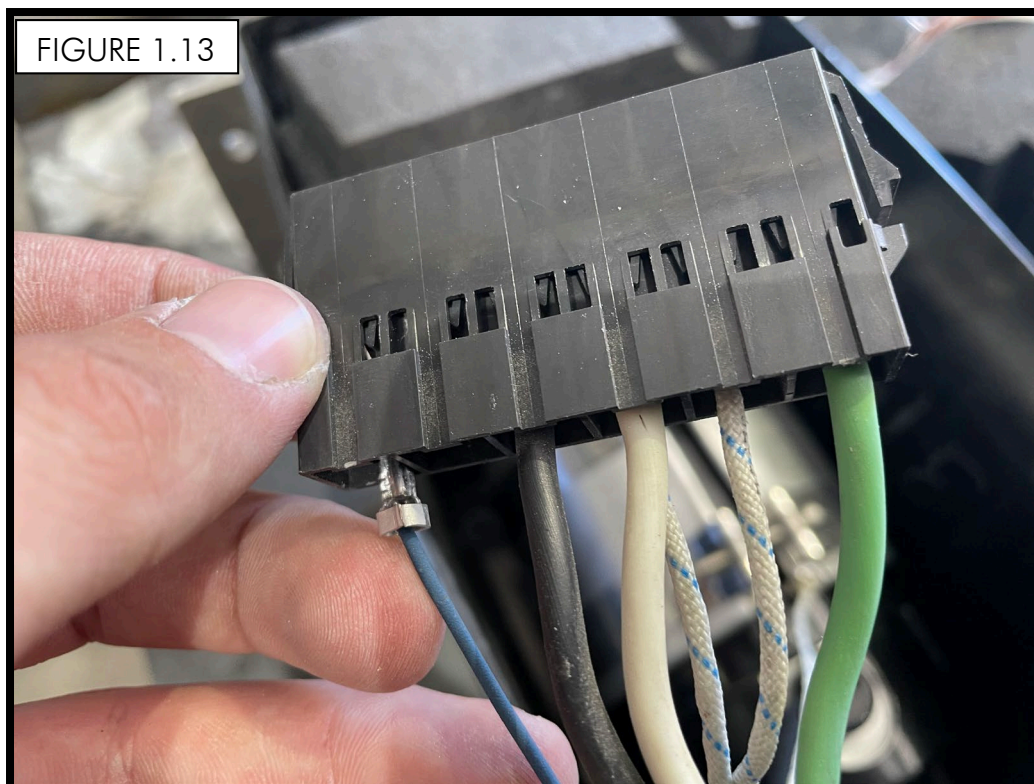


REMOVE THE CLIP RETAINING THE WIRES INTO THE PLUG. NOTE THAT THE BRAKE WIRES ARE THE TWO LIGHT BLUE ONES (FIGURE 1.10). PUSH THE PINS OUT OF THE PLUG USING A SCREWDRIVER. **DO NOT PULL ON THE WIRES** (FIGURE 1.11). CAREFULLY CUT THE WHITE ZIP TIE SECURING THE WIRES TOGETHER TO AVOID DAMAGING THE OTHER WIRES (FIGURE 1.12).





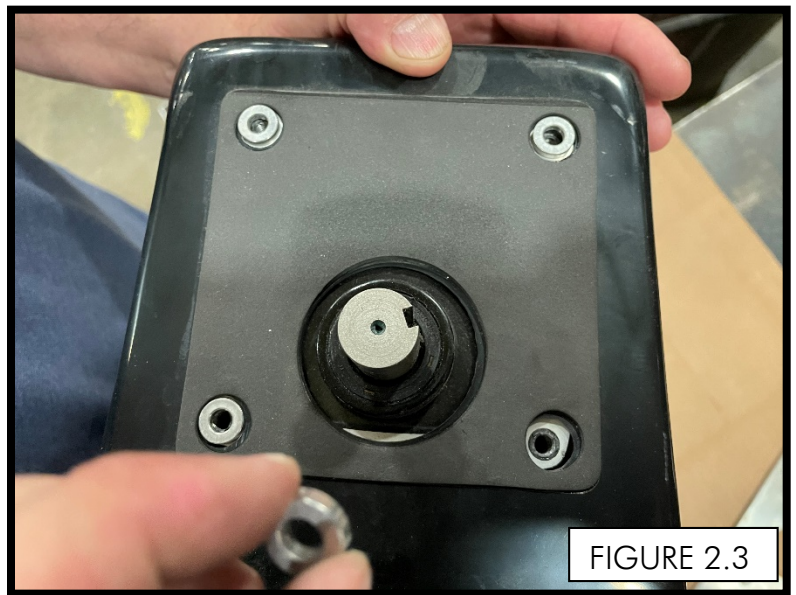
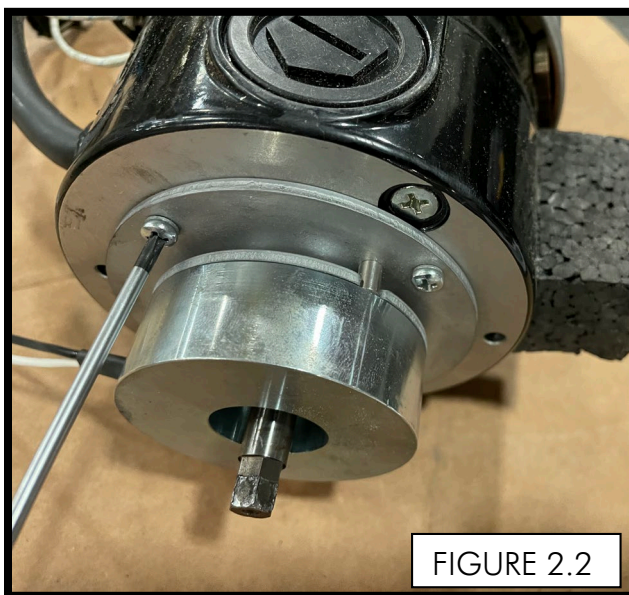
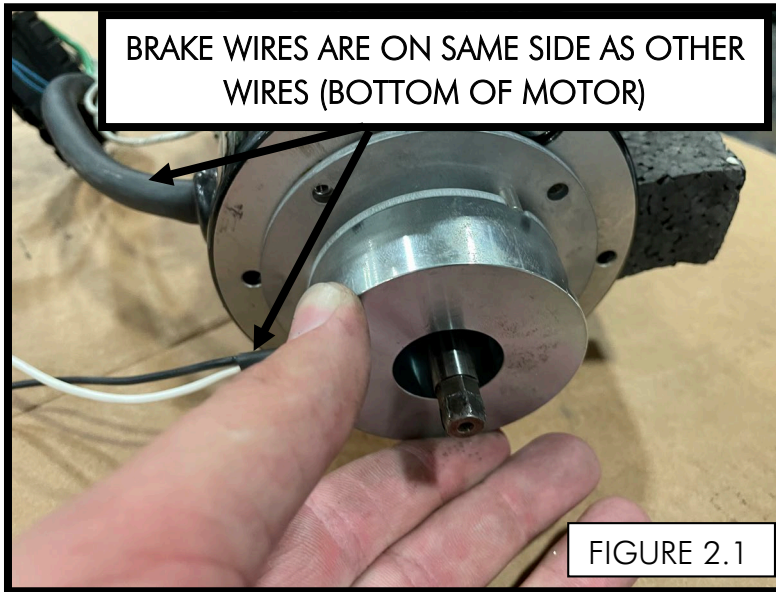
INSERT THE NEW BRAKE WIRE PINS INTO THE SAME LOCATIONS IN THE PLUG AS THE OLD BRAKE. **PLACEMENT DOES NOT MATTER** (FIGURE 1.13). PUSH THE PINS UNTIL THEY ARE FULLY SEATED IN THE PLUG (FIGURE 1.14).





## STEP 2

PLACE THE BRAKE ONTO THE END OF THE MOTOR WHILE ALIGNING THE MOUNTING HOLES (FIGURE 2.1). PLACE THE COVER BACK ONTO THE MOTOR WHILE ALIGNING THE MOUNTING HOLES IN THE MOTOR AND COVER. ATTACH USING THE PREVIOUSLY REMOVED SCREWS AND WASHERS SECURING THE OLD BRAKE (FIGURE 2.2). REPLACE THE PREVIOUSLY REMOVED SPACERS AS SHOWN (FIGURE 2.3).





REPLACE THE MOTOR PLATE AND THE PREVIOUSLY REMOVED BOLTS (FIGURE 2.4). TORQUE TO 10 FT-LB (FIGURE 2.5). REPLACE THE FOAM INSERTS (FIGURE 2.6) AND REPLACE THE COVER (FIGURE 2.7).

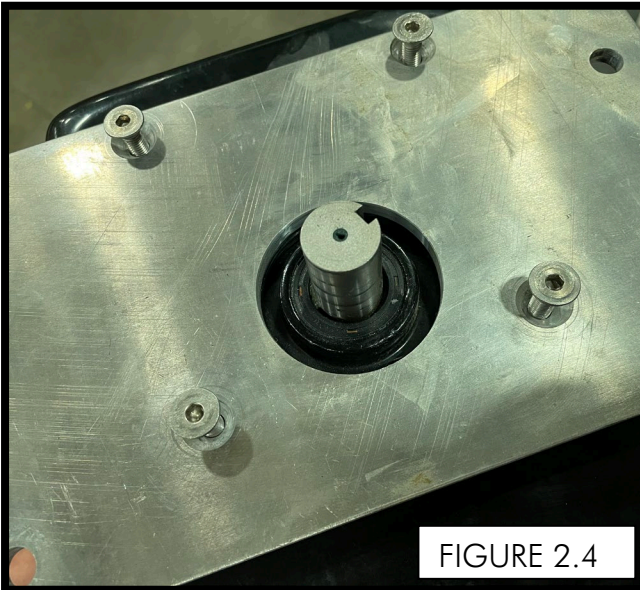


FIGURE 2.4

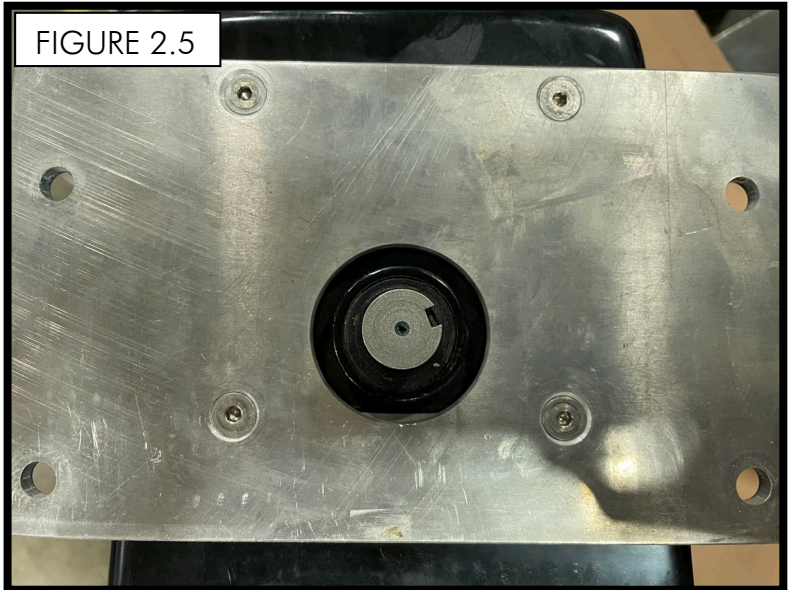


FIGURE 2.5



FIGURE 2.6

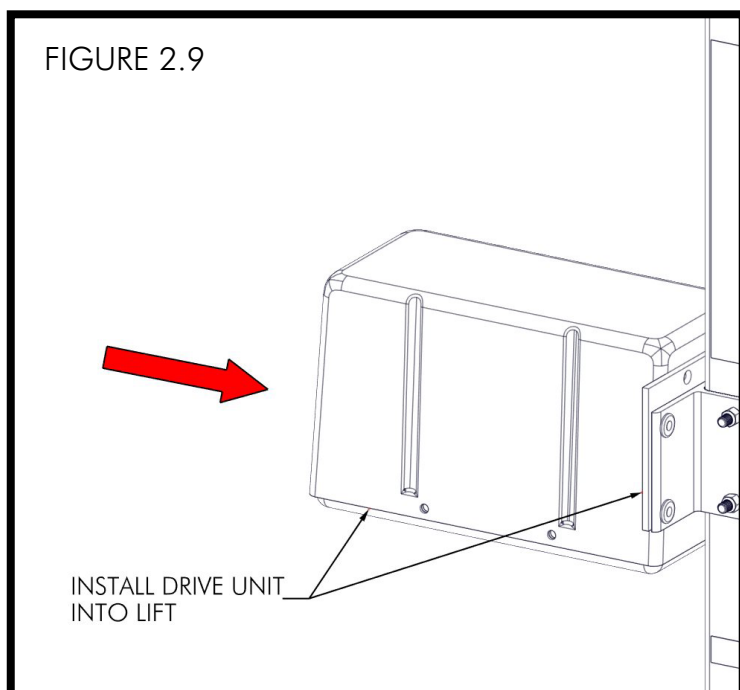
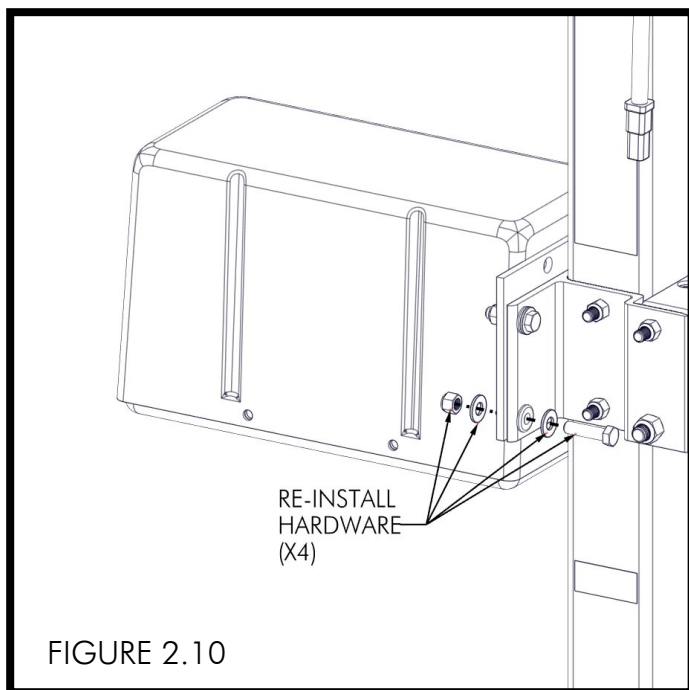
KEEP  
FOAM  
INSERTS  
AWAY  
FROM  
HEATER  
BAND



FIGURE 2.7



INSERT (2) SCREWS TO SECURE THE BOTTOM OF THE COVER (FIGURE 2.8). INSTALL THE MOTOR ONTO THE END OF THE BALL SCREW (FIGURE 2.9). RE-INSTALL THE PREVIOUSLY REMOVED FASTENERS TO SECURE THE MOTOR TO THE BALL SCREW CLAMP (FIGURE 2.10).



TIGHTEN FASTENERS UNTIL THERE IS A 1/8" GAP BETWEEN THE MOTOR PLATE AND BALL SCREW CLAMP (FIGURE 2.11). RE-ATTACH THE MOTOR PLUG TO THE ASC AND ROUTE THE WIRES UNDER THE COVER (FIGURE 2.12). INSTALL THE REMAINING (2) SCREWS TO THE BOTTOM OF THE MOTOR COVER (FIGURE 2.13).

