



## REPLACEMENT INSTRUCTIONS

### VSD COVER & BASE

VSD3800-10,000

VSD3800-5000 (DC VSD) P/N 511-38585-01

VSD3800-5000 (AC VSD) P/N 511-38590-00

VSD6000-10,000 (DC VSD) P/N 511-60785-01

VSD6000-8000 (AC VSD) P/N 511-60790-00



For more information, go to the owner support tab on the FLOE website

\*LIFT & BATTERIES NOT INCLUDED

### TOOLS REQUIRED

- (2) 9/16" SOCKETS/WRENCHES
- 5/32" OR 1/4" HEX BIT/ALLEN WRENCH
- 5/16" FLAT TIP SCREWDRIVER
- TORQUE WRENCH
- PRY BAR (IF MOTOR IS SEIZED INTO COUPLER)

**BILL OF MATERIALS**

VSD REPLACEMENT COVER & BASE (INCLUDES COVER WITH DECALS, BASE & SPEED NUTS, BASE SCREWS, LOWER SUPPORT FOAM, FOAM SPACERS, ANTI-SEIZE)	
PART NUMBER	DESCRIPTION
511-38585-01	KIT, VSD COVER & BASE REPLC. 3.8-5K DC
511-38590-00	KIT, VSD COVER & BASE REPLC. 3.8-5K AC
511-60785-01	KIT, VSD COVER & BASE REPLC. 6-10K DC
511-60790-00	KIT, VSD COVER & BASE REPLC. 6-8K AC

## ***IMPORTANT NOTE***

**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.**

**IF THE LIFT IS NOT COMPLETELY LOWERED, THE DRIVE UNIT WILL SPIN EXTREMELY FAST UNTIL THE CRADLE REACHES THE FRAME BEAMS.**

**IMPORTANT (AC DRIVE MOTORS):  
UNPLUG THE POWER CORD FROM THE  
ASC BEFORE PROCEEDING.**

## STEP 1

REMOVE (2) SCREWS FROM THE BOTTOM OF THE MOTOR COVER (FIGURE 1.1). PULL THE COVER DOWN AND DISCONNECT THE MOTOR & BRAKE WIRES (FIGURE 1.2). FOR AC DRIVE UNITS, DISCONNECT THE PLUG THAT IS COMING FROM THE ASC (FIGURE 1.2A).



FIGURE 1.1

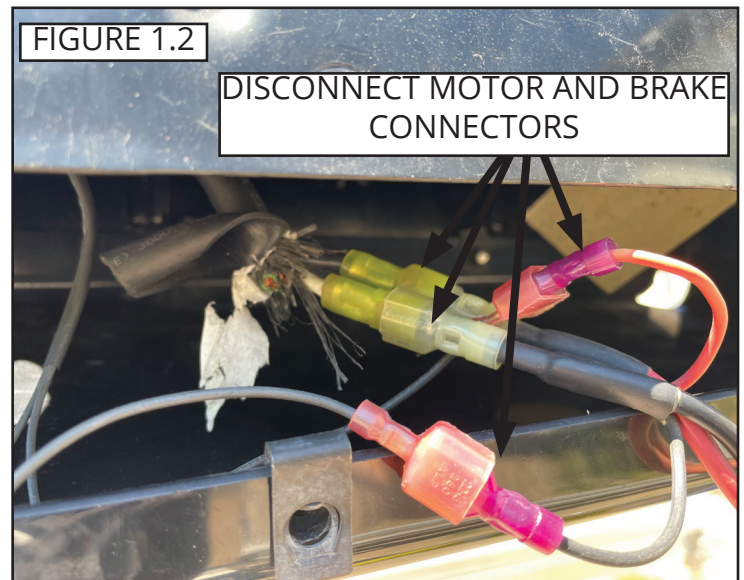


FIGURE 1.2

DISCONNECT MOTOR AND BRAKE CONNECTORS

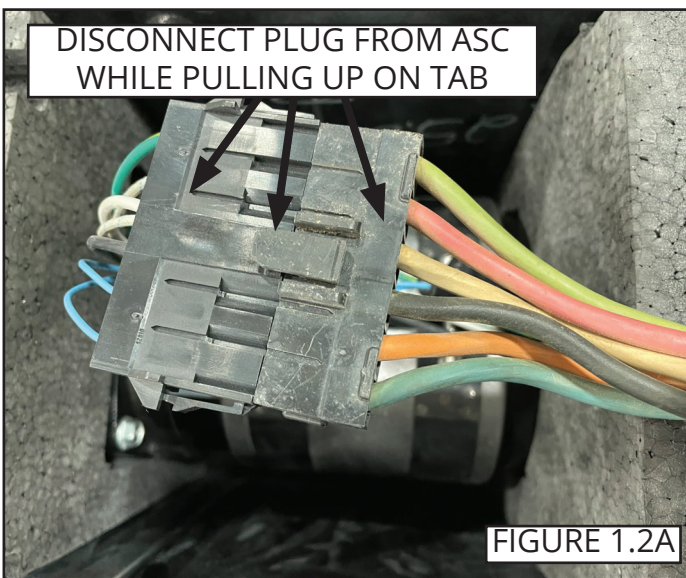
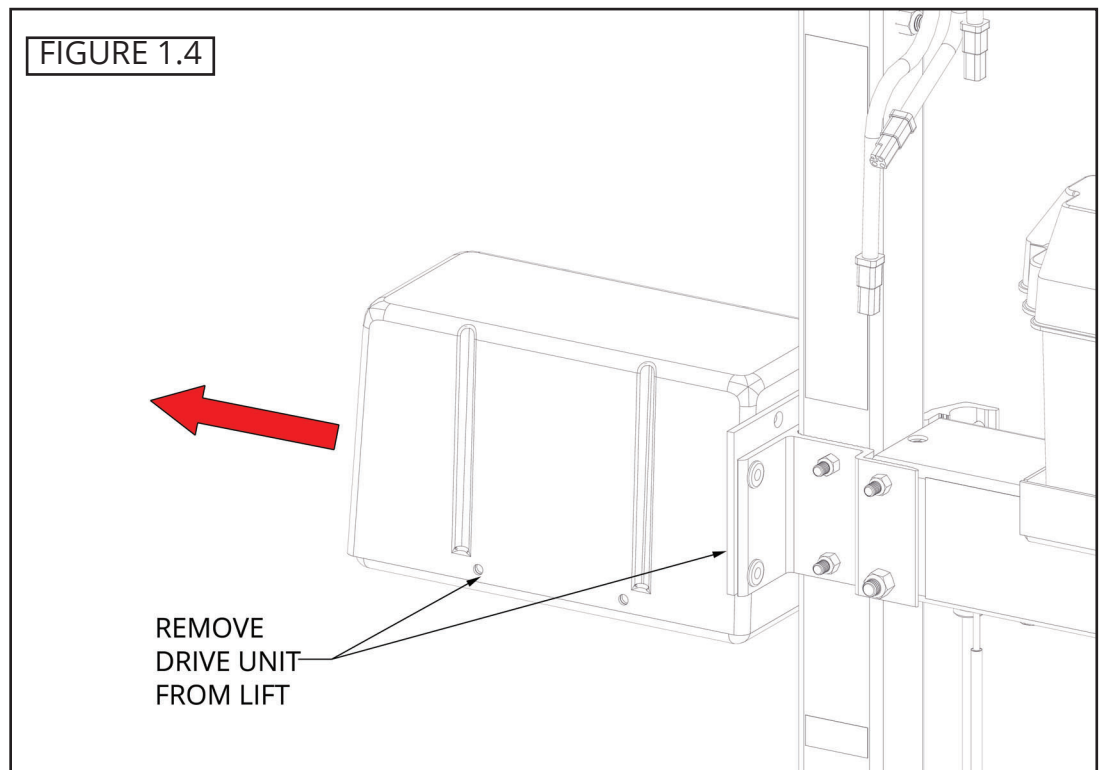
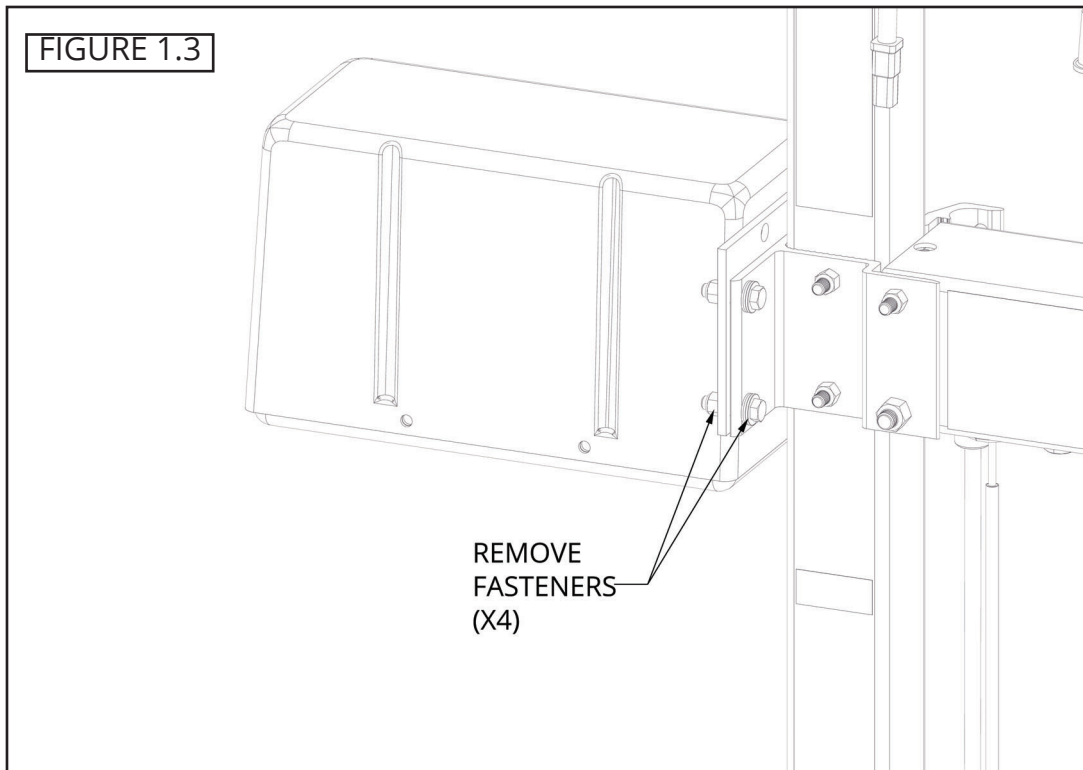


FIGURE 1.2A

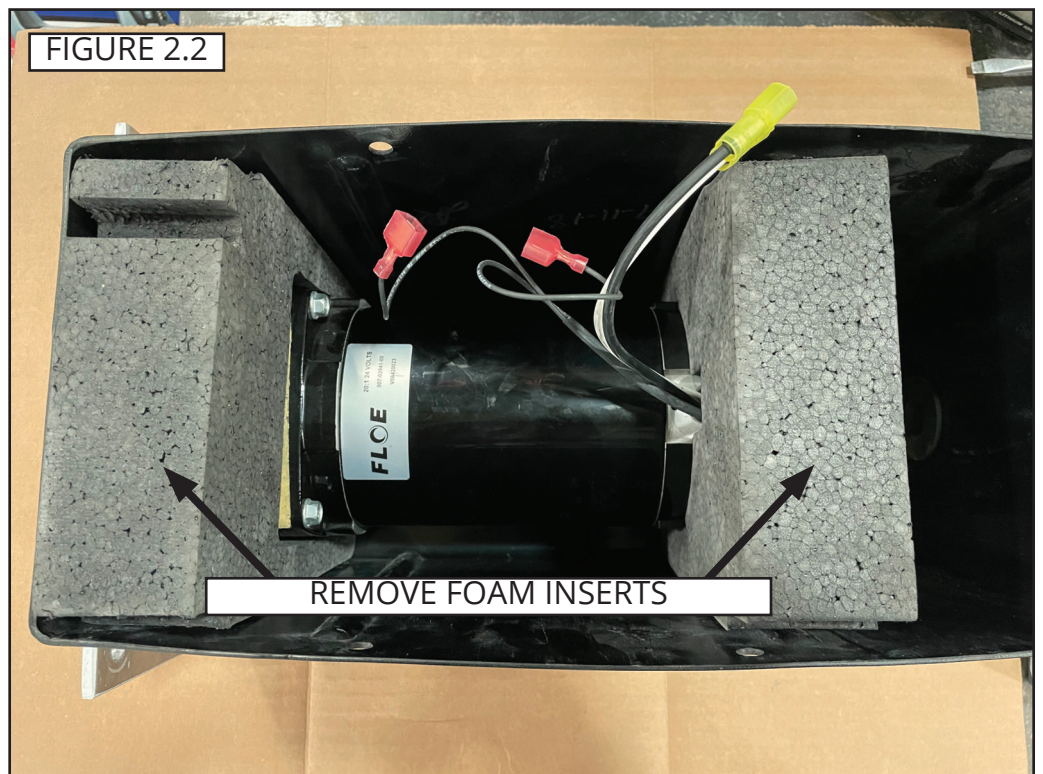


REMOVE THE FASTENERS SECURING THE DRIVE UNIT TO THE BALL SCREW CLAMP (FIGURE 1.3). PULL THE DRIVE UNIT OFF OF THE END OF THE BALL SCREW. IF THE DRIVE UNIT IS SEIZED INTO THE COUPLER ON THE BALL SCREW, USE A PRY BAR BETWEEN THE MOTOR MOUNTING PLATE AND THE BALL SCREW CLAMP TO PRY EVENLY ON ALL FOUR SIDES OF THE MOTOR MOUNTING PLATE, ALTERNATING FROM SIDE TO SIDE AND TOP TO BOTTOM (FIGURE 1.4).



## STEP 2

REMOVE THE OTHER TWO SCREWS SECURING THE BASE TO THE COVER (FIGURE 2.1). REMOVE THE FOAM INSERTS (FIGURE 2.2).



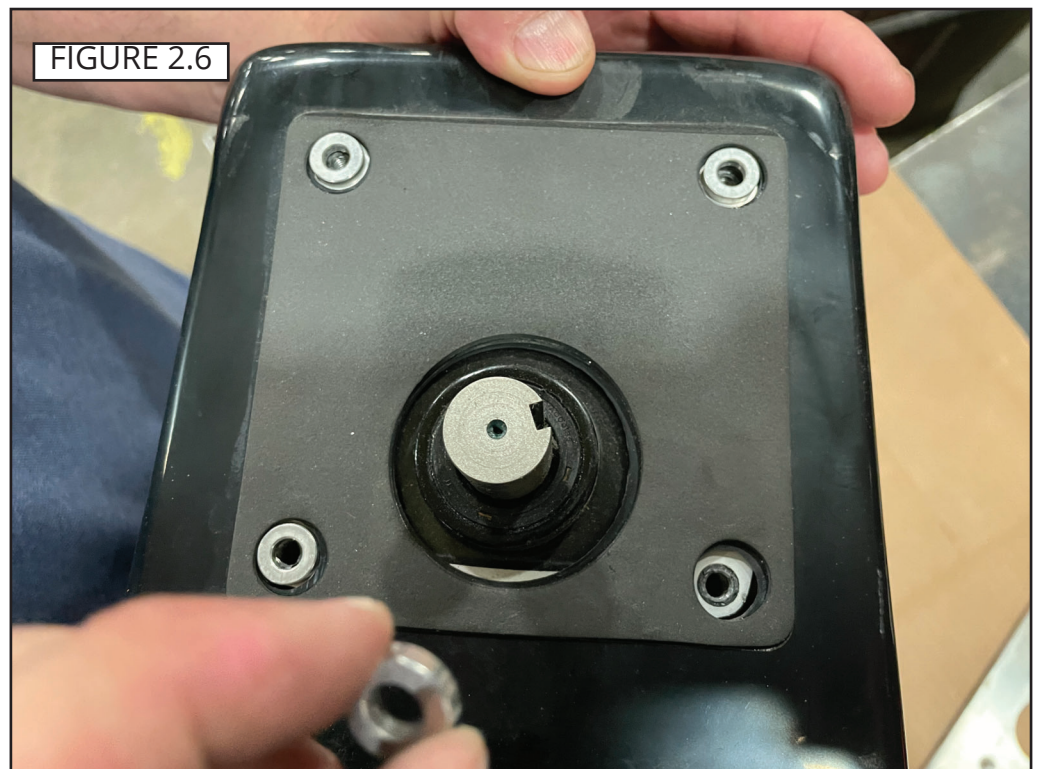
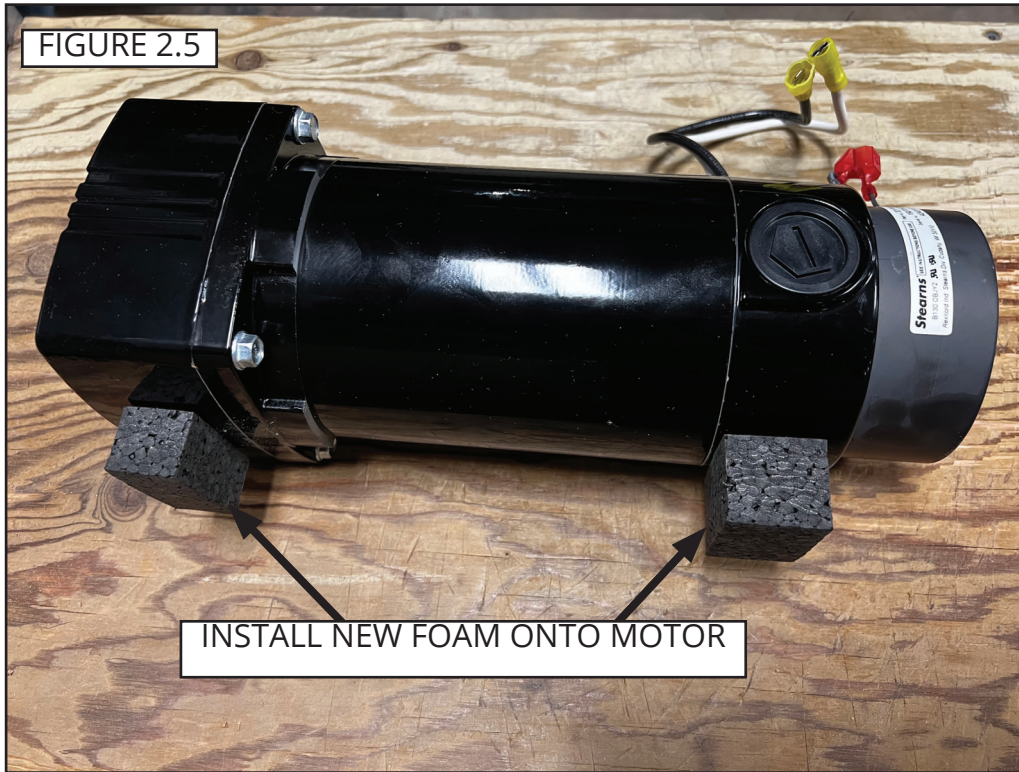


REMOVE THE (4) FASTENERS SECURING THE MOUNT TO THE COVER. FOR VSD3800/5000 LIFTS, USE A 5/32" HEX BIT/ALLEN WRENCH TO REMOVE THE BOLTS (FIGURE 2.3). FOR VSD6000-10,000 LIFTS, USE A 1/4" HEX BIT/ALLEN WRENCH TO REMOVE THE BOLTS (FIGURE 2.4).  
**DO NOT DISCARD BOLTS, THEY WILL BE RE-USED.**



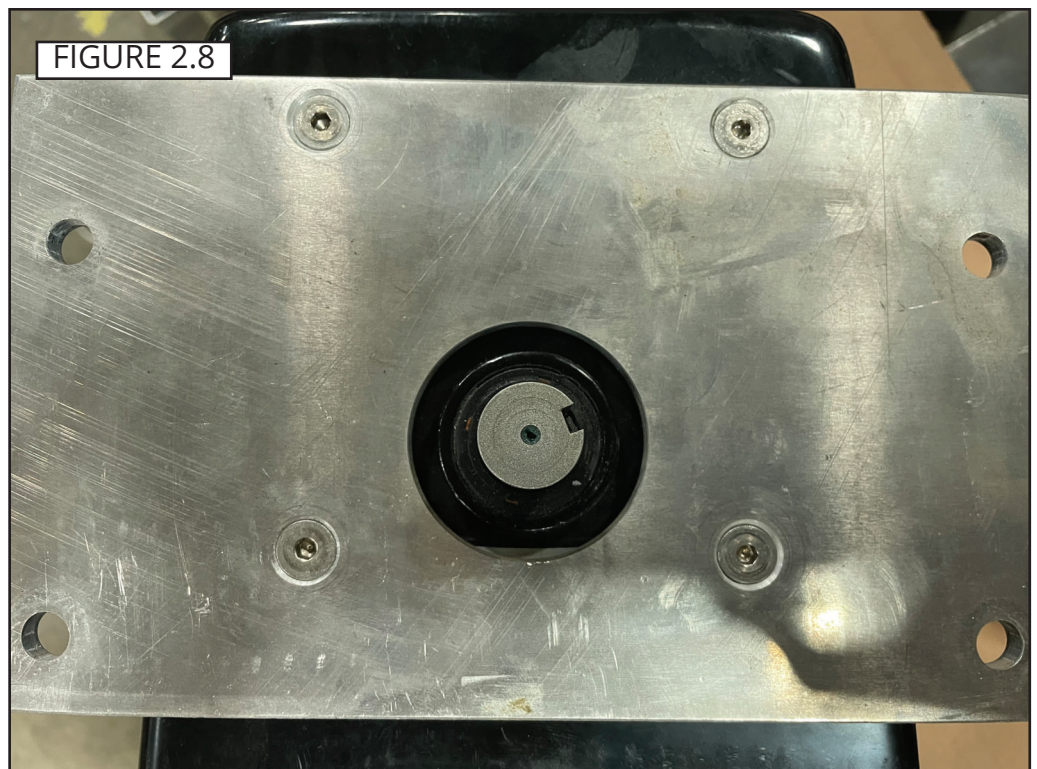
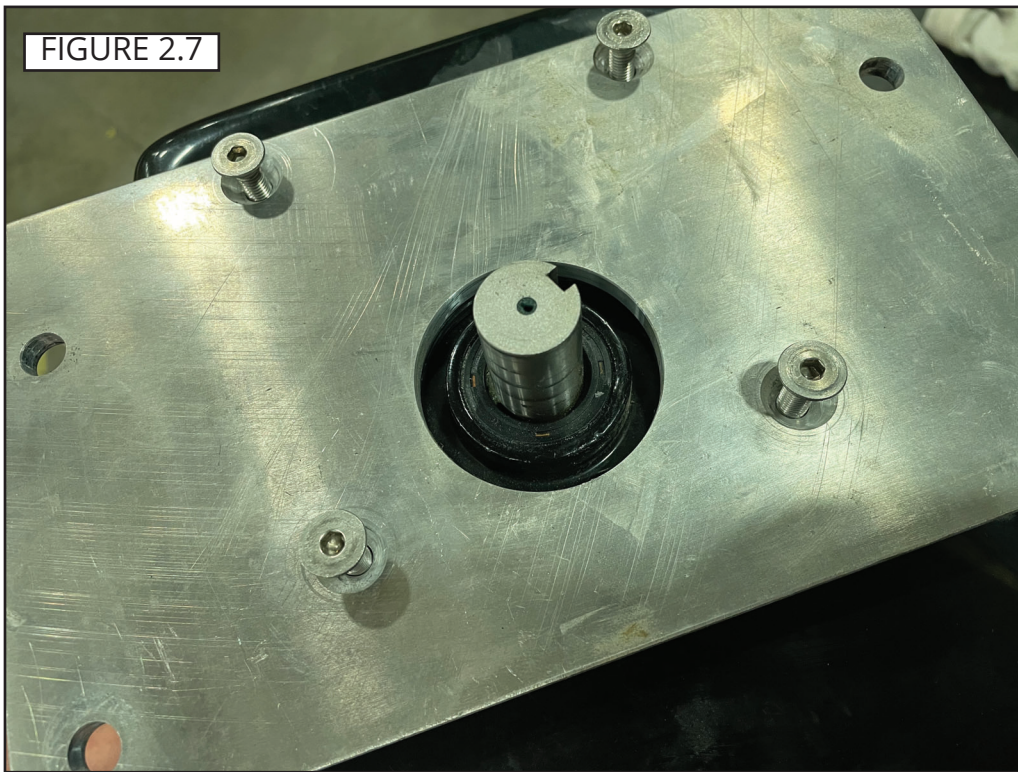


REMOVE THE MOTOR FROM THE COVER. REMOVE THE FOAM FROM THE MOTOR AND REPLACE WITH THE INCLUDED FOAM BY PEELING THE BACKING OFF OF THE DOUBLE SIDED TAPE AND PRESSING ONTO MOTOR CASE (FIGURE 2.5). PLACE THE NEW COVER OVER THE MOTOR WHILE ALIGNING THE MOUNTING HOLES ON THE MOTOR AND COVER. INSTALL THE INCLUDED SPACERS AS SHOWN (FIGURE 2.6).



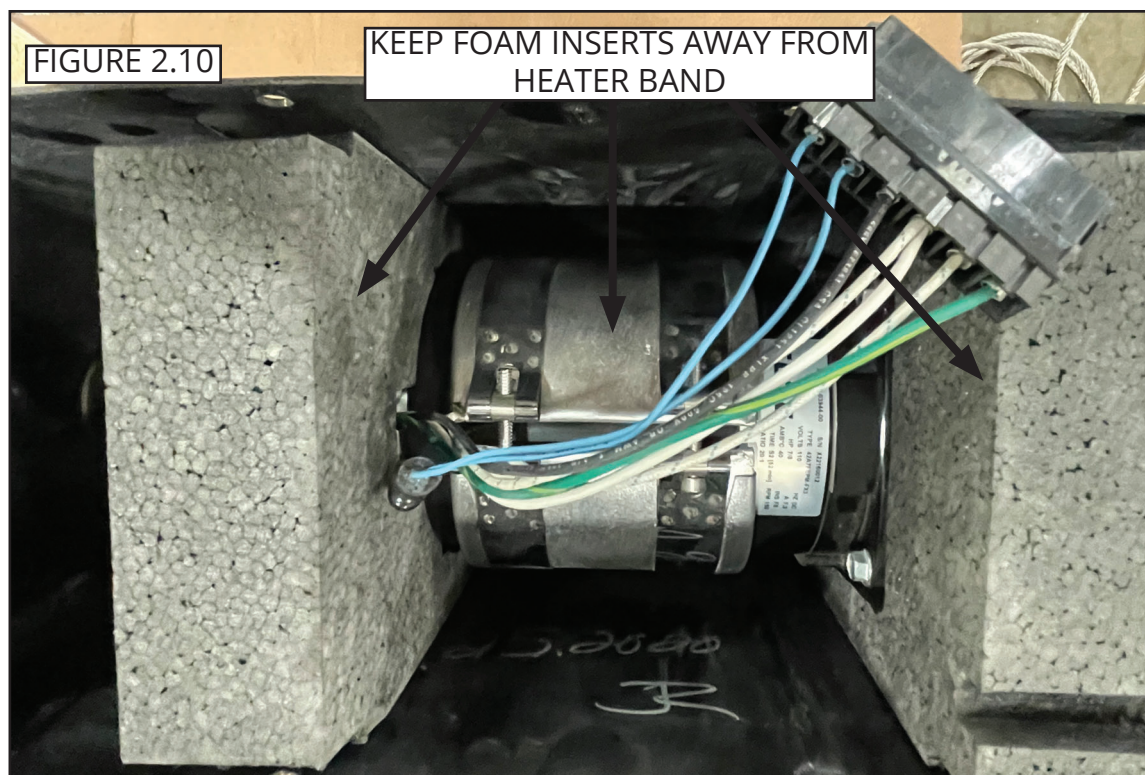
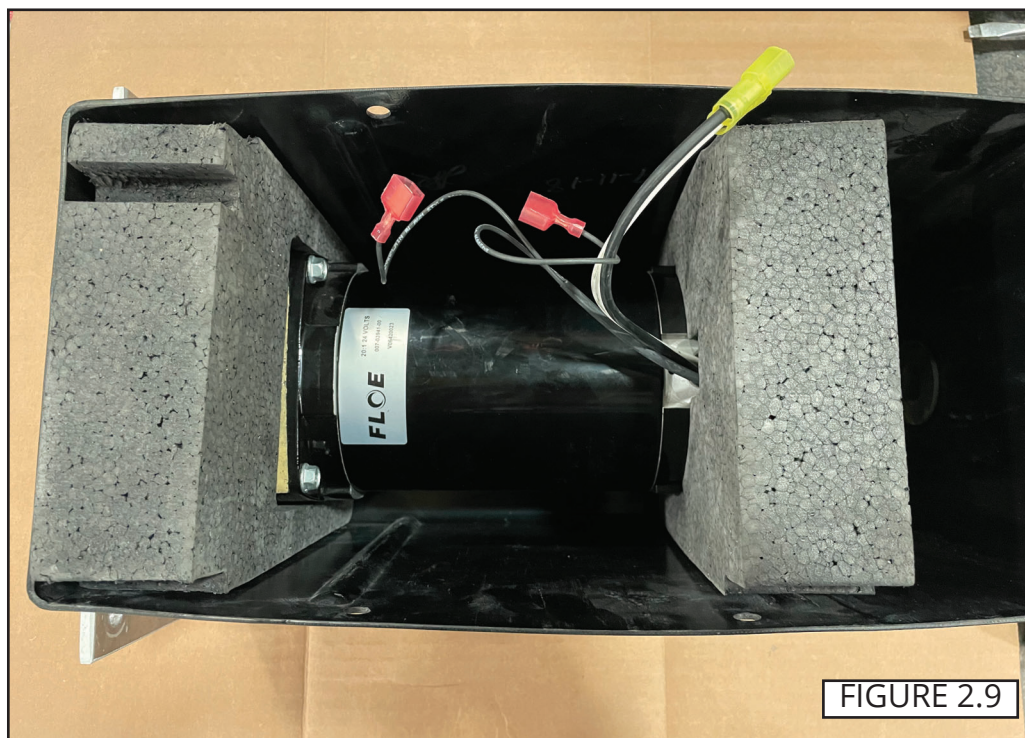


REPLACE THE MOTOR PLATE AND THE PREVIOUSLY REMOVED BOLTS (FIGURE 2.7). TORQUE TO 10 FT-LB (FIGURE 2.8).





REPLACE THE FOAM INSERTS AS SHOWN (FIGURE 2.9 & 2.10). FOR AC DRIVE UNITS, KEEP THE FOAM AWAY FROM THE HEATER BAND.





PLACE THE BASE ONTO THE BOTTOM OF THE COVER (FIGURE 2.11). INSERT (2) SCREWS TO SECURE THE BASE TO THE COVER (FIGURE 2.12).

FIGURE 2.11

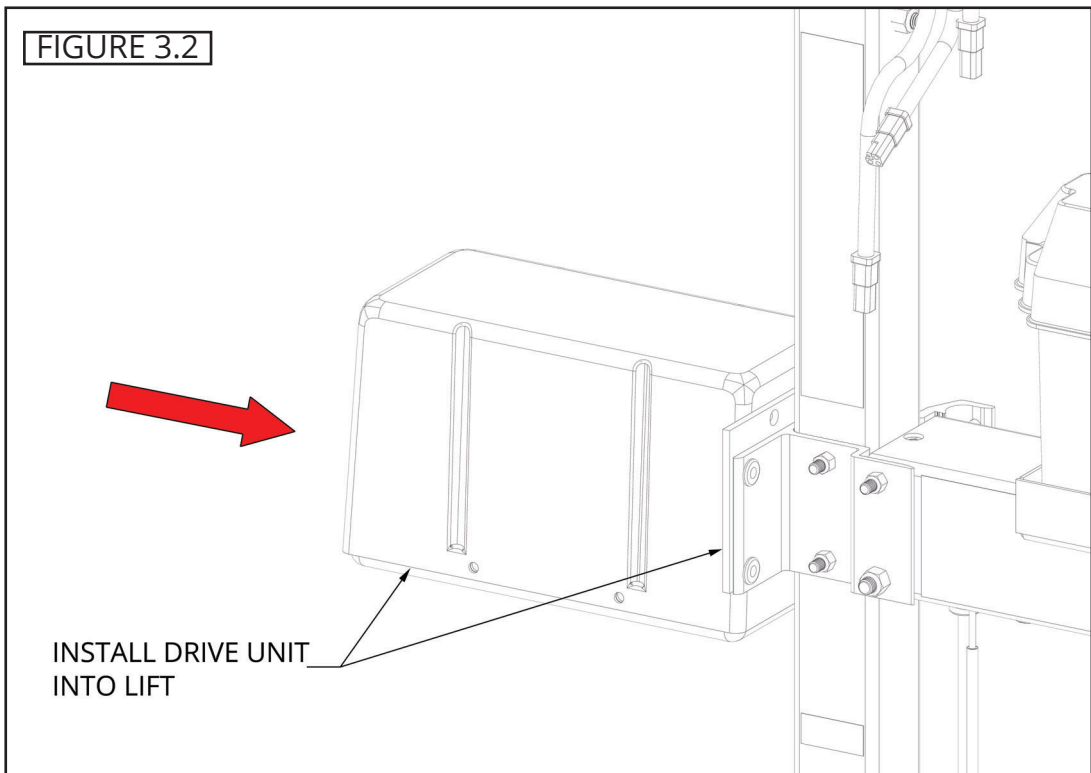
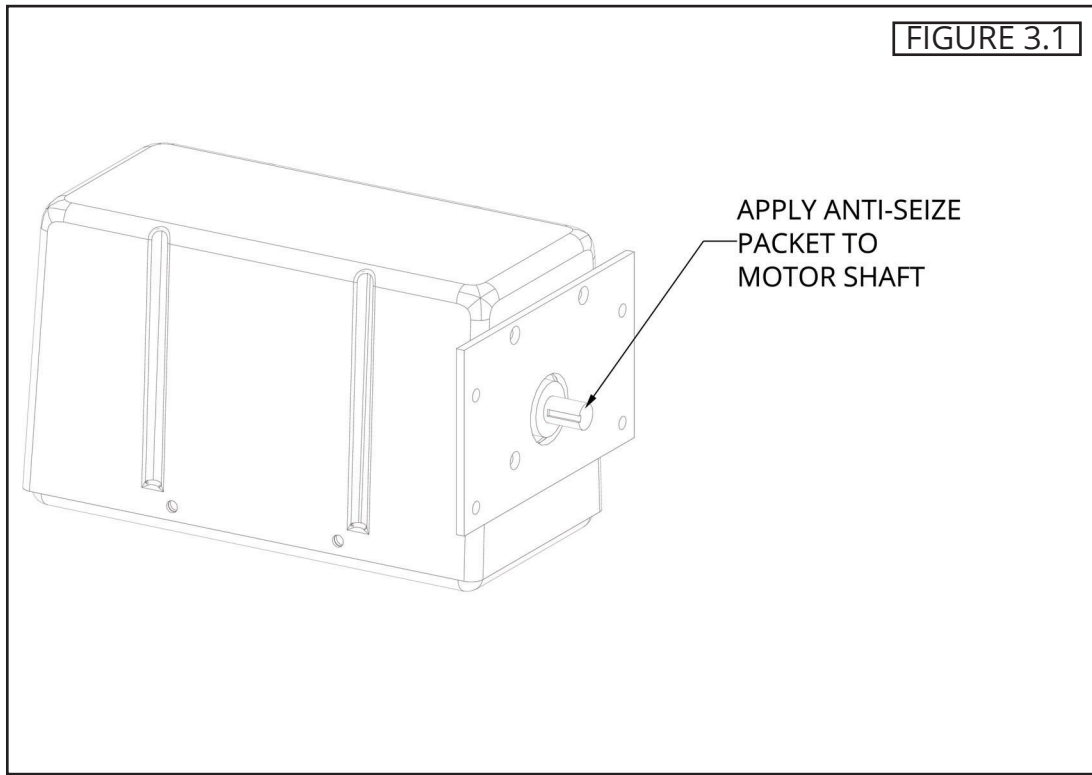


FIGURE 2.12

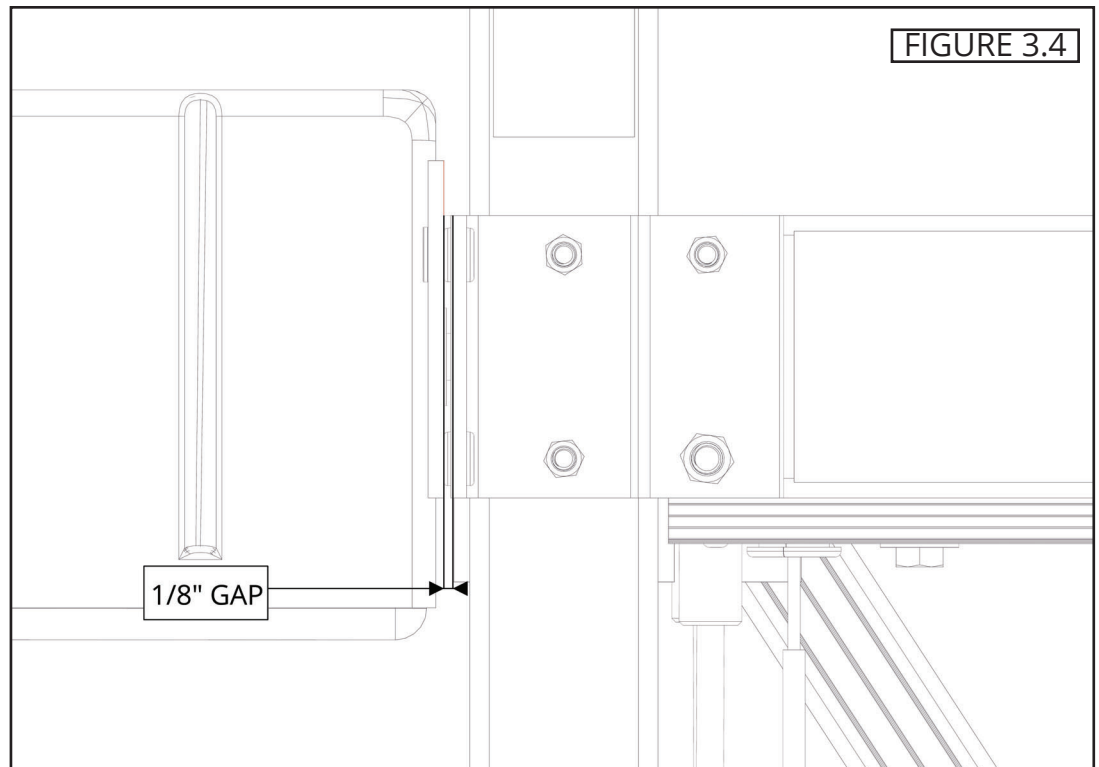
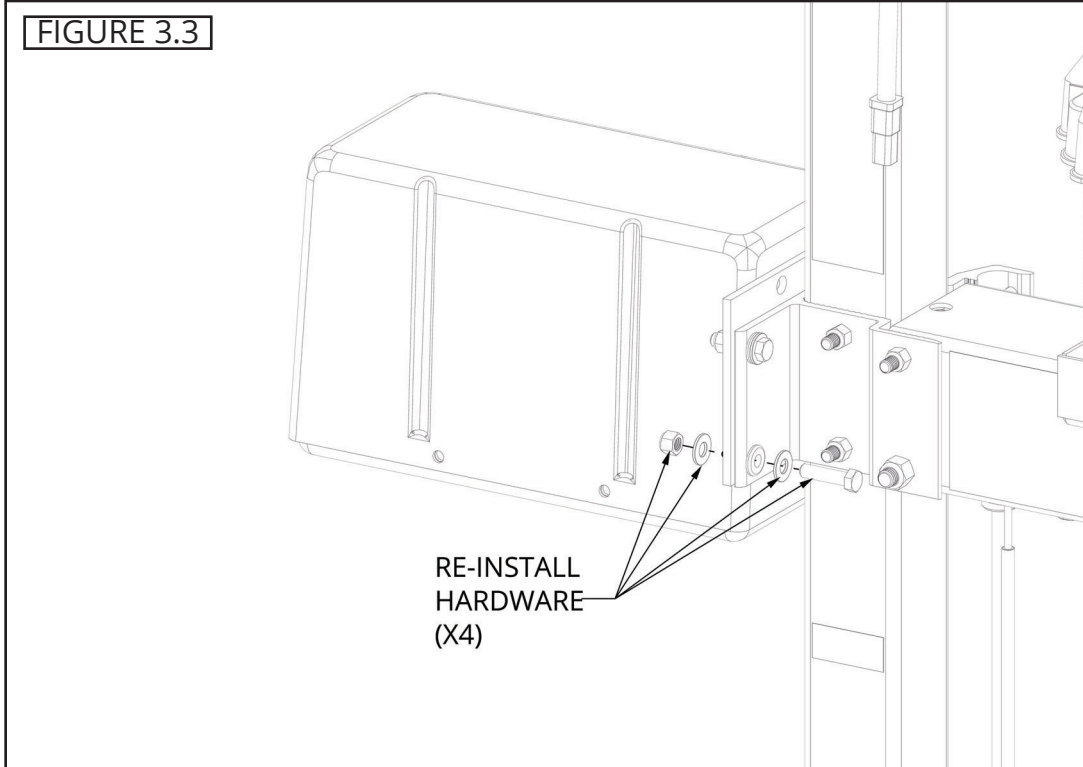


### STEP 3

APPLY THE ENTIRE CONTENTS OF THE ANTI-SEIZE TO THE MOTOR SHAFT OF THE DRIVE UNIT (FIGURE 3.1). INSTALL THE DRIVE UNIT ONTO THE END OF THE BALL SCREW (FIGURE 3.2).

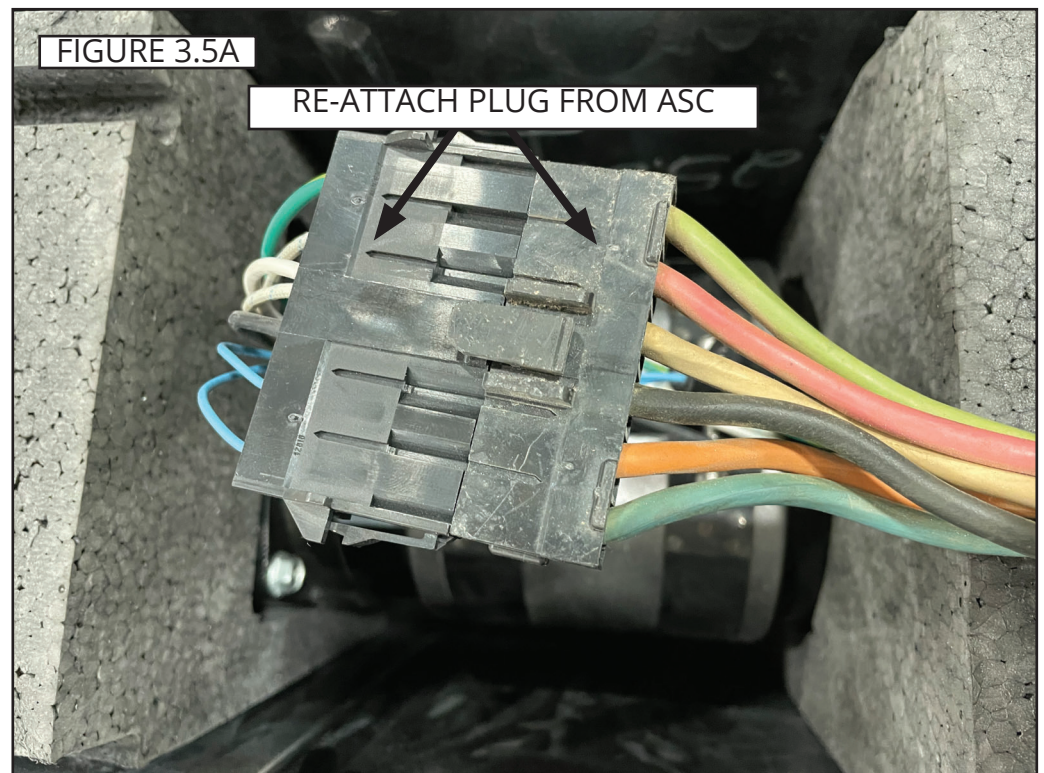
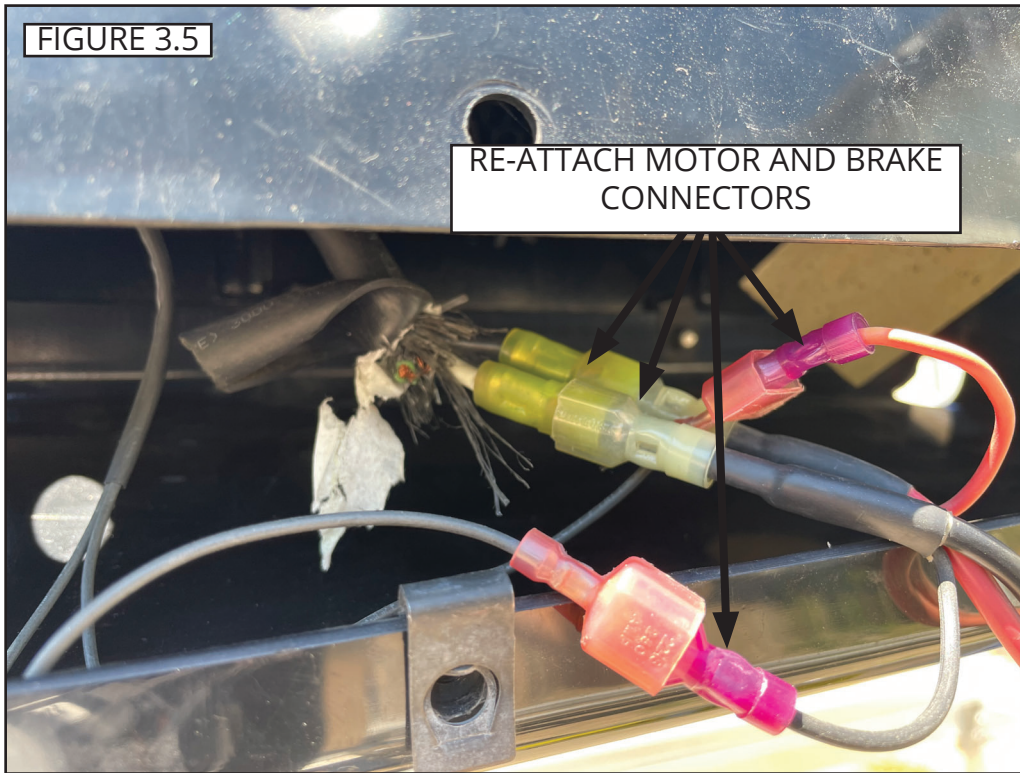


RE-INSTALL THE PREVIOUSLY REMOVED FASTENERS TO SECURE THE MOTOR TO THE BALL SCREW CLAMP (FIGURE 3.3). TIGHTEN FASTENERS UNTIL THERE IS A 1/8" GAP BETWEEN THE MOTOR PLATE AND BALL SCREW CLAMP (FIGURE 3.4).





WITH (2) SCREWS REMOVED FROM THE BOTTOM OF THE DRIVE UNIT COVER, RE-ATTACH THE WIRES COMING FROM THE ASC TO THE WIRES ON THE MOTOR (FOR DC DRIVE UNITS) (FIGURE 3.5). FOR AC DRIVE UNITS, RE-ATTACH THE PLUG COMING FROM THE ASC TO THE PLUG ON THE MOTOR (FIGURE 3.5A).





RE-INSTALL THE TWO SCREWS THAT WERE REMOVED TO CONNECT THE DRIVE UNIT WIRES/PLUG (FIGURE 3.6).



## ***NOTES***

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