

# FLOE 120 VOLT AC VSD DRIVE 3800, 5000, 6000, 6500 & 8000# LIFTS

P/Ns 511-38600-00,  
511-60030-00 & 511-80030-00  
**ASSEMBLY INSTRUCTIONS**



## TOOLS REQUIRED:

- (2) 3/4" socket or wrench for 1/2" nuts and bolts
- (1) 9/16" socket or wrench for 3/8" nuts and bolts
- (1) Flat tip screwdriver
- (1) Torque wrench



**WARNING**

POWER CONNECTION TO THE FLOE 120 VOLT AC VSD DRIVE UNIT MUST BE MADE BY A QUALIFIED LICENSED ELECTRICAL CONTRACTOR USING THE APPROPRIATE 20 AMP G.F.I.C. (GROUND FAULT INTERRUPT CIRCUIT) PROTECTION DEVICE. THIS UNIT MUST BE LOCATED AT THE LEAD END OF THE POWER SUPPLY TO PREVENT ANY UNPROTECTED CURRENT FROM COMING IN CONTACT WITH WATER. FAILURE TO DO SO MAY RESULT IN SEVERE INJURY OR POSSIBLE DEATH AND WILL VOID THE WARRANTY.

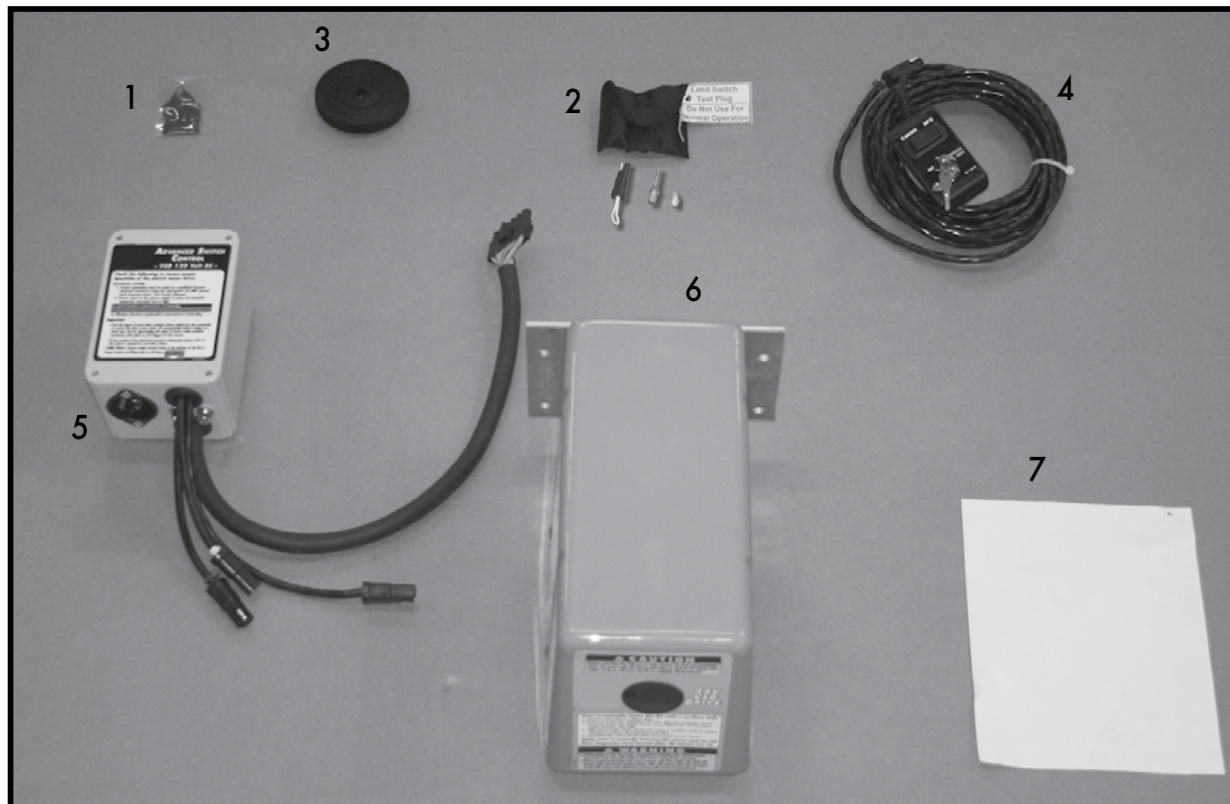
607-1122-00

INSTRUCTION P/N: 611-50060-00  
ISSUE DATE: 9/11/13  
REVISED: 12/4/20

Manufactured By:  
Floe International, Inc.  
48473 State Hwy. 65  
McGregor, MN 55760

## PARTS LIST

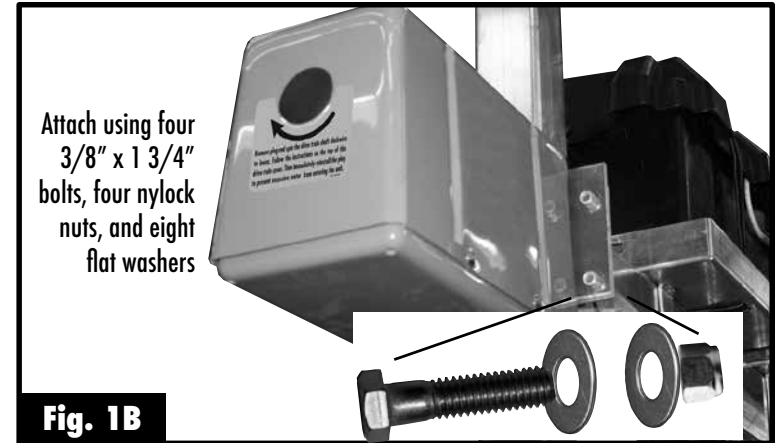
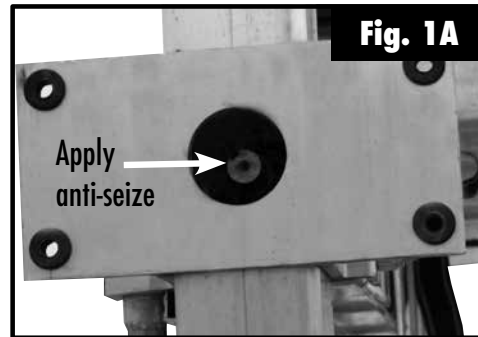
- (1) One - Packet of Anti-Seize, 006-04000-00
- (2) One - VSD Tool Kit
  - One - Tool Kit Pouch, 007-03980-00
  - One - 3/8" Drive Socket Adapter, 007-03981-00
  - One - Grease Gun Adapter, 007-03982-00
  - One - VSD Limit Switch Test Plug, 007-05293-00
  - One - or 5/16" Nut Setter, 007-03985-00
- (3) 3.3 yards - Double Side Velcro, 014-02310-00
- (4) One - Wired Remote, 111-70010-00
- (5) One - 120 Volt AC VSD Advanced Switch Control, 111-85000-00
- (6) One - 120 Volt AC Drive Motor
  - 511-45016-01 included with 511-38600-00
  - 511-75003-01 included with 511-60030-00
  - 511-80035-01 included with 511-80030-00
- (7) One - 120 Volt AC Installation Instructions, 611-50060-00



## STEP 1 - - - - -

With the lift frame assembly done the VSD Drive Train and electronics can now be installed. Apply a generous amount of anti-seize to the inside of the rigid coupler (Fig. 1A). Then attach the "VSD Power Unit" to the "ball screw clamp" using four 3/8" x 1 3/4" bolts, four nylock nuts, and eight flat washers as shown (Fig 1B). Torque to 10 ft/lbs. NOTE: The motor shaft and the rigid coupler are keyed and must be aligned.

**--- IMPORTANT ---**  
**Apply a generous amount of Anti-Seize to the inside of the rigid coupler attached to the Ball Screw.**



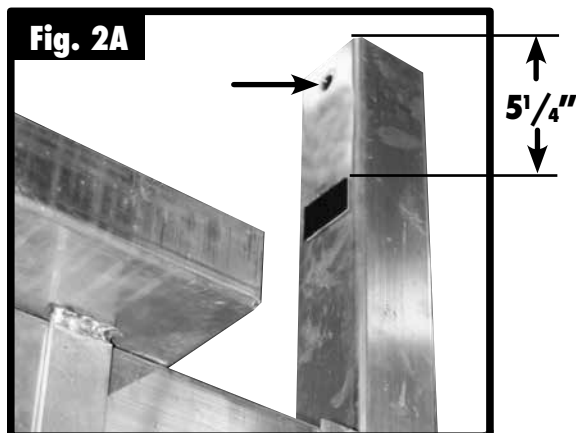
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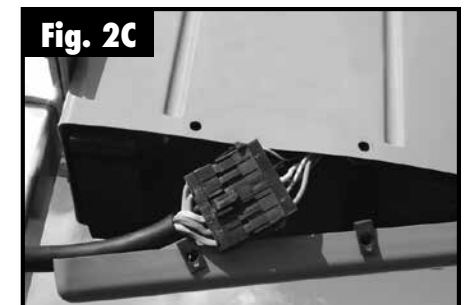
007-1123-09

## STEP 2 - - - - -

Clean and adhere the dual lock 5-1/4" down from the top of the corner post. (Fig. 2A) Attach the Advanced Switch Control (ASC) to the hole in the top of the corner post with the nut and bolt provided in the corner post holding the canopy insert. (Fig. 2B) Connect "Advanced Switch Control" to the "VSD Power Unit" by removing the four screws in the bottom cover. Inside the power unit is a black six connector plug. Connect this plug with the plug on the Advanced Switch Control (Fig. 2C). Replace the cover on the bottom of the VSD Power Unit.



Attach the Advanced Switch Control to the winch post by pressing Dual Lock pads together.



### STEP 3

Plug 4 connector wired remote into the corresponding lead of the Advanced System Control box. Note: The wired remote lead is identified by the blue wire tie next to the base of the plug on the ASC as shown. Plug the 4 connector limit switch lead protruding from the bottom of the limit switch housing to the corresponding plug on the ASC. Note: The ASC Limit switch plug does not have a color coded cable tie attached. (Fig. 3A) Plug in the power supply cord. SEE WARNING BELOW!! Attach the adhesive-backed tool kit to the lift frame, so that these tools are readily available when needed, by cleaning the area above the tool kit decal and pressing it to the corner post as shown in (Fig. 3B).



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### STEP 4

Secure all loose wires and the wire from the wired remote to the lift structure by cutting off pieces of the included double sided Velcro. The best way to secure the wired remote is to go up from the Advanced Switch Control and attach the wire to the inside of the canopy frame if you have one. Then come down from the canopy frame to the side of your lift that is against the dock. (Fig. 4A) and (Fig. 4B)

