

# WARNING

## PLEASE READ

the following before installing a new or repaired power feed board or a power feed upgrade kit. Many power feed board failures are caused by problems not associated with the board and failure to identify and repair these items may result in damage to the replacement board or kit. If you are unsure of the wiring check out the wiring diagrams posted at [www.ical-online.com](http://www.ical-online.com). Please check the following!

### #1 MOTOR

- A) Remove motor brushes and examine them for wear. Short or rough brushes should be replaced.
- B) With the brushes removed, physically examine the motor armature. It should be clean with no signs of burning, arcing, or liquid contamination.
- C) Reinstall the brushes and check the armature resistance in several places. Normal resistance is 1 ohm. Also confirm infinite resistance to ground and field windings.
- D) Check the resistance of the motor field-it should read approximately 500 ohms with infinite resistance to ground.
- E) Make sure no oil has leaked into the motor. If oil is present, proper servicing of the motor will be required. After reassembly confirm correct readings from step C & D. Seal two motor assembly screws with silicone sealer.

### #2 LIMIT SWITCHES

- A) Check resistance from the common to the normally open contact on each limit switch-with plunger relaxed resistance should be infinite and with plunger depressed resistance should be zero. No other reading is acceptable.
- B) Check resistance from the common to the normally closed contact on each limit switch-with plunger relaxed resistance should be zero and with plunger depressed resistance should be infinite. No other reading is acceptable.
- C) Perform both checks with both limit switches installed in power feed unit and adjust for proper operation moving handle left and right to activate each switch individually. If both switches are made at the same point in time you could blow the power feed board. Be aware that a defective or improperly adjusted switch can create a direct short across the field circuit and will damage the board.

### #3 POWER

- A) Insure that the incoming power is 115VAC, is properly grounded and that the hot leg in on the black wire.
- B) Check fuse for proper size, 10 amp. A smaller fuse (4 amp) can be used for initial testing to reduce the chance of damage to the board.

### #4) OIL

- A) Fill the gearbox reservoir no higher than the middle of the sight glass with Mobilube #46 S.A.E. 140.