Logic Board Replacement
For: FlexJet-E Plotters ONLY

WARNING

- **The FlexJet-E plotter is very heavy and could cause an injury if it falls. Make sure the machine is secure on the stand and that another person assists with removing the rear cover.**
- **When the bottom cover of the FlexJet-E is removed and the power is on there is an electric shock hazard. These diagnostic procedures should only be performed by qualified technical personnel or individuals that are aware of safe practices with 110 VAC and 220 VAC devices.**
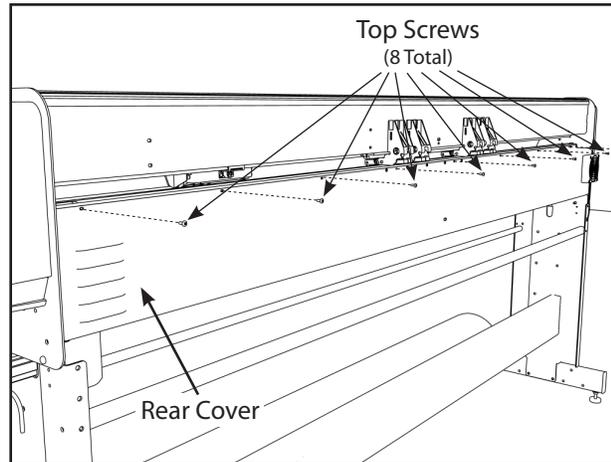
Tools Required

1) Phillips Screwdriver
2) Wrist Grounding Strap
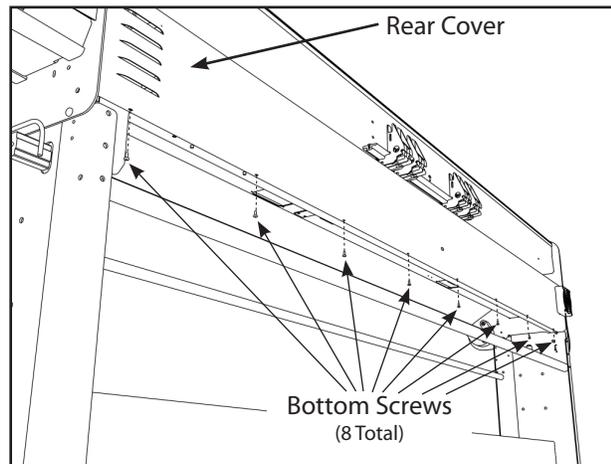   *(Included)*

① Accessing the logic board

1) Unplug all cables from the back of the plotter.

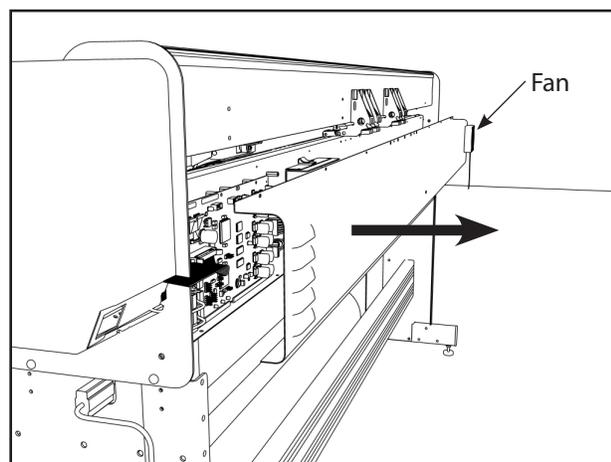2) Remove the top 8 silver Phillips Screws on the back cover.

Top Screws (8 Total)

Rear Cover

3) Remove the bottom 8 silver Phillips Screws on the back cover.

CAUTION:
2 people should hold the rear cover before the last screws are removed to avoid dropping the cover.
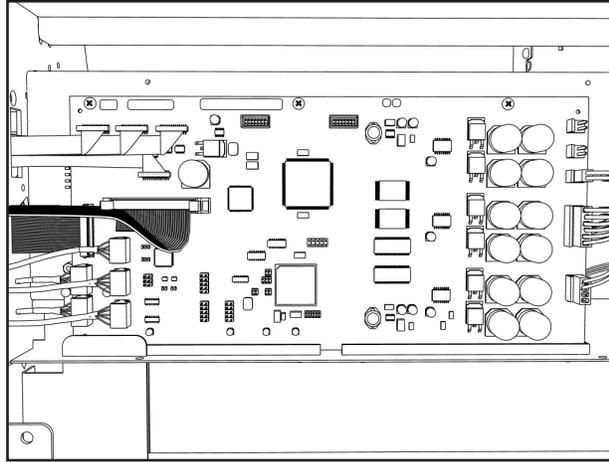

Rear Cover

Bottom Screws (8 Total)

4) With 2 people, carefully remove the back cover from the machine. Before completely removing, be sure to unplug the fan connector on the far side of the inside of the cover.
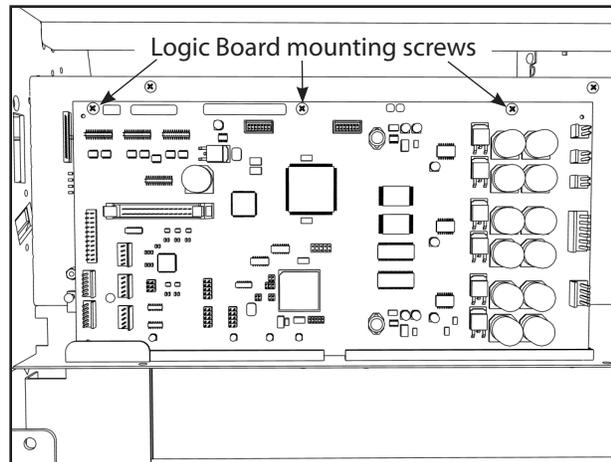

Fan

② Removing the logic board

1) Un-Plug all the connectors on the logic board.

Tip: It's a good idea to mark similar connectors with a letter so they don't get plugged in to the wrong place later. See the legend of the board connectors on page 3.
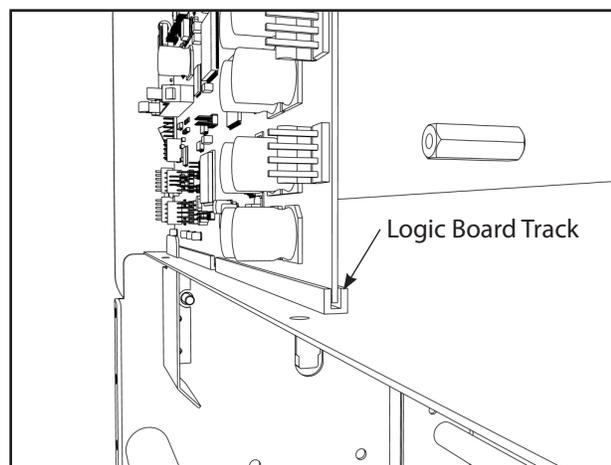

2) Un-screw the 3 silver Phillips screws holding the board in the machine.

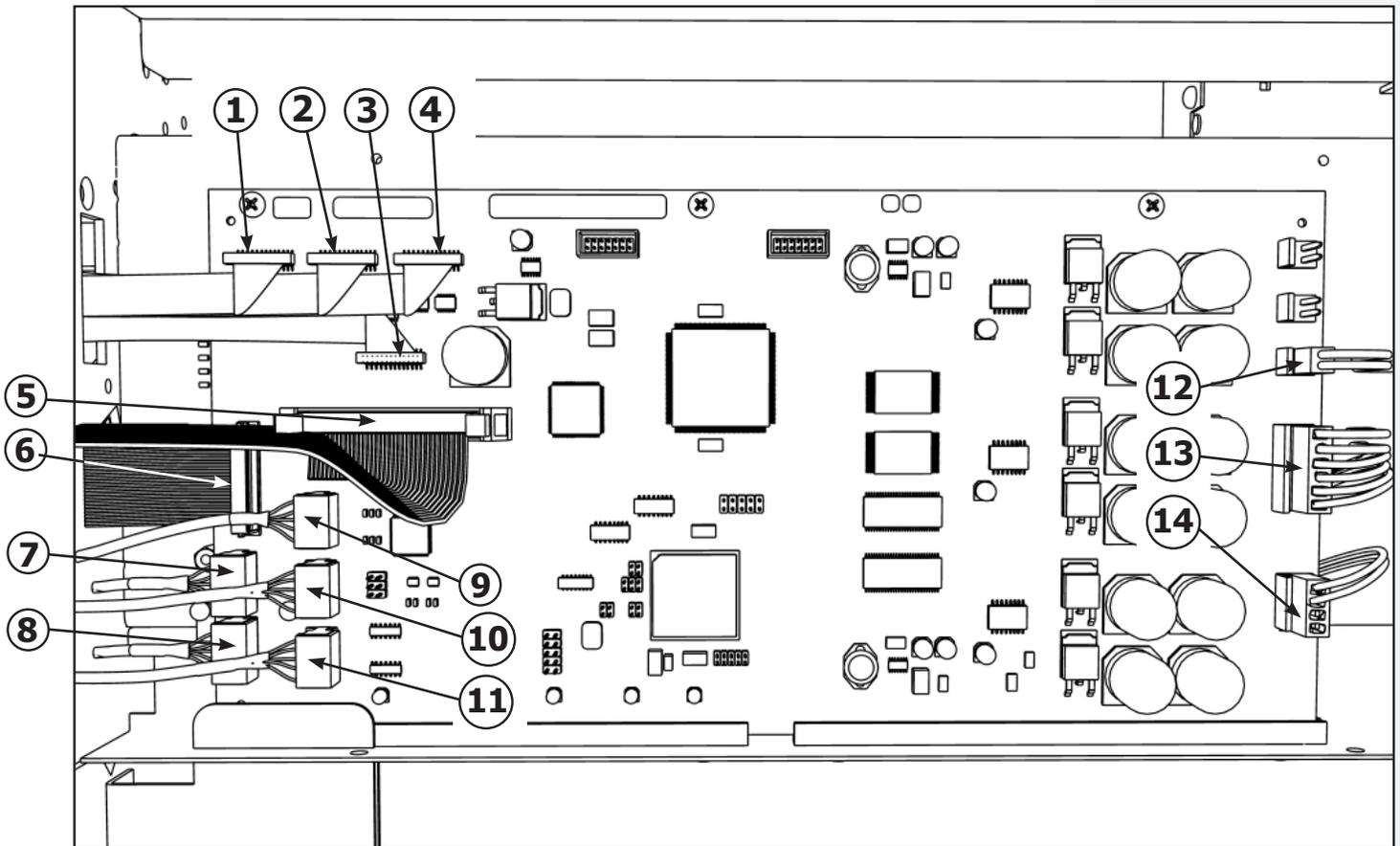Logic Board mounting screws

③ Installing the new logic board

1) Place the new board in the slot on the inside bottom track of the plotter.

2) Install the 3 Silver Phillips screws to the board and tighten (Warning: DO NOT over-tighten)

Logic Board Track

Warning: Use the supplied wrist-strap to ground yourself to the machine.   Failure to do so can result in static discharge to the board and will cause damage.

4) Connect the cables to the board as shown. (See the legend below)

Legend

1: Head #3
2: Head #2
3: Carriage Power
4: Head #1
5: RS-232 Ribbon (Wide grey cable / Black Connector)
6: Keypad Ribbon Cable (Rainbow cable with black connector)
7: Feed Shaft Sensor
8: Take-up Sensor
9: Roll Feed Encoder
10: Y Axis Encoder
11: X Axis Encoder
12: Fan Connector (Red / Black)
13: Motor Power Connector (Red and Black wires)
14: Main Power (Green and Black wires)

5) Once the board is connected test the machine. If all goes well install the rear cover.

6) If problems arise contact Ioline Tech Support.