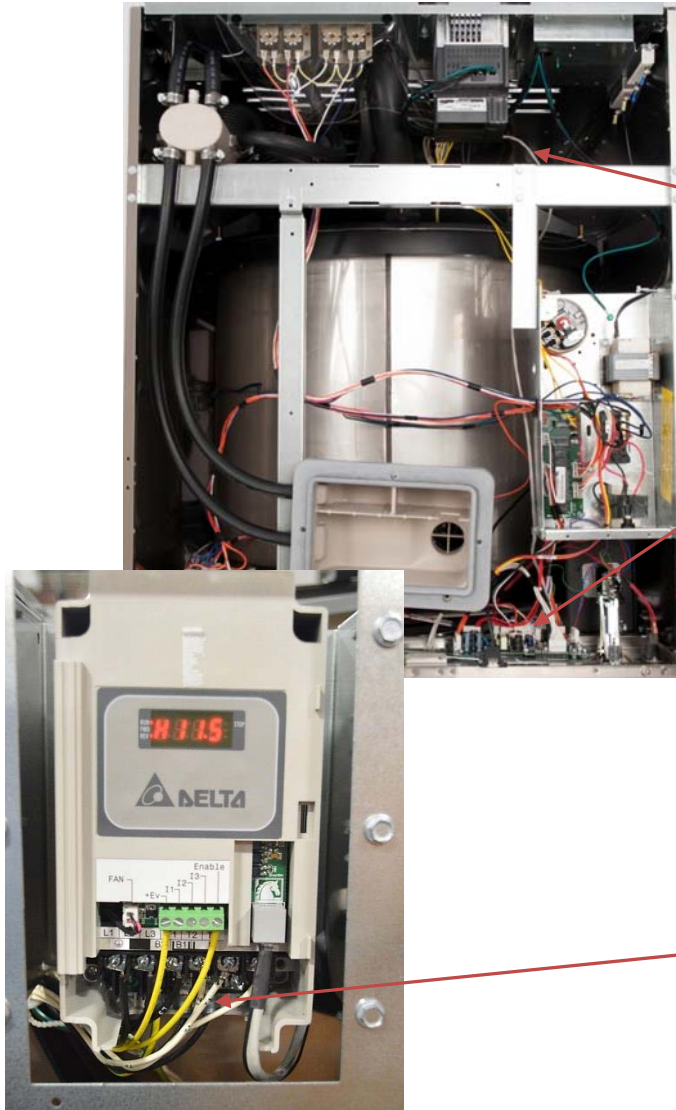


SYMPTOM- Control displays F-13, F17, F19, DRIVE OL, COMM ERROR 1

MAIN CONTROL SIGNALS

DRIVE FOR TUMBLE



- **F13/COMM ERROR 1** - NO communication between control & drive
- Check data cable connections
- Swap PCB Control to another working machine.
- Check display at the drive
 - Is there a display?
 - Is there voltage?
 - Bad Drive?
- **F17/DRIVE OL** – Overload-
- Remove the T1,T2,T3 wires from the motor and check Motor Ohms