



Drive Troubleshooting Form

Date:

Jobsite:

Job Number:

Contact:

VFD Make:

VFD Model:

VFD S/N:

POWER OFF DIODE CHECK

Power down and wait (15 minutes) for DC Bus to discharge

METER PROBE - to DC BUS -

METER PROBE + to:

L1=

U=

L2=

V=

L3=

W=

Capacitors should be open allowing a charging effect.

METER PROBE + to DC BUS +

METER PROBE – to:

L1= **U=**

L2= **V=**

L3= **W=**

Capacitors should be open allowing a charging effect.

METER PROBE - to DC BUS +

METER PROBE + to:

L1= **U=**

L2= **V=**

L3= **W=**

Readings should be .3 to .7 volts and match.

METER PROBE + to DC BUS -

METER PROBE - to:

L1= **U=**

L2= **V=**

L3= **W=**

Readings should be .3 to .7 volts and match.

IGBT GATE TEST

With meter set to Ohm measure between the gate leads, there are two pairs for each IGBT. Readings should be between 2k and 8k. Readings should be consistent.

IGBT 1

1st Pair ____

2nd Pair ____

IGBT2

1st Pair ____

2nd Pair ____

IGBT3

1st Pair ____

2nd Pair ____

CONTROL CARD POWER

Power On

Measure DC voltage at terminals 12 and 20 then at 13 and 20. Should be 24V.

Measure DC voltage at terminals 50 and 55 should be 10V

DC BUS VOLTAGE TEST

Measure DC voltage at DC- and DC+. It should be at least 1.35 X the AC input voltage.
