

JOB NAME = _____
 TECH. NAME = _____
 JCI or CONT. # = _____
 TECH. PH. NO. = _____
 PRODUCT MODEL NO. = _____
 DATE = _____
 PROBLEM WITH DRIVE = _____

Is Q10 (IC) Broken/Missing/Damaged on the Trigger PCB _____
 Any Lights Lit on the Trigger PCB _____
 Unplug J1, J2, J3 and measure the resistance in the plug in your hand.
 Reading typically should be between 13-18 OHMS.
 Rev. level of the Trigger PCB _____

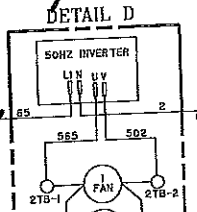
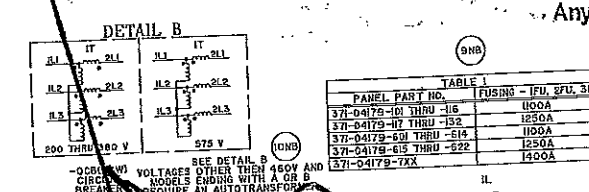
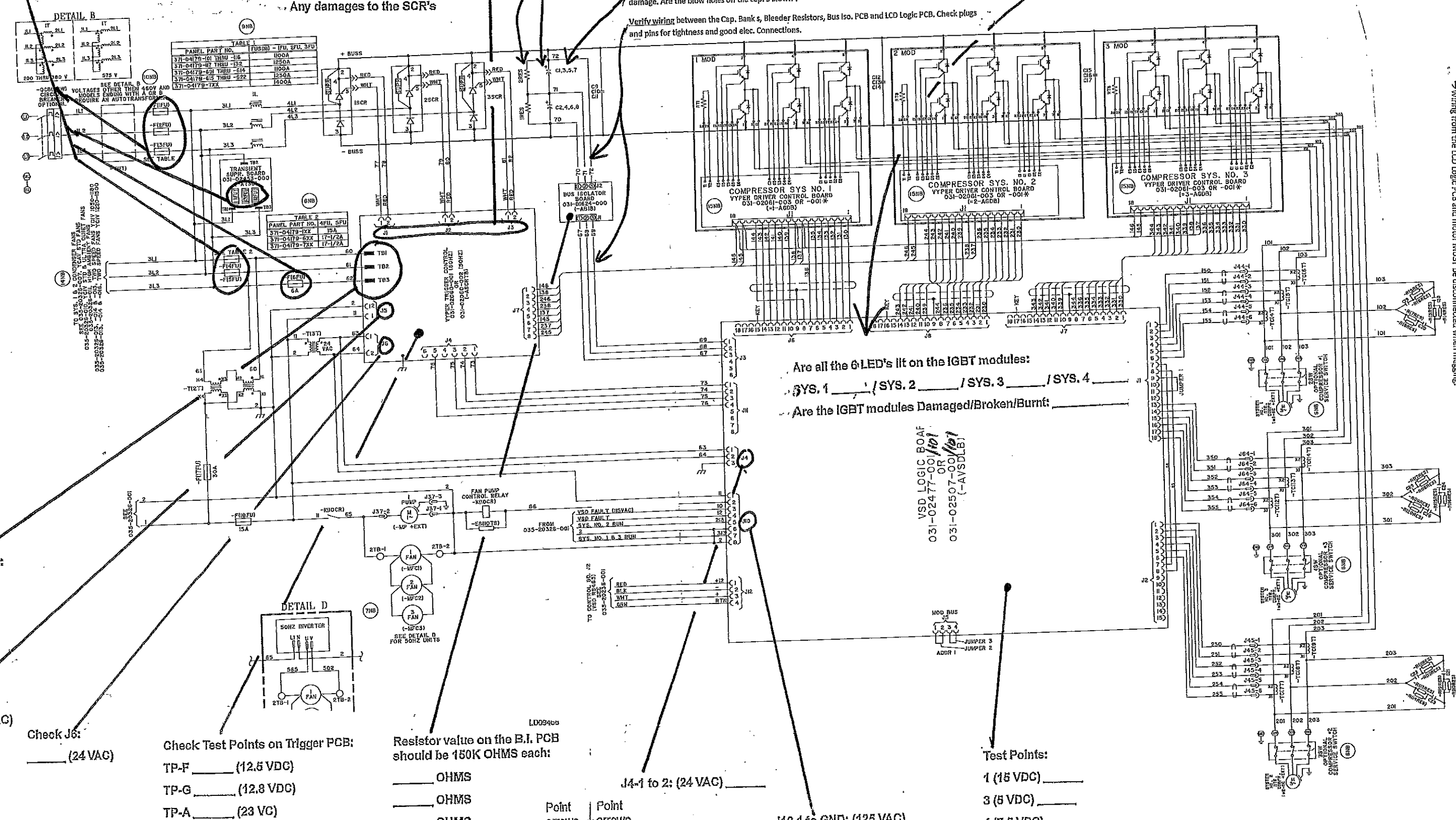
Voltage from wire 70 to 71: _____ vdc (450 vdc)
 Voltage from wire 70 to 72: _____ vdc (300 vdc)
 Voltage from wire 71 to 72: _____ vdc (450 vdc)

Swap plugs J6 & J8 on Logic PCB.
 Replace plugs J6 & J8 back.
 Swap over output power wiring from IGBT's to Compressor.
 Put power wiring back.
 Record above findings of Compressor Tripping / not running.

(EXAMPLE USING SYS. 1 & 2)

Bleeder Resistor(s) check: Failure due to overheating. Check electrical connections on resistor. Check values of each resistor. Should read 2.4k ohms each. _____ ohms. Disconnect one side of each resistor when taking ohm reading. If replacing, a new thermal pad must be installed and nuts tight.
 Cap.'s: Look for open / shorted capacitor(s). DO NOT take the cap. Bank apart. Look for physical damage. Are the blow holes on the cap.'s blown?
 Verify wiring between the Cap. Bank s, Bleeder Resistors, Bus Iso. PCB and LCD Logic PCB. Check plugs and pins for tightness and good elec. connections.

PROBLEM = LOW MOTOR CURRENT
 Verify plug connections. Jumpers between plugs, plugs tight in socket. Pins making good connections. Wires have good elec. connection on the pins. Ring/ohm out the jumpers from plug to plug. CT's read _____ ohms. wiring from plugs to CT's OK. Comp./Motor mag. Out OK _____ mag
 → Wiring from the LCD Logic PCB and motor MUST be disconnected when megging.



Check 480 VAC:
 1-2 _____
 1-3 _____
 2-3 _____

Check J6:
 _____ (125 VAC)

Check J6:
 _____ (24 VAC)

Check Test Points on Trigger PCB:
 TP-F _____ (12.5 VDC)
 TP-G _____ (12.8 VDC)
 TP-A _____ (23 VC)

Resistor value on the B.I. PCB should be 150K OHMS each:
 _____ OHMS
 _____ OHMS
 _____ OHMS

Point arrows together

J4-1 to 2: (24 VAC) _____

J10-1 to GND: (125 VAC) _____

Are all the 6-LED's lit on the IGBT modules:
 SYS. 1 _____ / SYS. 2 _____ / SYS. 3 _____ / SYS. 4 _____
 Are the IGBT modules Damaged/Broken/Burnt: _____

VSD LOGIC BOAF
 031-02477-001 / 101
 031-02507-001 / 101
 (-AVSDBL)

Test Points:
 1 (15 VDC) _____
 3 (5 VDC) _____
 4 (7.5 VDC) _____
 5 (-15 VDC) _____
 7 (-4.9 VDC) _____

Use Test Point "6" for your GND.

NOTES:

3-COMPRESSOR (1UF)