
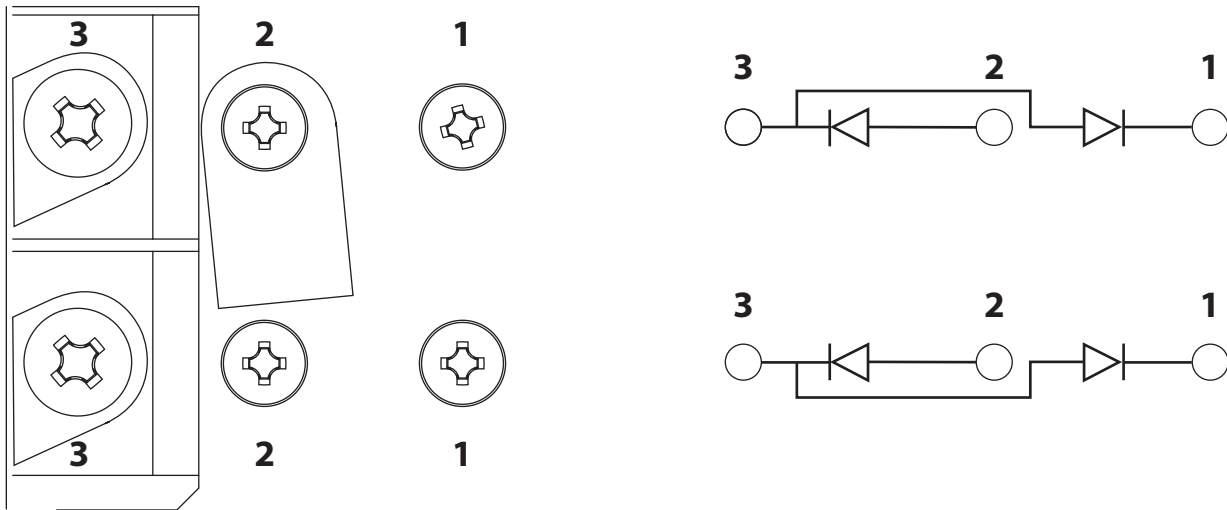


Fault code	Description (System test number)	Power LED	Fault LED	Fault icon	Solutions
3-51-1	Inverter saturation fault (the inverter is over current)	On	On		Upper and lower inverter IGBTs are gating (being activated) in phase rather than 180° out of phase.
3-52-0	Shoot through				<ul style="list-style-type: none"> ▪ Test the two inverter IGBTs in the module. ▪ Perform Test 3. ▪ Replace the module if either is faulty. ▪ If necessary, replace the power board.
3-60-0	Power board				The DSP does not recognize the power board. The code is for future machines where the current DSP board will not work with future power boards.
3-70-0	Internal serial communications fault				<p>There is a fault with the communication between the DSP and Power board.</p> <ul style="list-style-type: none"> ▪ Check the board connector. ▪ If necessary, replace either the DSP or Power board.

Test 3 – Output diodes



- Check the four diodes in the bridge with an ohmmeter in diode test mode.
- For each diode, the value should be “open” (very high resistance) with the meter leads in one direction and 0.1 V to 1.0 V with the meter leads reversed.
 - A diode is shorted if the value is less than 0.1 V. Replace the bridge.
 - A diode is open if the value is greater than 1.0 V in both directions. Replace the bridge.

Note: In each case, common (black) should be on 3.

Note: Always replace output diodes as a pair.