ID-0008 Rev A

	NGC I/O P	CB Troubles	hooting Chec	klist	
	Technician			Cell#	
Serial Number				Date	
	Model				
	Optio	ns Added to the ma	chine and I/O PCB		
1					
2					
3					
4					
5					
		Why is the PCB beir		No	
1a. What alarms are generated? 1c. When does the Alarm occur?			1 b. Does	the alarm reset?	
 When does the Alarm occur? What is the Machine's software version ? 					
2. What is the Machine's software version ? 2a. I/O Firmware version at the time of the alarm?					
	the I/O and TC PCB Firmware to the				
latest version?					
	e machine to the latest SW version?				
- · · ·	n the PSUP PCB tripped?				
		3. Other - Describe	the issue:		
		Mandatory Troubl	eshooting		
	e voltage levels at the following PCBs				
I/O P55 red-black	I/O P55 black-white	I/O P55 white-red	PSUP P11 red-blk	PSUP P11 wht-blk	PSUP P11 wht-red
	Observe and note the stat	us of the following I	EDe in the I/O BCB (ON/OFE/Plinking)	
LE1 24V	LER2 Traffic	LE3 5V	LE5 12V	LE7 1Khz Loop	Any other LED on?
		LLJ JV			Any other LLD on:
5. Is the machine equipped with a CAN Lube Panel PCB? If so, is setting 9005.001 enabled?					
	ped with smart CAN Autodoor, if so, is				
7. Is the machine equipped with CAN E-Vise system, if so, is setting 9011.001 enabled?					
8. Is the machine equipped with CAN spindle head PCB? If so, is setting 9007.001 enabled?					
9. What system driven by the I/O PCB presents the problem?					
10. What inputs and outputs are associated with the system you are troubleshooting					
11. What voltage is used by the system you are troubleshooting?					
12. What cables are associated with the system you are troubleshooting?					
13. Have the cables as	sociated with the system you are troul	bleshooting been insp	ected and reseated?		
14. For an I/O Commur	ication alarm, has the ethernet cable	at J4 been inspected	, tested and re-seated?)	
15. For SMTC Issues o	n non-SS machines, what is the firmw	are version on the SM	MTC Module?		
16. Have the cables fro	m the SMTC module been tested and	I reseated?			
17. For SMTC Sensors	, have you tested the proximity switch	es and observed the	feedback on the diagno	ostics page?	
18. For Analog input iss	sues, have you unplugged one input a	it a time and observed	the gauges page?		
19. For Ground Fault detected alarms, what is the machine doing when the alarm occurs?					
20. For E-stop issues, have the e-stop jumpers at JP2 and P12 been inspected?					
21. For maquinesequipped with a ROBOT, have all of the cables associated with the option been inspected and reseated?					
22. For CRC error alarr	ns, does the Main CRC code and Fac	· ·	01	ge, match?	
		Notes/Observa	ations:		