ID-0003 Rev B

	Servo Ar	mplifier Troub	leshooting In	spection Repo	ort	
Techn		Cell#				
Serial Number				Date		
Model						
		Serv	o Amplifier Type			
30A						
45A						
60A						
90A						
		Why is the	Amp being replaced?			
1a. What alarms are generated?		<b>1b.</b> Does the alarm reset?				
<b>1c.</b> When does the alarm occur?						
2. Is the drive physically damaged?						
		3. Other	- Describe the issue:			
			ory Troubleshooting			
4a. What is the incoming voltage to the machine? Measure the incoming voltage at the main circuit breaker and record the measured values below.						
L1-L2	L2-L3	L1-L3	L1-GND	L2-GND		L3-GND
4b. What is the main transformer tap setting.						
5a. What was the measured DC BUSS output voltage?						
5b. Does the DC Buss gauge in diagnostic match the actual measured DC BUSS voltages?						
If all amplifiers are faulted upon power-up and there is no DC buss, then perform the next two steps and answer the qustions, if not, then skip to step 8.						
6. Power OFF. Wait for the Vector Drive to fully discharge. Disconnect the 320V output cables from the drive.						
Disable all the axis (except Z in mills, X in lathes and Y on Horizontal machines). Power on the machine does the DC buss comes up? If you answer yes, then the problem is with one of the drive amps.						
	C buss come up? If yo	u answer yes, then the ully discharge. Disconr	problem is with the regeneration of the second seco	en load or the drive is he amplifier. With a Mu		et to Ohms measure and
-				timeter probe color for correct positioning of the probes.		
A-Phase to GND (Chassis)		B-Phase to GND (Chassis)		C-Phase to GND (Chassis)		
Booitive Terminal to CND (Chappin)		Negative Terminel to CND (Chassie)				
Positive Terminal to GND (Chassis)		Negative Terminal to GND (Chassis)		Negative (Black Lead) to A-Ph (Red Lead)		
Negative (Black Lead) to B-Dh (Bod Lead)		Negative (Black Lead) to C-Ph (red lead)		Positive (Black Lead) to A-PH (Red Lead)		
Negative (Black Lead) to B-Ph (Red Lead)		Negative (Black Lead) to C-Pit (red lead)		rosilive (Black Leau) to A-rn (Neu Leau)		
Positive (Black Lead) to B-Ph (Red Lead)		Positive (Black Lead) to C-Ph (Red Lead)		Positive (Black Lead) to Negative (Red Lead)		
FOSITIVE (DIACK Lead)	to B-Fil (Neu Leau)	POSITIVE (DIACK Lead		r Usitive (Diack L		egalive (Neu Leau)
9. Did you check Y/D wi	ring?					
10. Did you check the axis cables and motors for shorts to chassis?						
11. Did you check the s						
12. Did you check the Vector Drive for shorts to chassis?						
			vo amplifier vou are trou	bleshooting?		
<ul> <li>13. What channel on the Processor PCB is used to command the servo amplifier you are troubleshooting?</li> <li>13. Did you inspect the axis servo amp command cable to make sure that the pins and connectors are in good condi</li> </ul>						
14. Did you ohm out the				etere are in geou conar		
	-	-	o amps?			
<b>15.</b> Are there ferrite filters installed on the output cables from the servo amps? <b>16.</b> Are there ferrite filters installed on the output cables of the drive and REGEN cable?						
17. Was all info found in the Troubleshooting Guide complete and useful??						
Notes/ Observations:						
		Note				