GENERAL ELECTRIC

224X695AA

REV NO.	TITLE	CONT ON SHEET	SH NO.
224X695AA	DRIVER COORDINATION CARD TEST INSTRUCTION	2	1
CONT ON SHEET 2 SH NO. 1	FIRST MADE FOR 193X251AAG01 & ABG01		

1.0 SCOPE

This instruction covers the test procedure for productior testing the Driver Coordination Card, 193X251AAG01. Its performance and capabilities are covered in Engineering Specification 224X348AA. Test conditions are in Section 3.0.

2.0 INSTRUCTIONS See Section 3.0 First...

2.01 Initial Output. Short tabs 10 and 17 to common. The output on either tabs 21 or 22 should be +1.83 volts (±.11V). The other tab should not deviate by more than ±22 volts. Tabs 23 & 24 should null between ±.05V.

2.02 Lockouts. With tab 10 still shorted, apply +.50 volts to tab 17. Tab 22 should null between 0 and -.8V and tab 23 should be greater than 5 volts witha 1.82K load. Repeat with -.50 volts to tab 17 and observe tabs 21 and 24 this time. (Remove -.5 Volts)

2.03 Gain Linearity. Apply +8 volts to tab 17, the output at tab 21 should be 10 volts (±10%). Now apply -8 volts to tab 17, the output at tab 22 should be within .3 volts of the value that was on tab 21.

2.04 Current Lockouts. With +8 volts to tab 17, and tab 23 lockout at more than 5 volts as in 2.02. A signal between -.27 and -.30 volts applied to tab 25 should cause the tab 23 lockout to null and tab 24 to go to more than 5 volts; repeat with -8 volts on tab 17. This time a +.27 to +.30 volt signal will cause the tab 24 lockout to null and the tab 23 lockout to go to more than 5 volts.

2.05 Feedback Input & Bias. With +10 volts on tab 17 and the reverse lockout activated and the forward lockout nulled, apply -8.25 volts to tab 18 and both lockouts should be nulled. Repeat applying -8.25 volts to tab 20 instead of tab 18. Again both lockouts should be nulled. Remove 1.82K SL load

2.06 Initializer. With +3 volts on tab 17, apply -3 volts to tab 16. Tab 21 should go to more than 11 volts.

2.07 Armature Isolation. Apply +2 volts to tab 28, tab 29 should be +9.5 volts ±.14volts. Apply +10 volts to both tabs 27 and 28, tab 29 should be between ±.24 volt.

2.08 FET Gate Supply. Tab 5 should be between -19 and -20 volts. Apply +10 volts to tab 6 & tab 5 should go to between 0 and -.5 volts.

2.09 DFP. Apply +20 volts to tab 11, tab 8 should go to more than 17.5 volts between .3 and 1 second later.

2.10 Oscillator. Observe tab 12. There should be a series of pulses more than 15 volts high and between 12 and 15 μsec. wide with a repetition rate of between 9.8K and 11.2K Hz. A pulse 3 to 10 volts high on tab 13 will show up on the oscillator output as a pulse more than 19 volts high.

REVISIONS

3 Chg 2.01 & 2.03 11/1/73

2 Chg 2.01 & 2.07 9/14/73

1

5D(BW)
5E(BW)
5K(BW)
5L(BW)
5P(BW)
5QC(2BW)
5R(BW)
PRINTS TO

MADE BY	APPROVALS	DIV OR DEPT.		
J/G.Tracy/ 2-24-72		SPEED VARIATOR	224X695AA	
ISSUED		LOCATION ERIE, PA.	CONT ON SHEET 2	SH NO. 1

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GENERAL ELECTRIC

224X695AA

REV NO. 01	TITLE DRIVER COORDINATION CARD TEST INSTRUCTION	CONT ON SHEET FL SH NO. 2
224X695AA		
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REVISIONS

3.0 TEST CONDITIONS

3.01 Room Temperature

3.02 +20V (±.2 volt) to tab 31 Com. TMB 15

3.03 -20V (±.2 volt) to tab 2

4.0 REQUALIFICATION

This card should be requalified by Quality Control every 18 months or 200 production cards, whichever comes first.

1 Add & ABG01 9/18/73

5D (BW)
5E (BW)
5K (BW)
5L (BW)
5P (BW)
5QC (2BW)
5R (BW)
PRINTS TO

MADE BY J.G.Tracy 2-24-72	APPROVALS	SPEED VARIATOR DIV OR DEPT.	224X695AA
ISSUED		ERIE, PA. LOCATION	CONT ON SHEET FL SH NO. 2

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