GENERAL ELECTRIC

QUALITY STANDING INSTRUCTION

SPEED VARIATOR DEPARTMENT

QSI NUMBER #2081

TITLE

PREAMPLIFIER - 193X227BBG01 AND G02
193X227BCG01 AND G02

REVISION 3

1.0 Applicable Documents

1.1 Material List
1.2 Elementary diagram

2.0 Equipment

2.1 Test stand
2.2 Patchboard

3.0 Procedure (General)

3.1 Set V5 dial at (7.50) and lock
3.2 Set V5 polarity (+)
3.3 Set V5 range (10 volts)
3.4 Set scope CH1 & CH2 to 0.1V/Div, AC, and 5msec/div, line sync.
3.5 Turn card pots max. CCW and check shaft and label orientation per Figure #1.
3.6 Check polarized capacitors for correct polarity orientation per Figure #2.

Alt applies to BB G01 + BC G01

mode - CHOP

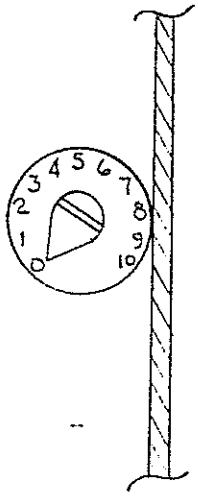

FIGURE NO. 1

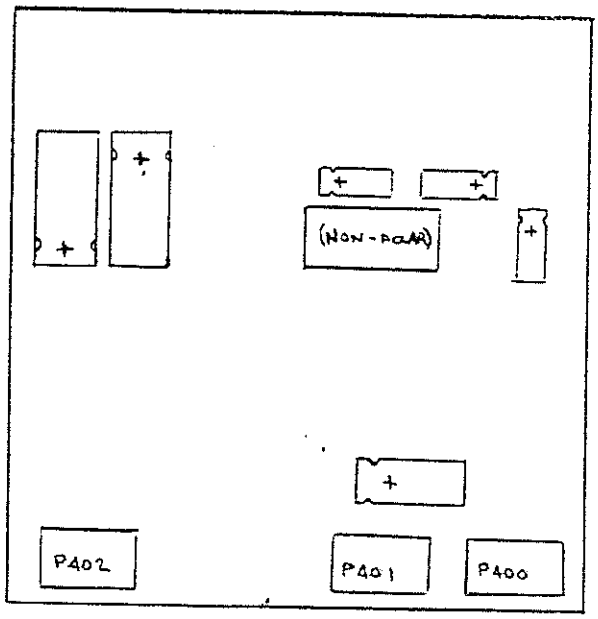

FIGURE NO. 2

DISTRIBUTION	QTY.
Mgr. Eng.	
Mgr. Mfg.	
Mgr.Prod.Eng.	
Mgr. Mat.	
Mgr.Sys.Eng.	
Eng. Supv.	
Foreman-Test	
Foreman-Insp.	

*Change or Addition

4.0

4.1 193X227BBG01 & 193X227BCG01 Test

4.1.1	Test on	DVM≤(±0.030) volts	
4.1.2	RS1 (2) DMM TAB 28	DVM≤(-0.700) volts	
4.1.3	RS1 (3) DMM TAB 16	DVM≤(+0.700) volts	
4.1.4	S1 DN 7.5VDC TO TAB 30	DVM≤(+0.700) volts	
4.1.5	RS1 (2) DMM TAB 28	DVM (+5.00) (+10.00) volts	
* 4.1.6	S1 UP TAB 30 TO ⏚ P400 CW RS1 (1) DMM TAB 2 S1 DN TAB 30 TO 7.5V	DVM (-6.00) (-9.00) volts Scope CH1≤(0.2V P.P.) in 8-12 seconds	
* 4.1.7	V5 Pol (-)	DVM (+6.00) (+9.00) volts Scope CH2≤(0.2V P.P.) in 16-24 seconds	
4.1.8	P400 CCW RS1 (2) DMM TAB 28	DVM≤(-0.700) volts	
4.1.9	RS1 (3) DMM TAB 16	DVM (-5.00) (-10.00) volts	
4.1.10	S1 UP TAB 30 TO ⏚ RS1 (4) DMM TAB 25	DVM (+19.5) (+20.1) volts	
4.1.11	S2 DN Remove GRD FROM TAB 27	DVM≤(+0.050) volts	
4.1.12	End of test for production cards with FIXIT stamp. Continue for all others.		
4.1.13	S2 UP PUT GRND ON TAB 27 S3 DN +20V TAB 23 RS1 (3) DMM TAB 16	DVM (-0.312) (-0.468) volts	
4.1.14	S3 UP Remove +20V FROM TAB 23 S4 DN -20V TO TAB 19 RS1 (2) DMM TAB 28	DVM (+0.312) (+.468) volts	
4.1.15	S4 UP Remove -20V FROM TAB 19 S5 DN O-SCOPE CH2 TAB 5 Ch1 Tab9 S6 DN Connect 63VAC Tabs 6 and 8	Scope CH1≤(0.25V P.P.) Scope CH2≤(0.25V P.P.)	
4.1.16	RS1 (5) DMM TAB 9	DVM (+3.76) (+5.64) volts	
4.1.17	P402 (CW)	DVM reading should decrease slightly	
4.1.18	RS1 (6) DMM TAB 5	DVM (-3.76) (-5.64) volts	
4.1.19	P402 (CCW)	DVM reading should decrease slightly	

4.1.20	S5 UP SCOPE CH2 TAB16 CH1 Tab28 S6 UP Disconnect 6.3VAC V5 (1 volt range) RS1 (2) DMM TAB 28 RS2 (2) -.75 Tab 15	DVM (+1.13) (+1.77) volts
4.1.21	RS2 (3) -.75 TAB 14	DVM (+1.78) (+2.75) volts
4.1.22	RS2 (4) -.75 TAB 12	DVM (+0.594) (+0.966) volts
4.1.23	RS1 (7) DMM TAB 21	DVM ≤(+0.010) volts
4.1.24	Turn P401 CW	DVM reading should momentarily increase and return to ≤(±0.010) volts
4.1.25	Turn P400 CW RS1 (1) DMM TAB 2 RS2 (1) Remove 1V FROM TAB 12 V5 (10V) range S1 DN -7.5V TAB 30	DVM time to (6.0) (9.0) volts in (8) (12) seconds
4.1.26	End of test	

* 4.2 <u>193X227BBG02, BCG02 Test</u>

4.2.1	Test ON	DVM ≤(±0.030) volts
4.2.2	RS1 (2) Adjust P402 for	DVM (zero ±0.030) volts
4.2.3	RS1 (3)	DVM ≤(±0.030) volts
4.2.4	S9 DN	DVM (-3.07) (-4.10) volts
4.2.5	V5 POL (-)	DVM (+3.07) (+4.10) volts
TIME 4.2.6	S9 UP P400 CW RS1 (1) S1 DN	DVM (+6.00) (+9.00) volts in 8-12 seconds
4.2.7	RS1 (2)	DVM (-5.00) (-10.00) volts
TIME 4.2.8	RS1 (1) V5 POL (+)	DVM (-6.00) (-9.00) volts in 16-24 seconds
4.2.9	RS1 (2)	DVM (+5.00) (+10.00) volts
4.2.10	RS1 (4)	DVM (+19.5) (+20.1) volts
4.2.11	S2 DN	DVM ≤(+0.050) votls

4.2.12 End of test for production cards with FIXIT stamp. Continue for all others.

(V5 SWITCH)
P.S2

1	TAB 30 VIA S1
2	TAB 15
3	TAB 14
4	TAB 12
5	TAB 13

(DVM SWITCH)
RS1

1	TAB 2
2	TAB 28
3	TAB 16
4	TAB 25
5	TAB 9
6	TAB 5
7	TAB 21