

224X665AA		TITLE TACHOMETER MONITOR TEST INSTRUCTIONS	
CONT ON SHEET 2	SH NO. 1	FIRST MADE FOR 193X242AAG02, G03	

1.0 SCOPE

This instruction covers the suggested procedure for production testing of the 193X242AAG02 and G03 tachometer monitor cards. Its performance and capabilities are covered in Engineering Specification 224X321. Test conditions are in Section 3.0.

2.0 INSTRUCTIONS (Groups 2 and 3)

- 2.01 Turn the "trip speed" pot (P402) full CCW. Apply a d.c. voltage between Tabs 24 and 30 (plus (+) to Tab 24). The light should come on before 82 volts.
- 2.02 Place a jumper between Tabs 28 and 29 and between Tabs 25 and 27. Turn the "Trip Speed" pot (P402) full CW. Apply a voltage as in 2.01. The light should not come on at 87 volts.
- 2.03 Remove the 28-29 and 25-27 jumpers. Apply 100 volts as in 2.01. Turn the "Trip Speed" pot (P402) CCW until the light just comes on.
- 2.04 Short Tab 30 to common. Apply a d.c. voltage as in 2.01. The light should come on between 99 to 101 volts.
- 2.05 Repeat step 2.04 with Tab 24 shorted to common instead of Tab 30.
- 2.06 With zero volts between Tabs 24 and 30, apply a d.c. signal to Tab 8. The light should come on between 2.1 to 2.9V and -2.1 to -2.9V.
- 2.07 Apply a 3 millisecond wide square wave to Tab 8. When the peak voltage is between 4 to 6V the light should come on. (See Figure 2.1)

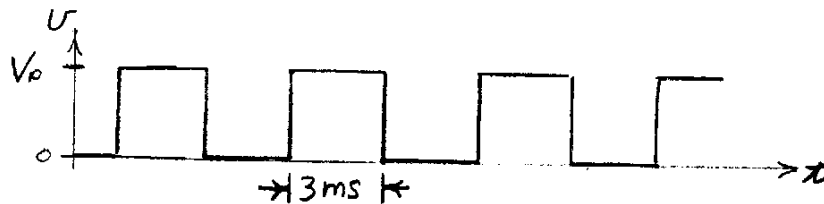


FIGURE 2.1

- 2.08 Place a 3.3 megohm resistor between Tab 9 and -20 volts. Apply 5V between Tabs 24 and 30, (plus (+) to Tab 24) and 2.5 volts to Tab 8. Adjust "Zero Align" pot (P401) for minimum signal ($\pm 5V$) to Tab 9.
- 2.09 Repeat step 2.08 with 20 volts between tabs 24 and 30.
- 2.10 Place a 180 ohm 2 watt resistor between Tab 4 and +20 volts. With zero volts to Tabs 24 and 30, momentarily apply +3 volts to Tab 8. The light should come on and stay on.

REVISION	

5E (BW)
5E (T)
5QC (2)
PRINTS TO

MADE BY <i>J. G. Tracy</i>	APPROVED <i>[Signature]</i>	SPEED VARIATOR	DIV. OR DEPT.	224X665AA
ISSUED <i>H. Olson Oct. 19/1970</i>		ERIE	LOCATION	CONT ON SHEET 2 SH NO. 1

REV NO. 0 224X665AA CONT ON SHEET FL SH NO. 2	TITLE TACHOMETER MONITOR TEST INSTRUCTIONS FIRST MADE FOR 193X242AAG02, G03	CONT ON SHEET FL SH NO. 2
---	---	---------------------------

2.11 Momentarily short Tab 4 to common. The light should go off.

2.12 (For Group 2 Only)

Apply +20 to Tab 14 and jumper Tab 19 to 4. The relay should be picked up. Momentarily apply +3 volts to Tab 8. The light should come on and the relay should drop out. Momentarily short Tab 4 to common. The light should go out and the relay should pick up.

2.13 Turn the "trip speed" pot (P402) full CCW.

3.0 TEST CONDITIONS

3.01 Room Temperature

3.02 +20 d.c. to Tab 26 $\pm 0.1V$

3.03 -20 d.c. to Tab 13 $\pm 0.1V$

4.0 REQUALIFICATION

This card should be requalified by Quality Control every eight (8) months or every 800 production cards, whichever occurs first.

REVISIONS

5E (BW)
5F (T)
5QC (2)

PRINTS TO

MADE BY <i>14 Tway</i> ISSUED <i>M. O. Oct. 19 1970</i>	APPROVALS <i>K. W. N.</i>	SPEED VARIATOR ERIE	DIV. OR DEPT. LOCATION	224X665AA CONT ON SHEET FL SH NO. 2
--	---------------------------	------------------------	---------------------------	--