GENERAL ELECTRIC

REV NO. 1	TITLE	182A4727 CONT ON SHEET 2 SH NO. 1
182A4727 CONT ON SHEET 2 SH NO. 1	CIRCUIT BOARD TEST FOR WOBBULATOR	
	FIRST MADE FOR 872D430 G-1	

REVISIONS

This board generates a triangular wave form which varies turbine speed by ± 100 RPM by being the input to the low valve gate speed amplifier. This board consists of an integrator, two biasing networks and a transistor triggering network to trigger relay K1.

1. Locate patchboard which is already wired to handle this board type or wire one up according to the wire table at the end of these instructions.

2. Plug board under evaluation into PCR #2. Select switch SW3 (CLOSE) down.

3. Adjust R8 CW to the limit of its adjustment. Adjust R12 for -.18V at TP3. Adjust R8 for -1.5V at TP2.

4. Select switch SW3 to the up (OPEN) position and monitor TP1 with a DVM. TP1 should increase to +1.4 ± 0.2V; then it should start to decrease.

5. When TP1 starts to decrease, adjust R17 for +0.18V at TP3 and adjust R7 for +5.6V at TP2.

6. The voltage at TP1 should decrease to -1.4 ± 0.2V; then it should start to increase. While it is increasing, readjust R12 for -0.18V at TP3.

7. If the voltage at TP1 doesn't start to decrease when it reaches +1.4 ± 0.2V, R8 will have to be adjusted. Likewise if the voltage at TP1 doesn't start to increase when it reaches -1.4 ± 0.2V R7 will have to be adjusted. Repeat step 4, 5 and 6 until no further adjustment is needed.

8. Select Switch SW3 "down".

9. After calibrating X-Y recorder, including time base, set function selector at standby. Set time base at .02 inches/sec. and Y input to 100 MV/inch. Adjust zero adjust knobs so that the pen is about two (2) inches from the top border and near the left hand margin.

10. Hook Y input from XY recorder to BP1 and Gnd. from XY recorder to BP2.

11. Switch time base to start and open switch SW3 "up".

WHEN USING SHOP OP AMP BOX OUTPUT VOUTS IS TIED TO OP AMP B+.

PRINTS TO

MADE BY	APPROVALS	DIV OR DEPT.	182A4727
R. Debertolis		LST	
ISSUED 28 July 1972		Schenectady LOCATION	CONT ON SHEET 2 SH NO. 1

FF-603-WA (7-71) PRINTED IN U.S.A. CODE IDENT NO

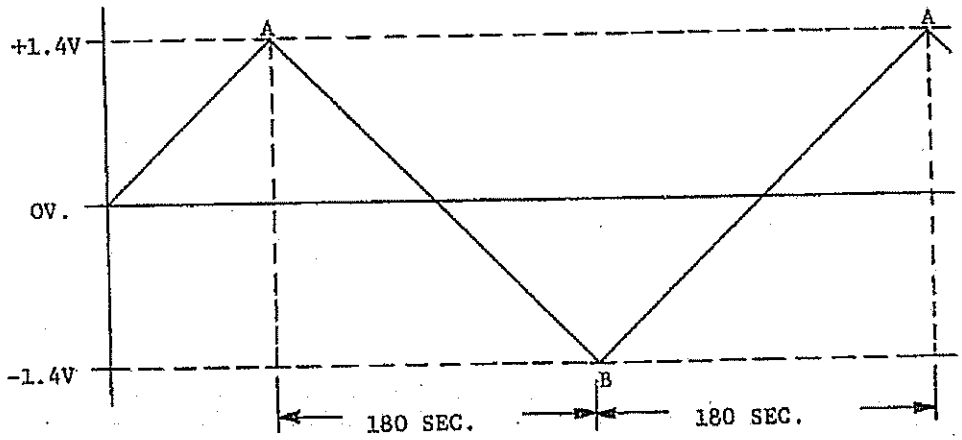
12. Measure the time it takes the voltage at TP1 to go from +1.4 ± 0.2V to -1.4 ± 0.2V; it should be 180 sec. ± 15 sec. Also measure the time it takes the voltage at TP1 to go from -1.4 ± 0.2V to +1.4 ± 0.2V; it should be 180 seconds ± 15 sec.

13. If the time from +1.4 ± 0.2V to -1.4 ± 0.2V is not obtained, adjust R17 only when going from +1.4 ± 0.2V to -1.4 ± 0.2V until 180 sec. ± 15 sec. is reached.

14. If the time from -1.4 ± 0.2V to +1.4 ± 0.2V is not obtained, Adjust R12 only when going from -1.4 ± 0.2V to +1.4 ± 0.2V until 180 sec. ± 15 sec. is reached. cw = faster

15. Now make a final plot of the wobbulator and after recording the serial no., date, your initials on it, record the total time of one cycle. File all recordings in numerical order.

16. After T stamping the board so it can be coated, sign your name or initials after the appropriate serial number in the Test Sign-Off book.



GENERAL ELECTRIC

182A4727
CONT ON SHEET 4 SH NO. 3

REV NO. 1

182A4727
CONT ON SHEET 4 SH NO. 3

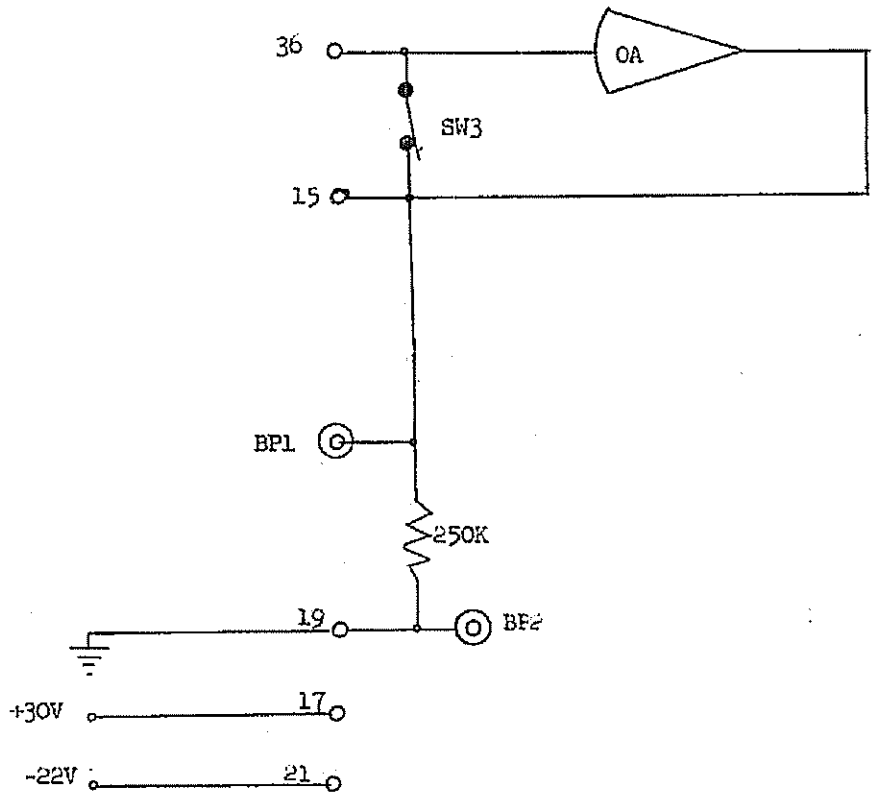
TITLE

CIRCUIT BOARD TEST FOR WOBBULATOR

FIRST MADE FOR

REVISION

Test Set-up



PRINTS

MADE BY R. Debertolis
ISSUED 28 July 1972

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LST DIV OR DEPT.
Schenectady LOCATION

182A4727
CONT ON SHEET 4 SH NO. 3

CODE IDENT