LTR NO. A	TITLE
68A999473	TEST INSTRUCTIONS FOR LVDT OSCILLATOR
CONT ON SHEET FL. SH NO. 1	FIRST MADE FOR IC3600S0SG1

REVISIONS

1) ADJUST R40 (GAIN) FULL CCW. APPLY +12 VOLTS AND +28 VOLTS TO CARD. +12 V ON PIN 27, +28V ON PIN 26. CONNECT PIN 1 TO PIN 25.
2) VERIFY THE FOLLOWING:
   A. TP1 PIN 5 HAS A 1.7 TO 2.3 VOLTS PEAK TO PEAK SINE WAVE OF FREQUENCY OF AT LEAST 2.7 TO 3.2 KHZ (.3 TO .37 MS PERIOD) ADJUSTABLE WITH R41 (FREQ.).
   B. TP3 PIN 43, 13.2 to 13.8 VOLTS DC.
   C. +28 VOLT CURRENT LESS THAN 30 MA DC.
   D. +12 VOLT CURRENT LESS THAN 4 MA DC.
3) WITH SCOPE AND RMS METER ON OUTPUT (PIN 45) ADJUST R40 (GAIN) TO OBTAIN 8.0 VOLTS RMS. VERIFY NO CLIPPING OR DISTORTION OF SINE WAVE.
4) CONNECT A 39Ω 2 WATT RESISTOR AGROSS OUTPUT. VERIFY NO CLIPPING. ADD AND REMOVE A 180Ω LOAD WHILE WATCHING RMS METER. VERIFY IT VARIES LESS THAN .1 VOLTS RMS. REPLACE 39Ω WITH 50Ω POT FOR LOAD.
5) READJUST R40 TO 6.0 VOLTS RMS, THEN SET TO 7.0 VOLTS. SLOWLY INCREASE LOAD FROM 50 OHMS TO ZERO OHMS WHILE OBSERVING OUTPUT ON SCOPE. IT SHOULD START CLIPPING WHEN LOAD IS 24 TO 18 OHMS. DECREASE OHMS TO ZERO. VERIFY 28 VOLT CURRENT IS LESS THAN 300 MA.
6) REMOVE SHORT CIRCUIT AND RECONNECT 50Ω LOAD. VERIFY 7.0 VOLTS ON OUTPUT. VERIFY TP2(19) IS 7.2 TO 9.0 VOLTS P.P. WITH SCOPE.
7) REMOVE 12 VOLT POWER. CONNECT A 1.5 VOLT P.P. 3 KHZ SQUARE WAVE TO TP1(5). VERIFY OUTPUT IS A 20 VOLTS ±20% P.P. SQUARE WAVE WITH NO OSCILLATIONS. (APPROX. 20% DROOP IN OUTPUT SQUARE WAVE DUE TO LOW FREQUENCY ROLL OFF).
8) REMOVE POWER. THIS COMPLETES TEST.
9) TEST - TORQUE THE HEAT SINKS TO FACTORY SPECIFICATIONS TO VERIFY THAT THEY ARE FIRMLY ATTACHED.
10) STAMP ALL BOARDS TESTED TO THIS SPECIFICATION WITH STAR STAMP.

REV. 1 ACW 11-14-70.
REV. 2 BD 2/23/73
REV. 3 JVG 2/18/78

DL22
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PRINTS T

MADE BY	APPROVALS	DIV OR DEPT.	
DL PEARSON	DCJ	INDUSTRY CONTROL	68A999473
ISSUED 5-1-70		LOCATION SALEM, VIRGINIA	CONT ON SHEET FL. SH NO. 1