

# NOTE:

The square wave generator must not touch chassis of the AK-100 or any other ground.

≅6V DC

- 1. Using a clip-lead, ground terminal #1 of Ch001.
- 2. Using a clip lead, ground terminal #1 of ChOO2.

# B. GENERAL INSPECTION:

- 1. Inspect the unit for obvious mechanical and electrical imperfections.
- 2. Check for proper fuses, tubes, plug-in capacitors and relay.
  - 3. Carefully check the wiring of Tl and T2.

# C. RESISTANCE AND CONTINUITY TEST:

SCOPE

1. Wiring of El

FROM TERM.	TO TERMI	RESISTANCE MUST BE BETWEEN REMARKS THE VALUES SPECIFIED IN 2		
1 1 1 1	2 2 2 2 5	45K 60K 85K 115M 85Q 115K 250 350Q Approx. 0 - 12K	Mode sw. in position "50V" Mode sw. in position "100V" Mode sw. in position "60ma" Mode sw. in position "20ma" Variable by RhOll clock wise for max. R	

SCOPE

≤10K

COMPILED BY

# TMC

# SPECIFICATION NO. S-466

COMPLETE TEST INSTURCTION FOR MODEL AK-100

JOB

APPROVED /

REV. A

FROM TERM.	TO TERM.	RESISTANCE MUST BE BETWEEN THE VALUES SPECIFIED IN	REMARKS
4	Ground	Open	
1	Ground	O <b>pe</b> n	
8	Ground	Open	
8	9	Short	The unit must be in its operating (upright) pos.
3	Ground	Short	
6	Ground	Short	

### 2. B1 + B2 + Wiring

#### NOTE:

Because of selenium rectifiers, it may be necessary to reverse leads of the ohmmeter to read proper resistance.

- a. B1 +: Between terminals 1 and 3 at C4001, 9K 13K
- b. B2 +: Between terminals 1 and 3 at C4002, open

## INITIAL VOLTAGE CHECK:

D.

- 1. Set up the unit as shown in intrument layout.
  - Turn the voltage adjust and threshold adjust controls to fully counter-clockwise position.
  - 3. Measure and correlate all voltages as shown in the charts below to be within + 10%.

### NORMAL READINGS

V4001A	Pin 1   150   #1.1	Pin 2 22 #.4	Pin 3 24 #0	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
V4002A	180 #0	-17 #.12	0 #0					
V4001B				No. of the second secon	T September 1	150 <b>#38</b>	3.3 #3.3	19 #.5
V4002B		;				<b>1</b> 80 #0	-17 #.1	0 #0
C4001	0		155		155			
C4002	0		180		180			

#=A.C. Voltages.
All voltages measured to
ground.

4. Measure voltage at junction of C4007 and R4016 with respect to ground. The voltage must be between-15 and -20 volts.

## E. WAVEFORM TEST:

- 1. Set the mode switch for "50V" Keying.
- 2. Set the square wave generator for 50V Keying at 50 cps.
- 3. Set the voltage adjust control fully counter-clockwise.

  Adjust the threshold control (approximately in the middle of the potentiometer) until wave forms appears as shown below.

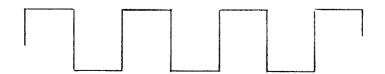
## NOTE:

The spacing between positive and negative

a. Terminal #4



b. Terminal #8 and 10



H. 11-12-59 COMPILED BY	TMC		SPECIFIC	ATION	NO.	S -466
COMPILED BY	TITLE: COMP	LETE TEST	INSTRUCTION FO	R MODEL AK-	-100	JOB
PPROVED	REV. A	<del></del>				
		TEST DAT	A SHEET			
				AC	CEPTED	
B. Gener	RAL INSPECTIO	N		-		
C. RESIS	STANCE AND CO	NTI NU <b>IT</b> Y	TEST			
1. W	iring of Kl					
2. B	+ and B + Wi	ring			-	
D. INIT	IAL VOLTAGE C	HECK				
E. WAVE	FORM TEST					
a. V	Voltage Keyin	g				
b• (	Contact Keyin	g				
ACCEPTED	ву					
DATE						
APPROVED	BY					

REVISION SHEET THE TECHNICAL MATERIEL CORP. S-466 MODEL AK-100 PROJECT NO \_\_\_\_\_ DATE REV. PAGE EMN# DESCRIPTION CHK-DAPP. 12-28-59 A 2-3 Voltage chart added to section D