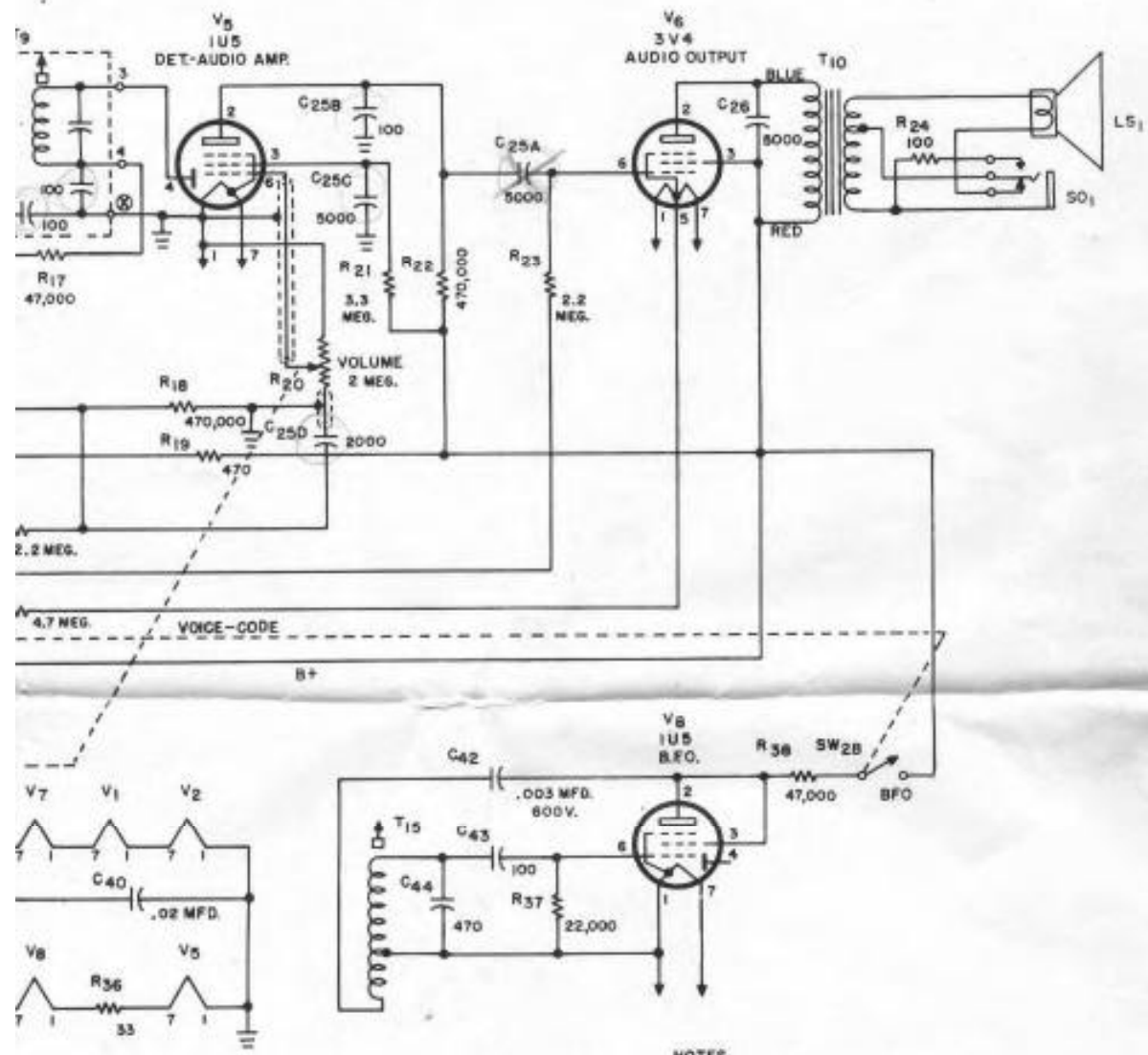


VALUES AND TOLERANCES SHOWN ARE NOMINAL AND VARIATIONS MAY BE FOUND. IT IS RECOMMENDED THAT THE VALUE OF ANY REPLACEMENT CORRESPOND TO THE NOMINAL VALUE OF THE PART BEING REPLACED.

MODEL S-72

RUN 4



105-125 VOLTS
DC OR 50-60 CYCLE AC.
PL₁

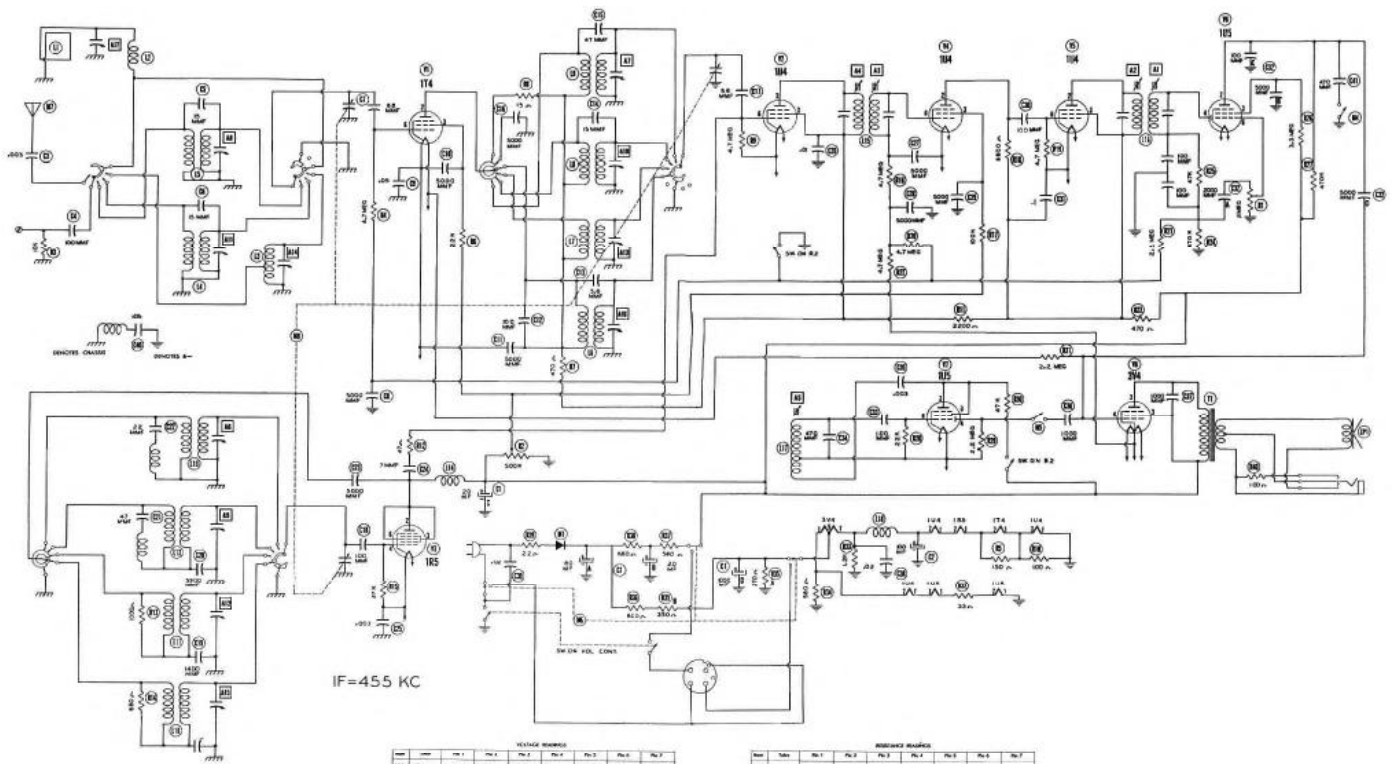
NOTES

1. ALL RESISTORS ARE 1/2 WATT UNLESS OTHERWISE SPECIFIED.
2. CAPACITOR VALUES ARE IN MMF. UNLESS OTHERWISE SPECIFIED.
- ⊥ - INDICATES ELECTRICAL GROUND BUS (B-).
- ⌚ - INDICATES CHASSIS GROUND.
3. BAND SELECTOR SWITCH SW₁ SHOWN IN BAND 1 POSITION (FULLY CLOCKWISE).
4. RESISTOR VALUES ARE IN OHMS UNLESS OTHERWISE SPECIFIED.
- ⊛ OPERATION SWITCH (SW₂) SHOWN IN AC/DC POSITION. INSERTING AC POWER PLUG (PL₁) IN THE RECEPTACLE ON THE CHASSIS PLACES SWITCH SW₂ IN THE BATTERY POSITION.
- ⊙ SWITCH SW₂ GANGED WITH VOLUME CONTROL.
5. SEE FIG. 8 FOR LOCATION OF SWITCH SECTIONS OF SW₁.

LAST CAPACITOR SYMBOL C-47
LAST RESISTOR SYMBOL R-42

808519-1

FIG. 10 SCHEMATIC DIAGRAM



IF=455 KC

VOLTAGE MEASUREMENTS

Pin	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7
V1	12A	1.450V	75.5V	650V	0V	1.450V	-133V	2.00V
V2	12A	0V	75.5V	650V	0V	0V	-110V	1.45V
V3	12A	0.900V	105.0V	85.0V	0V	0V	2.80V	0.80V
V4	12A	0.450V	52.5V	42.5V	0V	0V	1.40V	0.40V
V5	12A	0.450V	52.5V	42.5V	0V	0V	1.40V	0.40V
V6	12A	0V	75.5V	650V	0V	0V	0V	1.45V
V7	12A	0.900V	105.0V	85.0V	0V	0V	2.80V	0.80V
V8	12A	0.450V	52.5V	42.5V	0V	0V	1.40V	0.40V

(EARTH WITH VACUUM TUBE VOLTMETER)

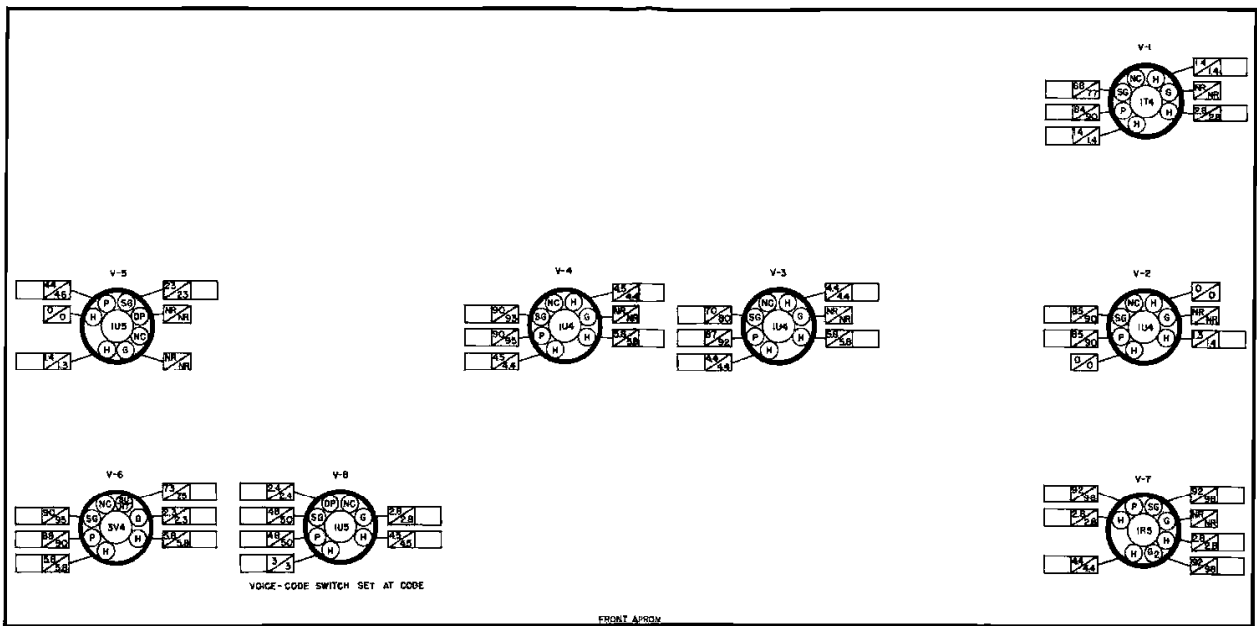
RESISTANCE MEASUREMENTS

Pin	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7
R1	12A	+	14,300	10,000	10k	+	5,000	+
R2	12A	+	14,300	10,000	10k	+	5,000	+
R3	12A	+	14,300	10,000	10k	+	5,000	+
R4	12A	+	14,300	10,000	10k	+	5,000	+
R5	12A	+	14,300	10,000	10k	+	5,000	+
R6	12A	+	14,300	10,000	10k	+	5,000	+
R7	12A	+	14,300	10,000	10k	+	5,000	+
R8	12A	+	14,300	10,000	10k	+	5,000	+

(DO NOT USE OHMMETER TO MEASURE PLATING RESISTANCE + RELAY - COIL RESISTANCE IN "TEST" POSITION)

THE COOPERATION OF THE MANUFACTURER OF THIS TUBE IS REQUESTED FROM OUTSIDE OF U.S. RECEIVERS MAKES IT POSSIBLE TO SEND YOU THIS SERVICE

1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms per volt.
2. Socket connections are shown in bottom views.
3. Measured values are from socket pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of ± 10% in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.



- NOTES -
1. SOCKET VIEWS ARE BOTTOM VIEWS
 2. ALL VOLTAGES ARE MEASURED BETWEEN TUBE SOCKET TERMINALS & B-, THE ELECTRICAL GROUND BUS (NOT CHASSIS) WITH ZERO SIGNAL INPUT
 3. LINE VOLTAGE - 117V AC BATTERY VOLTAGES TAKEN WITH FRESH BATTERY PACK
 4. ALL VOLTAGES SHOWN ARE DC UNLESS OTHERWISE SPECIFIED
 5. DC VOLTAGES SHOWN WERE MEASURED WITH A VACUUM TUBE VOLTMETER
 6. "NC" - NO CONNECTION
 7. "NR" - NOT READABLE (READING GENERALLY MEANINGLESS)
 8. [] SPACE PROVIDED FOR SERVICE METER READINGS
 9. [] UPPER VOLTAGE READINGS IN INDICATOR SPACE SHOW BATTERY OPERATION
 10. VOLTAGES FOR TUBE V-8, ARE SHOWN WITH VOICE-CODE SWITCH IN CODE POSITION.
 11. ALL READINGS TAKEN WITH LINE PLUG POLARIZED SO THAT GROUND BUS & CHASSIS ARE AT SAME POTENTIAL AS THE CHASSIS GROUND

920777-A

FIG. 9 TUBE SOCKET VOLTAGE CHART