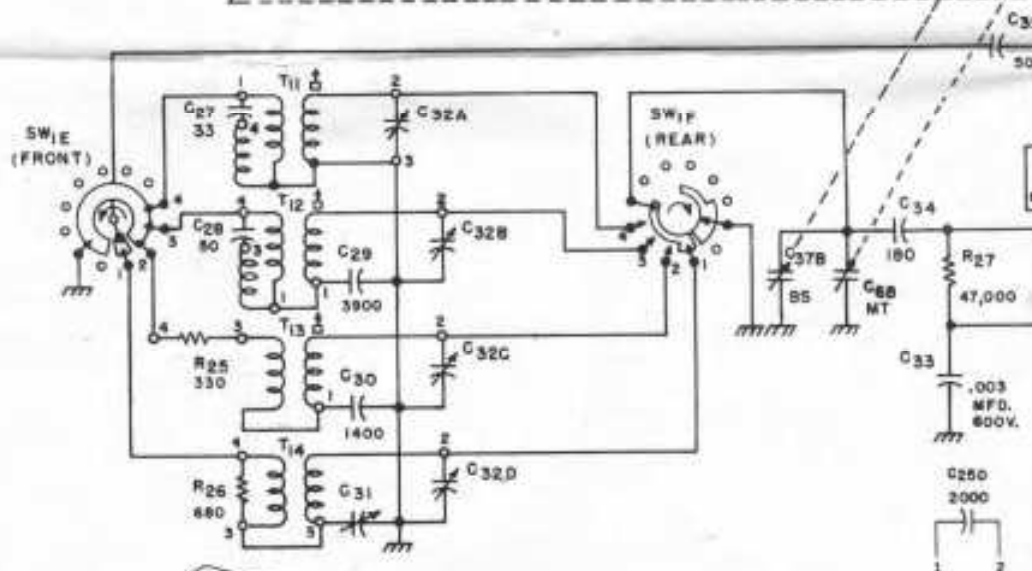
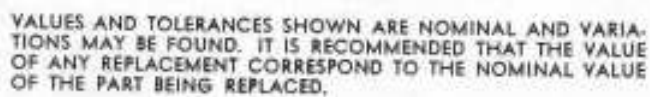
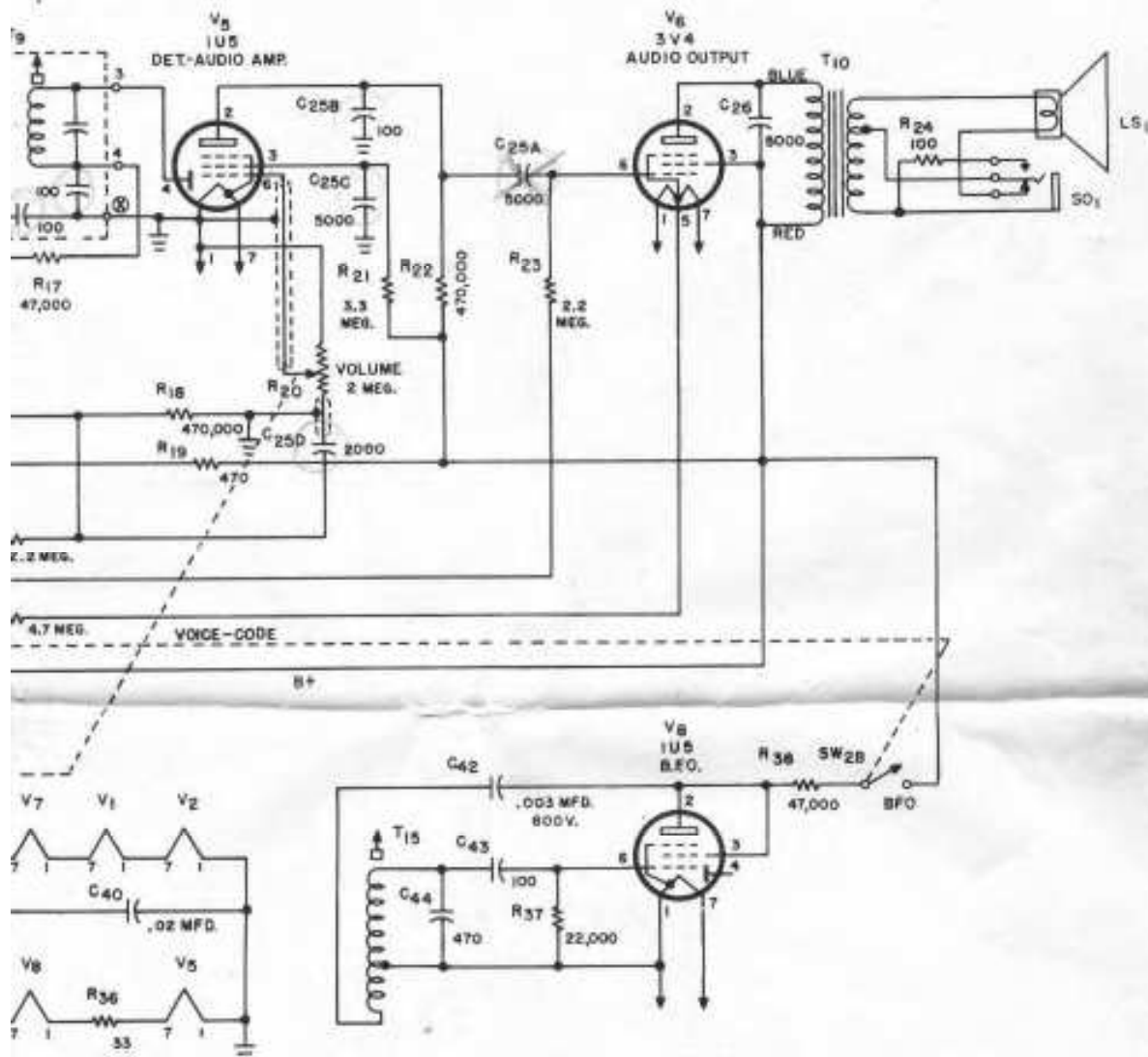


REPRESENTS TRANSFORMERS
T-1 TO T-7, T-11 TO T-14 & L-2



MODEL S-72

RUN 4



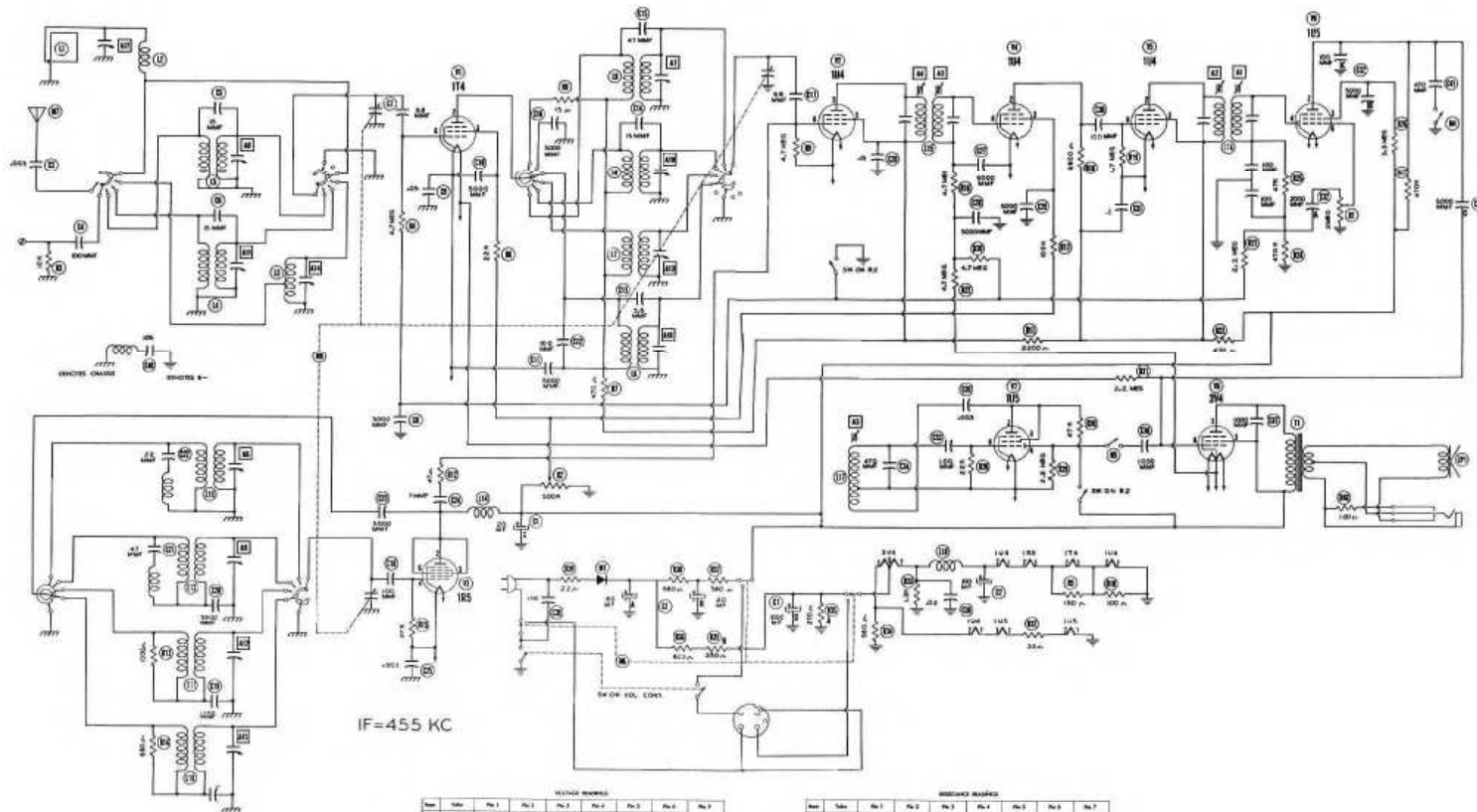
NOTES

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 (SW₅) SHOWN IN AC/DC POSITION. INSERTING AC POWER PLUG (PL₁) IN THE RECEPTACLE ON THE CHASSIS PLACES SWITCH SW₅ IN THE BATTERY POSITION.
- ⊗ SWITCH SW₆ 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

892519-1

FIG. 10 SCHEMATIC DIAGRAM



IF=455 KC

TUBE DATA						
Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6
6X4	1-6VDC	7-6VDC	8-6VDC	9-6VDC	10-6VDC	11-6VDC
6AR5	1-6VDC	2-6VDC	3-6VDC	4-6VDC	5-6VDC	6-6VDC
6AV6	1-6VDC	2-6VDC	3-6VDC	4-6VDC	5-6VDC	6-6VDC
6BE6	1-6VDC	2-6VDC	3-6VDC	4-6VDC	5-6VDC	6-6VDC
6BD6	1-6VDC	2-6VDC	3-6VDC	4-6VDC	5-6VDC	6-6VDC
6BE7	1-6VDC	2-6VDC	3-6VDC	4-6VDC	5-6VDC	6-6VDC
6X5	1-6VDC	2-6VDC	3-6VDC	4-6VDC	5-6VDC	6-6VDC

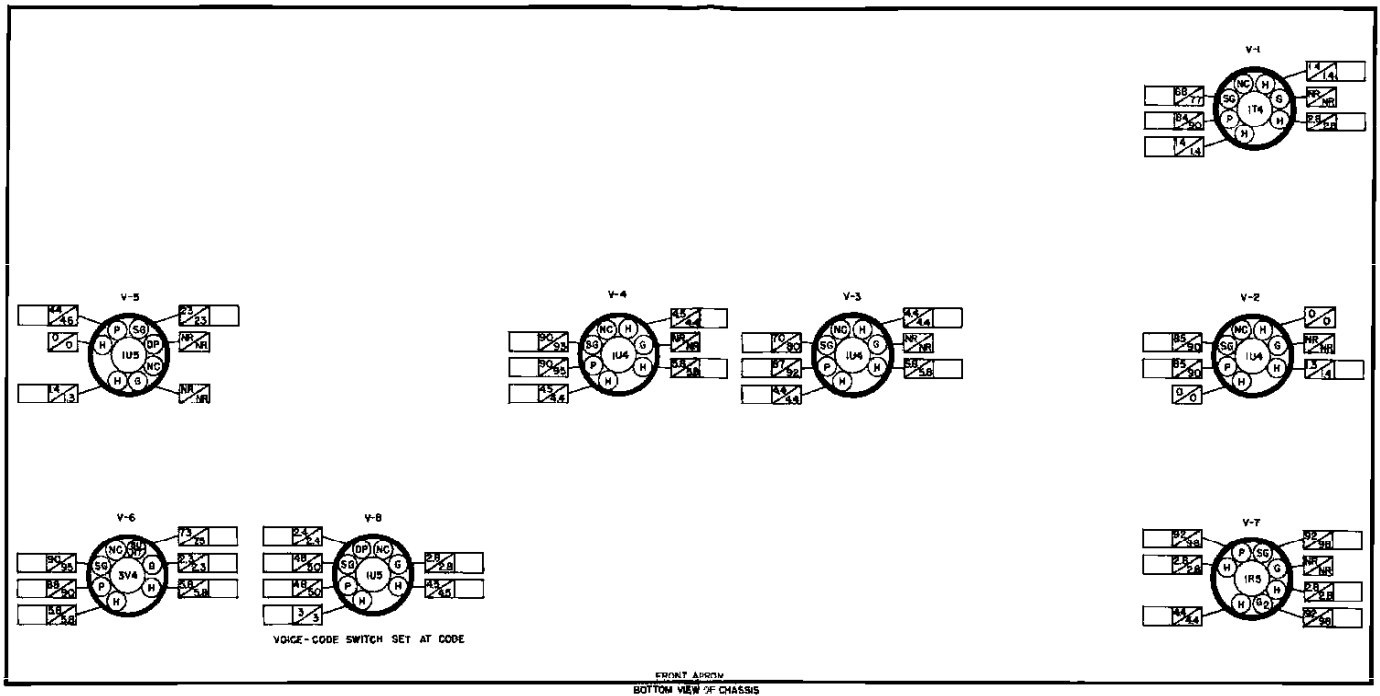
Pin 1 with positive tube sockets

RESISTOR DATA						
Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6
6X4	1-6VDC	7-6VDC	8-6VDC	9-6VDC	10-6VDC	11-6VDC
6AR5	1-6VDC	2-6VDC	3-6VDC	4-6VDC	5-6VDC	6-6VDC
6AV6	1-6VDC	2-6VDC	3-6VDC	4-6VDC	5-6VDC	6-6VDC
6BE6	1-6VDC	2-6VDC	3-6VDC	4-6VDC	5-6VDC	6-6VDC
6BD6	1-6VDC	2-6VDC	3-6VDC	4-6VDC	5-6VDC	6-6VDC
6BE7	1-6VDC	2-6VDC	3-6VDC	4-6VDC	5-6VDC	6-6VDC
6X5	1-6VDC	2-6VDC	3-6VDC	4-6VDC	5-6VDC	6-6VDC

DO NOT USE COMPONENT TO MEASURE PLATE RESISTANCE
A 250V AC-100V 60Hz 100W transformer is required for this circuit.

THE COOPERATION OF THE MANUFACTURERS OF THIS 100V AC-100V 60Hz 100W TRANSFORMER IS NECESSARY TO MAKE THIS SET 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 as 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 $\pm 10\%$ 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-6, 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

SHORTWAVE STATION LOG

[illegible]

Warranty

"The Hall-Ingalls Company warrants each new radio picture combination to be a 12.5 in. (one eighth) standard and substantially and agree to remedy any such defect or to furnish a new unit in exchange for any part of our unit of its construction which under normal conditions, use and service should not defect, provided that unit is returned to the company in an authorized radio dealer, photographer, from whom purchased or, authorized service center, here, for examination with all transportation charges prepaid unless shown otherwise. The date of sale is original purchase and provided that with reasonable dispatch in our judgment that it is this defect.

These warranties does not extend to any of our radio picture combination, have subjected to abuse, neglect, accident, misuse, wiring not our own, improper installation, or to use in violation of instructions, furnished by us, nor extend to units which have been exposed to other causes of our power or electrical service outage, nor to units where the serial number thereof has been removed, altered or changed, nor to accessories sold through one of our own representatives.

Any part of a unit approved for removal or exchange hereunder and be received or exchanged by the authorized radio dealer or elsewhere without charge to the owner.

This warranty is in lieu of all other warranties expressed or implied and no representative or person or merchant is to make for us any other liability in connection with the sale of our radio products."

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