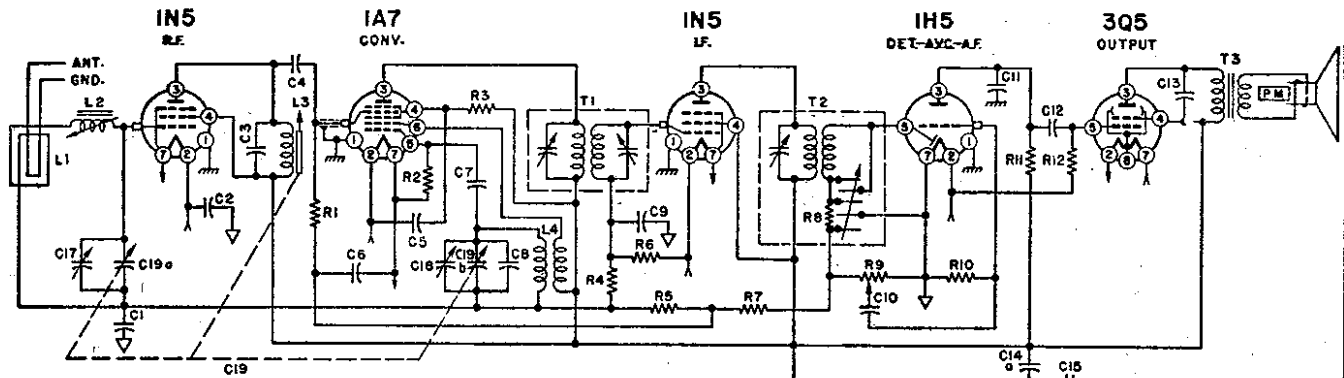
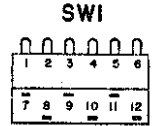
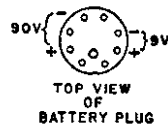
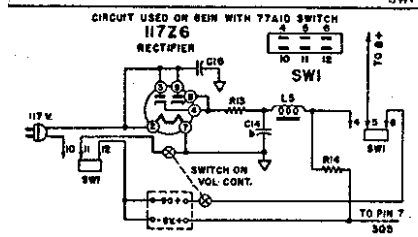
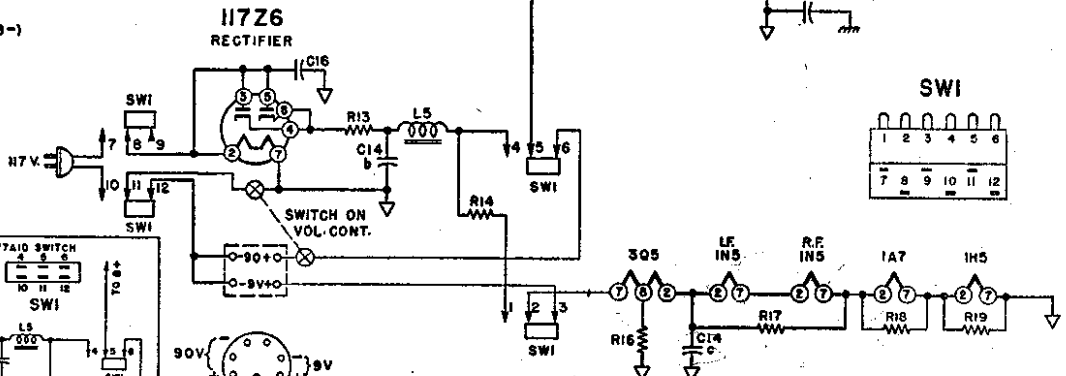


MODELS 6E1, 6E1N

ADMIRAL CORPORATION



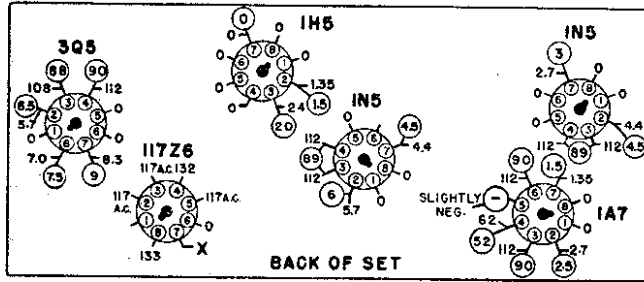
∇ COMMON LINE CONNECTION (B-)
 ⚡ CHASSIS GROUND



NOTES: I.F. = 455 K.C.
 Power change switch (SW1) shown in battery operation position.
 In earlier models (L2) was fixed.

ISSUE A 1946

VOLTAGE CHART



VOLTAGE DATA

1. Voltage readings circled (O) are for Battery Operation.
2. All reading made between Tube Socket Terminals and Terminal No. 7 on the 117Z6 (Point (X) on Voltage Chart).
3. A.C. Voltages measured on a 117 Volt A.C. line.
4. Battery Voltages measured with a fresh battery.
5. Dial turned to low frequency end, no signal.
6. All Voltages measured with a 1000 ohm per volt meter.

CONDENSERS

Symbol	Description	Part No.
C1	.05 Mfd. 200 Volt Paper	64B1-32
C2	.25 Mfd. 200 Volt Paper	64B1-28
C3	.00042 Mfd. Mica	65B1-9
C4-C11	.00025 Mfd. Mica	65B5-22
C5, C6, C9, C10, C12	.01 Mfd. 400 Volt Paper	64B1-25
C7	.00005 Mfd. Mica	65B5-11
C8	.000015 Mfd. Mica	65B5-3
C13	.002 Mfd. 600 Volt Paper	64B1-9
C14a	50 Mfd. 150 Volt	67C7-42
C14b	30 Mfd. 150 Volt	
C14c	100 Mfd. 25 Volt	
C15	.2 Mfd. 400 Volt Paper	64A2-1
C16	.05 Mfd. 400 Volt Paper	64B1-22
C17	Antenna Trimmer	66A12-5
C18	Oscillator Trimmer (Part of Gang)	
C19 { C19a } { C19b }	Condenser Gang	68B4

RESISTORS

R1	100,000 Ohms 1/2 Watt Carbon	60B8-104
R2	220,000 Ohms 1/2 Watt Carbon	60B8-224
R3	47,000 Ohms 1/2 Watt Carbon	60B8-473
R4, R5	4.7 Megohms 1/2 Watt Carbon	60B2-475

RESISTORS

Symbol	Description	Part No.
R6	4.7 Megohms 1/2 Watt Carbon	60B2-475
R7	3.3 Megohms 1/2 Watt Carbon	60B2-335
R8	50,000 Ohms 1/2 Watt Carbon	60B8-503
R9	1 Megohm Volume Control	75B1-100
R10	15 Megohms 1/2 Watt Carbon	60B2-156
R11	1 Megohm 1/2 Watt Carbon	60B2-105
R12	2.2 Megohms 1/2 Watt Carbon	60B2-225
R13	22 Ohms Wire Wound 1/2 watt	61A2-2
R14	2,450 Ohms Wire Wound 5 watt	61A3-5
R16	1,500 Ohms 1/2 Watt Carbon	60B8-152
R17	560 Ohms 1/2 Watt Carbon	60B8-561
R18	220 Ohms 1/2 Watt Carbon	60B8-221
R19	120 Ohms 1/2 Watt Carbon	60B8-121

COILS & TRANSFORMERS

L2	{ Coil, Loop Loading, (fixed) (early) { Coil, Loop Loading, (variable) (late)	AA114 AA115
L3	{ Iron Slug for plate coil { Coil, Plate	71B1-3 70A1-30
L4	Oscillator Coil	69A7
L5	Choke Filter	74A5
T1	1st I.F. Transformer	72B9-2

COILS & TRANSFORMERS

Symbol	Description	Part No.
T2	2nd I.F. Transformer	72B10-2
T3	Transformer, Output (When ordering furnish all numbers appearing on both the speaker and the transformer.)	
SW1	{ Switch, Power Change (6E1) { Switch, Power Change (6EIN)	77A6 77A10

MISCELLANEOUS

Dial background	21A19-2
Dial Cord, 12"	50A1-3
Dial Cord Tension Spring	19A1-2
Dial Scale, Glass	23C11-1
Escutcheon	23C11-2
Knob, Tuning	33A14-4
Knob, Volume	33A14-3
Plug, Battery (9 prong)	88A3-3
Pointer, Tan Tenite	25A14-2
Rubber liner for Dial Scale	23C11-3
Speaker Grill	36A2
Speaker & Output Transformer	78B8
Tube Shields	87A8

ADMIRAL CORPORATION

ALIGNMENT PROCEDURE

CIRCUIT CHANGE TO ELIMINATE HUM IN PORTABLE 6E1 CHASSIS

1. Be sure both set and signal generator are thoroughly warmed up before starting alignment.
2. Make alignment using a battery whenever possible.
3. Disconnect Loop Antenna leads from clips on set and remove chassis from cabinet.
4. Connect a 50,000 ohm carbon resistor across the two clips from which the Loop Antenna was removed.
5. Connect Output Meter across the Voice Coil.
6. Connect a fresh battery to the set.
7. Turn receiver Volume Control full on.

Early production 6E1 chassis sometimes have a rough modulation hum whenever the user's hand is near to or touches certain parts of the cabinet. This happens only when the set is operated on AC power lines.

In most cases this hum can be eliminated or greatly reduced by reversing the power cord plug at the electric outlet. However, we have reports that some sets in some locations still hum excessively even though the line cord plug is reversed.

As soon as this condition was discovered, we changed the circuit slightly on our production line. This change completely eliminates the difficulty. The change is as follows:

The low ends of the loop aerial and variable condenser are disconnected from the AVC circuit and connected to the chassis. A .00025 mfd condenser is connected in series with the grid of the 1W5 R.F. tube, and the grid is connected to the AVC circuit through a one megohm resistor. If any sets are giving this trouble in the field, the circuit change can be easily made without removing the chassis by mounting a small terminal strip for the new parts on the back of the plate which is on the gang condenser. The procedure is as follows:

1. Remove the 1A7GT tube.
2. Remove the left hand screw that holds the mounting plate to the gang condenser. Install the terminal strip with this screw.
3. Mount the condenser (.00025 mfd.) and resistor (1 meg.) on strip. Connect them in series.
4. Remove the green grid lead of the 1W5GT tube from the trimmer condenser and connect it to the junction of the .00025 mfd. condenser and the 1 megohm resistor.
5. Connect the other end of the .00025 mfd. condenser to the trimmer terminal from which the green lead was removed.
6. Disconnect the orange wire that now goes to the lug on the tuning condenser and connect it to the open end of the 1 meg. resistor.
7. Connect a short wire from the tuning condenser stator to chassis.

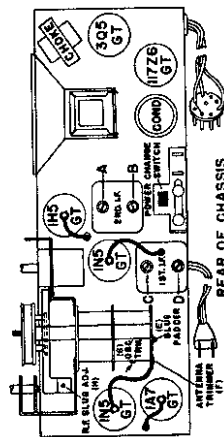
REPLACING R.F. TUNING SLUG

If the R.F. Tuning Slug has to be changed use the following procedure. Set the gang condenser to the point where the plates are fully meshed. Screw the slug adjusting screw about halfway down. Place the slug in the coil in such a position that the top of the slug is flush with the top of the coil. Solder the slug wire to the adjusting screw. Be sure that the position of the slug does not change during the soldering and that the slug wire is straight. Proceed to realign the set as shown in the chart.

DUMMY ANTENNA USED IN SERIES WITH SIGNAL GENERATOR	CONNECT HIGH SIDE SIGNAL GENERATOR TO	SIGNAL GENERATOR FREQUENCY	RECEIVER GANG SETTINGS	TUNING DESCRIPTION AND DESCRIPTION	TYPE OF ADJUSTMENT
(1) .00025 Mfd. when using A.C. 1 Mfd. when using Battery	Grid Cap 1A7	455 K.C.	Any point where it does not affect Signal	2nd I.F. (A), (B), 1st I.F. (C), (D).	Maximum Deflection Then repeat
(2) .00025 Mfd. when using A.C. 1 Mfd. when using Battery	Grid Cap 1N5	1620 K.C.	Tuning Gang Wide Open	Oscillator Trimmer (G)	Maximum Deflection
(3) .00025 Mfd. when using A.C. 1 Mfd. when using Battery	Grid Cap 1N5	1400 K.C.	Tune in Generator Signal	R.F. Slug (H)	Maximum Deflection
(4) Replace Set in Cabinet	Antenna and Ground Leads	1400 K.C.	Tune in Generator Signal	Antenna Trimmer (F)	Maximum Deflection
(6) Disregard the next two steps if the set being aligned is one of the earlier models with a fixed loop loading coil (L2)	Antenna and Ground Leads	600 K.C.	Tune in Generator Signal	Loop Loading Coil Slug (E)	Maximum Deflection
(8) .00025 Mfd.	Antenna and Ground Leads	1400 K.C.	Tune in Generator Signal	Reset Antenna Trimmer (F)	Maximum Deflection

Seal adjusting screw on the loop loading coil with any quick drying cement.

TUBE AND TRIMMER LAYOUT



DIAL CORD STRINGING

