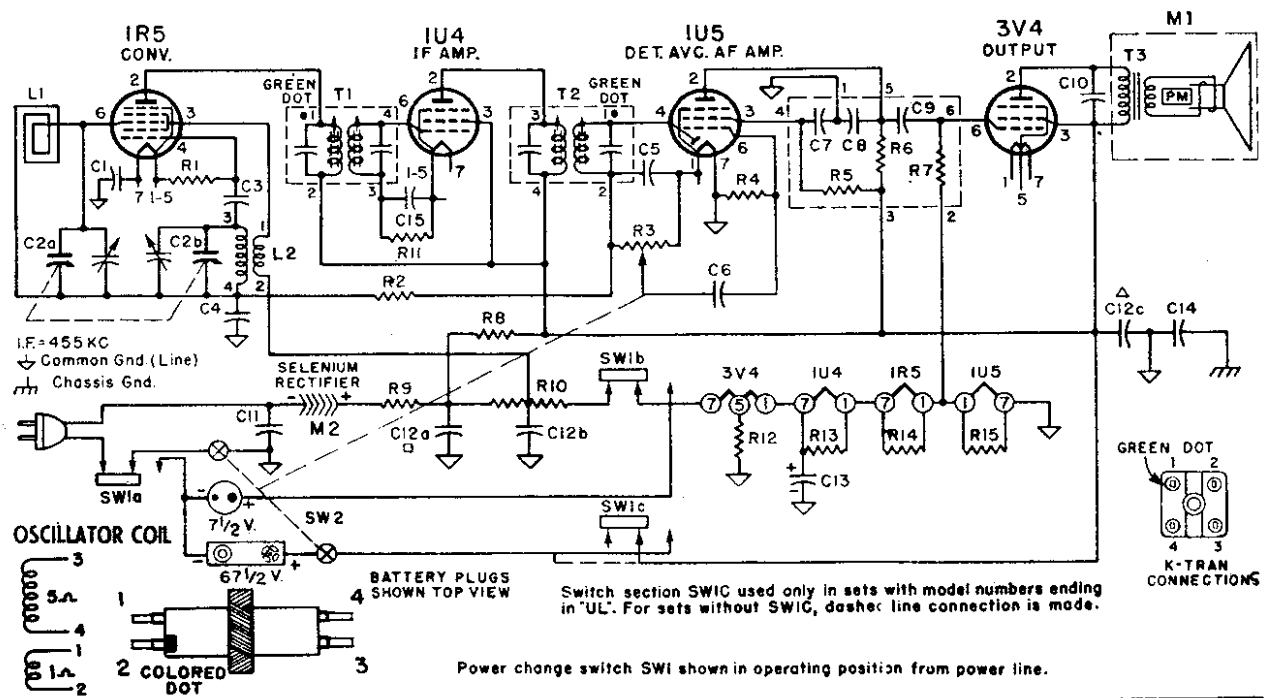


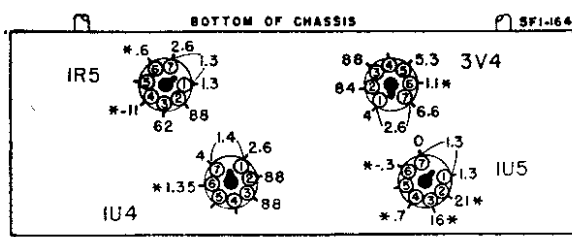
MODELS 5F11, 5F12,  
CHASSIS 5F1

ADMIRAL CORPORATION



VOLTAGE DATA

- Voltage readings taken between tube socket terminals and B minus (metal shell of electrolytic condenser).
- Dial set to low frequency, no signal, and volume control minimum.
- Measurements made from 117 volts AC line. If measured from DC line, voltages may be slightly lower.
- Voltage readings taken with a vacuum tube voltmeter. Socket terminals marked with an asterisk \* indicate much lower voltage or zero voltage if measured with a 1000 ohm-per-volt meter.
- If measurements are made on battery operation, tube filament and B plus voltages will vary with the condition of the batteries. These voltages will equal the terminal voltage of the A or B battery less the voltage drop through components.



\* If taken with a 1000 ohm-per-volt meter, readings will be lower or zero.

RESISTORS

Symbol	Description	Part No.
R1	100,000 Ohms, 1/4 Watt	60B 27-104
R2	3.3 Megohms, 1/4 Watt	60B 27-335
R3	1 Megohm, Volume Control and On-Off Switch	75B 1-21
R4	10 Megohms, 1/4 Watt	60B 27-106
R5	4.7 Megohms, 1/4 Watt	60B 27-106
R6	1 Megohm	
R7	2.2 Megohms	
R8	2,700 Ohms, 1 Watt	60B 14-272
R9	47 Ohms, 1 Watt	60B 14-470
R10	2,400 Ohms, 2.5 Watt (Tapped Candeohm)	61A 5-3
R11	10 Megohms, 1/4 Watt (R11 not used in early production)	60B 27-106
R12	2,200 Ohms, 1/4 Watt	60B 26-222
R13	390 Ohms, 1/4 Watt	60B 26-391
R14	180 Ohms, 1/4 Watt	60B 26-181
R15	120 Ohms, 1/4 Watt	60B 26-121

CONDENSERS

Symbol	Description	Part No.
C1	.25 mfd., 200 Volts, Paper	64B 1-28
C2a	Gang, 420 mfd., (max)	68B 14
C2b	Gang, 125 mfd., (max)	
C3	100 mfd., Ceramic	65B 6-3
C4	.01 mfd., 400 Volts, Paper	64B 1-25
C5	100 mfd., Ceramic	65B 6-3
C6	.001 mfd., Ceramic (tolerance - 0%, + 20%)	65B 6-41
C7	.005 mfd., Ceramic	
C8	100 mfd., Ceramic	
C9	.005 mfd., Ceramic	
C10	.001 mfd., Ceramic (tolerance - 0%, + 20%)	65B 6-41

COILS, TRANSFORMERS, ETC.

Symbol	Description	Part No.
L1	Antenna Loop	69B 40
L2	Coil, Oscillator	69A 59
T1	Transformer, 1st I.F.	72B 28-11
T2	Transformer, 2nd I.F.	72B 28-11
T3	Transformer, Output	98A 21
M1	Speaker (4" PM) and Output Transformer	78B 34-2
M2	Rectifier, Selenium	93A 1-4
SW1	Switch, Power Change DPDT, for "N" models	77A 19-2
	4PDT, for "UL" models (Part of R3)	77A 19-1
SW2	Switch, On-Off	(Part of R3)
	†Couplate (includes C7, C8, C9, R5, R6, R7)	63A4-3

PLASTIC CABINET PARTS

Description	Part No.
Body, Cabinet (less all other parts)	34D 20-1
Maroon 5F11	34D 20-1
Ebony 5F12	34D 20-5
Lid, Cabinet (less all other parts)	34D 20-2
Maroon 5F11	34D 20-6
Ebony 5F12	34D 20-6

MISCELLANEOUS

Description	Part No.
Cover, Antenna (for inside lid)	
Maroon 5F11	34D 20-4
Ebony 5F12	34D 20-8
Escutcheon & Grille (front)	
Maroon 5F11	23C 32-1
Ebony 5F12	23C 32-2
Handle, Carrying (less all other parts)	34D 20-3
Maroon 5F11	34D 20-7
Ebony 5F12	34D 20-7
Knobs	
"Volume" Maroon 5F11	33B 30-1
"Tuning" Maroon 5F11	33B 30-2
"Volume" Ebony 5F12	33B 30-3
"Tuning" Ebony 5F12	33B 30-4
Baffle Board, Speaker	43A 57
Bracket, Battery Support	15A 288
Bracket, Chassis Support	45A 4-7
Bag, Waxed Paper Shipping	44B 111
Carton and Fillers	44B 111
Catch Pin, Lid (on Monogram)	23B 31-2
Clip, "B" Battery	30A 5-2
Clip, IF Transformer Mounting	72B 28-10
Contact Strip, Antenna	10A 11-1
Cover, Chassis (metal)	15B 267
Cover and Latch Assembly (Metal Cabinet Bottom)	AB141
Grille Cloth (7 1/2" x 4 3/4")	36B 3-7
Hinge and Bracket, Cover (Left Side)	A1660
Hinge and Bracket, Cover (Right Side)	A1661
Monogram (Admiral)	23B 31-1
Pin Tip (for Antenna Leads)	86A 2-1
Plate, Electrolytic Mounting	87A 2-1
Plug, "A" Battery	88A 4-6
Pointer, Dial Tuning	25A 29-1
Shield Plate (for Selenium Rectifier)	15A 304
Snap Buttons	13A 1-3-47
Speed Nut (Monogram mounting)	2B 10-23-68
Speed Nut ("U" type)	2A 9-5
Spring, Lid Catch Pin	19A 29
Tube Socket	87A 3-4

†C7, C8, R5, R6, R7 are contained in a multiple-unit component called a couplate (part number 63A4-3). Although a defective section of the couplate can sometimes be replaced by individual components, we recommend replacing the entire couplate.  
Note that numerals 1, 2, 3, 4, 5, and 6 shown at schematic connections, correspond to couplate lead numbers printed on body of couplate directly above the leads.

**ALIGNMENT PROCEDURE**

- Use battery power for alignment if fresh batteries are available.
- When using AC power, an isolation transformer should be used if available. If not using an isolating transformer, connect a .1 mfd. condenser in series with the signal generator low side to B minus of radio chassis.
- Connect loop antenna and maintain same relative position as when in cabinet.
- Set volume control full on.
- Connect output meter across speaker voice coil.
- Use lowest setting of signal generator capable of producing adequate output meter indication and then proceed as outlined below.
- Repeat adjustments to insure good results.

**NOTE**

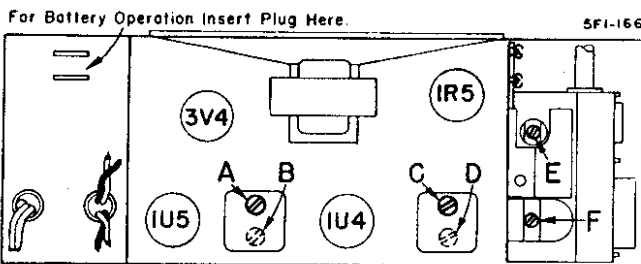
To avoid splitting the slotted head of powdered iron core tuning slugs in I.F. transformer, use an alignment tool with a screw driver blade 1/8" wide.

Step	Dummy Antenna in Series with Signal Generator	Connection of Signal Generator (High Side)	Signal Generator Frequency	Receiver Gang Setting	Trimmer Description	Trimmer Designation	Type of Adjustment
1	.001 mfd. when using A. C. .1 mfd. when using Battery	Tuning condenser, antenna stator	455 KC	Gang fully open	2nd IF 1st IF	A, B C, D (see note below)	Maximum output
2	.001 mfd. when using A. C. .1 mfd. when using Battery	Tuning condenser, antenna stator	1620 KC	Gang fully open	Oscillator (on gang)	E	Maximum output
Install chassis in cabinet. Connect loop antenna.							
3	Loop of several turns of wire, or place generator lead close to receiver loop for adequate signal.	No physical connection (signal by radiation)	1400 KC	Tune in generator signal	Antenna (on gang)	F	Maximum output

Mount dial pointer. Set pointer at 1400 KC with gang condenser tuned to 1400 KC signal.

NOTE: Adjustments B and D are made from underside of chassis.

**TUBE AND TRIMMER LOCATION**



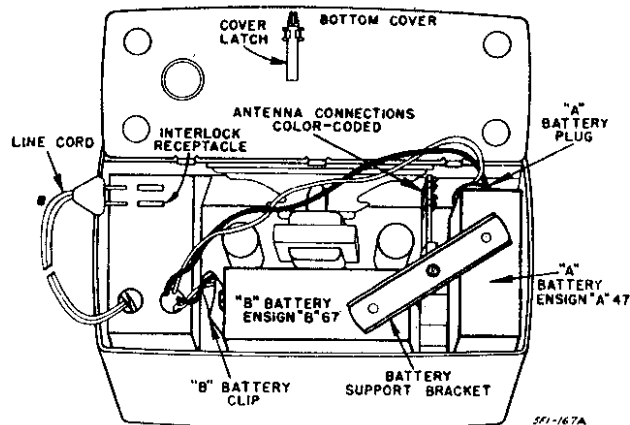
**REPLACEMENT OF BATTERIES**

Use replacement A and B batteries of the following types:  
**A Battery:** Ensign A47 or equivalent.  
**B Battery:** Ensign B67, Burgess XX45, Eveready 467 or equivalent.

Electrical characteristics of recommended batteries for these models provide for equal life for both the A and B batteries. A batteries may give satisfactory performance as low as 5.5 volts; B batteries as low as 49.5 volts. Replace batteries when reception is weak and voltage has dropped below values given above.

To install replacement batteries, slide the cover latch and open the hinged bottom cover. Then remove the screw which holds the battery support bracket in place. This bracket holds the batteries in place.

Remove the clip which fastens to the "B" battery by means of snap buttons. Remove the "A" battery plug and replace the batteries and re-install the battery support bracket.



**PRODUCTION CHANGE**

In later production, knobs with longer shanks were used to eliminate the possibility of the knobs sticking or rubbing. The dial pointer has also been modified for use with this revised knob.