

MODELS 7P32, 7P33, 7P34
MODELS 7T06, 7T12

ADMIRAL CORPORATION

MODELS 7P32, 7P33, 7P34
CHASSIS 5H1

ALIGNMENT PROCEDURE

1. Disconnect Loop Antenna leads from clips on set and remove chassis from cabinet.
2. Make alignment using a battery whenever possible. Connect a fresh battery to the set.
3. Tuner arm should be on short flat part of cam. Check pointer. It should be at fully meshed. At this point, tuner arm should be fully meshed. If not, move pointer on dial cord fast dial scale mark just below 550 K.C. when gang is fully meshed.

IMPORTANT: Check dial drum position on shaft. Tuner arm should be on short flat part of cam. Check pointer. It should be at fully meshed. At this point, tuner arm should be fully meshed. If not, move pointer on dial cord fast dial scale mark just below 550 K.C. when gang is fully meshed.

Step	Dummy Antenna Used in Series with Signal Generator	Connect High Side Signal Generator to	Signal Generator Frequency	Receiver Gang Setting	Trimmer Designation and Description	Type of Adjustment
(1)	.00025 Mfd. when using A.C. .1 Mfd. when using Battery	Grid of 1A5 (Pin 6)	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	Stator lug of rear variable condenser section	1620 K.C.	Tuning Gang Wide Open	Oscillator Trimmer (E)	Maximum Deflection
(3)	.00025 Mfd. when using A.C. .1 Mfd. when using Battery	Stator lug of rear variable condenser section	1400 K.C.	Tune in Generator Signal	R.F. Slug (F)	Maximum Deflection

Replace Set in Cabinet

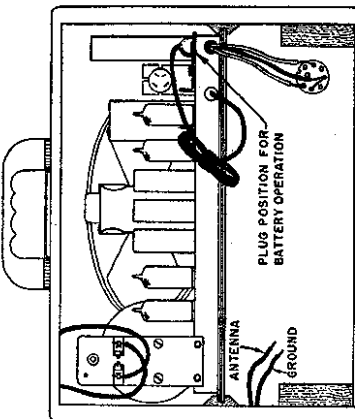
Antenna and Ground Leads	Tune in Generator Signal	Antenna Trimmer (G)	Maximum Deflection
.00025 Mfd.	1400 K.C.		

REPLACING R.F. TUNING SLUG

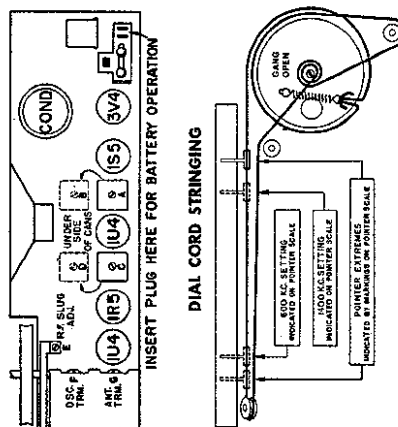
If the R.F. Tuning Slug has to be changed use the following procedure. Set the gang condenser to the point where the plates are fully meshed. Screw the slug adjusting screw about halfway down. Place the slug in the coil in such a position that the top of the slug is flush with the top of the coil. Solder 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.

INTERNAL ANTENNA CONNECTIONS

Note: Antenna connections cross over as shown above for 7P32 only. The 7P33, 7P34 antenna connections are made to the clip nearest the wire.



TUBE AND TRIMMER LAYOUT



MODELS 7T06, 7T12
CHASSIS 4B1

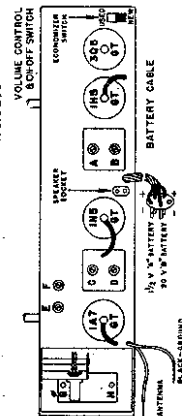
ALIGNMENT PROCEDURE

1. IMPORTANT—Check to see that dial pointer reaches each end of dial scale when Station Selector Control is turned from one end to the other.
2. Volume control—Maximum for all adjustments.
3. Connect radio chassis to ground post of signal generator with a short heavy lead.
4. Connect output meter across voice coil of speaker.
5. Connect dummy Antenna value in series with generator output lead, when needed (see below).
6. Allow chassis and signal generator to "heat up" for several minutes.
7. Use lowest Output setting of Signal Generator capable of producing adequate Output Meter indication and then proceed in the following sequence.

Band	Signal Generator Frequency Setting	Dummy Antenna	Connection to Radio	Receiver Dial Setting	Trimmers Adjusted (In Order Shown)	Trimmer Function	Type of Adjustment
I.F.	455 K.C.	.1 mid.	Grid of 1A7 (Cap)	High Frequency end of dial	A-B—2nd I.F.	Output I.F.	Adjust to maximum output
I.F.	455 K.C.	.1 mid.	Grid of 1A7 (Cap)	High Frequency end of dial	C-D—1st I.F.	Input I.F.	Adjust to maximum output
Broad-cast	1630 K.C.	.00020 Mfd. Mica	Antenna Lead	High Frequency end of dial	E—(See note below) F—(See note below)	Oscillator Antenna	Adjust to maximum output
Broad-cast	1300 K.C.	.00020 Mfd. Mica	Antenna Lead	1300 K.C.	G H	Oscillator Antenna	Adjust to maximum output

NOTE: Before adjusting trimmers "E" and "F", make sure that each iron core is 1/8" or more outside of its coil form. If necessary, turn adjustments "G" and "H" to accomplish this.

TUBE AND TRIMMER LOCATION

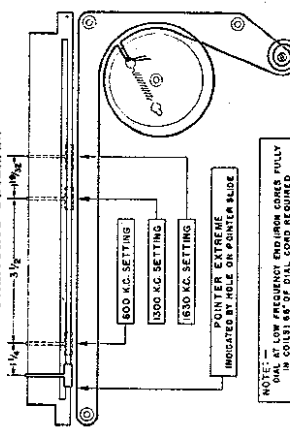


ECONOMIZER SWITCH

The battery economizer switch is located on the top of the chassis, right side.

Always have this Economizer Switch in the "NEW" battery position when first placing radio in operation or when installing a new battery.

STRINGING DIAGRAM



CIRCUIT

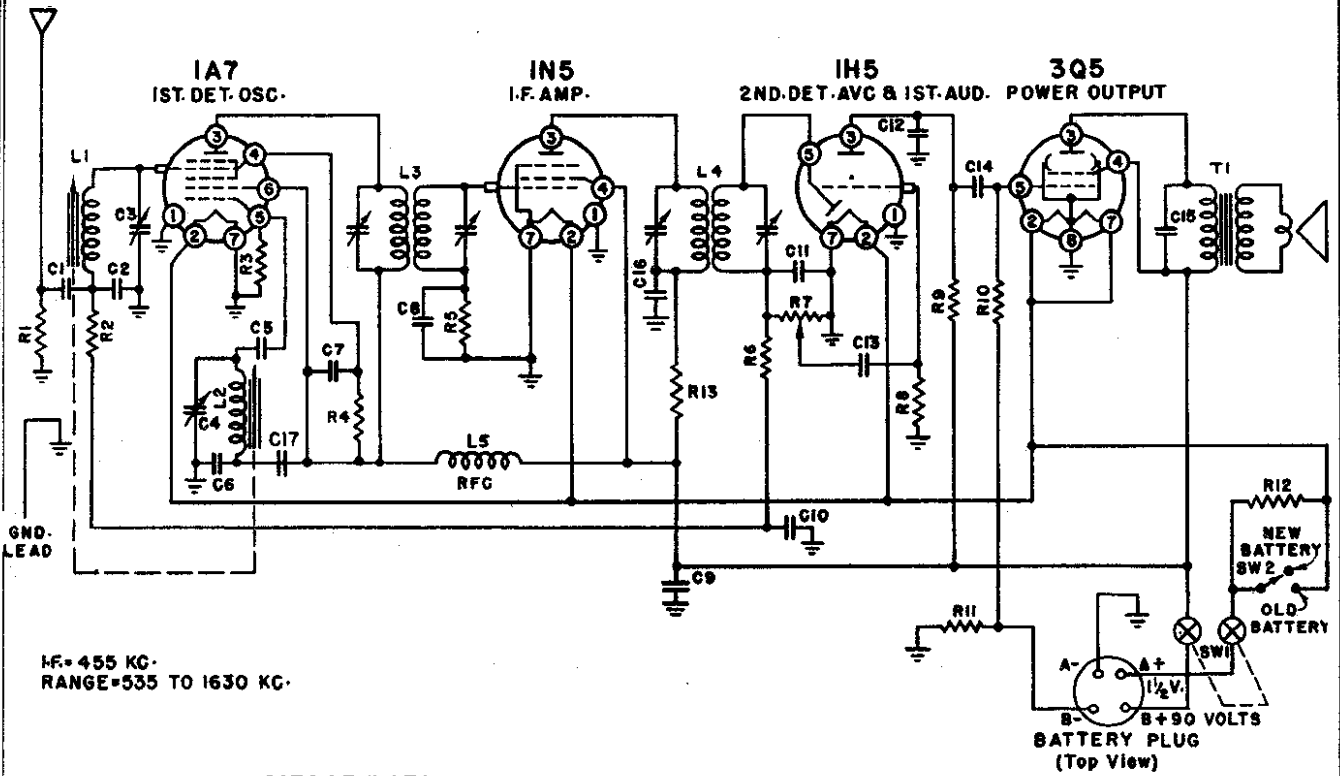
Battery-operated 4 Tube Superheterodyne with Single Tuning Range: 535 K.C. to 1630 K.C. Covers standard broadcast band, using antenna and ground. Permeability tuning on Antenna and Oscillator circuits. Intermediate Frequency is 455 K.C.

POWER SUPPLY

Single unit "AB" battery pack: 90 volt "B", 1 1/2 volt "A", Plug-in connection. Use Ensign AB-48, Burgess 17G-D60, Eveready 748, General 60DL-11L, Ray-O-Vac AB-92, Bond 0528 Battery or equivalent.

ADMIRAL CORPORATION

MODELS 7T06, 7T12,
Chassis 4B1

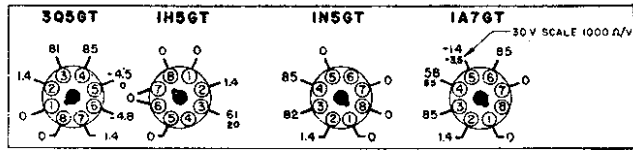


I.F. = 455 KC.
RANGE = 535 TO 1630 KC.

VOLTAGE DATA

All readings made between tube socket terminals and chassis. Voltages indicated have been obtained using a Vacuum Tube Voltmeter. A second voltage reading is shown made with a 1000 ohm-per-volt meter, when use of this instrument would result in appreciably lower readings. Measured with a fresh battery, volume control full on, dial at the high frequency end, no signal.

VOLTAGE CHART



OSCILLATION IN 4B1 RADIO CHASSIS

Occasionally audio oscillation may occur in the 4B1 chassis with the volume control in an intermediate position. Should you encounter this trouble, reverse the leads of the primary of the output transformer or ground the speaker frame to the chassis. The speaker leads and the grid lead of the 1H5 should be kept as far as possible from the 3Q5 output tube.

REPLACEMENT PARTS

ISSUE A 1947

CONDENSERS			TRANSFORMERS and COILS			MISCELLANEOUS		
Symbol	Description	Part No.	Symbol	Description	Part No.	Description	Part No.	
C1	.01 mfd. 400 Volts	64B 1-25	L1	Antenna Coil	ACT05-1	Plug, Battery 5 Prong	88A 4-4	
C2	.0008 mfd. Mica	65B 5-31	L2	Oscillator Coil	A1020	Pointer, Dial	25A 9-1	
C3	Trimmer, Antenna	66A 9-1	L3	1st I.F. Transformer	72B 5	Pulley, Fibre Dial	17A 1-3	
C4	Trimmer, Oscillator		C5	.0001 mfd. Mica	65B 7-17	Scale, Glass Dial (7T06)	21B 31-1	
C6	.0008 mfd. Mica	65B 5-31	C6	.0008 mfd. Mica	65B 5-31	Scale, Glass Dial (7T12)	21B 32-1	
C7	.01 mfd. 400 Volts	64B 1-25	C7	.01 mfd. 400 Volts	64B 1-25	Screw studs (for iron cores)	27A 4	
C8	.002 mfd. 600 Volts	64B 1-14	C8	.002 mfd. 600 Volts	64B 1-14	Shaft, Tuning	28A 1-1	
C9	4. mfd., 150 Volts (Elect)	67A 4-2	C9	4. mfd., 150 Volts (Elect)	67A 4-2	Shield, Tube	87A 8	
C10	.05 mfd., 200 Volts	64B 1-32	C10	.05 mfd., 200 Volts	64B 1-32	Socket, Octal Tube	87A 5-1	
C11	.00025 mfd. Mica	65B 7-22	C11	.00025 mfd. Mica	65B 7-22	Speaker and Output Transformer	78B 3	
C12	.00025 mfd. Mica	65B 7-22	C12	.00025 mfd. Mica	65B 7-22	Spring, Dial Drum Cord Tension	19B 1-7	
C13	.01 mfd. 400 Volts	64B 1-25	C13	.01 mfd. 400 Volts	64B 1-25	Spring, Hairpin (To hold Ant. or Osc. coils)	19A 3-1	
C14	.01 mfd. 400 Volts	64B 1-25	C14	.01 mfd. 400 Volts	64B 1-25	Spring, Tuner, back bearing takeup	19A 6	
C15	.005 mfd., 600 Volts	64B 1-12	C15	.005 mfd., 600 Volts	64B 1-12	Spring, Tuner, front bearing takeup	19A 5	
C16	.01 mfd., 400 Volts	64B 1-25	C16	.01 mfd., 400 Volts	64B 1-25	Spring, Tuner Slide Cord Tension	19B 1-8	
C17	.01 mfd., 400 Volts	64B 1-25	C17	.01 mfd., 400 Volts	64B 1-25	Spring, Tuner Slide Pressure	18A 9	
	(C17 omitted in early models)					Switch, SPST (Economizer) SW2	77B 1-6	
RESISTORS			MISCELLANEOUS					
Symbol	Description	Part No.	Description	Part No.				
R1	15,000 ohm 1/2 Watt	60B 8-153	Background, Dial	X22C 5-1		Spring, Tuner, back bearing takeup	19A 6	
R2	470,000 ohm 1/4 Watt	60B 2-474	Cabinet, Plastic (7T12)	34D 10		Spring, Tuner, front bearing takeup	19A 5	
R3	220,000 ohm 1/2 Watt	60B 8-224	Cabinet, Wood (7T06)	35D 49		Spring, Tuner Slide Cord Tension	19B 1-8	
R4	33,000 ohm 1/2 Watt	60B 8-333	Cable, Battery (complete with plug)	A1026		Spring, Tuner Slide Pressure	18A 9	
R5, R8	4,700,000 ohm 1/4 Watt	60B 2-475	Cord, Dial (5" on tuner and 66" on dial drive)	50A 1-3		Switch, SPST (Economizer) SW2	77B 1-6	
R6	2,200,000 ohm 1/4 Watt	60B 2-225	Drum and Hub, Tuning	A1035		Washer, C	4A 4-1	
R7	1 meg. Vol. Control	75B 1-1	Iron Slug, with wire (Osc.)	71B 1-3		Washer, spring (coils)	4A 6-12-0	
R9, R10	1,000,000 ohm 1/4 Watt	60B 2-105	Iron Slug, with wire (Ant.)	71B 1-4		Washer, spring (shaft)	4A 6-3-0	
R11	390 ohm 1/4 Watt	60B 2-391	Knob	33A 21-3				
R12	.75 ohm 1/2 Watt (wire)	61A 2-1						
R13	2200 ohm 1/4 Watt	60B 2-222						