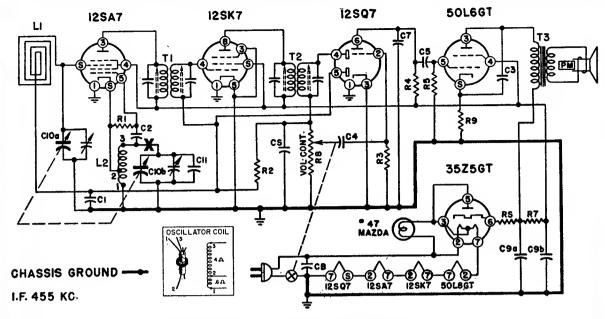


Admiral					
	Model: 7T10	Chassis:	Year: Pre 1952		
	Power:	Circuit:	IF:		
	Tubes:				
	Bands:				
	Resources				
Beitmans 1948 8	Beitmans 1948 8				
Riders 17 (XVII) ADMIRAL 17-11					
Riders 17 (XVII) ADMIRAL 17-12					
Riders 22 (XXII) ADMIRAL 22-13					
Riders 22 (XXII) ADM	Riders 22 (XXII) ADMIRAL 22-14				

MANUAL OF 1948 MOST-OFTEN-NEEDED RADIO DIAGRAMS



- .05 mfd. condenser added at point "X" in oscillator circuit.
 B minus is isolated from chassis by 150,000 ohm resistor and .18 mfd. condenser in parallel.
- 3. Gang condenser grounded to chassis and not connected to B minus as in above circuit.

Admiral.

CHASSIS 5 K 1 MODELS 7710, 7714, 7715

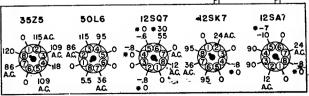
	KE21210K2	
Symbol	Description	Part No.
R1	22,000 Ohms, 1/2 Wott	60B B-223
R2	1 Megohm, 1/2 Watt	60B 8-105
R3	. 4.7 Megohms, 1/2 Wott	60B B-475
R4	., 470,000 Ohms, 1/2 Wott	60B B-474
R5	470,000 Ohms, 1/2 Wott	60B B-474
R6	33 Ohms, 1 Wott	60B 2B-3
R7	1000 Ohms, 1 Wott	60B 2B-2
RB	1 Megohm Volume Con	trol
	ond Switch	
DO	150 Ohma 16 Wass	AOR R. 151

C1	.1 mfd., 200 Volts, Poper648 1-30
C2	50 mmfd., ±20%, Ceromic65B 6-4
C3	.02 mfd., 400 Volts, Poper64B 1-24
	.01 mfd., 400 Volts, Poper64B 1-25
C5	.01 mfd., 400 Volts, Paper64B 1-25
C6	250 mmfd., ±20%, Ceromic65B 6-5
C7	500 mmfd., ±20%, Ceromic65B 6-6
CB	.05 mfd., 400 Volts, Poper64B 1-22
C90	50 mmfd., 150 Volts Elec67A 10
C9b	30 mmfd., 150 Volts }
C10o	Gong, 0 to 420 mmfd. }
C10b	
	(Spot welded to drum)
C11	. 20 mmfd., ±20%, Ceromic 65B 6-26

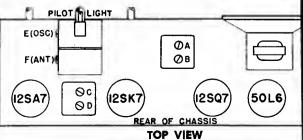
CONDENSERS

Connect Signal Generator to—	Dummy Antenna Between Radio and Generator	Set Generator Frequency to—	Set Receiver Dial Frequency to—	Adjust Following Trimmers	Type of Adjustment
Tuning Condenser Antenna Stator	250 mmfd. Condenser	455 K.C.	High frequency end of Dial	A-B—2nd I. F. C-D—1st I. F. (See note below)	Adjust to maximum Output
Tuning Condenser Antenna Stator	250 mmfd. Condenser	1630 K.C.	High frequency end of Dial	E—Osc.	Adjust to maximum Output
Loop radiator (or place lead from generator close to loop of set to obtain adequate signal).	No actual connection between set and generator.	1400 K.C.	Tune in generator signal	F—Ant.	Adjust to maximum Output

Note: In some sets, the B and D adjustments must be made from the underside of the chassis.

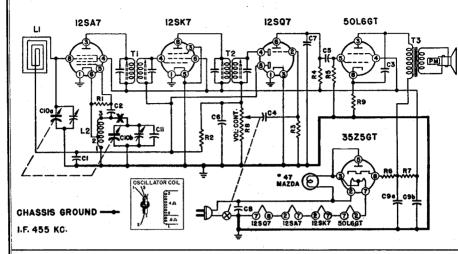


e Voltages measured with a vacuum-tube voltmeter. A second voltage reading (marked with an asterisk *) indicates readings made with a 1000 ohm-per-volt meter.



ADMIRAL CORPORATION

MODELS 7T10,7T14, 7Tl5, Chassis 5Kl, UL5K1



UL5K1 Chassis has circuit changes as described It uses Speaker 78B 26-2.

- .05 mfd. condenser added at point "X" in oscillator circuit.
 B minus is isolated from chassis by 150,000 ohm resistor and .18 mfd. condenser in parallel.
- 3. Gang condenser grounded to chassis and not connected to B minus as in above circuit.

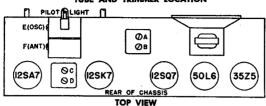
REPLACEMENT PARTS

ŀ			1
ļ	RESISTORS	COILS, TRANFORMERS, ETC.	MISCELLANEOUS
l	Symbol Description Part No.	Symbol Description Part No.	Description Part No.
ľ	R1	L1Antenna, Loop69C 19	Cabinet, Plastic (Ivory with Black Louvre)34D 14-5
ı	R2	12Coil, Oscillator	Cabinet, Plastic (Mahogany)34D 14-2
H	R4 470,000 Ohms, 1/2 Watt 60B 8-474	Above 1.F. transformer is	*Cabinet, Wood (7T14)350.61
l	R5 470,000 Ohms, 1/2 Watt 60B 8-474	slug - tuned. Trimmer - tuned	*Cabinet, Wood (7715)35D 60 Dial Background15B 180
H	R6	I.F. transformer, part num- ber 72833, also used and	Dial Cord50A 1-3
i	R8 1 Megohm Volume Control	is interchangeable with	Dial Crystal
ľ	and Switch75B 1-16	72B31.	Dial Light (#47 Mazda)
ı	R9608 8-151	72	Dial Light Socket and Leads82A 3-2
1	CONDENSERS	slug-tuned. Trimmer-tuned	Dial Scale
ľ		I.F. transformer, part num-	Knob, Plastic (Ivory)33A 18-5
ľ	C1	ber 72834, also used and is interchangeable with	Knob, Wood (Walnut)33A 18-4
ı	C3	72B32.	Pointer
ı	C401 mfd., 400 Volts, Paper64B 1-25	T398A 4	Snap, Buttons (For dial scale)13A 1-3-47
ı	C5	Speaker (5" PM) and Output	Snap Ring (For pointer)18A 5-3 Socket, Tube87A 10-2
ŀ	C7	Transformer788 26-1	Spring, Tension
ľ	CB	MISCELLANEOUS	Washer, 'C" (for tuning shaft)4A 4-1
ı	C9a 50 mmfd., 150 Volts Elec67A 10	Description Part No.	Washer, Felt (for knobs)5A 4-3 Washer, Fibre5A 2-1
1	C10a Gang, 0 to 420 mmfd. }	Cabinet, Plastic (Black)34D 14-1	Washer, Spring (for tuning shaft)4A 6-3-0
ı	(Spot welded to drum)	Cabinet, Plastic (Black with Ivory	*Supplied only if old cabinet cannot be repaired
ı	C11 20 mmfd., ±20%, Ceramic658 6-26	Louvre)	When ordering, describe condition of old cubine in detail.
۱		1	

MODELS 7T10,7T14, 7T15

ADMIRAL CORPORATION

TUBE AND TRIMMER LOCATION



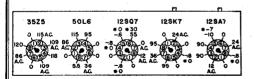
ALIGNMENT PROCEDURE

- Check pointer setting: With gang closed, the pointer should be horizontal.
- 2. Connect Output Meter across Voice Coil.
- 3. Turn Receiver Volume Control full on.
- Use lowest Output setting of Signal Generator capable of producing adequate Output Meter indication and then proceed as outlined in chart below.
- 5. Repeat adjustments to insure good results.

Connect Signal Generator to—	Dummy Antenna Between Radio and Generator	Set Generator Frequency to—	Set Receiver Dial Frequency to—	Adjust Following Trimmers	Type of Adjustment
Tuning Condenser Antenna Stator	250 mmfd. Condenser	455 K.C.	High frequency end of Dial	A-B—2nd I. F. C-D—1st. I. F. (See note below)	Adjust to maximum Output
Tuning Condenser Antenna Stator	250 mmfd. Condenser	1630 K.C.	High frequency end of Dial	EOsc.	Adjust to maximum Output
Loop radiator (or place lead from generator close to loop of set to obtain adequate signal).	No actual connec-	1400 K.C.	Tune in generator signal	F—Ant,	Adjust to maximum Output

Note: In some sets, the B and D adjustments must be made from the underside of the chassis.

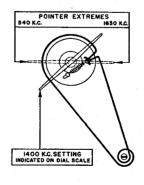
VOLTAGE CHART



*Indicates second reading taken with 1000 ohm-per-volt meter.

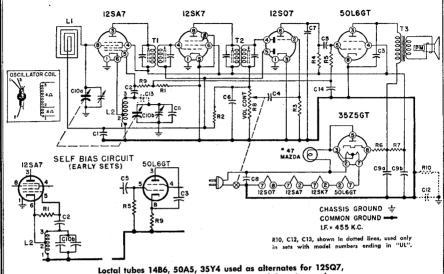
- All readings made between tube socket terminals and chassis.
- Voltages measured on a 117 Volt A.C. line.
- Dial turned to low frequency end, no signal.
- Voltages measured with a vacuum-tube voltmeter. A second voltage reading (marked with an asterisk*) indicates readings made with a 1000 ohm-per-volt meter when use of this instrument would result in appreciably lower readings.

DIAL CORD STRINGING



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MODELS 5K11, 5K12, 5K13, 5K14; 7T10, 7T14, 7T15, Rev.; Ch. 5K1



50L6, 35Z5 respectively. See tube manual for pin numbers.

PROCEDURE

ALIGNMENT

- Check pointer setting: With gang closed, the pointer should be horizontal.
- 2. Connect Output Meter across Voice Coil.
- 3. Turn Receiver Volume Control full on.
- Use lowest Output setting of Signal Generator capable of producing adequate Output Meter indication and then proceed as outlined in chart below.
- 5. Repeat adjustments to insure good results.

Connect Signal Generator to—	Dummy Antenna Between Radio and Generator	Set Generator Frequency to—	Set Receiver Dial Frequency to-	Adjust Following Trimmers	Type of Adjustment
Tuning Condenser Antenna Stator	250 mmfd. Condenser	455 K.C.	High frequency	A-B-2nd I. F. C-D-1st I. F. (See note below)	Adjust to maximum Output
Tuning Condenser Antenna Stator	250 mmfd. Condenser	1630 K.C.	High frequency end of Dial	E—Osc.	Adjust to maximum Output
Loop radiator (or place lead from generator close to loop of set to obtain adequate signal).	No actual connection between set and generator.	1400 K.C.	Tune in generator signal	FAnt.	Adjust to maximum Output

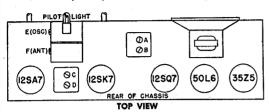
Note: In some sets, the B and D adjustments must be made from the underside of the chassis.

PAGE 22-14 ADMIRAL

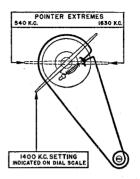
MODELS 5K11, 5K12, 5K13, 5K14; 7T10, 7T14, 7T15, Rev.; Ch. 5Kl

TUBE AND TRIMMER LOCATION

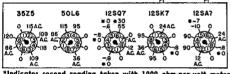
Loctal tubes 14B6, 50A5, 35Y4 used as alternates for 12SQ7, 50L6, 35Z5 respectively. See tube manual for pin numbers.



DIAL CORD STRINGING



VOLTAGE DATA



- *Indicates second reading taken with 1000 ohm-per-volt meter.
- All readings made between tube socket terminals and B minus (Terminal of on-off switch).
- Voltages measured on a 117 Volt A.C. line.
- · Dial turned to low frequency end, no signal. Voltages measured with a vacuum-tube voltmeter. A second voltage reading (marked with an asterisk *) indicates readings made with a 1000 ohm-per-volt meter when use of this instrument would result in appreciably lower readings.

RESISTORS	CONDENSERS
Symbol Description Part No.	Symbol Description Part No.
Symbol Description Part No.	Symbol Description Perr No. (12
†R1 was 22,000, R5 was 470,000 and R9 was 150 ohms when self-bias circuit was employed. See schematic inset.	Alternates 72831 and 72833 also used. Order part num- ber stamped on original part.
CONDENSERS 1-mid., 200 Volts, Papar	172.

MISCELLANEOUS	
Description	Part No.
Carton and Fillers	44R 98
Dial Background	15B 180
Dial Cord	50A 1-3
Dial Crystal	
for 7110, 7114, 7115	24A 4
for 5K11, 5K12, 5K13, 5K14	24A 8
Dial Drum	See C10
Dial Light (#47 Mazda)	81A 1-B
Dia! Light Socket and Leads	82A 7-2
Dial Scale	21B 39-1
Knob	
Plastic Ebony (7T10E)	33A 18-6
Plastic Mahagany (7T10M)	33A 18-4
Plastic Ivory (7110C)	33A 18-5
Plastic Ebony (5K11)	33A 32-3
Plastic Mahagany (5K12)	33A 32-1
Plastic Mahagany & Gold (5K14)	133 A 32-7
Plastic Ivory (5K13)	33A 32-2
Plastic Ivory (5K13)	25A 26
Pointer, for 5K11, 5K12, 5K13, 5K1	14
Brown and Gold	25A 30-1
Brown and Gold	25A 30-2
Shaft, Tuning	28A 11-3
Snap, Buttons (For dial scale) Snap Button, for dial crystal	13A 1-3-47
Snap Button, for dial crystal	13A 1-1-47
Snap Ring (For pointer) Socket, Tube	19A 31-1
Spring, Tension	8/A 10-2
Washer, 'C' (for tuning shaft)	IYD 1-2
Washer, Felt (for knobs)	5A 4-3
Washer, Fibre	5A 2-1
Washer, Spring (for tuning shaft).	4A 6-3-0
1	
*No longer available. Order plast	ic "cabinet.

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