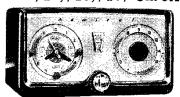
		Admiral	
	Model: 5A32/12	Chassis:	Year: Pre 1955
	Power:	Circuit:	IF:
	Tubes:	<u>.</u>	•
	Bands:		
		Resources	
Riders Volume 2	3 - ADMIRAL 23-16		
Riders Volume 2	3 - ADMIRAL 23-17		

MODELS 5A32/12, /15, /16, 5A33/12, /15, /16, Ch. 5A3



Model 5A32 Mahogany, 5A33 Ivory Operating Voltage: 117 volt AC only. Power: 30 watts.

ALIGNMENT PROCEDURE

- Turn receiver volume control full on (fully clockwise).
- Use an isolation transformer if available, otherwise connect a .1 mfd. condenser in series with low side of signal generator and connect to chassis.
 Caution: Do not connect a ground wire directly to chassis.
- Connect output meter across speaker voice coil.
- Use lowest output setting of signal generator capable of producing adequate output meter indication and proceed in the following sequence.
- Repeat adjustments to insure good results.

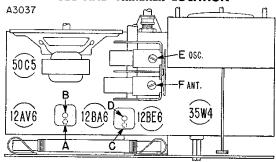
Step	Dummy Antenna in Series with Signal Generator	Connection of Signal Generator (High Side)	Signal Generator Frequency	Receiver Gang Setting	Trimmer Description	Trimmer Designation	Type of Adjustment
1	250 mmfd. condenser	Antenna stator of tuning condenser	455 KC	Gang fully open	2nd IF 1st IF	*A, B *C, D	Maximum output
2	250 mmfd. condenser	Antenna stator of tuning condenser	1620 KC	Gang fully open	Oscillator	E	Maximum output

Mount and set dial pointer to horizontal position with tuning condenser tuned to 1400 KC generator signal; see illustration below.

3 tor lead close to re- connection (signal 1400 KC generator Antenna F Maximu	3	ceiver loop for adequate		1400 KC		Antenna	F	Maximur output
---	---	--------------------------	--	---------	--	---------	---	-------------------

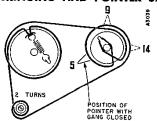
^{*}Adjustments A and C made from the underside of the chassis. If IF transformers have hollow core slugs, these adjustments may all be made from the top of the chassis, if you use alignment tool #98A30-7 obtainable from your Admiral distributor. The bottom IF slug adjustment may be reached through the hollow core in the upper slug.

TUBE AND TRIMMER LOCATION



Adjustments A and C made from underside of chassis.

DIAL STRINGING AND POINTER SETTING



Dial stringing and pointer with solid lines shown with gang closed. Dashed line pointer positions (1400 KC and 900 KC) shown when tuning condenser is tuned to generator signal.

OPERATING RADIO MANUALLY

To operate the radio manually, the "Auto-Off-On" switch must be in the "On" position or the radio will not operate.

The radio on-off switch will turn the radio on or off, but will have no control over the appliance or the clock.

TO REMOVE CLOCK FROM CABINET

To remove the clock, proceed as follows:

- 1. Remove the radio chassis from the cabinet.
- Remove the three hexagonal nuts and lock washers which mount the clock movement to the metal cover.
- Carefully remove the clock movement from the cover. Do not unsolder leads unless complete removal of the clock is required. The metal cover mounting the clock to the chassis may be removed if more space is required for servicing the clock.

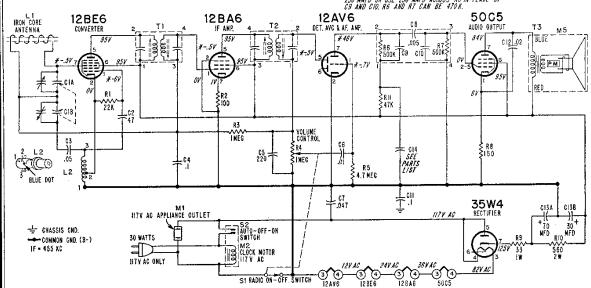
TO REMOVE FIELD AND COIL ASSEMBLY OR TO REMOVE ROTOR

The field and coil assembly and the rotor can be easily removed after the two screws which mount the nameplate are removed.

Note that when the rotor is replaced, the gear on the rotor must drop into the hole in the center of the gear plate and mesh with the clock gear.

MODELS 5A32/12, /15, /16, 5A33/12, /15, /16, Ch. 5A3

C3 AND CIO FOTAL 250 NMFD WHEN REPLACING WITH MONYUDIAL COMPONENTS, USE ANY COMBINATION TOTALING 250 NMFD OR USE 250 MMFD ACROSS RG IN PLACE OF C3 AND CIO RG AND RT CAN BE 410 M. 50C5



*These voltage readings will be either lower or practically zero if taken with a 1000 ohm-per-volt meter.

VOLTAGE DATA

Voltages shown on schematic diagram.

- All readings made between tube socket terminals and B minus (terminal of On-Off switch).
- Measured on 117 Volt AC line.
- Volume control minimum; dial turned to low frequency end.

COIL, TRANSFORMERS, ETC.

• Voltages measured with Vacuum Tube Voltmeter.

	R1 22.000 ohms, 1/2 watt
i	P2 100 chme 1/2 watt 60B 8-101
	R3 1 megohm, 1/2 watt
ı	R3 1 megohm, ½ watt
ĺ	
	R5 4.7 megohns, ¹ / ₄ watt. 60B 8-475 R6 500,000 ohms, ¹ / ₄ watt
1	\$R6 500,000 ohms, 1/4 watt
ĺ	8R7 500,000 ohms, ¼ watt
ĺ	RX ISH onms 4/2 Watt
l	PQ 33 ahme I watt DID 20-3
١	R10 560 ohms 2 wattsbub 20-501
۱	R11 47,000 ohms, ½ watt
1	nii 47,000 Omma, 12 Wull
1	A-1127110=20
	CONDENSERS
١	ClA 290 mmid, max., Ant. } cop 20
ı	ClB 104 mmid, max., Osc. (gang., bab 39
Į	(Didi didis spotwerded to
l	dana)
ĺ	C2 47 mmfd. ceramic
ŀ	
	C4 .1 mfd, 200 volts, paper64B 1-30
	C5 220 mmfd, ceramic
į	C6 .01 mfd, 400 volts, paper64B 1-25
ļ	C7 .047 mfd, 400 volts, paper65A 13-5
Ĺ	CS .005 mid. 400 Voits
ı	\$C9 (See note
ļ	(C10) on schematic
ļ	Cll .1 mfd, 200 volts, paper 64B 1-30
ŀ	C12 .02 mfd, 400 volts, paper64B 1-24
1	C13A 70 mid, 150 volts)
1	C13A 70 mid, 150 volts } C13B 30 mid, 150 volts } elect67A 17
1	
ı	Cl4 (in later sets) 64B 1-28
1	14 mid, 150 volts, elect.
١	C14 (in later sets)
ļ	Spart of couplate (part No. 63A 5-4). Replace
1	with exact duplicate or individual compon-
1	ents Note that numbers 1, 2, 3, 4, on
1	schematic correspond to lead numbers print-
1	ed on face of couplate.
1	

RESISTORS

Description

Symbol

Part No.

Symbo	l Description	Part No.
Ĺi	Rod Antenna and	
	Cabinet Back	69C 156
L2	Coil, Oscillator	69A 52-4
T1	Transformer, 1st IF	72B 28-7
T2	Transformer, 2nd IF	72B 28-7
T3	Coil, Oscillator Transformer, 1st IF Transformer, 2nd IF Transformer, Output	98A. 21
Ml	Outlet, Appliance	87A 21-1
M5	Speaker (4" PM) and	
	Output Transformer Switch, Radio On-Off Switch Auto-On-Off	78B 72~l
Şl	Switch, Radio On-Off	Part of R4
Š2	Switch Auto-On-Off	
	(part of M4)	91C 4-14
	Couplate	63A5-4
	(part of M4)	, C10)
	MISCELLANEOUS P.	ARTS
Baffle	Ring, Speaker et, Dial Pointer Support et, Tuning Shaft n and Fillers	12B 49
Brack	et. Dial Pointer Support	15A 498
Brack	et. Tuning Shait	15A 698
Carto	and Fillers	44B 228
Clip.	IF Transformer Mounting	72B 28-10
Comp	IF Transformer Mounting ression Ring (for pointer)	19A 31-10
Dial (Cord (2017) length needed)	5UA 1-3
Drum	Dial Pointer	17A 27
Grom	met, Rubber (gang mtg.)	12B 1-19
Line	Cord and Plug	89A 34-1
Manu	al, Customer Instruction	41B 20-11
Shaft.	Dial Pointer	28A 42-2
Sleev	e (for pointer shaft)	27A 124
Sleev	e. Tuning (brass)	27A 157
Socke	Did Pointer. met, Rubber (gang mtg.) Cord and Plug al, Customer Instruction Dial Pointer e (for pointer shaft) e, Tuning (brass) t, Tube	
pla	rt, Tube in h grounding strap	87A 24-2
wit	h grounding strap	87A 24-3
Speal	er Gasket	12B 49
Space	er, Metal "T" (for	
mtg	. gang)	29A 2-1-71
Speed	t grounding strap	10 00 5
sha	ft sleeve)	ZB 10-28-5
Sprin	ft sleeve)g, Dial Cord Tension	IAC 1-2
Wrash	er. "C" (for pointer drum).	4A.4-D
Wash	er, Spring (for tuning shaft	J4A 6-10-0

CABINET PARTS	•
Description	Past No.
Cabinet, Plastic Mahogany Ivory	.34D 56-2 .34D 56-3
Escutcheon and Speaker Grille Assembly	
Knob Off-Volume, Mahogany Off-Volume, Ivory Tuning, Mahogany Tuning, Ivory	33D 55-23
Pointer and Hub Assembly (includes compression ring) Mahogany Ivory Washer, Felt (for dial pointer) Washer, Felt (for tuning knobs)	A3732 A3733 5A 4-3

CLOCK PARTS

M2 Clock, Complete for 117 volts, 60 cycles for 117 volts, 50 cycles for 117 volts, 50 cycles Back Cover (fibre). Bumper, Sleep Switch (rubber). Cover (metal) Field and Coil Assembly for 117 volts, 60 cycles for 117 volts, 50 cycles for 117 volts, 50 cycles for 117 volts, 52 cycles. Knob, Clock Mahogany	91C 7-3 91C 7-3 32A 151 12B 3-6 15B 838 91C 4-15 91C 4-17 91C 4-19
Notry Rotory for 117 volts, 60 cycles. for 117 volts, 50 cycles. for 117 volts, 25 cycles. Window (plastic)	91C 4-16 91C 4-18 91C 4-20