Westinghouse Electric Corp.

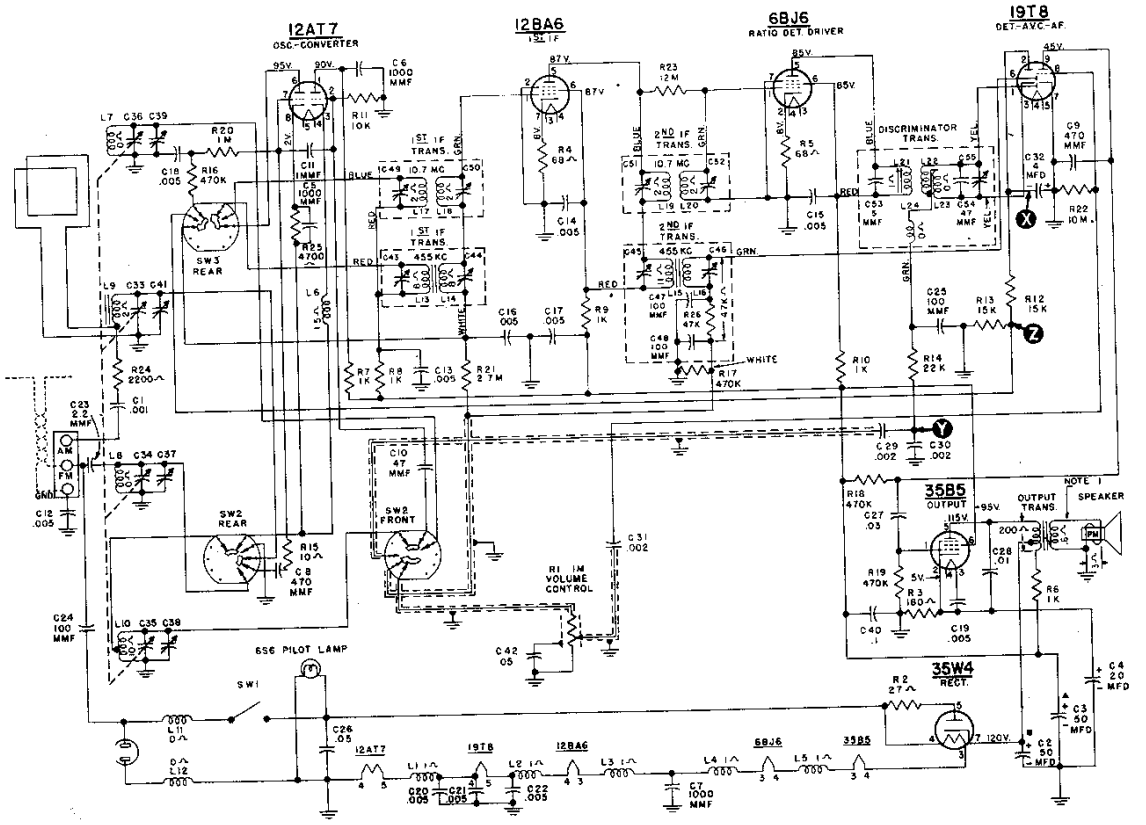
	Model: H-182	**Chassis:**	**Year:** Pre 1950
	Power:	**Circuit:**	**IF:**
	Tubes:		
	Bands:		

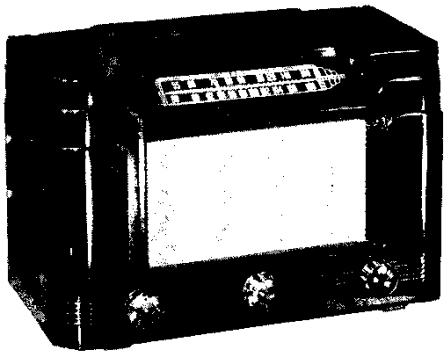
Resources

- Riders Volume 18 - WESTINGHOUSE 18-20
- Riders Volume 18 - WESTINGHOUSE 18-21
- Riders Volume 18 - WESTINGHOUSE 18-22

MODEL H-182

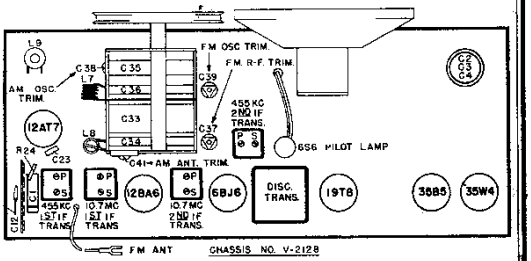
WESTINGHOUSE ELECTRIC CORP.

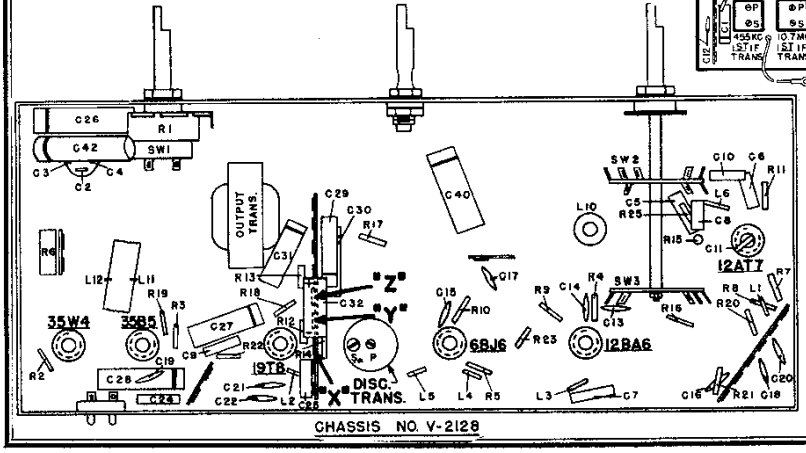


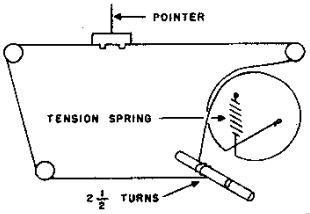


NOTE
1. VOICE COIL DISCONNECTED.
2. SELECTOR SWITCH SW2 AND SW3 IS SHOWN IN EXTREME COUNTER-CLOCKWISE POSITION OR AM BAND. SECOND POSITION CLOCKWISE IS FM BAND.
3. ALL VOLTAGES MEASURED FROM CHASSIS (GND) USING 20,000 OHMS/VOLT METER—LINE VOLTAGE 117 VAC. READINGS SHOULD BE AS SHOWN ± 20%.
4. THE RATINGS OF SOME COMPONENTS USED IN PRODUCTION MAY VARY SLIGHTLY FROM THOSE SHOWN ABOVE.

CHASSIS NO. V-2128







WESTINGHOUSE ELECTRIC CORP. MODEL H-182

ALIGNMENT

BROADCAST BAND

Connect an output meter across the speaker voice coil

While making the following adjustments, keep the volume control set for maximum output and the signal generator output attenuated to avoid AVC action.

Step	Connect Signal Generator to —	Signal Generator Frequency	Radio Dial Setting	Adjust
1.	Set Band Switch to AM			
2.	Pin #1 of 12BA6 tube through a 0.1 mfd capacitor	455 kc	1615 kc	Pri. and sec. of 455 kc 2nd I-F trans. for max. output
3.	Stator of tuning capacitor (C33) through a 0.1 mfd capacitor	455 kc	1615 kc	Pri. and sec. of 455 kc 1st I-F trans. for max. output
4.	Radiated signal (no actual connection)	1400 kc	1400 kc	AM osc. trimmer for max. output
5.	Radiated signal (no actual connection)	1400 kc	1400 kc	AM ant. trimmer for max. output (rock in adjustment)
6.	Recheck steps 4 and 5			

FM BAND

Do not align 10.7 mc I-F circuits until all 455 kc I-F adjustments have been completed.

1.	Set Band Switch to FM			
2.	Connect a VTVM between point "X" and ground. (See Figs. 1 and 3.)			
3.	Pin #1 of 12BA6 tube through a .002 mfd mica capacitor	UNMODULATED 10.7 mc	108 mc	Discriminator trans. primary and 10.7 mc. 2nd I-F trans. pri. and sec. for max. voltage.
4.	Reconnect VTVM between points "Y" and "Z". (See Figs. 1 and 3.)			
5.	Pin #1 of 12BA6 tube through a .002 mfd mica capacitor	UNMODULATED 10.7 mc	108 mc	Discriminator trans. secondary for *zero* voltage. The voltage will change polarity as the trimmer is tuned through resonance — tune carefully for zero.
6.	Reconnect VTVM between point "X" and ground.			
7.	Pin #1 of 12BA6 tube through a .002 mfd mica capacitor	UNMODULATED 10.7 mc	108 mc	Discriminator trans. primary and 10.7 mc. 2nd I-F trans. pri. and sec. for max. voltage.
8.	Place a temporary short across C34 (FM R-F tuning capacitor).			
9.	Pin #7 of 12AT7 tube through a .002 mfd mica capacitor	UNMODULATED 10.7 mc	108 mc	Pri. and sec. of 10.7 mc 1st I-F trans. for max. output
10.	Remove short from C34.			
11.	FM ant. terminals through a 300 ohm non-inductive resistor	UNMODULATED 108 mc	108 mc	FM osc. trimmer for max. output
12.	FM ant. terminals through a 300 ohm non-inductive resistor	UNMODULATED 98 mc	98 mc	FM R-F trimmer for max. output (rock in adjustment).
13.	Place a dab of thermal cement on the FM osc. and R-F trimmers to lock adjustment.			

TUBE COMPLEMENT:

1 12AT7 ..... Osc.-Converter
1 12BA6 ..... I-F Amp.
1 6BJ6 ..... Ratio Det. Driver (FM)
1 19T8 ..... Det., AVC, A-F Amp.
1 35B5 ..... Output Amp.
1 35W4 ..... Rectifier

OPERATING VOLTAGE:

105 to 120 volts 50-60 cycles A-C or 105 to 120 volts D-C.

POWER CONSUMPTION: ..... 30 watts

MODEL H-182

WESTINGHOUSE ELECTRIC CORP.

Part No.	Description
V-5608	Background, dial .....
V-5528-1 ..	Baffle and Grille Cloth Assembly .....
V-5607	Bracket Assembly, dial background .....
V-5600	Bracket, cover, back .....
V-5599	Bracket, dial .....
V-5527	Bushing, insulator, control
V-5437S-1 ..	Button, plug .....
V-1153-2 ..	Cabinet, plastic, brown ...
V-1153-1 ..	Cabinet, plastic, ivory ...
RCP10M6102M	Capacitor, .001 mfd 600 v. (C1)
V-5493	Capacitor, dry electrolytic, 50 mfd 150 v. (C2) ..... 50 mfd 150 v. (C3) 20 mfd 25 v. (C4)
R5CC26ZY102M	Capacitor, ceramicon, 1000 mmf (C5, C6, C7) .....
R5CC21ZY471M	Capacitor, ceramicon, 470 mmfd (C8, C9) .....
R1CC21SL470K	Capacitor, ceramicon, 47 mmf (C10) .....
V-5658-1 ..	Capacitor, 1 mmf (C11) ....
V-5596	Capacitor, Hi-Kap .005 mfd (C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22)
V-5658-2 ...	Capacitor, 2.2 mmfd (C23) .
RCM20A101K .	Capacitor, mica, 100 mmf (C24, C25) .....
RCP10M6503M	Capacitor, .05 mfd 600 v. (C26) .....
RCP10M4303M	Capacitor, .03 mfd 400 v. (C27)
RCP10M6103M	Capacitor, .01 mfd 600 v. (C28)
RCP10M6202M	Capacitor, .002 mfd 600 v. (C29, C30, C31) .....
V-4637	Capacitor, electrolytic 4 mfd 50 v. (C32) .....
V-5494	Capacitor, variable, 2 gang (C33, C34, C35, C36, C37, C38, C39) .....
RCP10M4104M	Capacitor, 0.1 mfd 400 v. (C40)
V-4992	Capacitor, trimmer (C41) .
RCP10M4503M	Capacitor, .05 mfd 400 v. (C42)
V-4638	Choke, filament (L1, L2, L3, L4, L5) .....
V-4193S-1 ..	Clamp, dial cord .....
V-4886	Coil, filament (L6) .....
V-5545	Coil, oscillator, FM (L7) .
V-5546	Coil, RF, FM (L8) .....
V-5605	Coil, antenna loading (L9)
V-5514	Coil, oscillator, AM (L10)
V-5743	Coil, choke, antenna (L11, L12)
V-5517	Control, volume, 1.0 megohm (R1) and switch (SW1)
V-4304-14 ..	Cord Assembly, dial drive
V-5522	Cord, power, A-C (including socket) .....
V-5610-1 ..	Cover Assembly, back for brown cabinet (including loop, hinge, terminals, cord and socket)
V-5610-2 ..	Cover Assembly, back for ivory cabinet (including loop, hinge, terminals, cord and socket
V-5523	Dial .....
V-4236	Gasket, felt, speaker .....

Part No.	Description
V-5602-1 ..	Hinge, cover, for brown cabinet .....
V-5602-2 ..	Hinge, cover, for ivory cabinet .....
V-5603	Insulator, retainer for power cord .....
V-5560-1 ..	Knob, FM-AM .....
V-5558-1 ..	Knob, tuning .....
V-5559-1 ..	Knob, volume .....
No. 6S6 ...	Lamp, pilot light .....
V-5638	Loop Assembly, antenna .....
V-3891	Nut, speed, baffle mounting
V-5721S ...	Palnut, 3/8-32 .....
V-5549	Plug, power cord (mounted on chassis) .....
V-4213	Pointer, dial .....
V-4187	Pulley .....
RC20AE270K .	Resistor, 27 ohms ½ w. (R2)
RC20AE181J .	Resistor, 180 ohms ½ w. (R3)
RC20AE680J .	Resistor, 68 ohms ½ w. (R4, R5)
RC40AE102M .	Resistor, 1000 ohms 2 w. (R6)
RC20AE102M .	Resistor, 1000 ohms ½ w. (R7, R8, R9, R10) .....
RC20AE103K .	Resistor, 10,000 ohms ½ w. (R11)
RC20AE153J .	Resistor, 15,000 ohms ½ w. (R12, R13) .....
RC20AE223M .	Resistor, 22,000 ohms ½ w. (R14)
RC20AE100K .	Resistor, 10 ohms ½ w. (R15)
RC20AE474M .	Resistor, 470,000 ohms ½ w. (R16, R17, R18, R19) .....
RC20AE105M .	Resistor, 1 megohm ½ w. (R20)
RC20AE275M .	Resistor, 2.7 megohms ½ w. (R21)
RC20AE106M .	Resistor, 10 megohms ½ w. (R22)
RC20AE126K .	Resistor, 12 megohms ½ w. (R23)
RC20AE222K .	Resistor, 2200 ohms ½ w. (R24)
RC20AE472K .	Resistor, 4700 ohms ½ w. (R25)
V-5050S-101	Screw #10-32, chassis mounting
V-5530	Shaft Assembly, dial drive
V-3344-2 ..	Sleeve, spacer, variable capacitor mounting .....
V-4292S-1 .	Socket, miniature molded, 7 prong .....
V-5556-1 ..	Socket, miniature molded, 9 prong .....
V-4989	Socket, pilot light .....
V-5533	Speaker, 5" P.M. .....
V-3248S	Spring, dial drive .....
V-5534	Switch, selector (SW2, SW3)
V-5587	Teenut .....
V-4684	Terminal Board, ANT-GND ....
V-5537	Transformer, output .....
V-5535	Transformer, 1st I-F, AM (C43, C44, L13, L14) .....
V-5539	Transformer, 2nd I-F, AM (C45, C46, C47, C48, L15, L16, R26) .....
V-5540	Transformer, 1st I-F, FM (C49, C50, L17, L18) ....
V-5540	Transformer, 2nd I-F, FM (C51, C52, L19, L20) .....
V-5538	Transformer, discriminator (C53, C54, C55, L21, L22, L23, L24) .....
V-5606-1 ..	Washer, felt, for knobs ....
V-5526	Washer, insulator, for controls

CAUTION: One side of the power line is connected directly to the chassis in this model. Care must be exercised to avoid contacting the radio chassis and ground at the same time — ***serious shock may result.*** When making repairs or adjustments to the radio, it is recommended that the chassis be isolated from the power line by means of an isolation transformer.