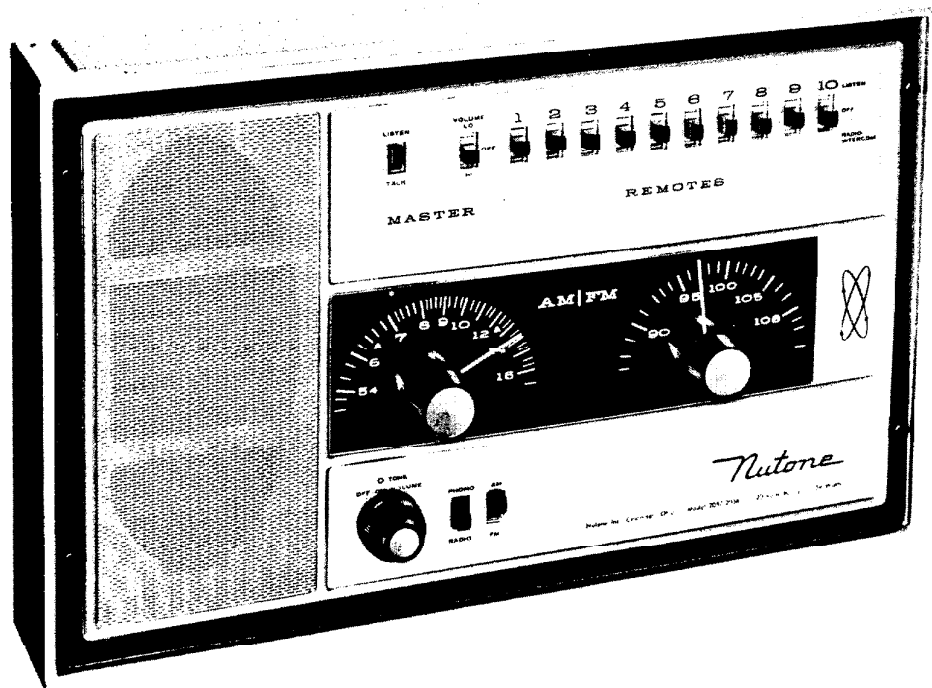


Nutone

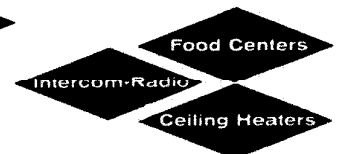
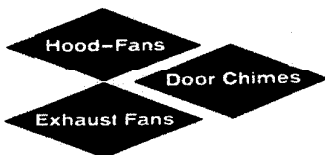
SERVICE MANUAL



AM-FM RADIO and INTERCOM

Models 2057 or 2058

NUTONE, INC., Madison and Red Bank Roads, Cincinnati 27, Ohio



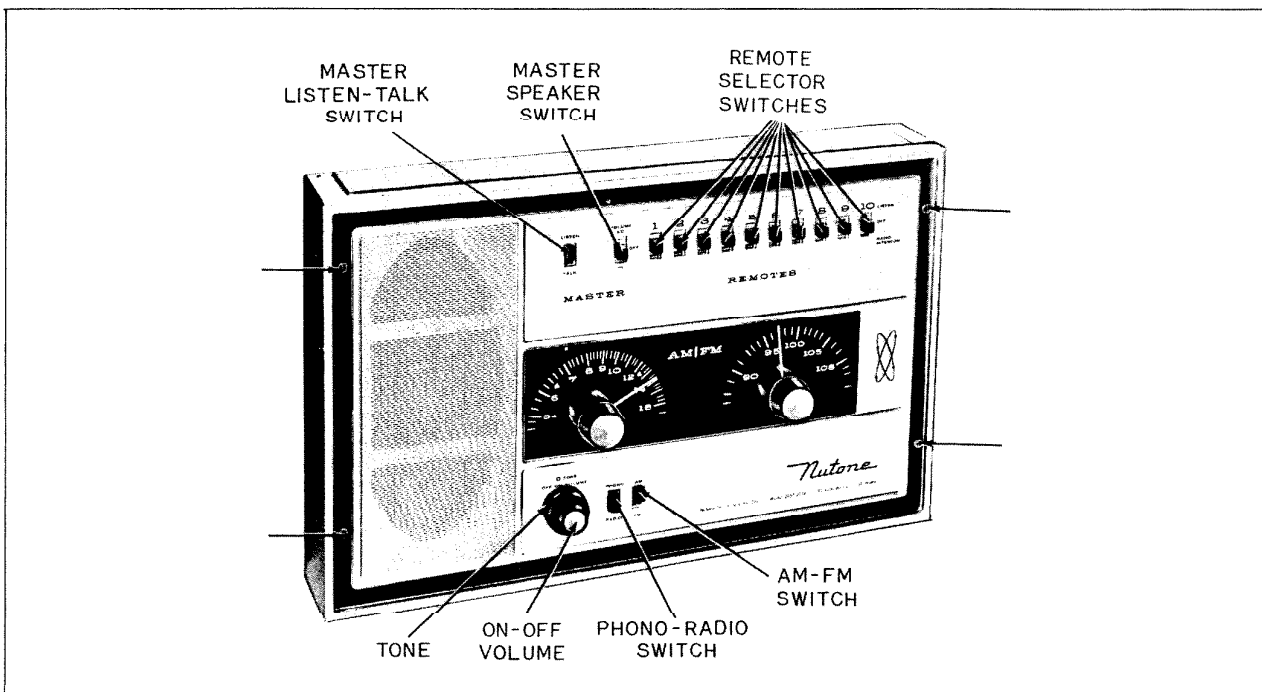


Fig. 1. Master station front panel.

CHECK-OUT PROCEDURE

Failure to pass any of these tests indicates a fault that should be remedied—See “Troubleshooting,” page 3.

1. Set all Remote station selector switches to the OFF or Center position.
2. Set the Master Volume switch to the “Hi” position.
3. Turn unit on with Off-On-Volume knob and turn control two-thirds clockwise from its Off position.
4. Set Phono-Radio switch to the Radio position.
5. Set AM-FM switch to the AM position.
6. Allow radio to warm up. Tune in an AM radio station and check for reception.
7. Set AM-FM switch to the FM position. Tune in an FM radio station and check for reception.
8. With radio playing, push all Remote station selector switches on Master downward to the Radio-Intercom position. Check all Remote speaker stations for radio reception. Check operation of all Remote speaker Volume controls.
9. Talk from Master to the Remote speaker stations

while radio is playing. Check for intercom reception at all Remote speakers.

NOTE: Intercom gain has been preset during manufacture for best operation in most installations. If necessary, the intercom level can be changed by adjustment of variable control R19 (located on fiber shield adjacent to master speaker).

10. Hold Talk-Listen switches at Remote speaker stations in Talk position; talk from each Remote speaker station to Master while radio is playing. Check for intercom reception at Master.
11. With radio playing, push all Remote station selector switches on Master upward to the Listen Position. Leave Talk-Listen switches at Remote speaker stations in the Listen position and talk from each Remote speaker station to the Master. Check for intercom reception at Master.
12. Return all Remote station selector switches to Radio-Intercom or Center-Off position. Connect signal from phonograph into Phono jack on Master. Place Phono-Radio switch in the Phono position. Check for phono reception at Master.

MASTER STATION DISASSEMBLY INSTRUCTIONS

Partial Disassembly (For Minor Servicing-Tubes, Etc.)

1. Remove four screws from front panel.
2. Slide Master unit forward until mounting pins on each side of the chassis drop into slots on front side of support Brackets (See Fig. 15). This allows the unit to hang forward in a servicing position.

NOTE: To operate the unit in this position

attach a standard TV Cheater Cord from plug on chassis to convenient AC wall outlet. Reverse the plug if hum occurs.

Complete Disassembly

1. Perform steps 1 and 2 under “Partial Disassembly.”
2. Disconnect blue antenna wire by removing wire nut.
3. Disconnect twin lead by removing wire nut.

4. Disconnect white lead connected to mounting bracket by removing screw.
5. Disconnect output leads (green and black) from output transformer and (red and black) from Master speaker. These leads have slip-on connectors.
6. Remove input leads (red and black) on main board (P20-P21).
7. Remove 4 machine screws that secure terminal board to main chassis. Remove terminal board (with remote station wiring still attached).
8. Slide Master unit back until mounting pins on sides of chassis are aligned with vertical slots of support brackets. Lift unit up and out.

Should servicing of unit require that the chassis be removed from the front panel, proceed as follows after performing steps 1 through 8 above.

1. Pull and remove Volume and Tone knobs.
2. Loosen set-screws and remove AM-FM tuning knobs.
3. Remove 4 screws which secure entire chassis to front panel. Remove chassis.
4. To gain access to printed circuitry on bottom of chassis remove 3 screws that secure dial glass and dial background. Remove AM-FM pointers and remove dial panels.

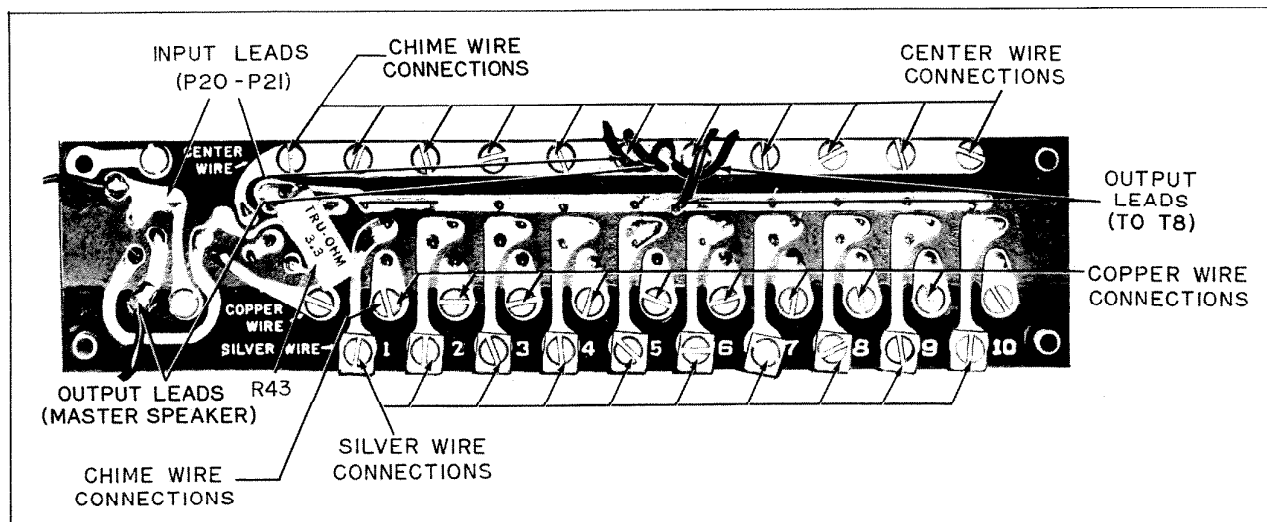


Fig. 2. Bottom view of printed circuit terminal board.

TROUBLESHOOTING

The following trouble chart is useful in isolating the more common troubles. Remembering that common circuitry is connected to perform several of

the different operations of the Radio-Intercom system. Therefore, one source of trouble may appear in several of the different operations.

TROUBLE CHART

TROUBLE	SUGGESTED CHECK POINTS
System "dead." Tubes do not light.	Make sure power is being applied. Check switch on Master Volume Control (R23).
System "dead." All tubes light.	Check tubes (V6, V7, V8) and their associated circuitry. Check voltage and resistance readings. Check for open output transformer (T8). Replace defective components.
Tubes light but radio is "dead," on both AM and FM. All other operations normal.	Check V4 and its associated circuitry. Check voltage and resistance readings associated with V4. Check AM-FM switch. Replace defective components.
Tubes light. AM "dead." FM reception normal. All other operations normal.	Check V1 and its associated circuitry. Check AM-FM switch. Replace defective components.
Tubes light. FM "dead." AM reception normal. All other operations normal.	Check tubes (V2, V3, V5) and their associated circuitry. Check AM-FM switch. Replace defective components.
Tubes light. Intercom operations "dead." AM-FM reception normal. Phono operation normal.	Check Q1 and associated circuitry. Check Talk-Listen switch. Replace defective components.
One or more Remote stations inoperative in transmission, reception, or both.	Check inoperative Remote stations for defective wiring, and connections at both the Remote and Master stations. Check Remote Stations Selector Switches (M6 thru M16) and Talk-Listen Switches (M17 or M18) for proper contact. Check for open Volume Control (R51) or open speakers. Check resistor (R50) of Model 2006 Remote Speaker Station.

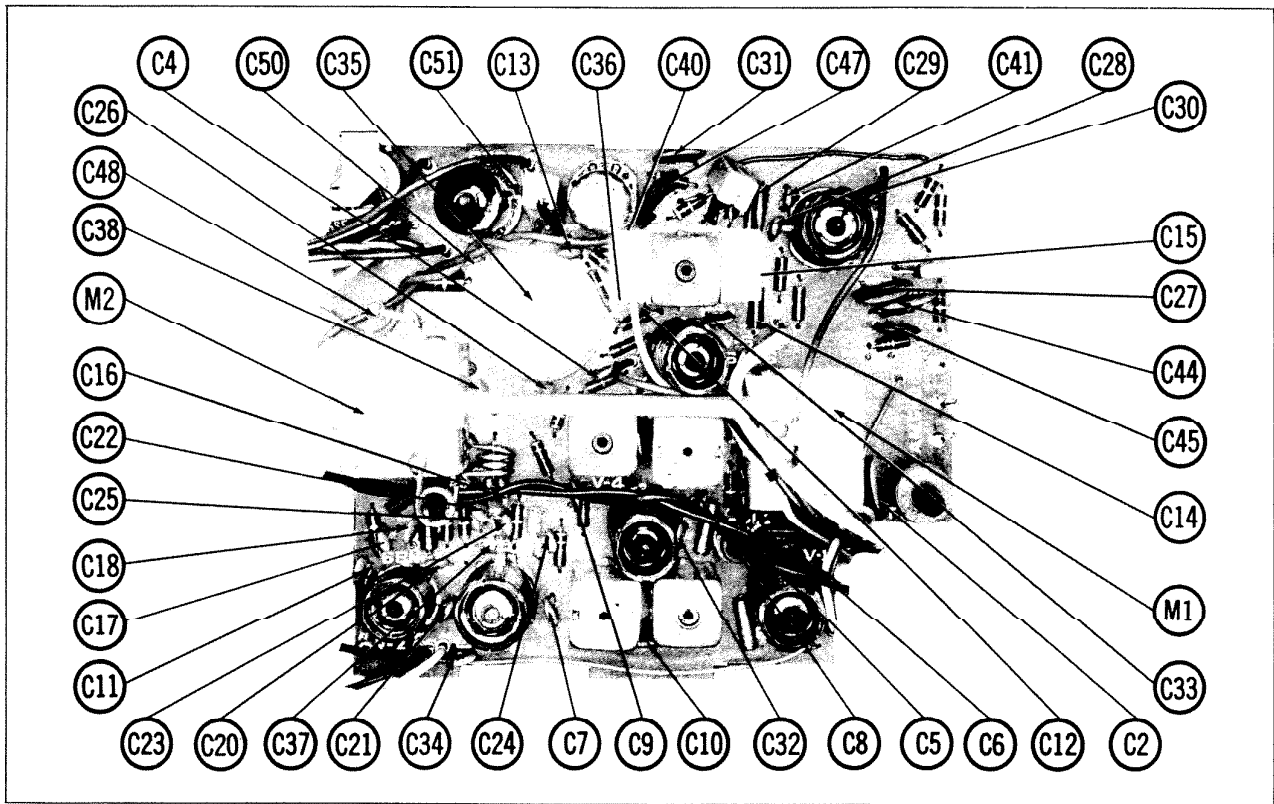


Fig. 3A. Top view of master chassis printed board.

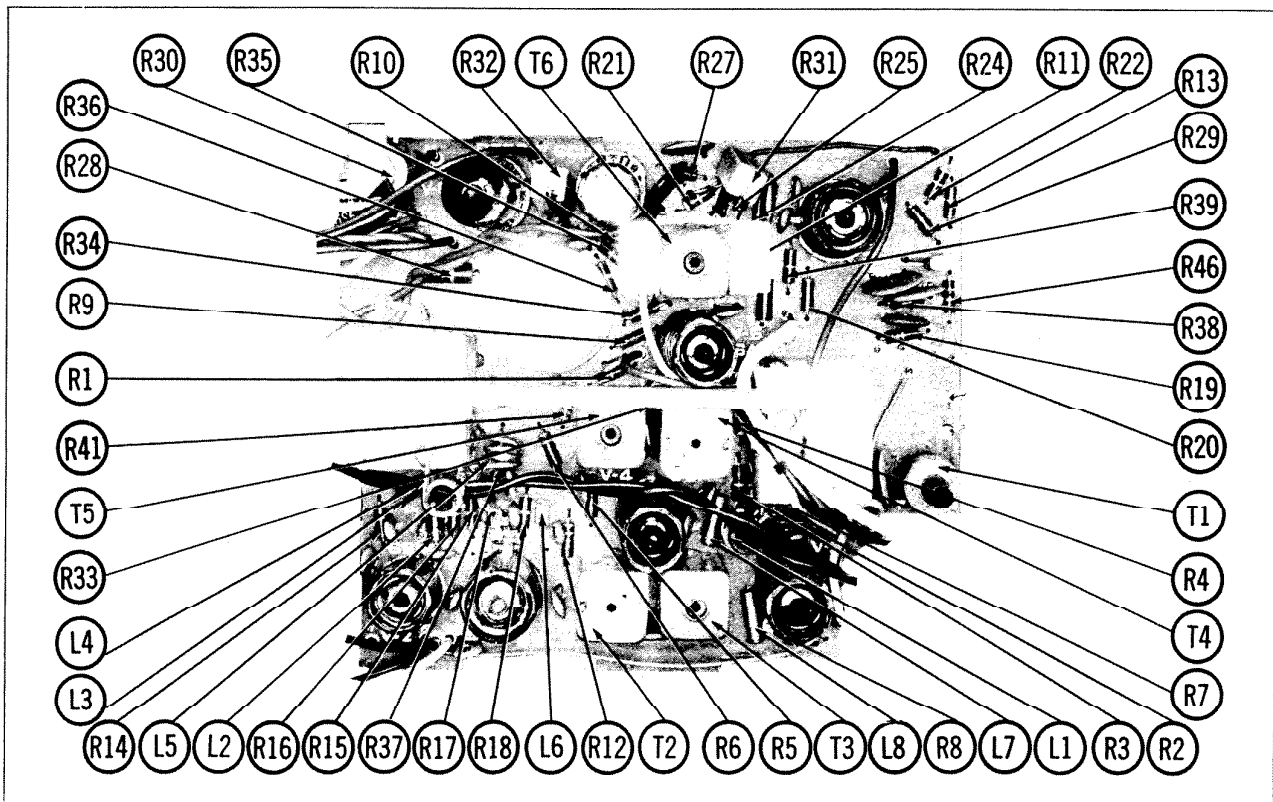


Fig. 3B. Top view of master chassis printed board.

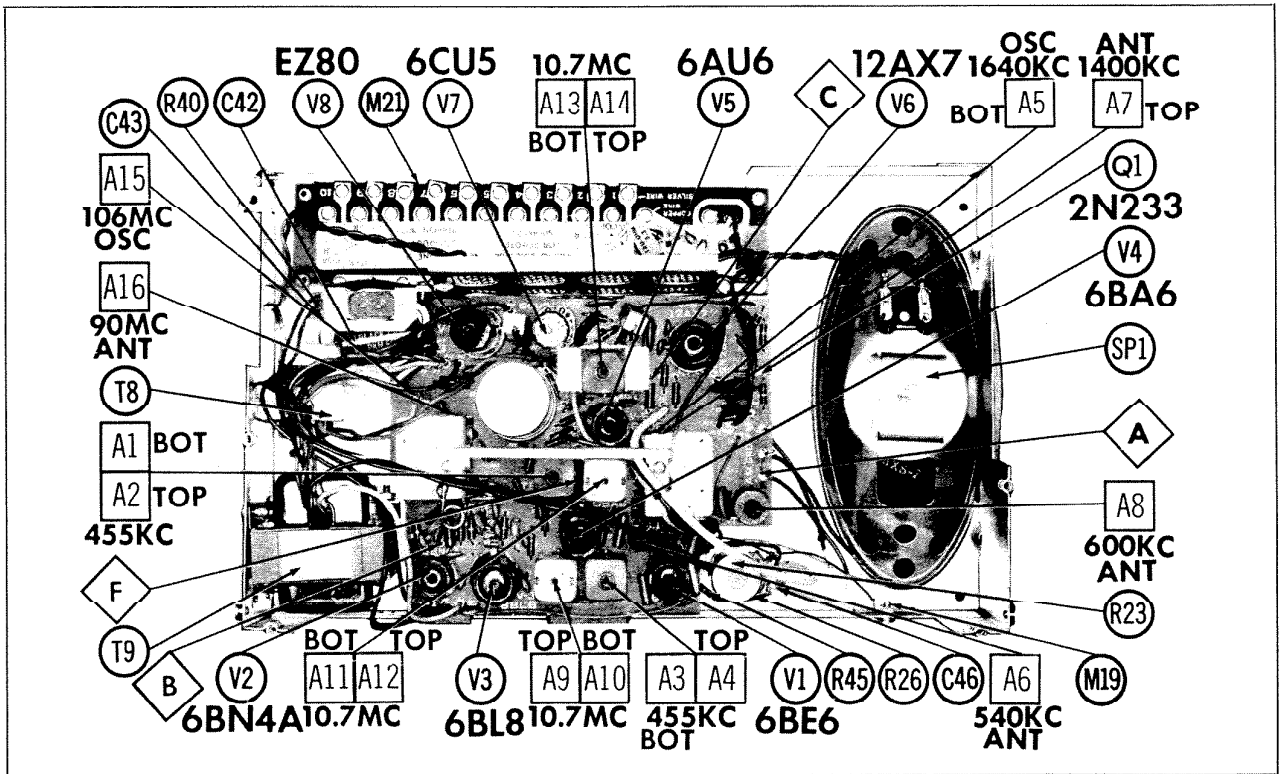


Fig. 4. Top view of master chassis.

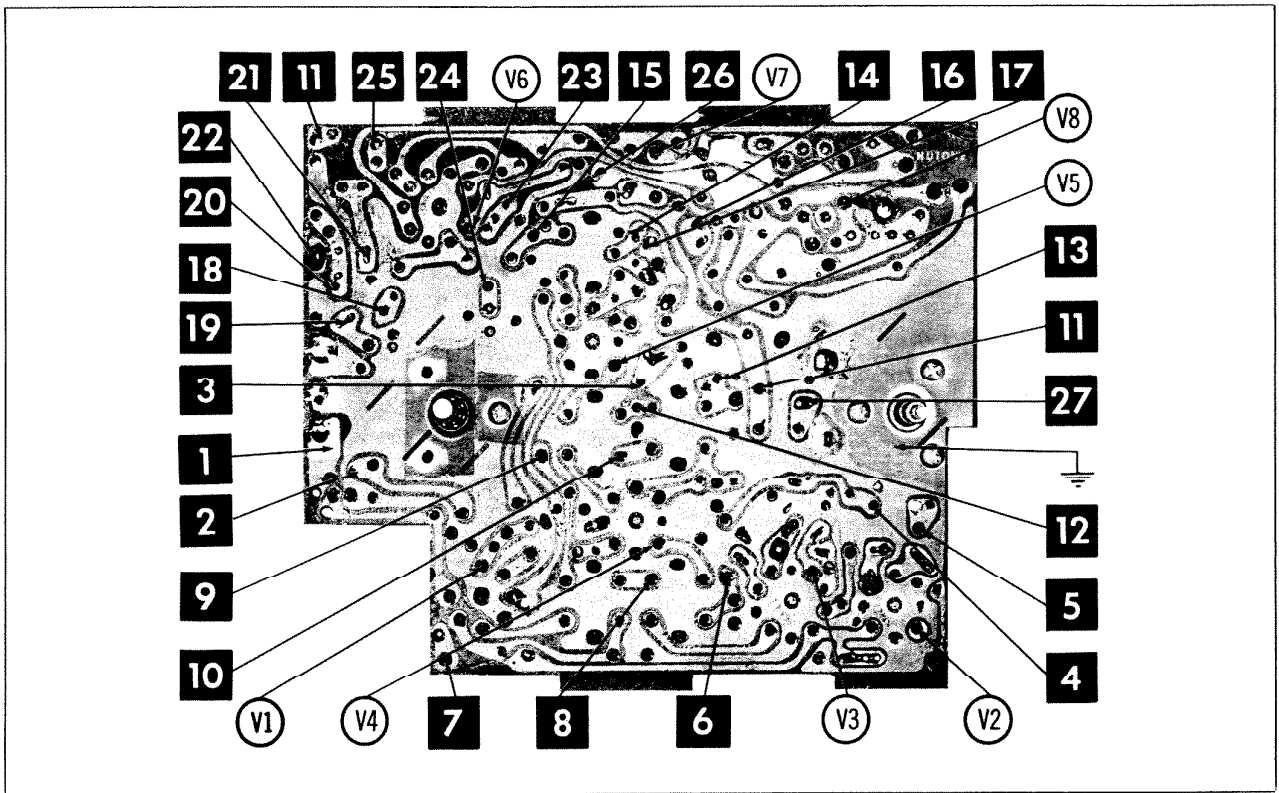


Fig. 5. Bottom view of master chassis printed board, with location of printed circuit points as shown on schematic in Fig. 19.

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Prealignment Instructions

Output of signal generator should be no higher than necessary to obtain an output reading.

Volume control should be at minimum position, and Radio/Phono switch in Radio position.

Alignment Tools—Standard for hex or slotted type adjustments.

AM IF Alignment

Set AM-FM switch to the AM position.

Dummy Antenna	Signal Generator Coupling	Signal Generator Frequency	Radio Dial Setting	Connect VTVM	Adjust	REMARKS
1. .01 mfd	High side to pin 1 (grid) of 6BA6 (V4). Low side to chassis.	455KC (400 cycle mod.).	Tuning gang fully open.	DC probe to point F. Common to chassis.	A1, A2	Adjust for maximum deflection. Keep generator output at a minimum to obtain an output reading.
2. .01 mfd	High side to pin 7 (grid) of 6BE6 (V1). Low side to chassis.	455KC (400 cycle mod.).	Tuning gang set at mid-scale.	DC probe to point F. Common to chassis.	A3, A4	Adjust for maximum deflection.

AM RF Alignment

3. 50 mmf	High side to ant. terminal (point A). Low side to chassis.	1640KC (400 cycle mod.).	Tuning gang fully open.	DC probe to point F. Common to chassis.	A5 Trimmer	Adjust for maximum deflection.
4. 50 mmf	High side to ant. terminal (point A). Low side to chassis.	540KC (400 cycle mod.).	Tuning gang fully closed.	DC probe to point F. Common to chassis.	A6	Adjust for maximum deflection.
5. 50 mmf	High side to ant. terminal (point A). Low side to chassis.	1400KC (400 cycle mod.).	1400KC	DC probe to point F. Common to chassis.	A7 Trimmer	Adjust for maximum deflection.
6. 50 mmf	High side to ant. terminal (point A). Low side to chassis.	600KC (400 cycle mod.).	600KC.	DC probe to point F. Common to chassis.	A8	Adjust for maximum deflection. Correct adjustment of T1 occurs at peak with slug farthest out. Repeat Steps 5 and 6.

FM IF Alignment Using AM Signal Generator and VTVM (Alternate alignment method)

NOTE: To insure good sensitivity it is preferable to use FM signal generator procedure on page 7.

Connect two matched 100K \pm 1% resistors in series from point C to chassis. The junction of these resistors is alignment point D as shown on the schematic. Use only enough generator output to provide a usable indication on the VTVM.

Set AM-FM switch to the FM position.

Dummy Antenna	Signal Generator Coupling	Signal Generator Frequency	Radio Dial Setting	Connect VTVM	Adjust	REMARKS
7. .01 mfd	High side to point B. Low side to chassis.	10.7MC (Unmod).	Point of non-interference.	DC probe to point C. Common to chassis.	A9, A10, A11, A12, A13	Adjust for maximum deflection.
8. .01 mfd	High side to point B. Low side to chassis.	10.7MC (Unmod).	Point of non-interference.	DC probe to point E. Common to point D.	A14	Adjust for zero reading. A positive or negative reading will be obtained on either side of the correct setting.

ALIGNMENT INSTRUCTIONS (cont'd)

FM IF Alignment Using FM Signal Generator and Oscilloscope

Use frequency modulated signal with 60% modulation 450 kc sweep. Use 60% sawtooth voltage in scope for horizontal deflection.

Dummy Antenna	Signal Generator Coupling	Signal Generator Frequency	Radio Dial Setting	Connect Scope	Adjust	REMARKS
7. .01 mfd	High side to pin 1 (grid of 6BA6 (V4). Low side to chassis.	10.7MC (450KC sweep).	Point of non-interference.	Vert. Amp. to point C. Low side to chassis.	A11, A12 A13	Disconnect stabilizing capacitor (C14). Adjust for curve of maximum amplitude and symmetry similar to Fig. A.
8. .01 mfd	High side to pin 2 (grid) of 6BL8 (V3). Low side to chassis.	10.7MC (450KC sweep).	Point of non-interference.	Vert. Amp. to point C. Low side to chassis.	A9, A10	Adjust for curve of maximum amplitude and symmetry similar to Fig. A.
9. .01 mfd	High side to pin 1 (grid) of 6AU6 (V5). Low side to chassis	10.7MC (450KC sweep).	Point of non-interference.	Vert. Amp. to point E. Low side to chassis.	A14	Reconnect stabilizing capacitor (C14). Adjust so that 10.7 MC occurs at center of crossover lines similar to Fig. B.
10. .01 mfd	High side to pin 2 (Grid) of 6BL8 (V3). Low side to chassis.	10.7MC (450KC sweep).	Point of non-interference.	Vert. Amp. to point E. Low side to chassis.	A9, A10, A11, A12	Observe detector curve (Fig. B) at low signal level. If necessary, slightly retouch A9, A10, A11 and A12 for maximum straightness of crossover lines.

FM RF Alignment

Dummy Antenna	Signal Generator Coupling	Signal Generator Frequency	Radio Dial Setting	Connect VTVM	Adjust	REMARKS
11.	High side to FM antenna terminal. Low side to chassis	106MC (Unmod.)	106MC.	DC probe to Point C. Common to chassis.	A15	Adjust for maximum deflection.
12.	High side to FM antenna terminal. Low side to chassis	90MC (Unmod.)	90MC.	DC probe to Point C. Common to chassis.	A16	Adjust for maximum deflection. Check tracking. If necessary expand or compress L4 and L5 coil turns. Repeat Steps 11 and 12 until no further improvement results.

Hum Adjust

Connect 3.3 ohm load and meter to green color-coded lug on output transformer and ground. Adjust hum balance for minimum reading.

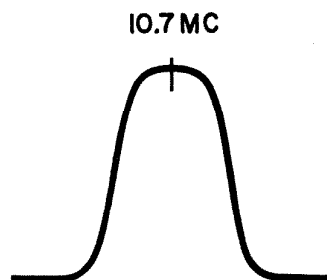


Fig. A

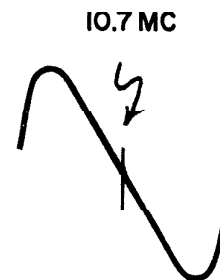


Fig. B

INSTALLATION INSTRUCTIONS

REMOTE SPEAKER STATIONS

General

The following four models of remote speakers can be used in conjunction with the Nutone AM-Radio and Intercom system provided the necessary and proper rough-in frames have been previously installed.

1. Model 2025—4-inch standard speaker (Fig. 6)
2. Model 2026—5-inch full-range speaker (Fig. 6)
3. Model 2020—8-inch hi-fidelity speaker (Fig. 11)
4. Model 2006—3½-inch speaker, outside door remote (Fig. 7)

The connections for ten remote speaker stations are provided on the printed-circuit terminal board at the master station. The same or any combination of the above speaker models can be connected to one or more of the ten different sets of terminals to comprise the desired number of remote stations. It is possible to use more than ten remote speakers (within limits) by connecting extra speakers to occupied sets of terminals.

Model 2025 and 2026 speakers are used in inside remote-station installations and are mounted to the same type of rough-in frame.

The Model 2020 speaker may be used in both inside or outside remote-station installations. An inside installation of the Model 2020 speaker differs from that of an outside installation due to differences in construction of the required rough-in frames. The rough-in frame for inside installations allows the speaker frame to mount flush against the wall (Fig. 10). The rough-in frame for outside installations protrudes from the wall (Fig. 12). With this type of rough-in frame construction, the seal around the speaker plate is secured to all four sides of the rough-in frame, thus providing the speaker and its associated components protection from the weather.

The Model 2006 speaker is designed for use in outside door-remote installations. A gold anodized frame finish and a seal around the speaker provide protection from the weather.

Installing Model 2006, 2025, and 2026 Remote Speakers

1. Connect the three-conductor wire in wall frame to the terminal strip on back of speaker as shown by instruction label on speaker magnet frame (Fig. 8).
2. Align mounting holes of speaker unit with holes in rough-in frame. Fasten in place with screws provided as shown by arrows in Figs. 6 and 7.

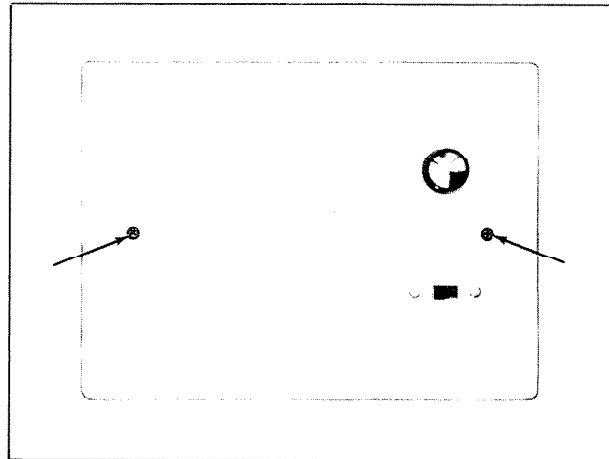


Fig. 6. Model 2025 and 2026 inside remote speaker station.

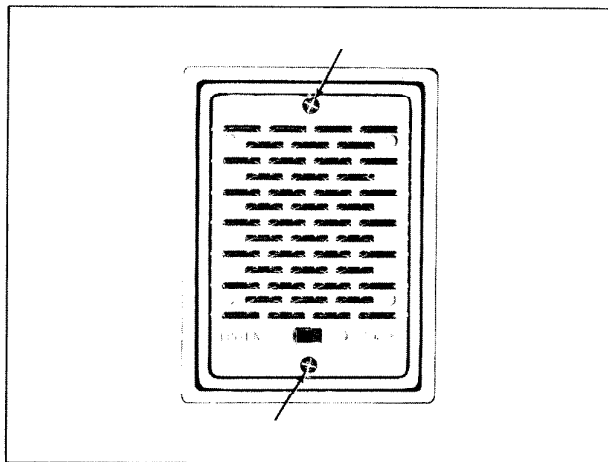


Fig. 7. Model 2006 outside door remote speaker station.

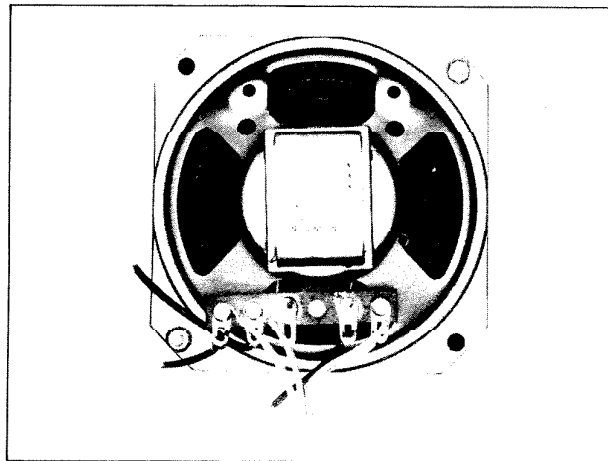


Fig. 8. Speaker connections for Models 2006, 2025, and 2026 remote stations.

**Inside Installation of Model 2020
Remote Speaker**

1. Remove and discard four nuts from mounting screws (Fig. 9) which secure the finished frame to the speaker plate (see instruction label on finished frame). Remove the four mounting screws and frame from the speaker plate.
2. Two slots are provided in the back edge of the speaker guard plate. Position these slots over studs on the rough-in frame and lock in place by sliding speaker unit to the left. This supports the speaker while both hands are left free to make connections to the speaker terminals on the speaker guard plate (Fig. 10).
3. Connect the three-conductor wire in wall frame to the speaker terminals on the speaker guard plate as follows (Fig. 10):
 - a. Silver wire to terminal labeled silver
 - b. Center wire to terminal labeled center
 - c. Copper wire to terminal labeled copper.
4. Remove speaker unit from studs on rough-in frame. Align holes in the finished frame and speaker plate with the holes in the rough-in frame. Fasten speaker unit in place with four mounting screws previously removed under Step 1 above and shown by arrows in Fig. 11.

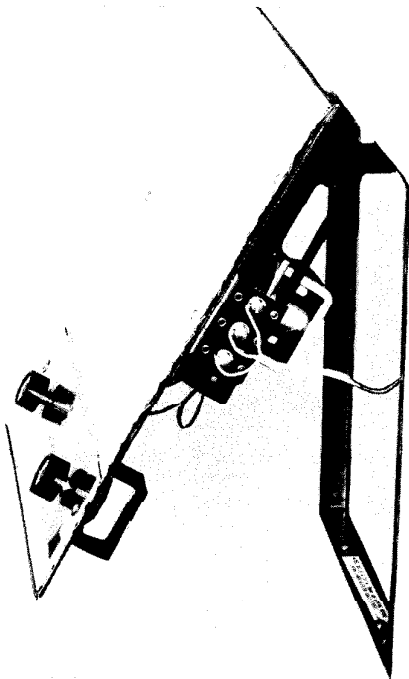


Fig. 10. Inside installation of Model 2020 remote speaker station.

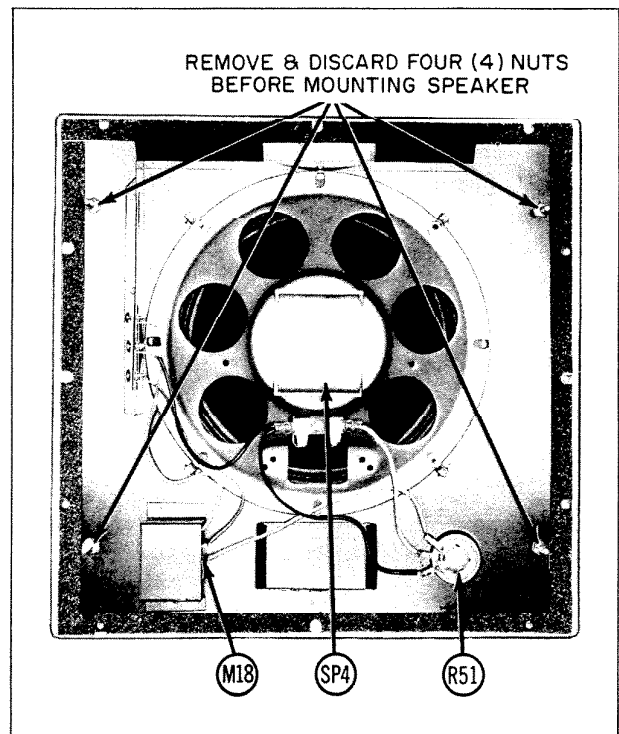


Fig. 9. Rear view of Model 2020 remote speaker station.

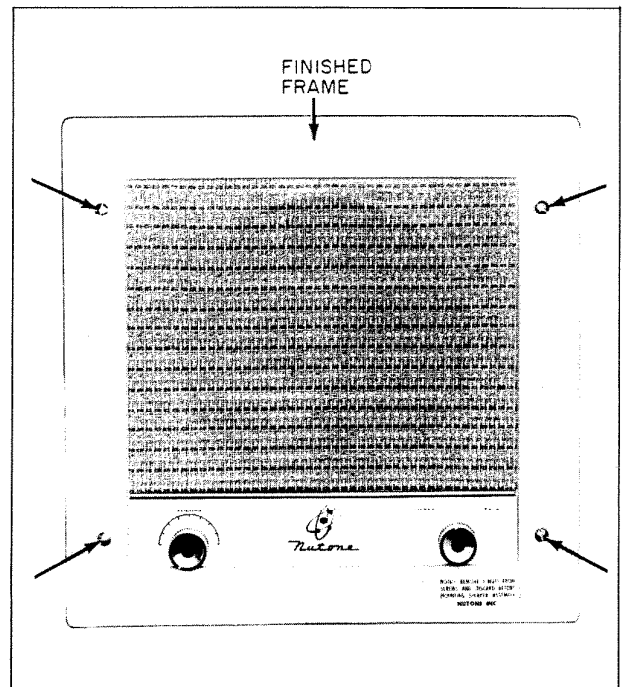


Fig. 11. Model 2020 inside remote speaker station with finished frame attached.

Outside Installation of Model 200 Remote Speaker

1. Remove and discard four nuts from mounting screws (Fig. 9) which secure the finished frame to the speaker plate (see instruction label on finished frame.). Remove the four mounting screws and frame from the speaker plate.
2. Connect the three-conductor wire in wall frame to the speaker terminals on the speaker guard plate as follows (Fig. 12):
 - a. Silver wire to terminal labeled silver
 - b. Center wire to terminal labeled center
 - c. Copper wire to terminal labeled copper.
3. Mount the speaker plate to the rough-in frame with the twelve screws provided as shown by arrows in Fig. 13. *All screws must be used to prevent speaker rattle.*
4. Align holes in the finished frame with the holes in the rough-in frame. Fasten frame in place with four mounting screws previously removed under Step 1 above and shown by arrows in Fig. 14.

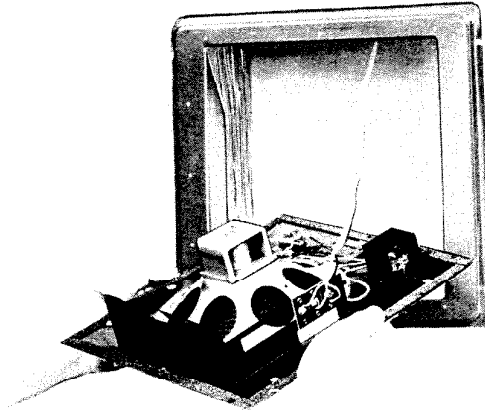


Fig. 12. Outside installation of Model 200 remote speaker station.

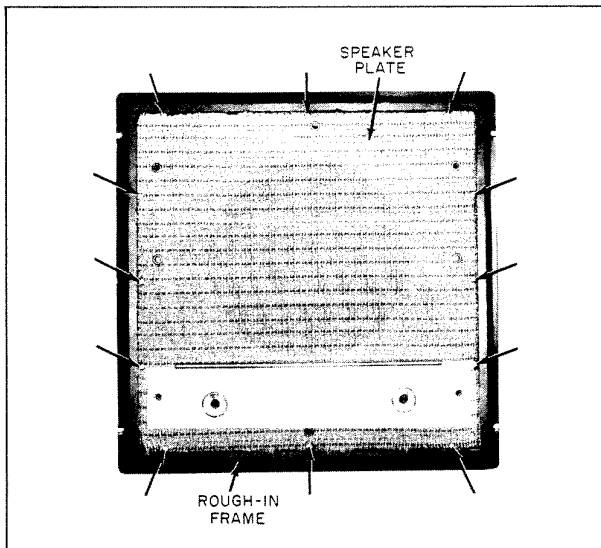


Fig. 13. Speaker plate and rough-in frame assembly of outside installed Model 200 remote speaker station.

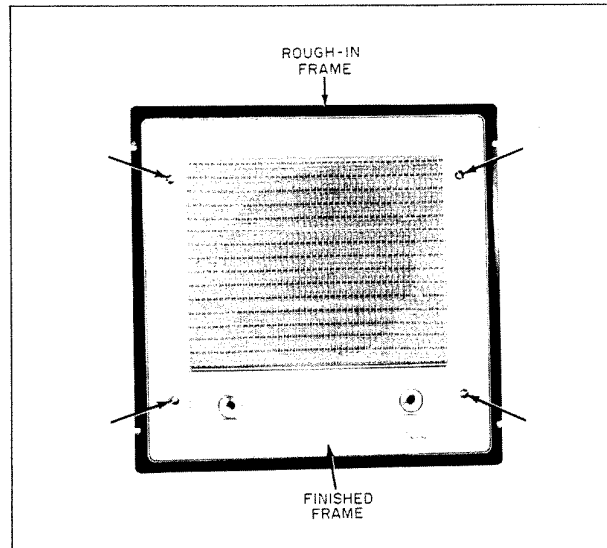


Fig. 14. Finished frame assembly of outside-installed Model 200 remote speaker station.

MASTER STATION

Installation of Mounting and Support Brackets

Install left and right mounting brackets to housing with screws provided (Fig. 15). When fastening mounting brackets, be sure housing is pushed flush against finished wall surface, and brackets are pushed all the way back in housing.

Mounting Master Station to Support Brackets

A mounting pin is provided on each side of the Master Unit chassis. Insert pins into slot provided in the support bracket. Move unit forward until the pins drop into the slots provided on front side

of mounting brackets. Attach ground strap. The unit is now self-supporting, allowing both hands free for hook-up.

Connecting Remote Stations to Master Station

Connect the three-conductor wire from the remote speakers to the screw terminals on the printed-circuit terminal board as follows (also see instructions label on inner side of front panel):

- a. Silver wire to numbered terminal (Fig. 2).
- b. Center wire to terminal marked "Center" (Fig. 2).

- c. Copper wire to terminal marked "Copper" (Fig. 2).

When more than ten remote stations are used, connect extra speaker wires to any set of occupied screw terminals on the terminal board.

NOTE: Each remote must be independently wired to the master station to prevent feedback (high-pitched squeal). Do not jumper between remotes.

Connecting Electronic Chimes

If a Nutone electronic chime is to be used with the system, connect the *two-conductor* wire in wall box to the center and copper screw terminals only on printed-circuit board (Fig. 2).

NOTE: Chime wires can be connected to the same set of terminals being used by a remote speaker.

Antenna Connection

Connect the blue AM antenna lead attached to the chassis to the blue antenna wire in wall with wire nut furnished.

Connect the brown FM antenna lead attached to the chassis to the brown twin lead in wall with wire nut provided. Only one wire of the twin lead is used unless an antenna (FM or TV) is attached at the other end of the twin lead to improve FM reception. When the second wire of twin lead is used, connect it to the black wire attached to the chassis at the antenna terminals.

Final Installation

Check wiring to make sure all leads have been connected. Push excess wire back into the wall to prevent possible dislodgement of tubes on chassis when unit is fastened in place. Slide master unit into wall box.

IMPORTANT: Be sure AC plug on adjustable bracket lines up and engages power receptacle in wall box (Fig. 15). If AC plug on chassis prohibits master unit from being pushed completely into wall box, or if AC plug does not make good contact with power receptacle, adjust bracket as required.

Fasten front panel to mounting brackets with four screws provided as shown by arrows in Fig. 1. Perform "Check-Out Procedure" on page 2.

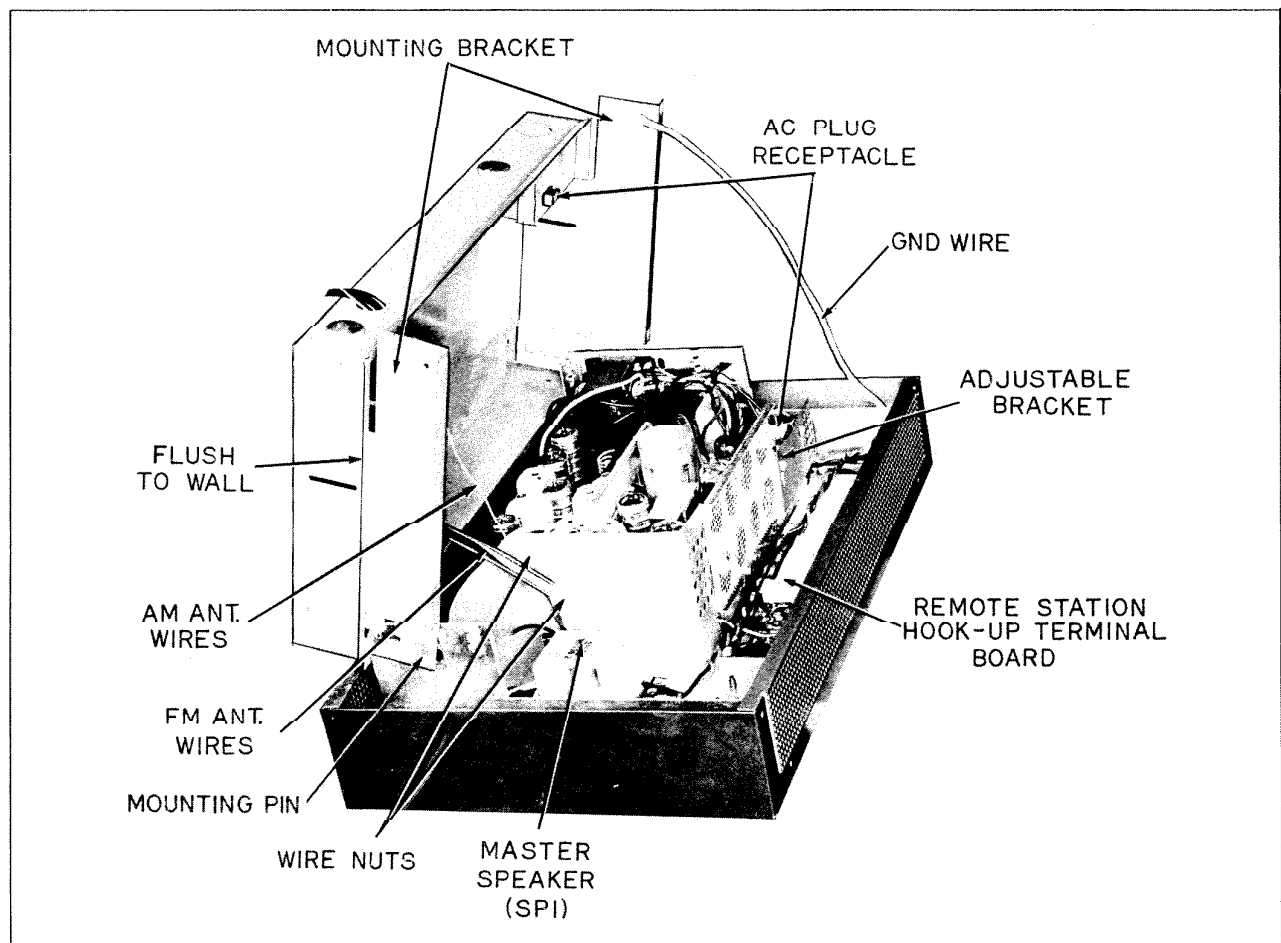


Fig. 15. Installing Master station.

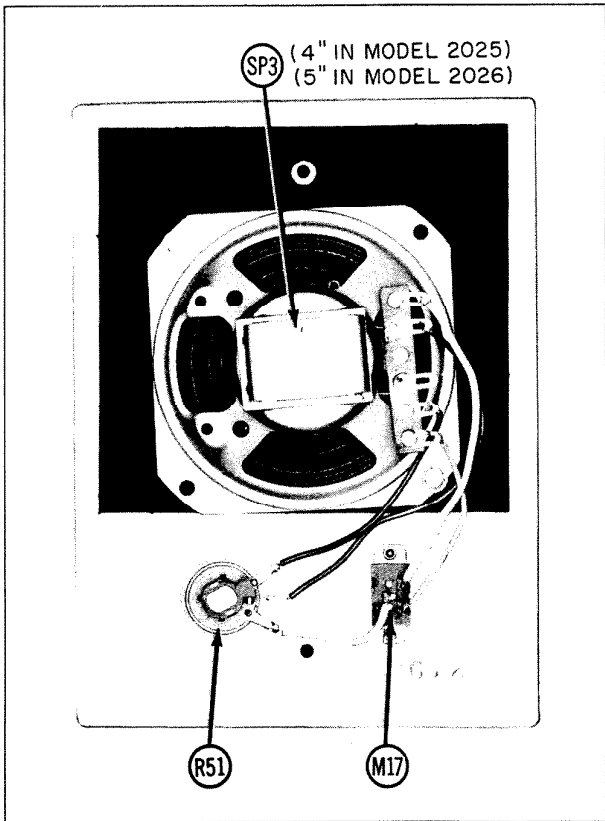


Fig. 16. Rear view of Model 2025 remote speaker.

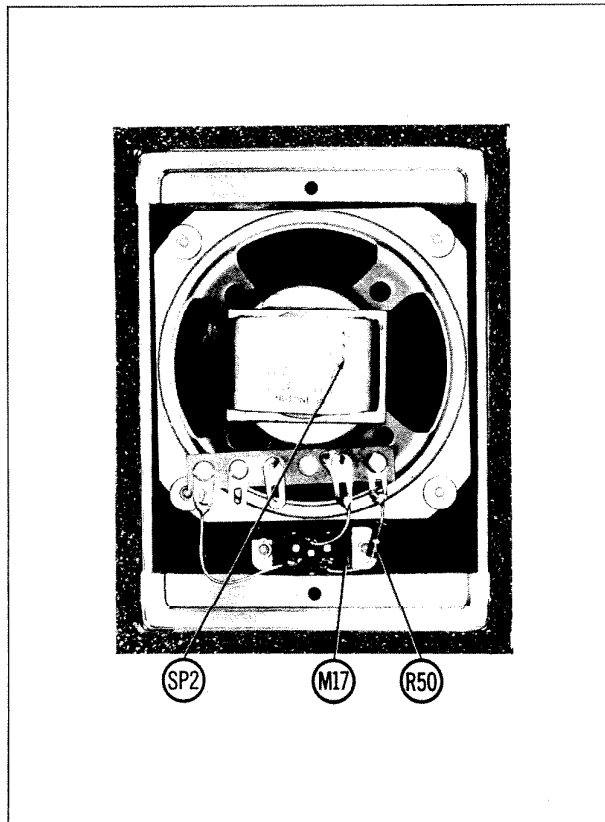


Fig. 17. Rear view of Model 2006 remote speaker.

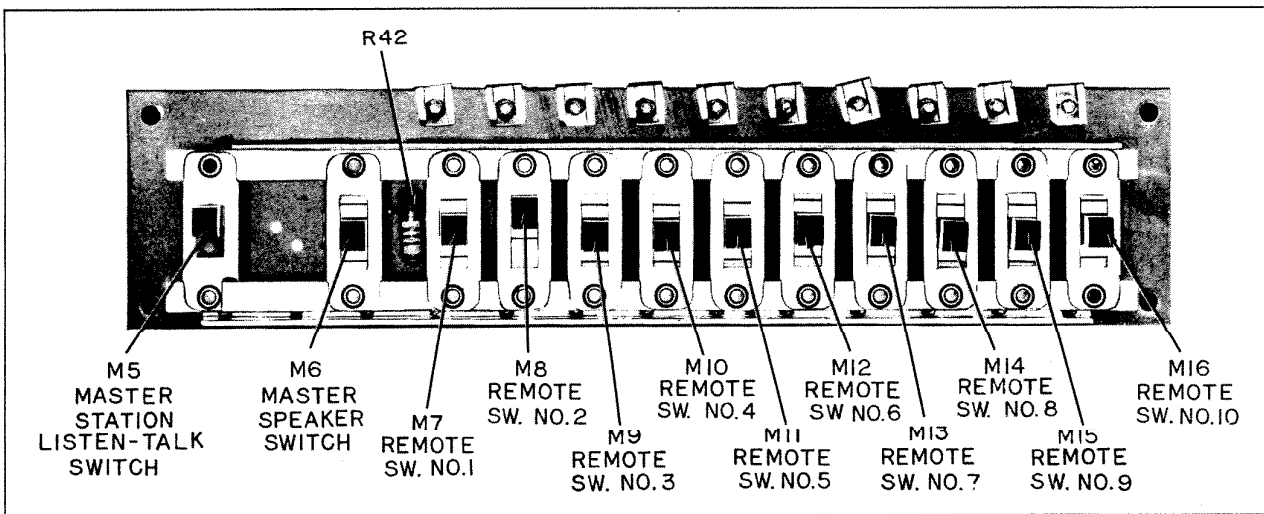


Fig. 18. Top view of printed circuit terminal board.

PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
TUBES			CONTROLS AND RESISTORS		
V1		6BE6, AM Converter	R1		47K, ½ Watt, ±10%, Carbon
V2		6BN4A, FM RF Amp.	R2		22K, ½ Watt, ±10%, Carbon
V3		6BL8, FM Mixer, FM Oscillator	R3		220K, ½ Watt, ±10%, Carbon
V4		6BA6, AM-FM IF Amp.	R4		47K, ½ Watt, ±10%, Carbon
V5		6AU6, FM Limiter	R5		100Ω, ½ Watt, ±10%, Carbon
V6		12AX7, AF Amp.	R6		330Ω, ½ Watt, ±10%, Carbon
V7		6CU5, Audio Output	R7		10K, ½ Watt, ±10%, Carbon
V8		6V4/EZ80, Rectifier	R8		2.2K, ½ Watt, ±10%, Carbon
X1		2N233, Intercom Pre-Amp.	R9		100Ω, ½ Watt, ±10%, Carbon
CAPACITORS			R10		100Ω, ½ Watt, ±10%, Carbon
C2		20,000 mmf @ 1000V, Ceramic Disc	R11		22K, ½ Watt, ±10%, Carbon
C4		5000 mmf @ 1000V, Ceramic Disc	R12		330Ω, ½ Watt, ±10%, Carbon
C5		47 mmf @ 1000V, Ceramic Disc	R13		1000Ω, ½ Watt, ±10%, Carbon
C6		10 mmf @ 1000V, Ceramic Disc	R14		120Ω, ½ Watt, ±10%, Carbon
C7		5000 mmf @ 1000V, Ceramic Disc	R15		100K, ½ Watt, ±10%, Carbon
C8		5000 mmf @ 1000V, Ceramic Disc	R16		10K, ½ Watt, ±10%, Carbon
C9		5000 mmf @ 1000V, Ceramic Disc	R17		1000Ω, ½ Watt, ±10%, Carbon
C10		20,000 mmf @ 1000V, Ceramic Disc	R18		22K, ½ Watt, ±10%, Carbon
C11		47 mmf @ 1000V, Ceramic Disc	R19		2.7Ω, ¼ Watt, ±10%, Carbon (Early Prod. Only)
C12		5000 mmf @ 1000V, Ceramic Disc	R19	8777	20Ω, Wirewound, Intercom Level Control (Late Prod.)
C13		330 mmf @ 1000V, Ceramic Disc	R20		6.8 Meg, ½ Watt, ±10%, Carbon
C14		2 mfd @ 25V, Electrolytic	R21		470K, ½ Watt, ±10%, Carbon
C15		270 mmf @ 1000V, Ceramic Disc	R22		470K, ½ Watt, ±10%, Carbon
C16		5000 mmf @ 1000V, Ceramic Disc	R23	A-34013	2.5, Meg, Master Volume Control and Switch
C17		270 mmf @ 1000V, Ceramic Disc	R24		3.3 Meg, ½ Watt, 10%, Carbon
C18		47 mmf @ 1000V, Ceramic Disc	R25		470K, ½ Watt, ±10%, Carbon
C20		20 mmf @ 1000V, Ceramic Disc	R26	A-34013	330K, Master Tone Control
C21		1000 mmf @ 1000V, Ceramic Disc	R27		470K, ½ Watt, ±10%, Carbon
C22		47 mmf @ 1000V, Ceramic Disc	R28		220Ω, 1 Watt, ±10%, Carbon
C23		12 mmf @ 1000V, Ceramic Disc	R29		5.1 K, ½ Watt, ±5%, Carbon
C24		10 mmf @ 1000V, Ceramic Disc	R30	A-34012	250Ω, Hum Balance Control, Wire- wound
C25		1000 mmf @ 1000V, Ceramic Disc	R31		500Ω, 5 Watt, ±10%, Wirewound
C26		330 mmf @ 1000V, Ceramic Disc	R32		700Ω, 10 Watt, ±10%, Wirewound
C27		.1 mfd @ 100V, Ceramic Disc	R33		100K, ½ Watt, ±10%, Carbon
C28		220 mmf @ 1000V, Ceramic Disc	R34		10K, ½ Watt, ±10%, Carbon
C29		20,000 mmf @ 1000V, Ceramic	R35		10K, ½ Watt, ±10%, Carbon
C30		5000 mmf @ 1000V, Ceramic Disc	R36		100K, ½ Watt, ±10%, Carbon
C31		20,000 mmf @ 1000V, Ceramic Disc	R37		1000Ω, ½ Watt, ±10%, Carbon
C32		5000 mmf @ 1000V, Ceramic Disc	R38		100Ω, ½ Watt, ±10%, Carbon
C33		5000 mmf @ 1000V, Ceramic Disc	R39		15K, ½ Watt, ±10%, Carbon
C34		5000 mmf @ 1000V, Ceramic Disc	R40		220K, ½ Watt, ±10%, Carbon
C35A	A-35025	40 mfd @ 250V, Electrolytic	R41		330K, ½ Watt, ±10%, Carbon
B		100 mfd @ 250V, Electrolytic	R42		1.2Ω, ½ Watt, ±10%, Wirewound
C		40 mfd @ 250V, Electrolytic	R43		3.3Ω, 5 Watt, ±20%, Wirewound
D		50 mfd @ 25V, Electrolytic	R44		100K, ½ Watt, ±10%, Carbon
C36		20,000 mmf @ 100V, Ceramic Disc	R45		56Ω, ½ Watt, ±10%, Carbon
C37	A-35028	2.2 mmf, Ceramic Tubular	R46		22Ω, ½ Watt, ±10% Carbon
C38		5000 mmf @ 1000V, Ceramic Disc	R50		20Ω, Wirewound, Remote Speaker Volume Control
C39		20,000 mmf @ 1000V, Ceramic Disc	R51	B-34000	
C40		330 mmf @ 1000V, Ceramic Disc	TRANSFORMERS		
C41		1000 mmf @ 1000V, Ceramic Disc	T1	A-30520	AM RF
C42		50,000 mmf @ 600V, Tubular	T2	C-30521	1st. FM IF
C43		50,000 mmf @ 600V, Tubular	T3	C-30510	1st. AM IF
C44		20,000 mmf @ 600V, Tubular	T4	C-30522	2nd. AM IF
C45	A-35027	1 mfd @ 3V, Ceramic Disc	T5	C-30519	Output AM IF
C46		150 mmf @ 1000V, Ceramic Disc	T6	C-30517	Ratio Detector
C47		20,000 mmf @ 1000V, Ceramic Disc	T8	B-30516	Output
C48	B-35031	Trimmer	T9	B-30515	Filament
C49		20,000 mmf @ 600V, Tubular			
C50		5000 mmf @ 600V, Ceramic Disc			
C51		5000 mmf @ 600V, Ceramic Disc			

PARTS LIST (cont'd)

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
COILS			MISCELLANEOUS—(cont'd)		
L1	A-30027	AM Oscillator	M16	A-34518	Remote Station Selector Switch #10; Single Pole 3-Position Slide Type
L2	A-30019	RF Choke	M17	A-34500	Remote Speaker Talk-Listen Switch (used in Speaker Models 2006, 2025 and 2026); SPDT Slide Type, Spring Return
L3	A-30032	RF Choke	M18	A-34511	Remote Speaker Talk-Listen Switch (used in Speaker Model 2020); SPDT Rotary, Wafer Type, Spring Return
L4	A-30029	FM RF	M19	A-31105	Phono-Jack
L5	A-30028	FM Oscillator	M20	A-31026	Recessed Plug
L6	A-30033	RF Choke	M21	B-40112	Printed Circuit Assembly Switch. (Completely wired and soldered including Slide Switches M5 thru M16, Resistors R42 and R43 and Input and Output Leads)
L7	A-30031	Filament			
L8	30031	Filament			
L10	30031	RF Choke			
MISCELLANEOUS					
M1	B-35030	AM Tuning Gang		A-31163	9-pin Tube Shield
M2	B-35029	FM Tuning Gang		A-31071	7-pin Tube Shield
M3	A-31023	AM-FM Selector Switch, DPDT Slide Switch		A-31183	9-pin Tube Socket with Shield (Printed Circuit), (V6)
M4	A-31023	Radio-Phono Selector Switch, DPDT Slide Switch		A-31184	9-pin Tube Socket (Printed Circuit), (V8)
M5	A-34517	Master Station Listen-Talk Switch; Single Pole Spring Return		A-31185	9-pin Tube Socket with Shield (Printed Circuit), (V3)
M6	A-34518	Master Speaker Switch; 3-Position Slide Type		A-31186	7-pin Tube Socket with Shield (Printed Circuit), (V2, V4, V5)
M7	A-34518	Remote Station Selector Switch #1; Single Pole 3-Position Slide Type		A-31187	7-pin Tube Socket (Printed Circuit), (V7)
M8	A-34518	Remote Station Selector Switch #2; Single Pole 3-Position Slide Type		A-31188	7-pin Tube Socket with Shield (Printed Circuit), (V1)
M9	A-34518	Remote Station Selector Switch #3; Single Pole 3-Position Slide Type		A-32051	Heat Sink
M10	A-34518	Remote Station Selector Switch #4; Single Pole 3-Position Slide Type		B-40112	Printed Circuit Assembly (Switch)
M11	A-34518	Remote Station Selector Switch #5; Single Pole 3-Position Slide Type		A-31077	Pilot Lamp, G.E. #12
M12	A-34518	Remote Station Selector Switch #6; Single Pole 3-Position Slide Type			
M13	A-34518	Remote Station Selector Switch #7; Single Pole 3-Position Slide Type			
M14	A-34518	Remote Station Selector Switch #8; Single Pole 3-Position Slide Type	SP1	B-36010	4" × 8" Oval (3.2Ω) Master Station
M15	A-34518	Remote Station Selector Switch #9; Single Pole 3-Position Slide Type	SP2	B-36003	3½" (3.2Ω), Model 2006
			SP3	B-36030	4" (3.2Ω), Model 2025
			SP4	B-36031	5" (3.2Ω), Model 2026
				C-36008	8" (3.2Ω), Model 2020

RESISTANCE READINGS

Item	Tube	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8	PIN 9
V1	6BE6	22K	0Ω	.1Ω	0Ω	†‡5K	†‡5K	400K		
V2	6BN4	120Ω	0Ω	.1Ω	0Ω	†1.5K	120Ω	0Ω		
V3	6BL8	†2.2K	100K	†14K	.1Ω	0Ω	†2K	0Ω	0Ω	22K
V4	6BA6	180K	0Ω	.1Ω	0Ω	†1K	†1K	100Ω		
V5	6AU6	180K	0Ω	0Ω	.1Ω	†11K	†11K	100Ω		
V6	12AX7	†470K	6.8 meg	0Ω	*200Ω	*200	†470K	3.3 meg	0Ω	200Ω
V7	6CU5	220Ω	470K	*200Ω	*200Ω	470K	†1.2K	700Ω		
V8	6V4	100Ω	NC	INF	*200Ω	*200Ω	NC	100Ω	NC	NC

All measurements taken in FM position unless otherwise designated.

† Measured from V8 pin 3. ‡ Measured in AM position. * Taken with hum balance (R30) centered.

NC = No Connection.

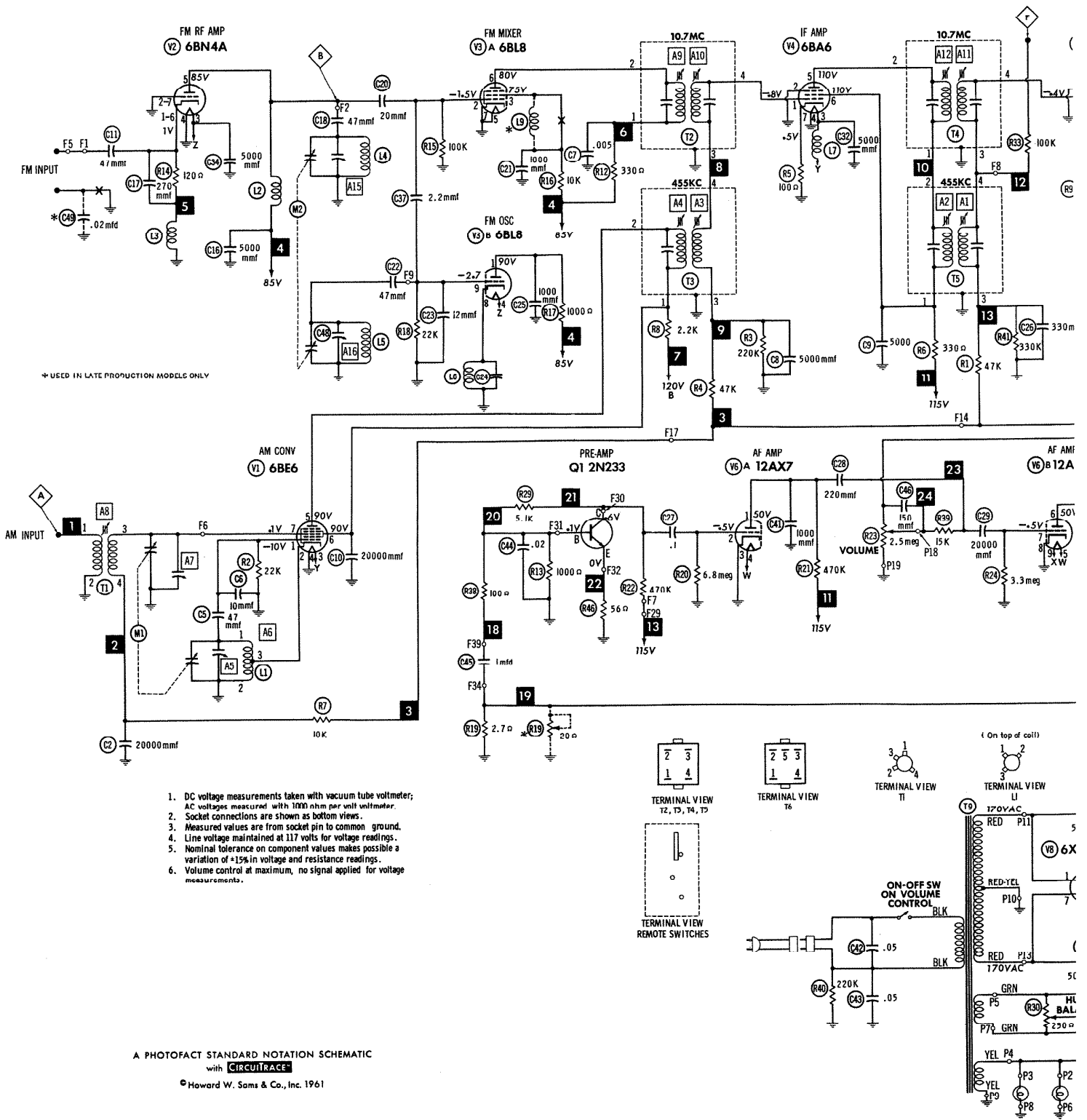


Fig. 19. Master station sche

Nutone Models 2057 or 2058

Correction Notice

The following corrections should be inserted into the service manual for the above models.

Page 13

Add:
R39

68K, 1/2 Watt, $\pm 10\%$, Carbon
(Late Prod.)

Change:

R51 B-34000

20 Ω , Wirewound, Remote
Speaker Volume Control

To:
R51

B-34011

20 Ω , Wirewound, Remote
Speaker Volume Control

Change:

T3 C-30510

1st AM IF

T4 C-30522

2nd AM IF

T9 B-30515

Filament

To:

T3 C-30518

1st AM IF

T4 C-30522

2nd FM IF

T9 B-30515

Power

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Change:

L7 A30031

Filament

L8 A30031

Filament

To:

L7 A-30030

Filament

L8 A-30030

Filament

Delete:

B-40112

Printed Circuit Assembly
(Switch)

Schematic, Pages 15 & 16

L9 should be L10

R39 should be 15K, * 68K