



INTERCOM RADIO MUSIC SYSTEM

OPERATING MANUAL
For AM/FM
MODELS 2057 - 2058



IMPORTANT: Leave this booklet hanging on front of NuTone Intercom-Radio. Contains information necessary for proper operation of this system.

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INTERCOM

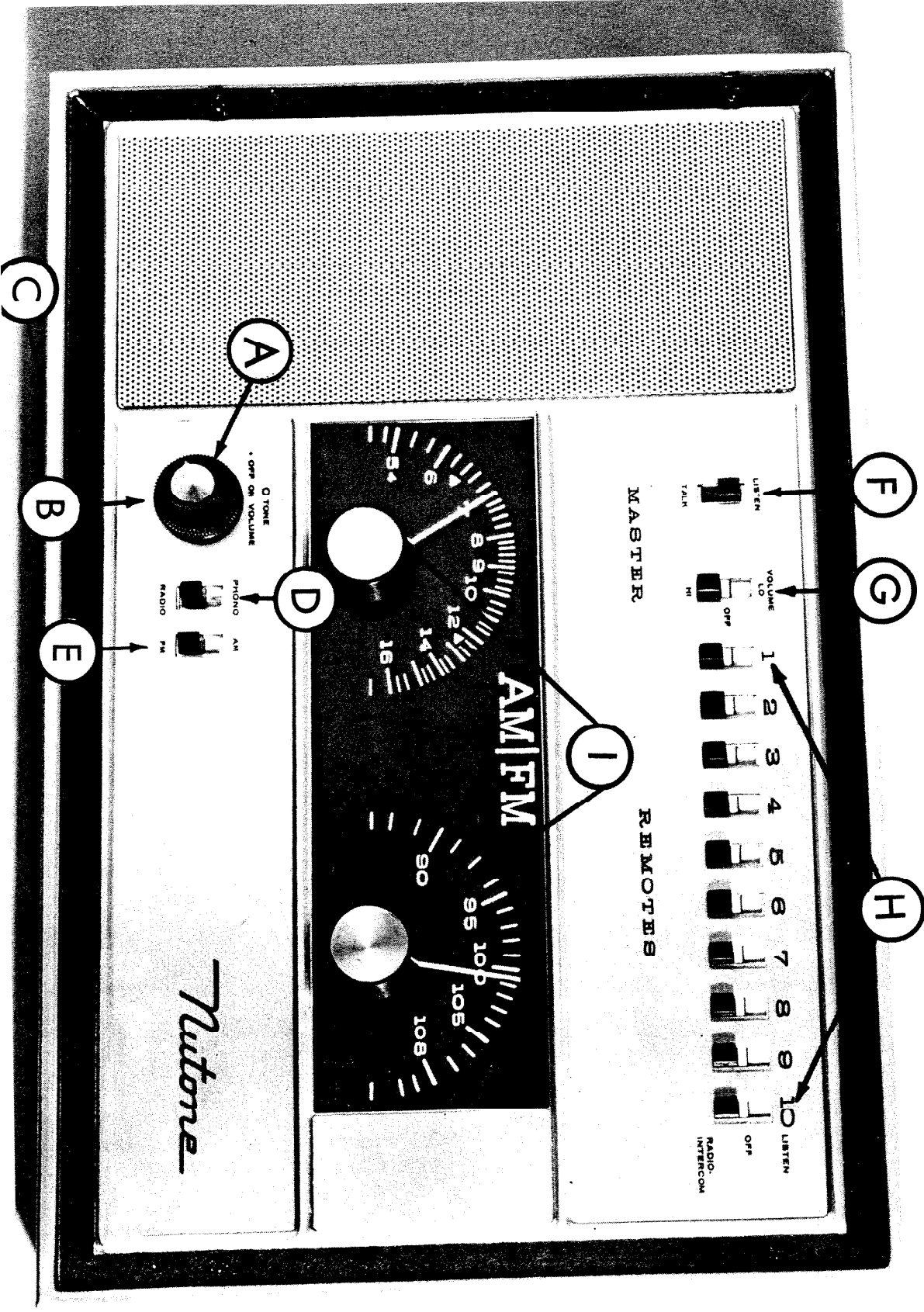
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A

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G

I

H

O TONE
OFF OR VOLUME

PHONO
RADIO
FM

5 6 7 8 9 10 11 12 13 14 15 16

AM/FM

90 95 100 105 108

MASTER

LISTEN
TALK

VOLUME
LO
OFF
HI

1 2 3 4 5 6 7 8 9 10

REMOTES

OFF
RADIO
INTERCOM
LISTEN

Nutone

DESCRIPTION OF CONTROLS ON MASTER PANEL

A. POWER CONTROL KNOB AND SYSTEM VOLUME CONTROL

The front knob turns the entire system off and on. It is the only control which can increase the volume level of the entire system.

B. TONE CONTROL

The rear knob permits a range of sound from deep bass tone to high treble notes.

C. PHONO-JACK (Not Visible)

This receptacle is used to plug in the connection for your phonograph or tape recorder.

D. PHONO/RADIO-SWITCH

This switch in RADIO position permits radio reception with full time intercom. In PHONO position it permits intercom only without music, unless phono or tape is plugged into phono jack. Then recorded music can be enjoyed with full time intercom.

E. AM-FM SWITCH

This permits selection of AM or FM radio.

F. MASTER TALK/LISTEN SWITCH

For talking on intercom from master.

G. MASTER SPEAKER VOLUME SWITCH

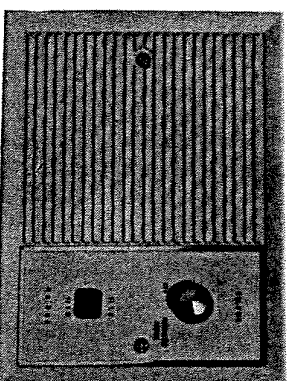
This can be used to reduce the volume level or turn off the speaker at the *master station only*. It does not affect the volume of the remote stations. This switch should be in Hi position when using intercom at master.

H. REMOTE SELECTOR SWITCHES

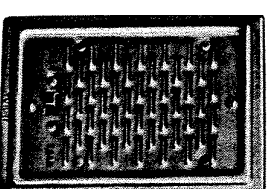
These ten switches individually control the remote stations.

I. RADIO TUNING KNOBS

For radio station selection. (Use the left scale for AM . . . right scale for FM.)



INSIDE REMOTE



OUTSIDE REMOTE

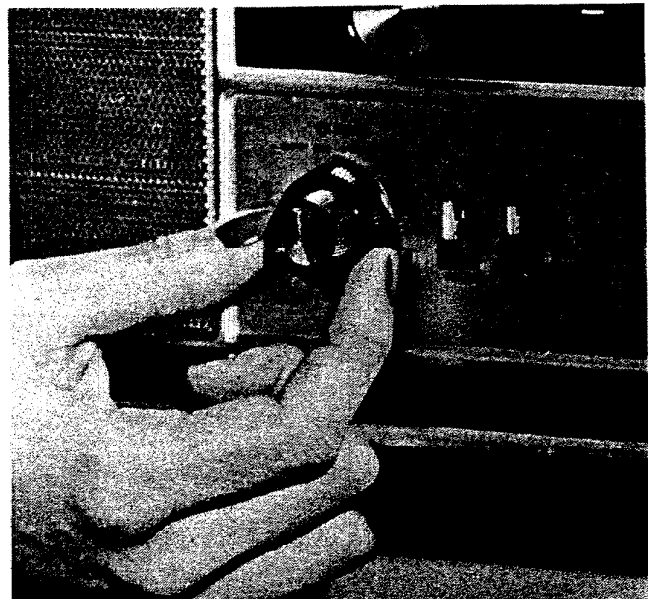
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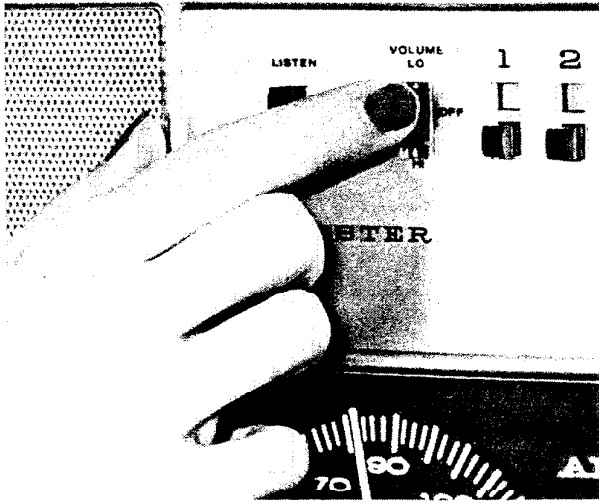
ENTIRE SYSTEM



**TURN POWER
"ON and OFF"
with this Knob
to operate the
entire system.**

- 1.** Always remember . . . this *VOLUME* control knob at the MASTER Station must be turned "ON" to operate Intercom, Radio or Music. (The dial lights up when the power is turned on.)
- 2.** Set the *VOLUME for the entire system* with this same control knob. Turn it clockwise to make louder.
- 3.** Set the *TONE control* knob to suit your own taste . . . TREBLE for high musical notes . . . BASS for deep, mellow tone.





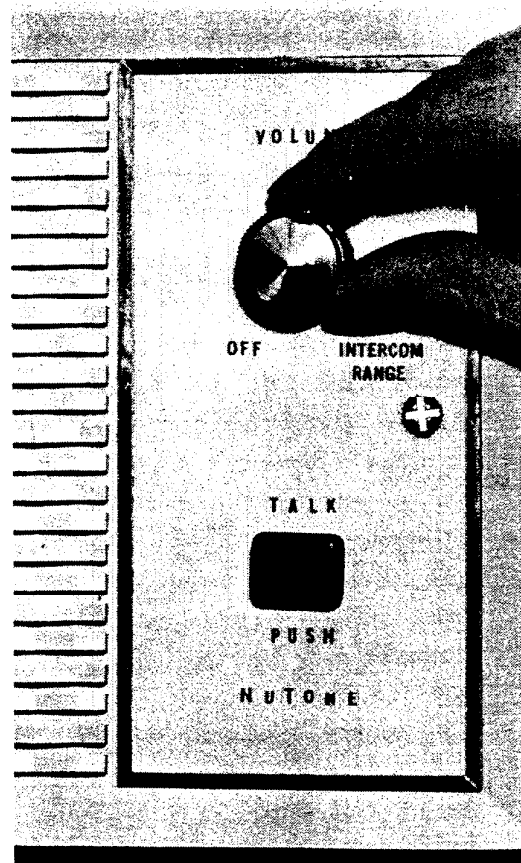
Each Station has its own individual VOLUME CONTROL and PRIVACY CONTROL

(The outside remote does not have this control)

1. To control volume of SPEAKER at MASTER STATION only — you can make volume softer (or completely off) — by placing three-position switch in HI, LO or OFF position. (This does not affect the radio or music for speakers at any other location.)

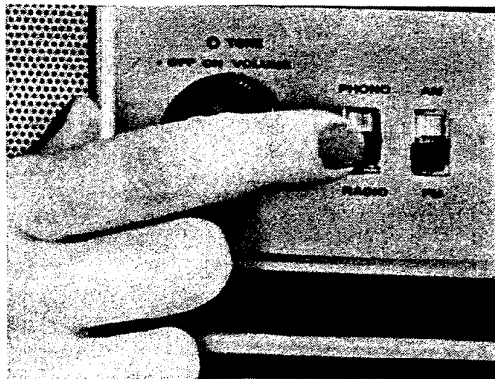
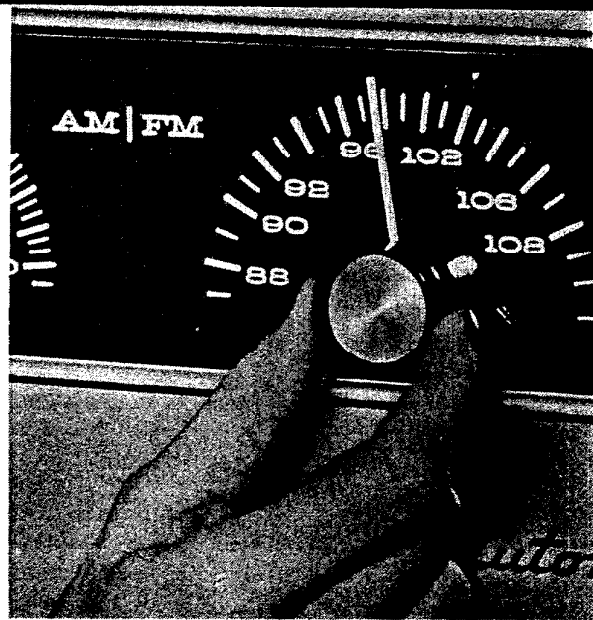
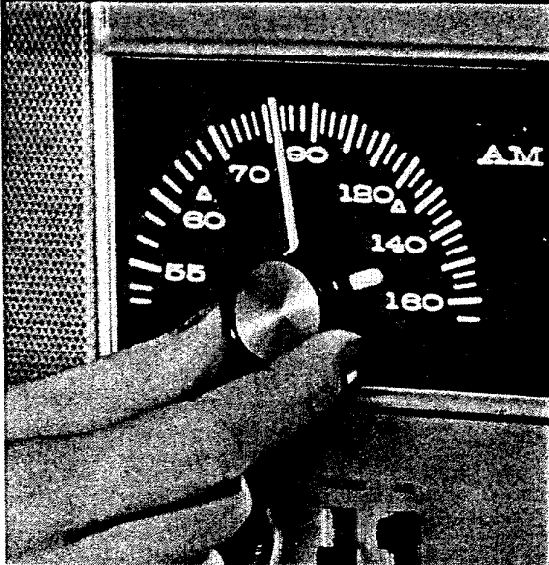
2. To control SPEAKER at any IN-SIDE REMOTE — each room has its own individual control. Turn this VOLUME control knob counter-clockwise to make softer — or all the way OFF for complete PRIVACY. (This makes it impossible to “listen-in” to that particular room.)

NOTE: No “individual speaker control” can increase the volume greater than the level set by the VOLUME control knob at the Master station for the entire system.



6

RADIO



1. Be sure VOLUME knob is turned "ON" and volume is loud enough.

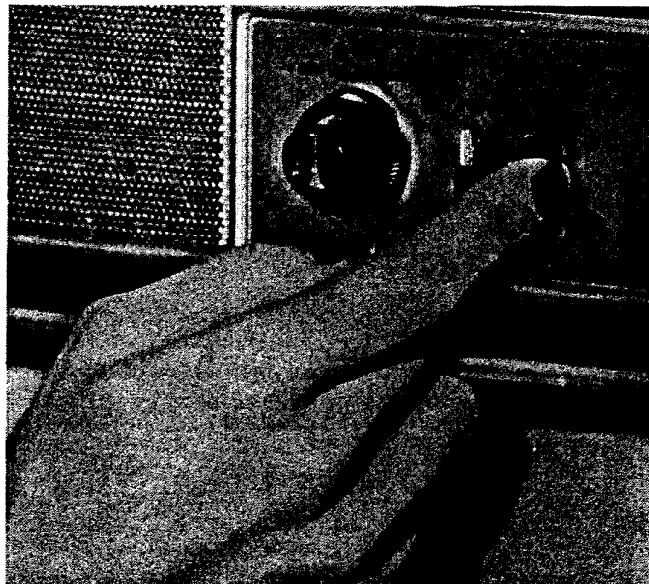
2. Put the PHONO/RADIO switch on the RADIO position.

3. Select by turning tuning knob which

moves right scale for FM. Use left scale for AM.

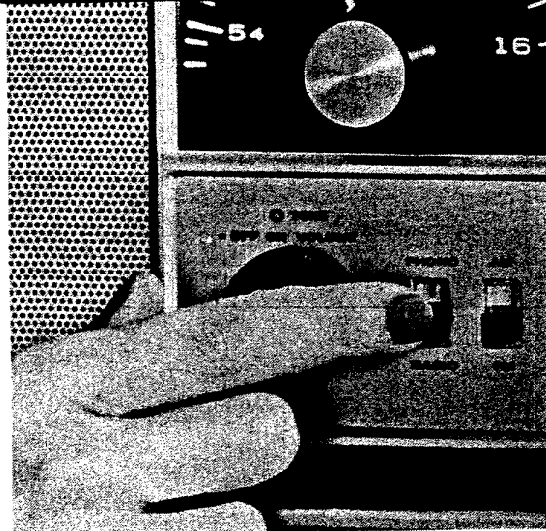
4. Put AM/FM switch in AM or FM position. (AM is the standard broadcast most commonly used by radio stations for long distance. Many radio stations are using FM because it is practically static-free and transmits a greater range of high and low sounds. You must have an FM station near you in order to receive it — because FM Radio does not travel far. If FM station is over 25 mi. away an outside antenna may be needed.)

5. Adjust loudest volume for entire system with VOLUME CONTROL KNOB at Master Station. Individual Speaker volume control can decrease the volume at each station.



RADIO

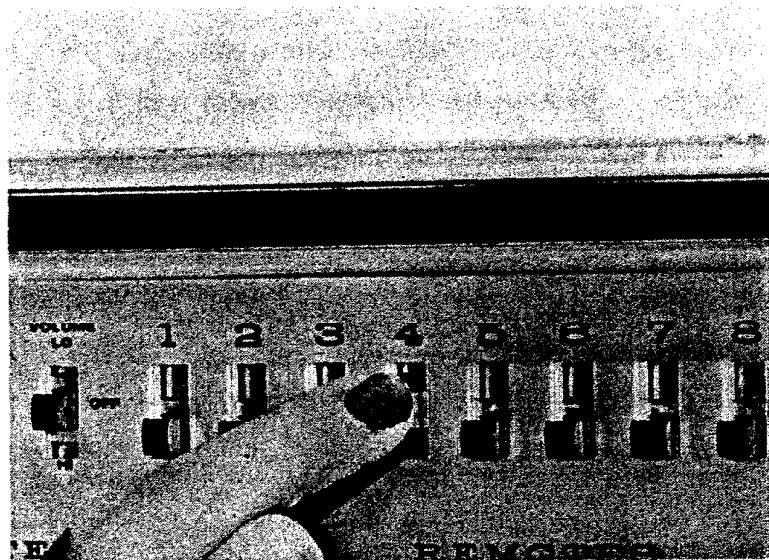
How to "Pipe" Radio Programs to Any Room.



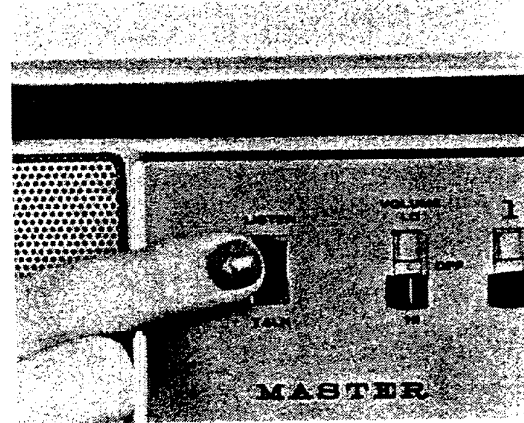
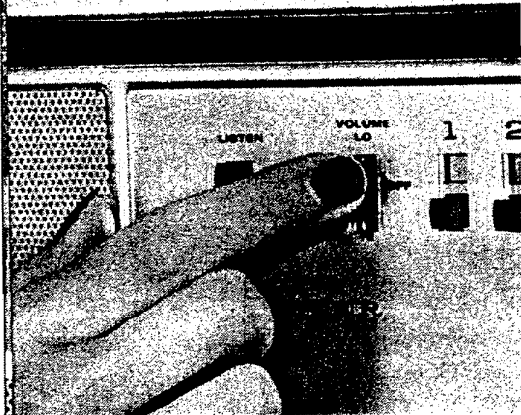
- 1.** Put the PHONO/RADIO switch on the RADIO position.
- 2.** Select station with TUNING knob.
- 3.** Set the REMOTE SELECTOR SWITCHES at the master for the rooms where you want radio. If you want *RADIO* on in any room push that *SWITCH DOWN*. If you want the radio turned off in any room push that switch to the center or *OFF* position.

Remember — you still have *FULL-TIME* Intercom — even if the music is turned *ON*. Your voice will be heard above the music because the Intercom sound level is set automatically to a higher volume than the music.

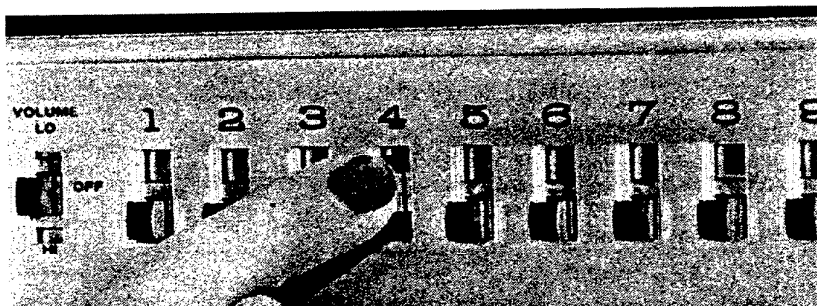
NOTE: It is best to leave all slide switches *DOWN* until you are ready to change them.



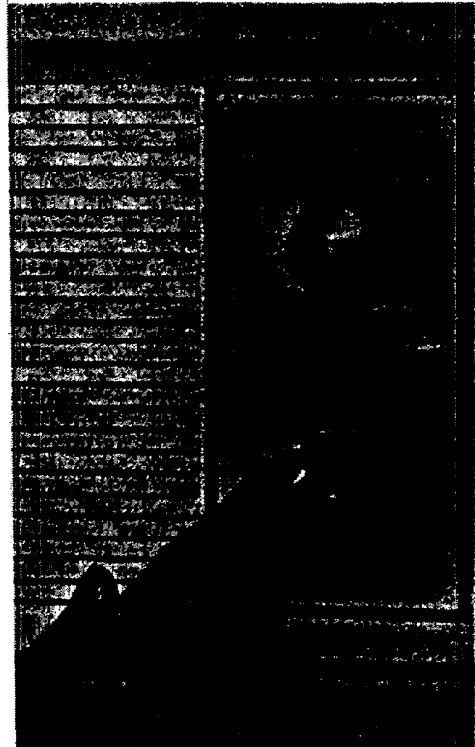
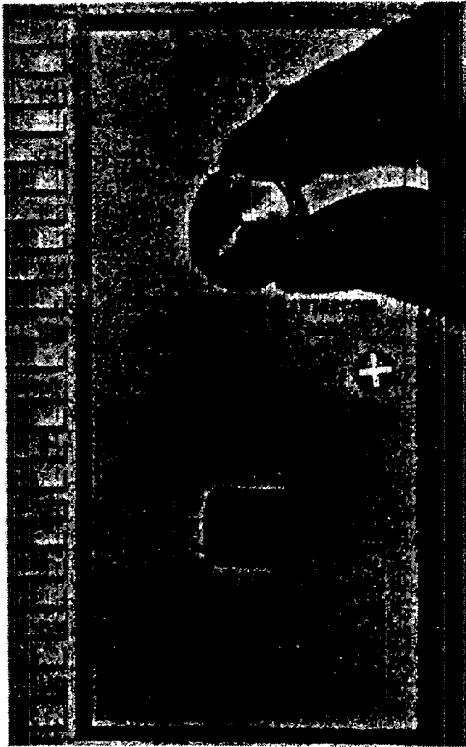
How to carry on TWO WAY conversation from the Master to all other rooms



- 1.** Be sure POWER is turned on for entire system and volume is turned loud enough.
- 2.** Turn the MASTER SPEAKER switch to HI position.
- 3.** Push the Remote SELECTOR SWITCHES DOWN for any room you want to reach. Leave switches in center or OFF position for rooms you do not want to receive message.
- 4.** To TALK . . . push the TALK/LISTEN switch to the down (talk) position and HOLD while talking.
- 5.** To LISTEN . . . Release the talk/listen switch and it will spring back to listen position and you will hear reply.



How to originate calls from any Inside Remote to the Master

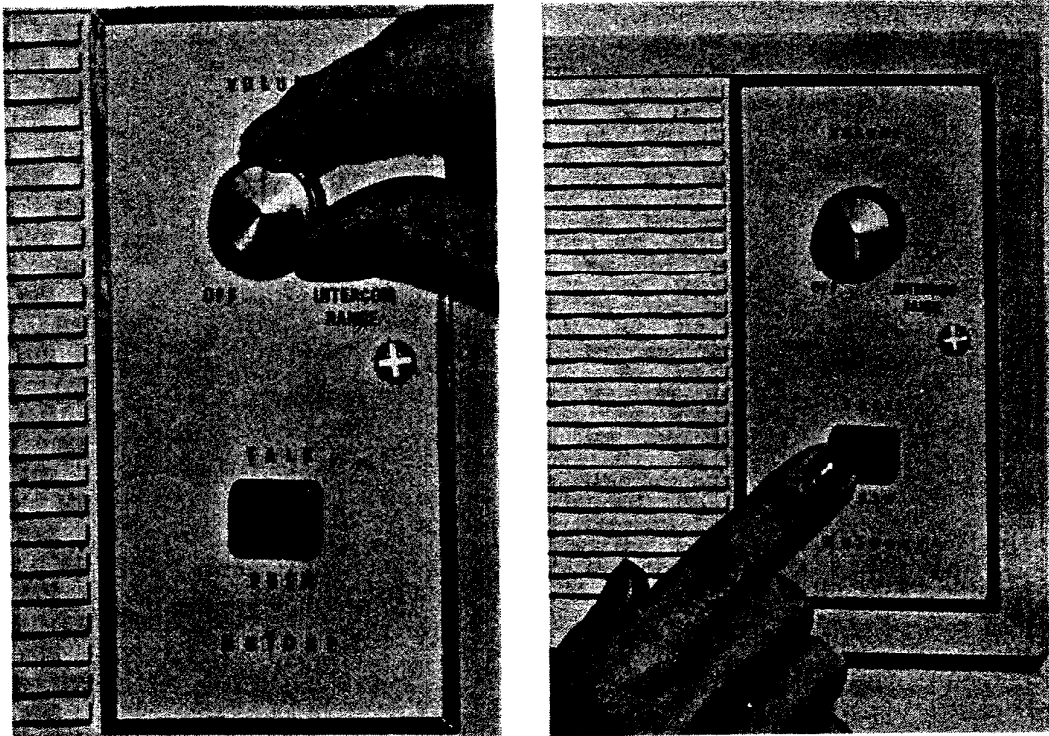


- 1.** You can call the master at any time so long as the entire system is "ON."
- 2.** The individual remote station VOLUME Knob should be turned clockwise to "INTERCOM RANGE."
- 3.** To TALK . . . push the button IN and HOLD it while speaking.
- 4.** To LISTEN . . . release the button and it will spring back to LISTEN position so you can receive answer.

NOTE: You can call the Master even if the radio or music is turned on. Your voice will be heard above the music because the intercom sound level is set automatically to a higher volume than radio or music. This is a NuTone EXTRA FEATURE.

You can call the Master regardless of how the function switch or slide switches at the master have been set.

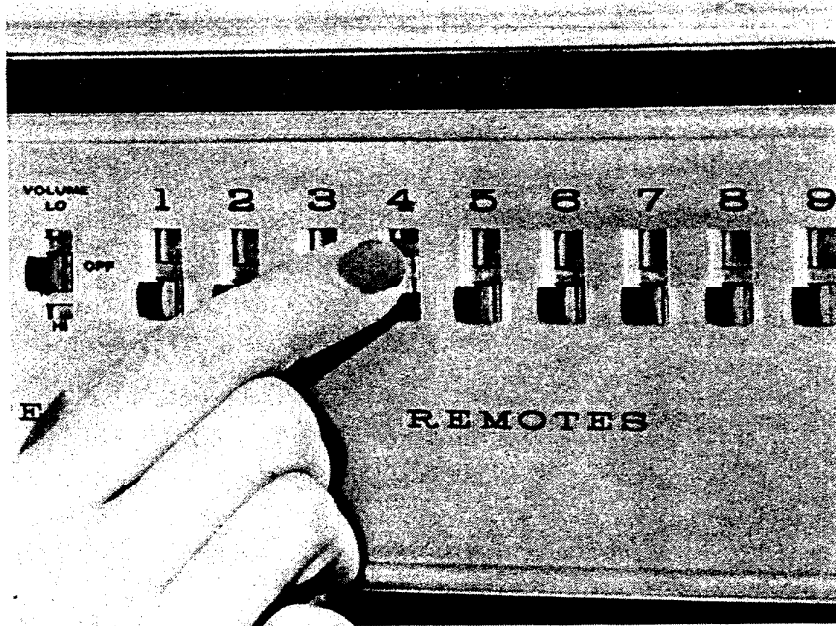
How to carry on two-way conversation between any remote stations



- 1.** Be sure the POWER is turned ON for entire system and Volume is loud enough.
- 2.** Be sure ALL REMOTE SELECTOR SWITCHES have been left in the normal DOWN position at the MASTER.
- 3.** To receive messages the individual remote stations' VOLUME knobs must be set at "INTERCOM RANGE."
- 4.** To TALK from remote—push the button IN and HOLD while speaking. Release this button when through to receive answer.
- 5.** The person in another part of the house can answer you by using the "TALK-LISTEN" button on their speaker as described above in Item 4.

How to "Listen In" on a child's room

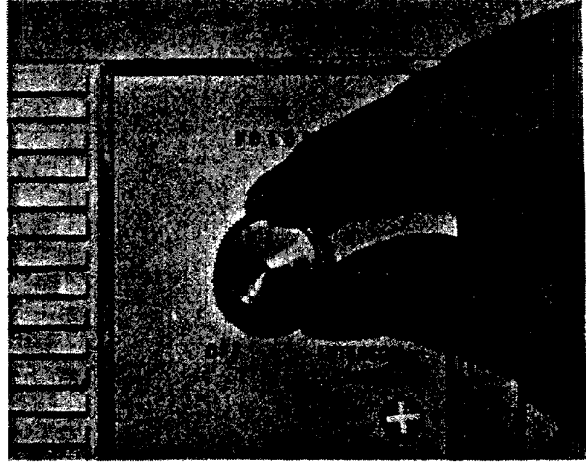
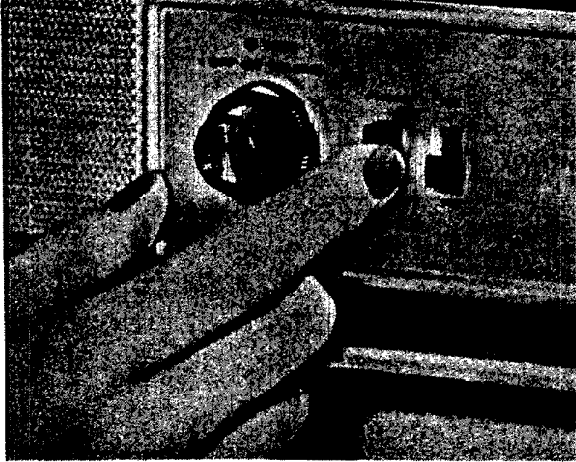
- from Master
- from Remote



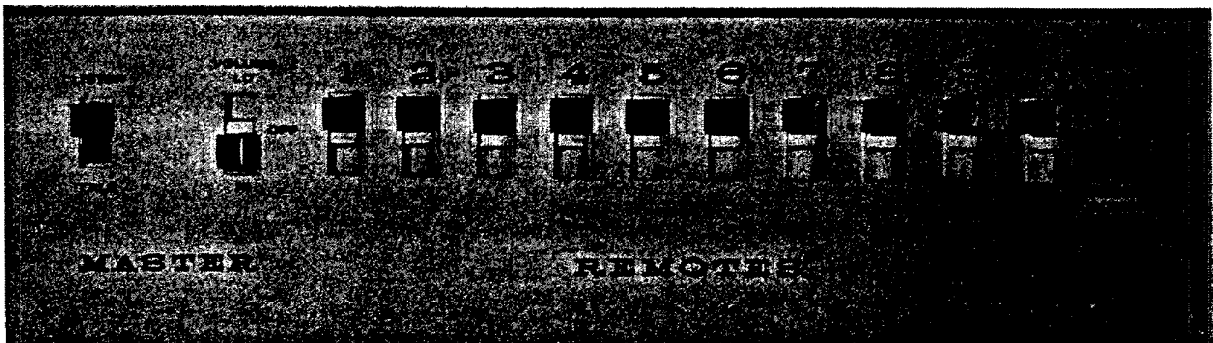
- 1.** You can "LISTEN IN" to any one or more rooms — from the Master — even while you are also listening to Radio or Music.
- 2.** Push the REMOTE SELECTOR SWITCH UP for any children's rooms or sickroom you want to HEAR. ("LISTEN-IN").
- 3.** You will NOT DISTURB the children's sleep. Even while you are able to hear every sound from their rooms — they cannot hear anything because their speakers are silent so long as the REMOTE SELECTOR SWITCHES for their rooms are UP at the Master panel.
- 4.** You can also "LISTEN IN" to children's rooms or sick-room, FROM ANY REMOTE station (your own bedroom, or living room, etc.) All you need do is to be sure you leave the remote selector switches for your room DOWN in the normal position at the Master. — (Children's room SWITCH UP)

REMEMBER . . . the child's room switch is UP while your listening room is DOWN.

How to use the "Night Watchman" listening feature.



- 1.** For your security . . . you can set the speaker in your bedroom to hear all disturbing sounds inside and around the house.
- 2.** Be sure the POWER for entire system is ON with VOLUME turned high.
- 3.** Put PHONO/RADIO switch in PHONO position.
- 4.** Set the REMOTE SELECTOR SWITCH for your bedroom in DOWN position at the master.
- 5.** Set all REMOTE SELECTOR SWITCHES for all other inside and outside remotes in UP position at Master.
- 6.** Turn VOLUME knob in your bedroom to full clockwise position.
- 7.** Phono position of phono/radio switch is also a standby position for intercom without radio.



How to answer the Front Door

How to have Radio on outside patio

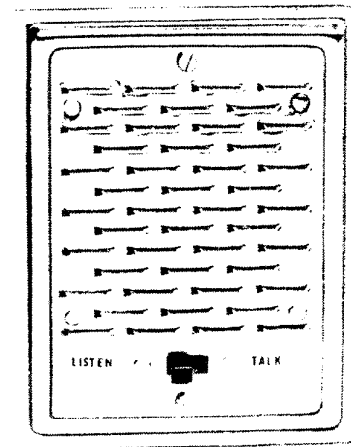
TO ANSWER DOOR FROM MASTER . . .

1. Push the REMOTE SELECTOR SWITCH for the Front Door DOWN.
2. To TALK . . . push the TALK/LISTEN Switch DOWN and hold on "TALK" position while you are speaking.
3. To LISTEN . . . RELEASE the TALK/LISTEN Switch and it will spring back to "LISTEN" position.

HOW TO ANSWER DOOR FROM REMOTE

NOTE: You can carry on a two-way conversation with the outside remote station from any of the inside remote speakers and master station

1. Pre-set the front door selector switch on the master panel to the DOWN position.
2. To talk — push your remote Talk/Listen button IN and *hold* while you are speaking. Then Release.
3. The person at the door can reply by moving the TALK/LISTEN switch on outside remote speaker to the TALK position.

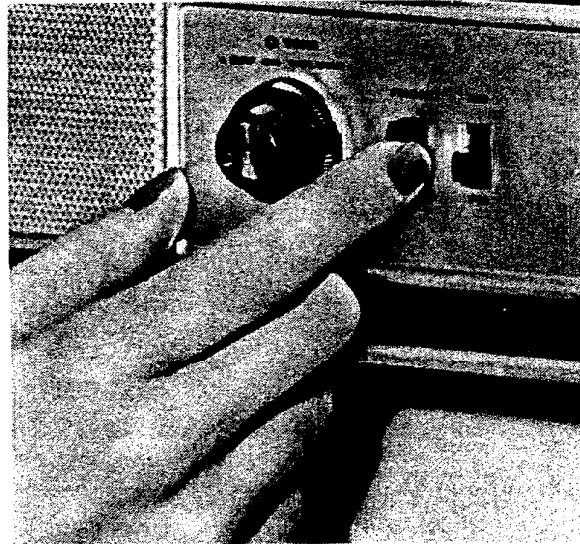


For Patio Use

NuTone Model 2020 8" High Fidelity speaker can be used not only in the house where good fidelity is needed, but is also suitable for use on the patio as an outside patio speaker. When used inside, it should be used with our Model 2411-A unit, but when used outside where weather can get at it, a Model 2414-A should be used. This speaker includes volume and talk/listen switch, permitting full use of intercom.

14 RECORDED MUSIC

You can "Pipe" recorded music all through the entire house.



1. Be sure the POWER is on for the entire system.
2. Plug the player into PHONO receptacle on Master. (Bottom)
3. Put PHONO/RADIO switch in PHONO position.



4. Set the REMOTE SELECTOR SWITCHES for the rooms where you want music. If you want recorded music in any room push that Switch *DOWN*. If you want silence in any other room push that switch to CENTER position.

Remember — you still have FULL-TIME Intercom — even if the music is turned ON. Your voice will be heard above the music because the Intercom sound level is set automatically to a higher volume than the music.

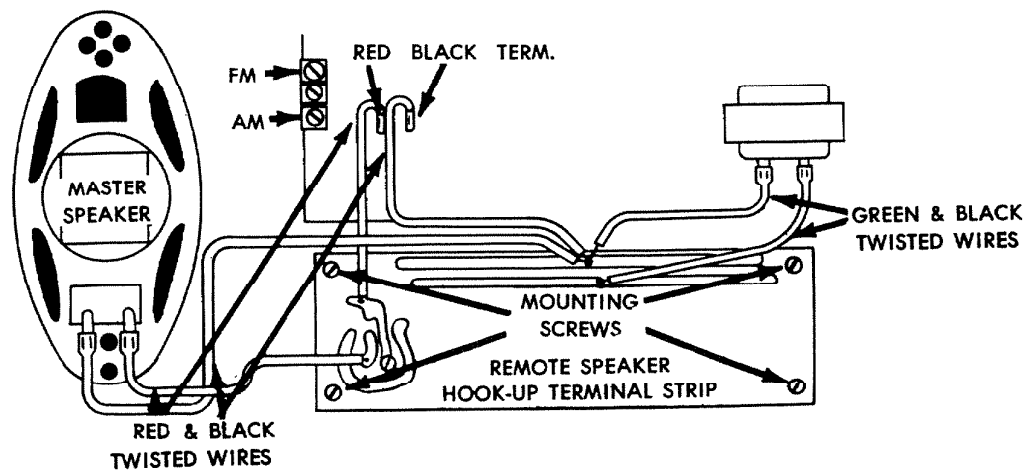
ELECTRONIC CHIME 15

If your system includes an electronic chime, it will be heard over all the speakers whose Remote Selector switch, on the master panel, is down. TO CONTROL VOLUME set PHONO/RADIO switch in RADIO position. Select a station with clear reception and ring the chime.

The chime tones should be heard clearly throughout the system while the radio is playing.

Adjust the volume control on the chime base plate for desired chime volume.

How To Remove Master Unit



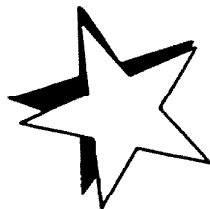
The NuTone Radio-Intercom has been designed to be easily serviced. Removal of the 4 front panel mounting screws will permit the master unit to slide forward and tilt out at an 80° angle, providing access to tubes or remote station and antenna wiring connections.

If necessary to remove the master unit for repair, the remote station wiring need not be disturbed. Remove unit by the following procedure:

- A. Disconnect antenna wiring from AM and FM terminals on left side of printed circuit board.
- B. Disconnect red and black twisted pairs of wires from push-on terminals of master speaker, and "red" and "black" terminals on left side of printed circuit board. Disconnect green and black twisted pair of wires from terminals of transformer on right side of chassis.
- C. Remove four sheet metal screws securing remote station hook-up terminal strip to chassis. Remove screw in upper corner of right-hand support bracket to release ground strap.
- D. Slide master unit back until mounting pins on sides of chassis engaged in support brackets are aligned with vertical slots of bracket and lift chassis straight up.

- 1.** If you do not want radio, but wish to leave the intercom system functioning, set PHONO/RADIO switch in the PHONO position.
- 2.** Be sure to leave system volume control at a fairly high level. This sets the *maximum* volume anyone gets—at any station. If it should prove too high, the individual volume controls can be used to reduce it.
- 3.** If any speaker volume control (including master speaker) is left turned OFF or very low, incoming calls may not be heard.
- 4.** The tube life may be prolonged if the intercom-radio is never turned off, as turning on and off frequently can cause tube failure. It consumes so little electricity (pennies per day) that this will not be an expense — and it is the most efficient way to use the intercom-radio system.
- 5.** *How To Clean.* If the surfaces of the master or outside remotes should become finger marked or dirty, they can be cleaned by using a mild detergent and water. The inside remotes can be cleaned with furniture polish.
- 6.** If squealing should develop on intercom, this means that the system volume control is set too high, or that two or more speakers are too close together and are causing this squeal (feedback). To prevent this, reduce the system volume control until the squeal stops, or reduce the volume setting on one, or both, of the speakers that are affecting each other. You can determine which speakers are causing the squeal by turning all remotes off at the master and then on again — one at a time.
- 7.** If FM reception is not satisfactory, an external FM antenna may help. We recommend you purchase a NuTone Model #2420. (JFD #P800 "Flying V" type), or its equivalent. This should be installed on the roof or in the attic and pointed in direction of the FM stations. If you are located in an area where the FM stations are in several widely separated directions, an omnidirectional type antenna may be required. To work properly this antenna must be the unfolded turnstile type.

CAUTION: Avoid center grounded (balanced) types of antenna.





Built-In Intercom-Radio

Built-In Stereo

Range Hood-Fans

Exhaust Fans

Electric Heaters

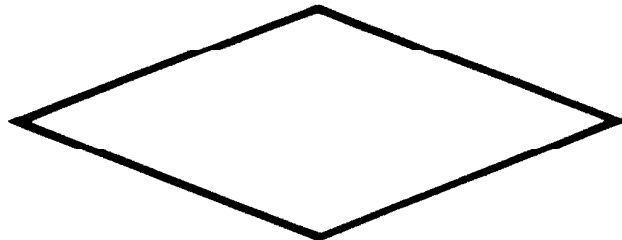
Door Chimes

Built-In Barbecue

Built-In Food Center

NUTONE, INC. Madison and Red Bank, Cincinnati 27, O., U.S.A.

SERIAL NUMBER



Part No. 37289