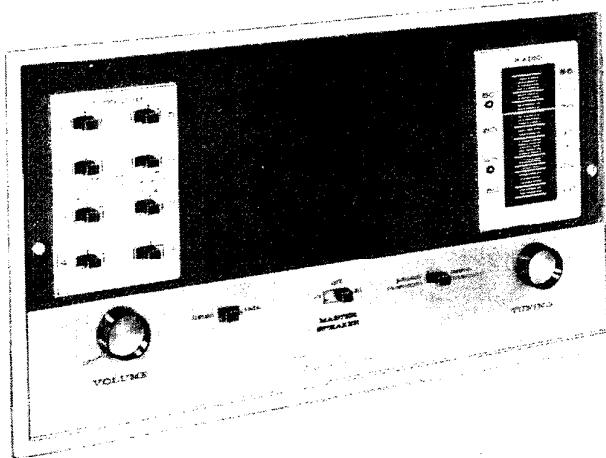




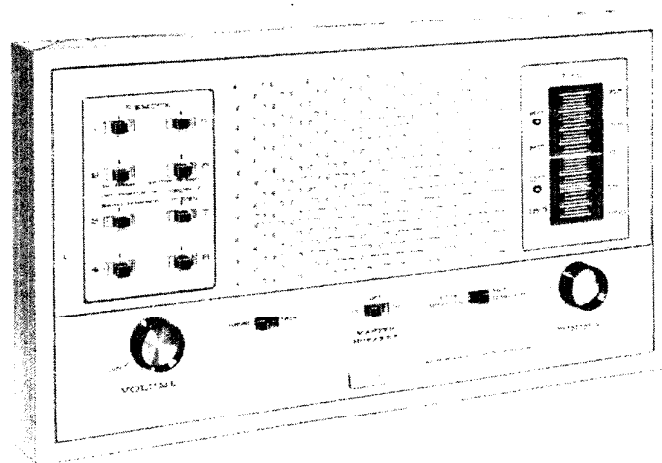
INTERCOM RADIO MUSIC SYSTEM



**OPERATING
MANUAL
FOR
AM
MODELS
2031
2032
2053
2054**

IMPORTANT

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



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ENTIRE SYSTEM

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RADIO

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INTERCOM

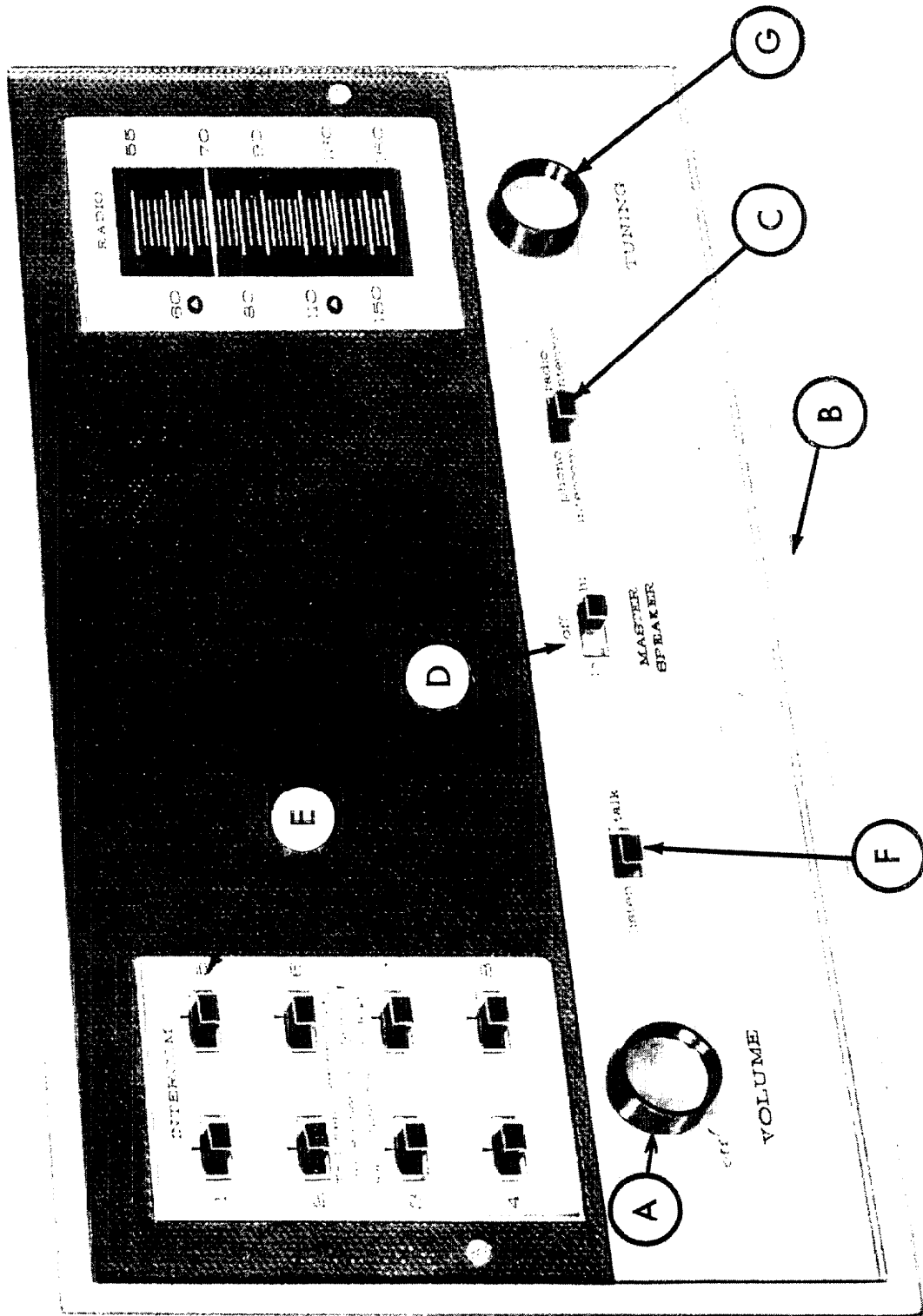
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DESCRIPTION OF CONTROLS ON MASTER PANEL

(White Dot on Knob is position indicator)

A. POWER CONTROL KNOB AND SYSTEM VOLUME CONTROL

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

B. PHONO-JACK (Not Visible)

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

C. PHONO-INTERCOM/RADIO-INTERCOM SWITCH

This two position switch can be set for intercom, with or without radio or recorded music.

D. MASTER SPEAKER 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.

E. REMOTE SELECTOR SWITCHES

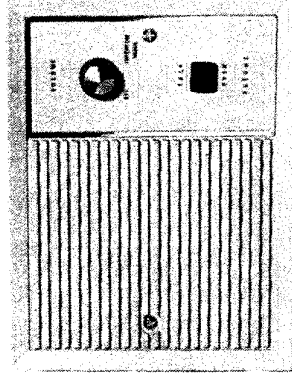
These eight switches individually control the remote stations.

F. MASTER TALK/LISTEN SWITCH

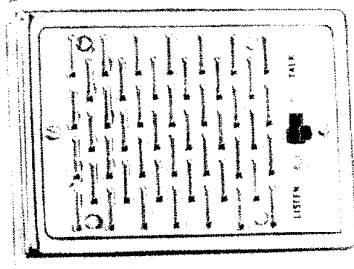
For talking on Intercom from Master.

G. RADIO TUNING DIAL

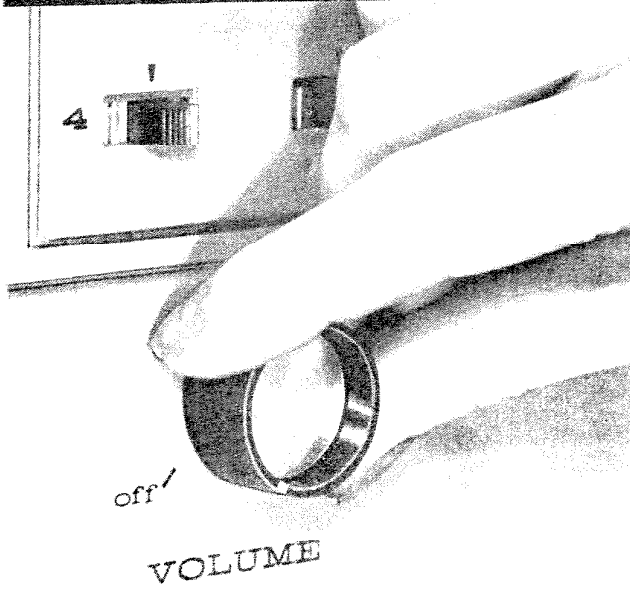
For Radio Station Selection.



INSIDE REMOTE

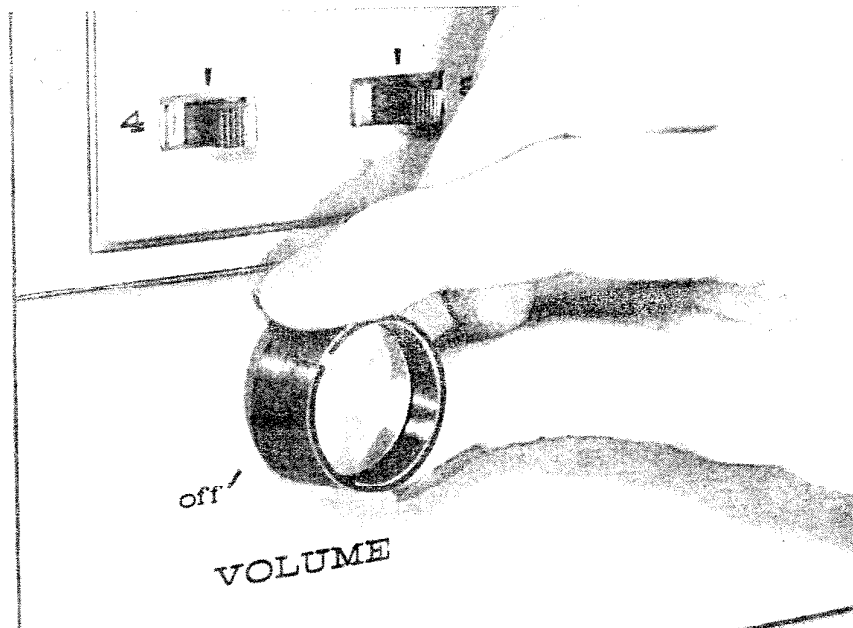


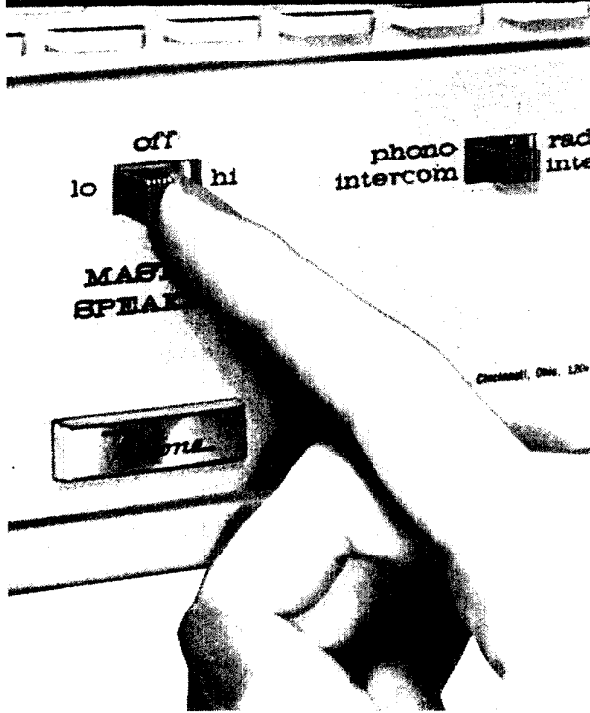
OUTSIDE REMOTE



**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.
- 2.** Set the *VOLUME* for the entire system with this same control knob. Turn it clockwise to make louder. (Use white spot as indicator.)





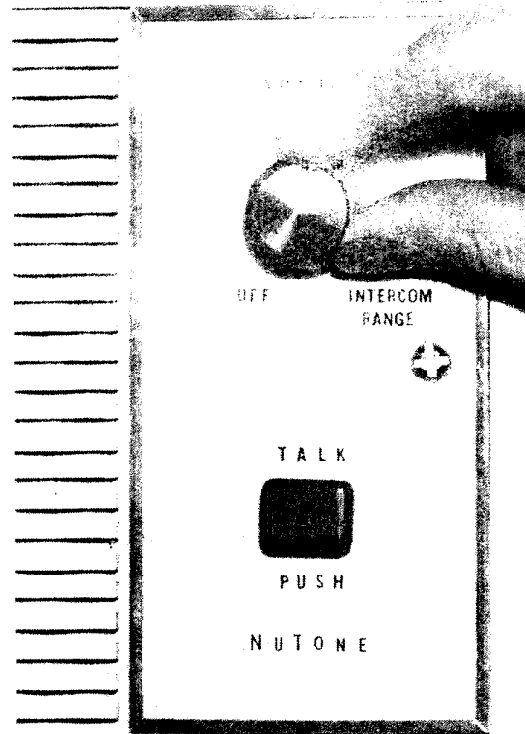
Each Station has its own individual VOLUME CONTROL and PRIVACY CONTROL

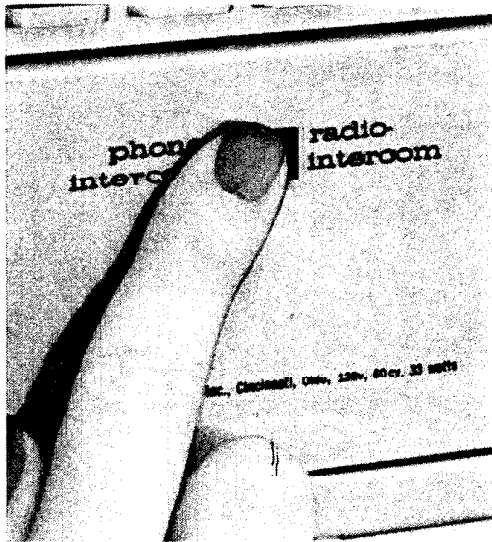
(The outside remote does not have this control)

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

2. To control SPEAKER at any INSIDE 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.





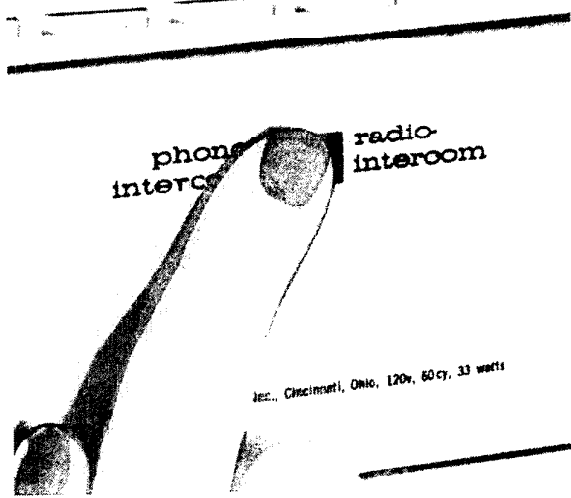
1. Be sure VOLUME knob is turned "ON" and volume is loud enough.

2. Put the Phono-Intercom/Radio-Intercom switch in the Radio-Intercom position.

3. Select your station by turning TUNING Knob.

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

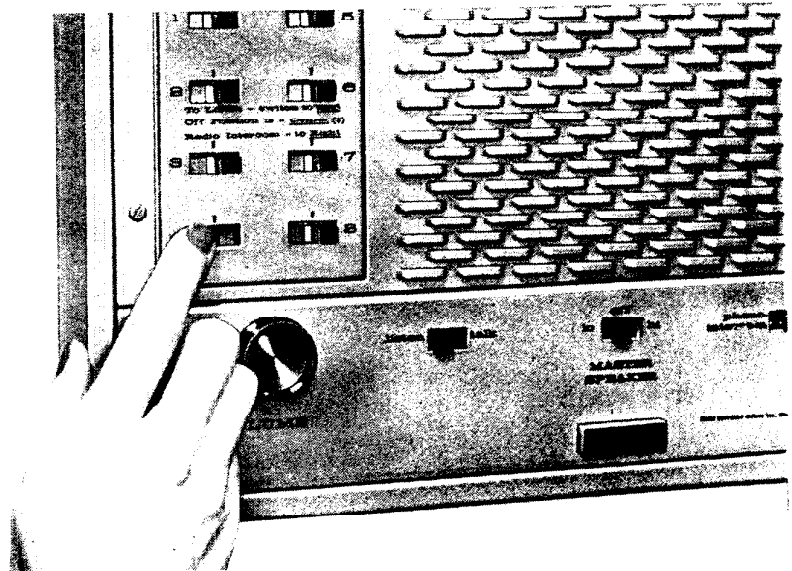
How to "Pipe" Radio Programs to Any Room.



- 1.** Put the Phono-Intercom/Radio-Intercom switch in the Radio-Intercom 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 TO THE RIGHT. 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.

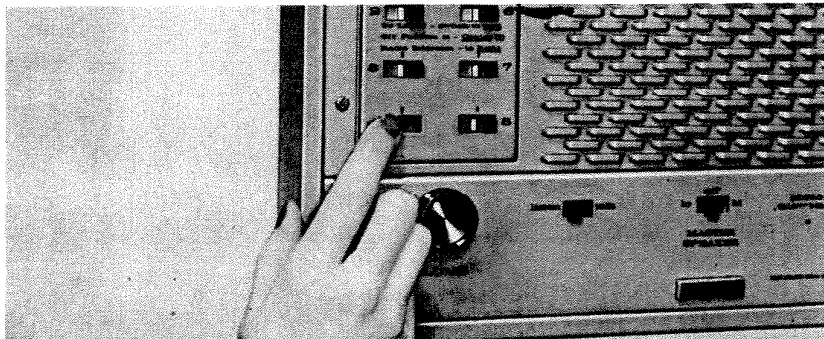
NOTE: It is best to leave all slide switches to the RIGHT until you are ready to change them.



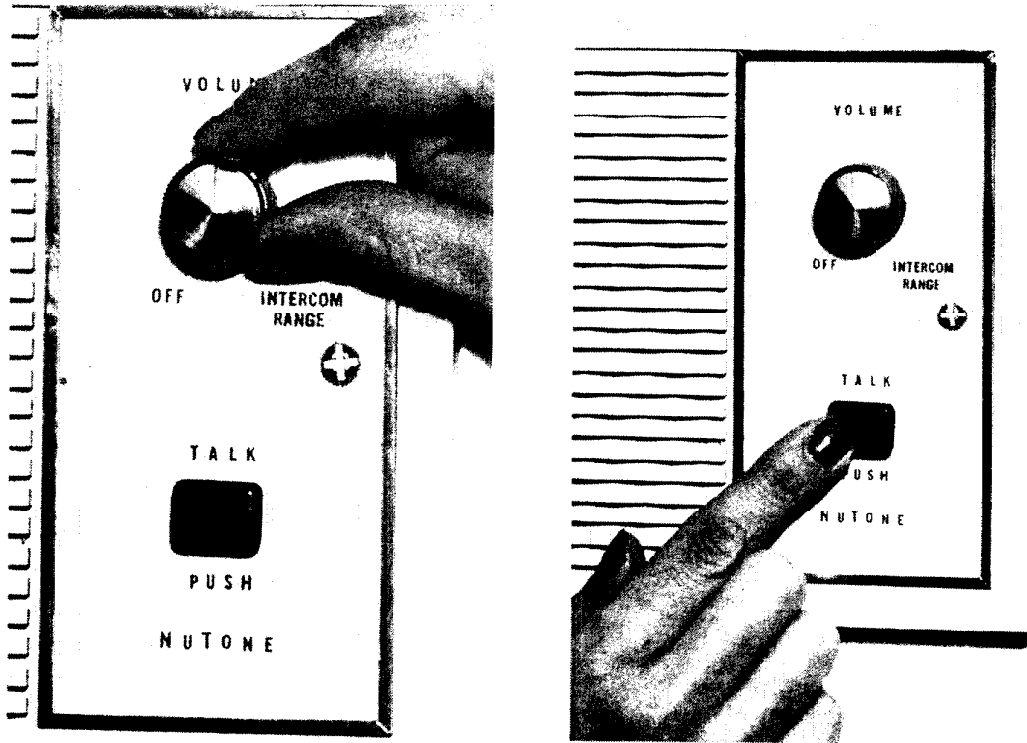
How to carry on TWO WAY conversation from the Master to all other rooms



- 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 to the RIGHT 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 Left (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

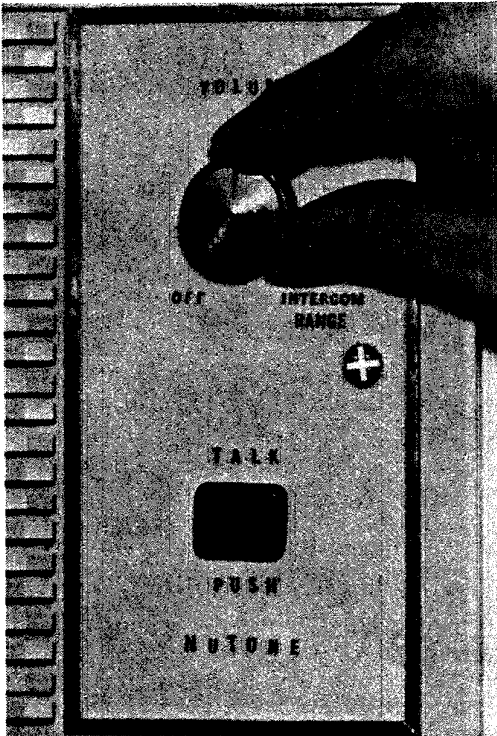


- 1.** You can call the master at any time so long as the entire system is "ON."
- 2.** The individual remote station VOLUME Knob should be turned clockwise to "INTERCOM RANGE."
- 3.** To TALK . . . push the button IN and HOLD it while speaking.
- 4.** To LISTEN . . . release the button and it will spring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

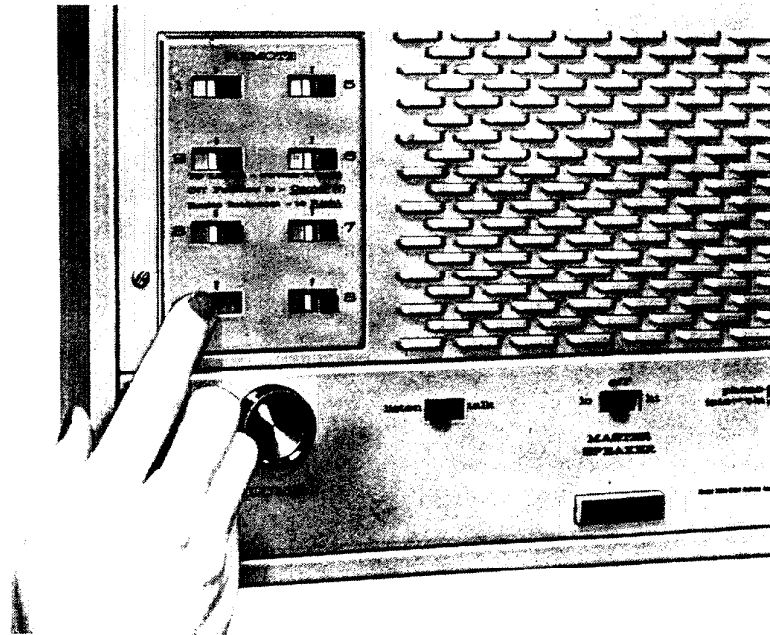
You can call the Master regardless of how the Remote Selector switches at the master have been set.

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 are to the RIGHT — their normal position.
- 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.

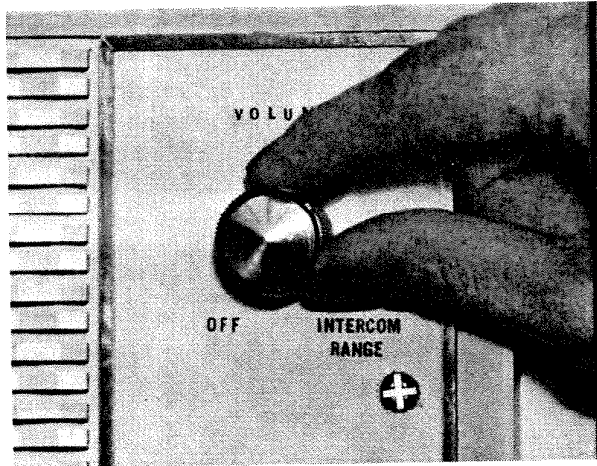
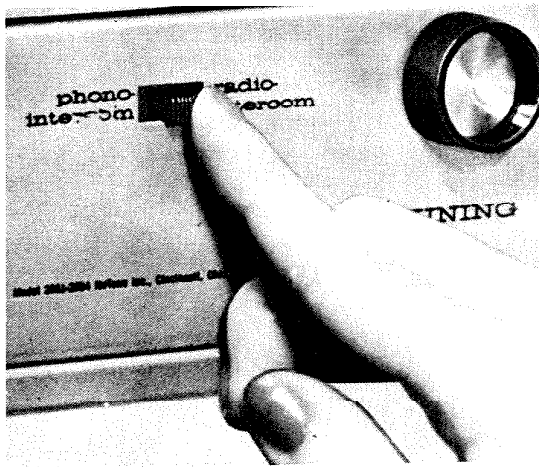
How to "Listen In" on a child's room ● from Master ● from Remote



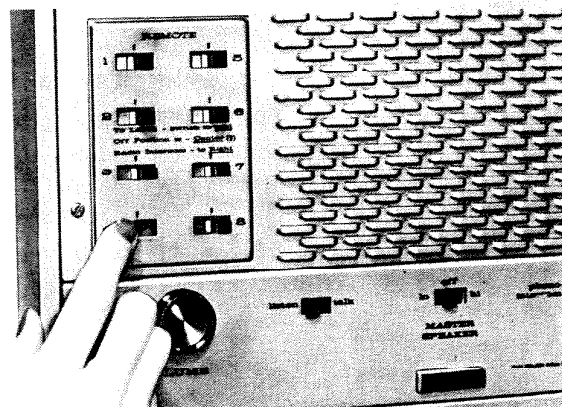
- 1.** You can "LISTEN IN" to any one or more rooms — from the Master — even while you are also listening to Radio or Music.
- 2.** Push the REMOTE SELECTOR SWITCH to the LEFT for any children's rooms or sick-room you want to HEAR. ("LISTEN-IN").
- 3.** You will NOT DISTURB the children's sleep. Even 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 in the *LEFT POSITION* 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 be sure you leave the remote selector switches for your room to the RIGHT in the normal position at the Master. — (Children's room SWITCH to the LEFT)

REMEMBER . . . the child's room switch is to the LEFT while your listening room is to the RIGHT.

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 the Phono-Intercom/Radio-Intercom switch in the Phono-Intercom position.
- 4.** Set the REMOTE SELECTOR SWITCH for your bedroom in RIGHT position at the master.
- 5.** Set all REMOTE SELECTOR SWITCHES for all other inside and outside remotes in LEFT position at Master.
- 6.** Turn VOLUME knob in your bedroom to full clockwise position.
- 7.** Phono-Intercom position is a stand by position for intercom without radio.



How to answer the Front Door

How to have Radio on outside patio

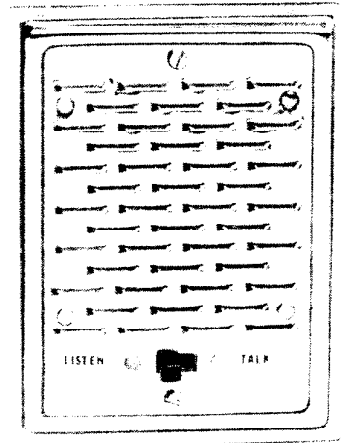
TO ANSWER DOOR FROM MASTER . . .

1. Push the REMOTE SELECTOR SWITCH for the Front Door to the RIGHT.
2. To TALK . . . push the TALK/LISTEN Switch to the LEFT 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 RIGHT 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.

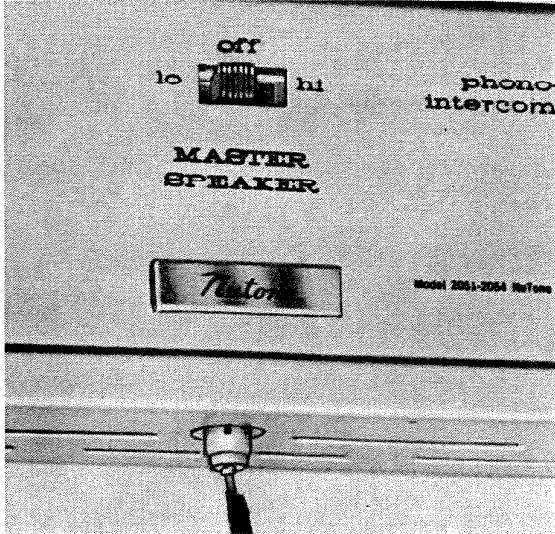


For Patio Use

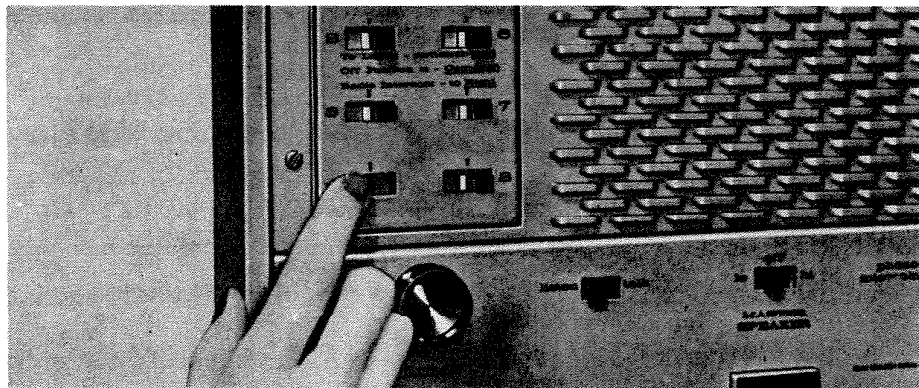
NuTone Model 2020 8" High Fidelity speaker can be used not only in the house where good fidelity is needed, but is also suitable for use on the patio as an outside patio speaker. When used inside, it should be used with our Model 2411-A unit, but when used outside where weather can get at it, a Model 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 Center)
3. Put Phono-Intercom/Radio-Intercom switch in Phono-Intercom 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 to the RIGHT. 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.

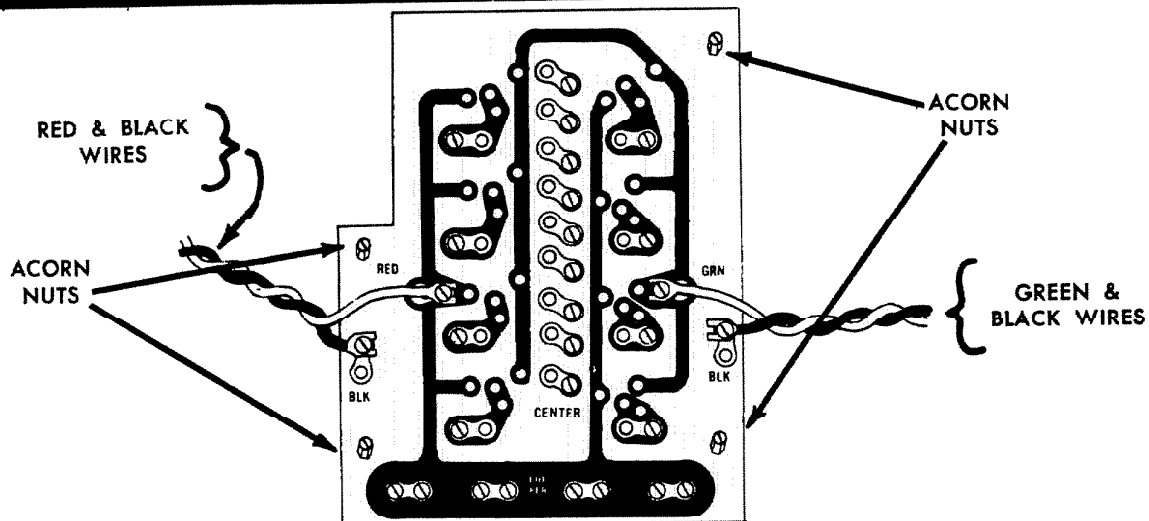
If your system includes an electronic chime, it will be heard over all the speakers whose Remote Selector switch, on the master panel, is to the RIGHT.

TO CONTROL VOLUME set Phono-Intercom/Radio-Intercom switch in Radio-Intercom 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

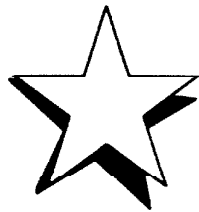


The NuTone Intercom has been designed to be easily serviced. Removal of the two cover screws of the master unit will permit the entire unit to slide forward and tilt out, being held securely at a 60° angle by support brackets. In this position, receiving tubes can be replaced or remote station and antenna wiring connections checked.

If it is necessary to remove the master unit for repair, the remote station wiring need not be disturbed. Remove according to the following instructions:

- Disconnect wire nut securing antenna (single blue wire.)
- Disconnect red and black twisted pair of wires from red and black terminals on the left side of remote station hook-up terminal strip. Disconnect green and black twisted pair of wires from green and black terminals on the right side of remote station hook-up terminal strip.
- Remove four slotted acorn nuts securing terminal strip assembly to front panel. Remove terminal strip assembly from mounting studs.
- Push Master unit slightly to right or left to disengage from support bracket.

- 1.** If you do not want radio, but wish to leave the intercom system functioning, set PHONO - INTERCOM / RADIO - INTERCOM switch in the PHONO - INTERCOM 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.





Built-In Intercom-Radio

Built-In Stereo

Range Hood-Fans

Exhaust Fans

Electric Heaters

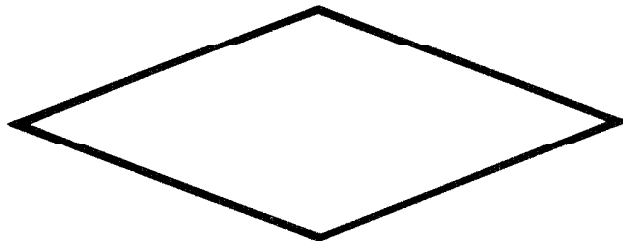
Door Chimes

Built-In Barbecue

Built-In Food Center

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

SERIAL NUMBER



Part No. 32281