

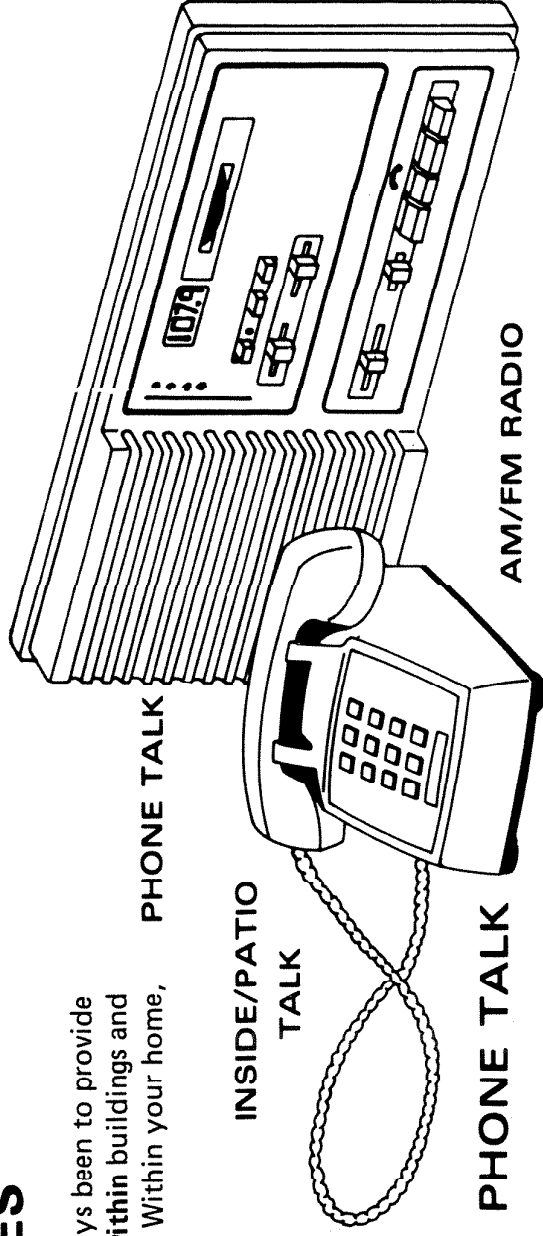
NuTone Radio-Intercom System

**Home Owner's
OPERATING INSTRUCTIONS
Do Not Discard!**

MODEL IM-806 SERIES

An intercom system's function has always been to provide a communication link between locations **within** buildings and homes. But what about the world outside? Within your home, the IMA-806 Radio-Intercom system gives you the quality in sound and convenience in communication that you would expect from a traditional NuTone intercom system. But the IM-806 Series system also reaches beyond the confines of the building by allowing you to answer your telephone from all stations — your intercom link with the world outside.

Take a little time now to read this booklet and learn how your new IM-806 Series Radio-Intercom system works. Once you learn the system's simple operation, the IM-806 Series Radio Intercom will provide you with years of pleasure and convenience.



PHONE TALK

INSIDE/PATIO
TALK

PHONE TALK

DOOR TALK

PHONO/TAPE

PHONE TALK

AM/FM RADIO

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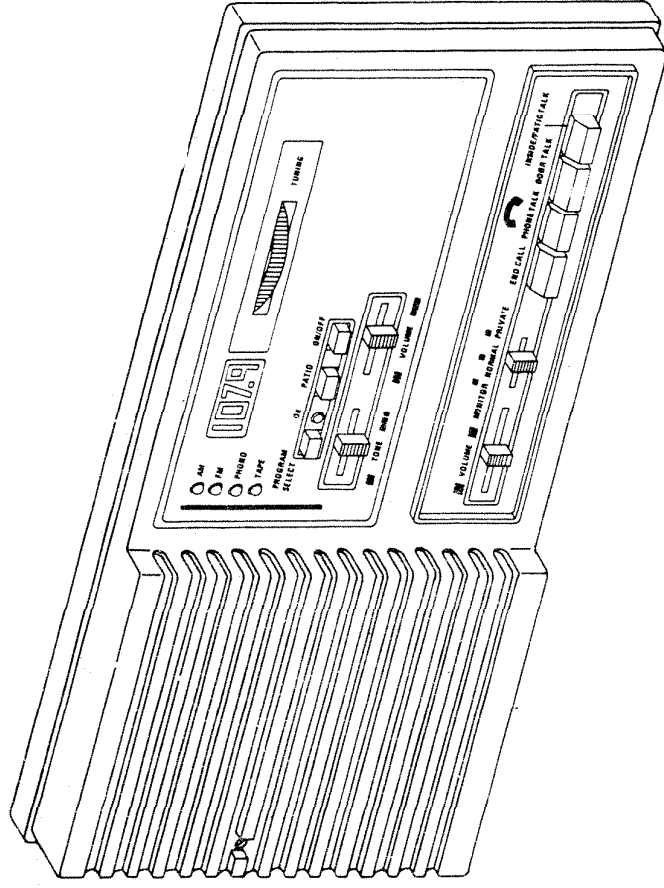
- The optional IT-10 Series Telephone Coupler provides you the convenience of answering your telephone from all stations in the IM-806 Series Radio-Intercom system. **3**
- The Master Station radio includes: thumbwheel tuning; a digital AM/FM frequency display; electronic program selection; LED program indicator lights; volume and tone controls; ON/OFF switch. **3**
- A **PATIO ON/OFF** button allows you to independently control the outside speakers. The **PATIO ON** indicator light shows you when the Patio loop is **ON**. **4**
- The Intercom system is always **ON**. The separate radio **ON/OFF** switch allows you to turn off program material and not affect the Intercom system. **4**
- The IM-806 Series is a decentralized system: every station has its own **PROGRAM** and **INTERCOM** volume controls which can be separately adjusted. Each station has all the intercom controls requires to make and receive all calls. **5**
- Making an intercom call requires the use of only one button. **12**
- Only the person making an intercom call must use the controls - answering is "hands-free" at all stations. **12**
- All stations feature three intercom settings: Normal, Private and Monitor. **13**
- A portable 5" speaker may be used wherever a receptacle is placed throughout the system. **13**
- The system can be equipped with the optional IA-22 Series Chime Module or the system can be connected to any NuTone Electronic Door Chime. **14**

The IM-806 Series Radio-Intercom System

Acquiring an overview of the entire Radio-Intercom system is important for your understanding of how the system works as a whole.

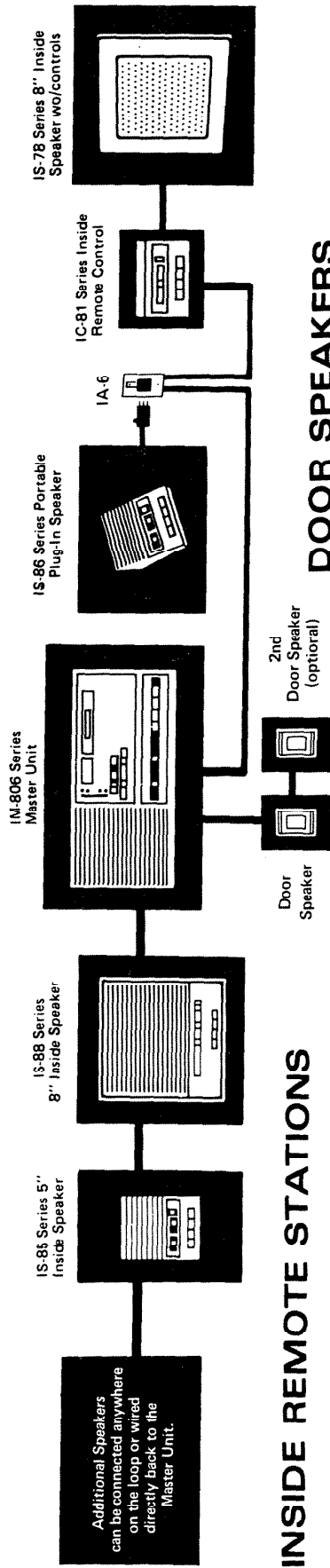
The IM-806 Series Radio-Intercom system has two basic functions: (1) it provides a source of program material for broadcast throughout the building or home, and (2) it acts as a communication system which instantly links every area of the building and grounds to each other and to the world outside via an innovative Telephone answering feature. The system is decentralized so that you can control both Program and Intercom volume at all stations, and every station has complete Intercom operation for making and receiving calls.

Before proceeding with details of operation of your IM-806 Series Radio-Intercom system, review the following explanation to see how the various parts of the system are integrated.



THE MASTER STATION

All power and supply wiring is located here. The Master station is also the source of all program selection (radio, phono, and tape) and contains all the radio controls. The Master Station's intercom function and controls are the same as any remote station in the system.



INSIDE REMOTE STATIONS

The Inside Remote stations may use a variety of speakers. Speakers with controls, probably the most common, contain a speaker, a microphone, a full set of intercom controls, and a Program Volume control.

Speakers without controls, often mounted in ceilings or out-of-reach places, require the use of accessible remote controls. These remote controls contain a full set of intercom controls and a Program Volume control.

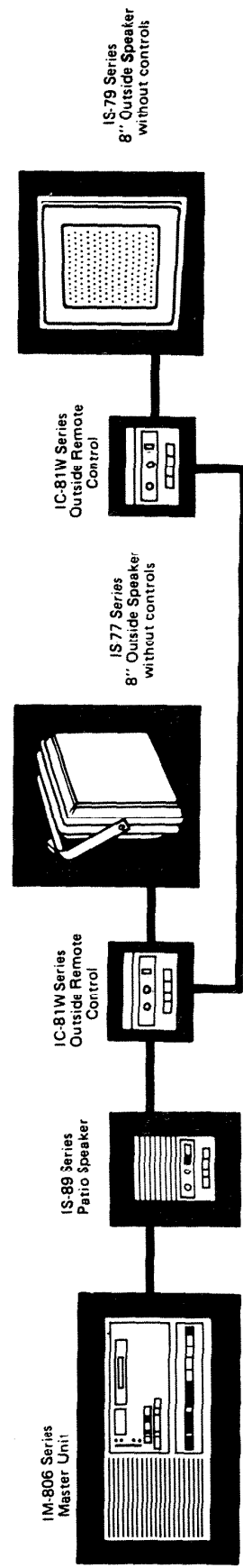
If the proper receptacles have been installed in your home or building, you may also use a Portable Speaker in your system. This speaker, which also contains a full set of intercom controls and a Program Volume control, may be moved from place to place and used wherever it is plugged into an IA-6 receptacle.

DOOR SPEAKERS

In the IM-806 Series Radio-Intercom system, door speakers are the only speakers that have no controls. All intercom operation is controlled by the station you use to communicate with the person at the door.

OUTSIDE REMOTE STATIONS

The outside remote stations use two kinds of speakers: (1) Patio speakers with controls and (2) speakers without controls which are operated by remote controls. In either case, all speakers are operated with a full set of intercom controls and a Program Volume control. The outside speakers and outside remote controls can be turned off and on at the Master station — without affecting the rest of the intercom system.



Optional Accessories

TELEPHONE COUPLER

When the IM-806 Series Radio-Intercom system is equipped with a NuTone IT-10 Series Telephone Coupler, you can answer your telephone from any remote station. This feature is fully explained on page 12.

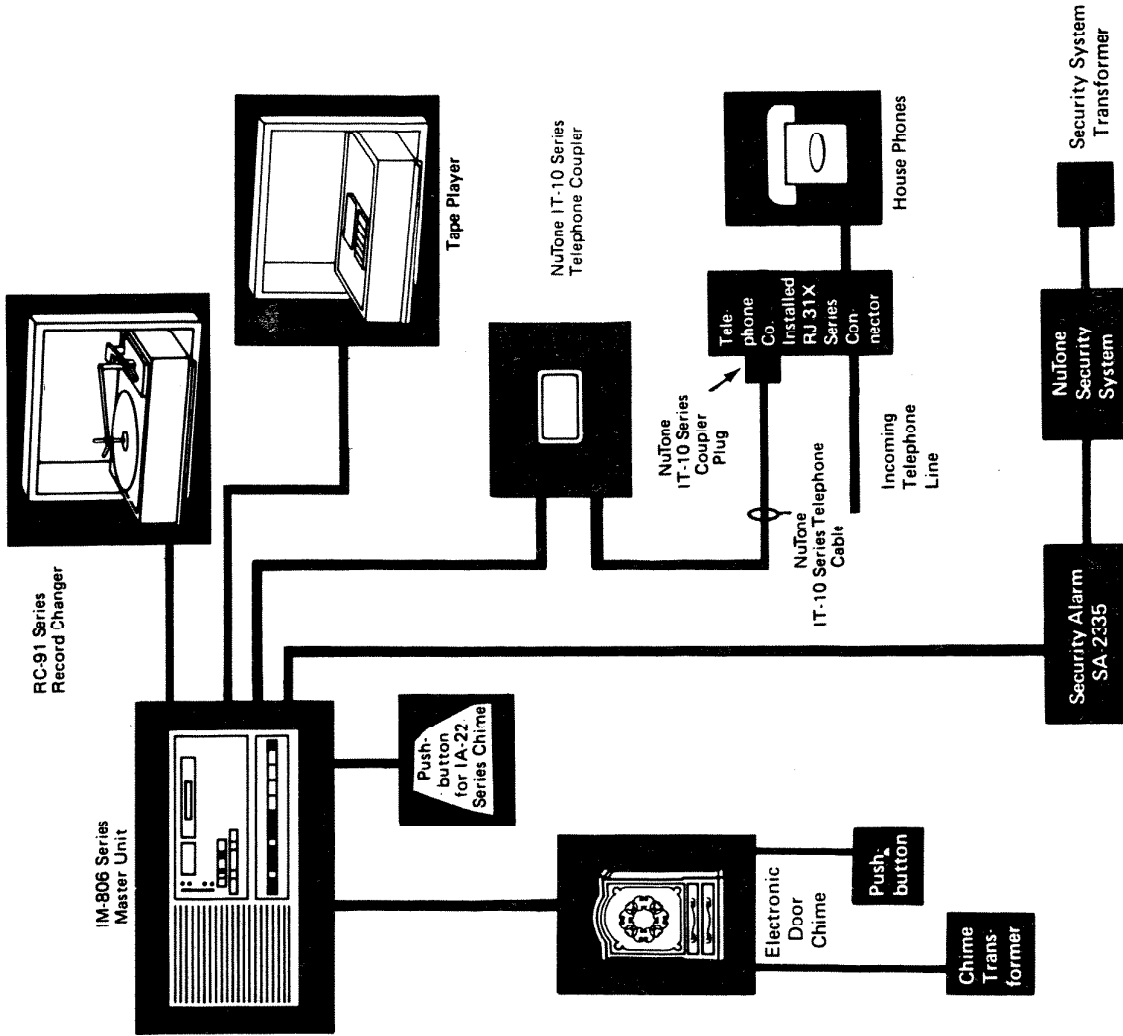
OTHER ACCESSORIES

Security — If you connect your Radio-Intercom system to a NuTone security system, the security alarm will be broadcast throughout the intercom system.

Phonograph and Tape Player — A phonograph and tape player may be connected to your Radio-Intercom system. You use the Program Selector on the Master Station to choose Phono or Tape, and the program source is played throughout the intercom system.

Electronic Door Chime — When a NuTone Electronic Door Chime is connected to your Radio-Intercom system, the chime is played throughout the intercom system.

NuTone IA-22 Series Chime Module — Equipped with the IA-22 Series Chime Module, your Radio-Intercom system will play the chime throughout the intercom system.



INTERCOM CONTROLS

Volume — Use this slide control to adjust the Intercom Volume. Each station may be adjusted to suit your needs. Slide the lever from left to right to increase the intercom volume received by each station.

Private/Monitor Switch — Set this switch for the function you desire:

Normal — All intercom functions are “normal.” This setting is most frequently used.

Private — To attain complete privacy, you may want to use this setting. When a station is set to “Private,” no audio from that station can be sent to other stations. No intercom calls can be made from a station in the “Private” setting. The “Private” setting does not affect incoming program or intercom audio.

Monitor — All audio from a station set to “Monitor” will be sent to all other stations. The “Monitor” setting mutes the station’s speaker and permanently engages the station’s microphone. Audio from a “Monitored” station will accompany program audio. A “Monitored” station cannot receive program or intercom audio.

Inside/Patio Talk — Press this button to make a call to other stations — except the door speakers. Release the button to hear the reply. The reply will only be heard at the station where you made the call.

Door Talk — Press this button to make a call to the door speaker. To hear a reply, release the button. The call and reply will be heard at all stations.

Phone Talk — Press the button to answer the telephone. Release the button to hear the phone caller’s reply. See page 12 for further explanation of this function.

End Call — Press button to end an intercom call. When you press “End Call” the system will automatically return to playing the program source.

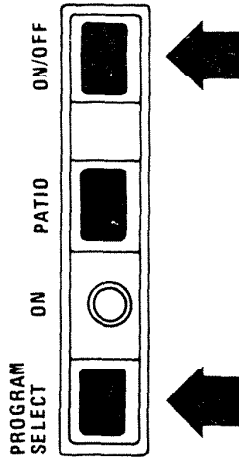
End Call Timeout — You can end a call and return the system to the program source in two ways:

(1) Push the **End Call** button.

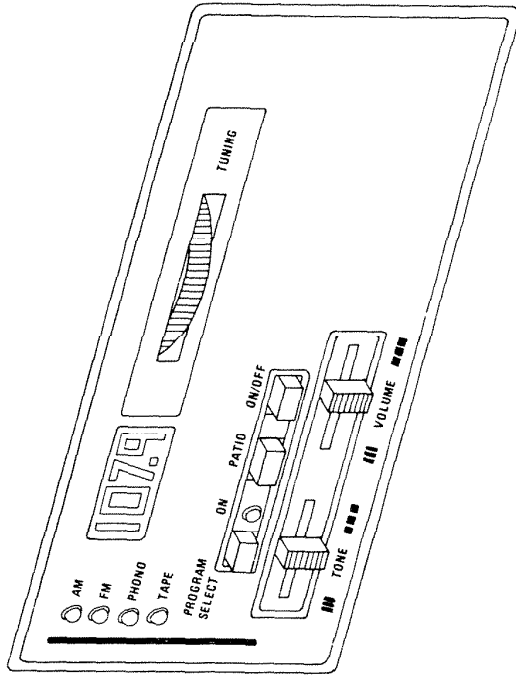
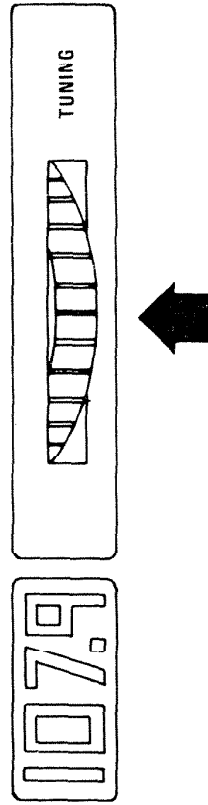
(2) Allow the **End Call Timeout** function to return the system to playing the program source. This timeout period — factory set at approximately 3 minutes — begins each time you release a **TALK** button.

Radio Operation

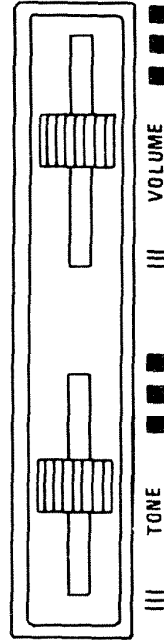
1. Push the **ON/OFF** pushbutton to **IN** position. One of the Program indicator lights will light.
2. Press the **PROGRAM SELECT** button to choose **AM** or **FM**. The Digital AM/FM Frequency Display will light. The indicator light will show you what program source is engaged.



3. Use **TUNING WHEEL** to tune the radio to the station you want.



4. Use the **VOLUME** slide control to adjust the radio's loudness. Slide the control left to right to increase radio volume. Each station is controlled by its own Volume Control.
5. If necessary, adjust the **TONE**. Slide the control to the right to increase treble, left to decrease treble. This control adjusts radio Tone for all stations.



Intercom Operation

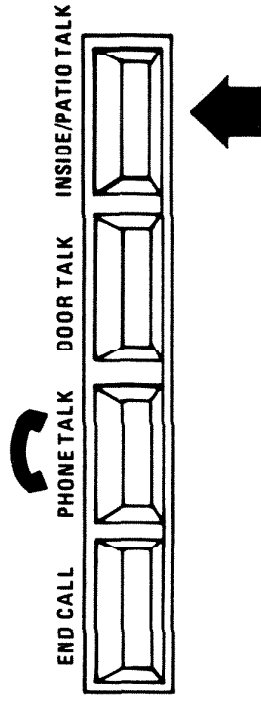
Before you proceed to each intercom operation, make the following adjustments. Then, after operating your system, adjust the specific controls to suit your taste and needs.

1. Press **END CALL** button.
2. Adjust all system **PROGRAM VOLUME** and **INTERCOM VOLUME** controls to one-third (1/3) of maximum.

3. Place all **PRIVATE/MONITOR** switches in **NORMAL**.
4. Set **TONE** control on Master Station to mid-range.
5. Set **PATIO ON/OFF** button to **OUT** position.

HOW TO MAKE A CALL TO INSIDE SPEAKERS

1. Depress the **INSIDE/PATIO TALK** button and hold the button down while you speak.

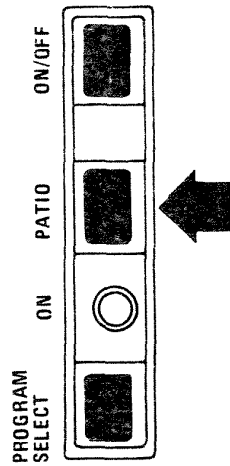


4. Continue depressing the button to speak and releasing it to listen.
5. Press **END CALL** to end intercom conversation and return the system to playing the program source. If you do not press **END CALL**, the system will automatically return to playing the program source approximately 3 minutes after you've last released the **TALK** button. (See "End Call Timeout," page 14.)

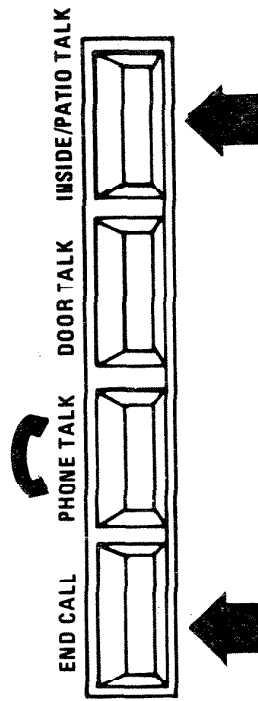
2. Your voice will be heard at all stations — except the doors speakers.
3. Release the **INSIDE/PATIO TALK** button to hear reply.

HOW TO MAKE A CALL TO OUTSIDE (PATIO) SPEAKERS

1. Press the **PATIO** pushbutton to IN position to turn on the outside speakers.
2. The **PATIO ON** indicator light will illuminate.



3. Depress the **INSIDE/PATIO TALK** button and hold it down while you speak.
4. Your voice will be heard at all stations — both indoors and outdoors (except the door speakers).
5. Release the **INSIDE/PATIO TALK** button to hear reply.
6. Continue depressing the button to speak and releasing it to listen.



7. You end the call by pressing **END CALL**. The system will immediately return to playing the program source. If you do not press **END CALL**, the system will automatically return to playing the program source approximately 3 minutes after you've last released the **TALK** button. (See "End Call Timeout," page 14.)

HOW TO RECEIVE A CALL AND MAKE A REPLY

1. When you hear a call, go to the nearest station. As the person making the call releases his **TALK** button, microphones in all remote stations are activated.
2. When you reply to a call made from another station, you **do not use any controls**. Your response is "Hands Free." (See "Hands Free" Operation," page 11.)
3. Speak into remote station. Your reply will be heard only at the station where the call was made.
4. Since the caller controls the intercom conversation, wait until he has stopped speaking before you reply.
5. The person who made the call will end the conversation.

"HANDS FREE" OPERATION

The IM-806 Series Radio-Intercom system is designed so that **only the person making the call must use the intercom controls**. If you make a call, you press a TALK button to speak and release the button to listen to a reply. **The person who receives the call does not use any controls.**

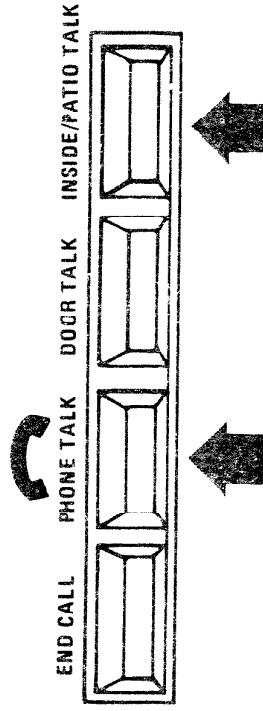
However, there are exceptions to this feature:

1. You make a call from station A. Suppose the person who responds from station B forgets about "Hands Free" operation and **unnecessarily presses the INSIDE/PATIO TALK button.**

When this happens, **both you and the person who is responding will have to press and release your INSIDE/PATIO TALK buttons in order to continue your conversation.**

This situation can be avoided if the person who responds to a call always remembers to observe "Hands Free" operation.

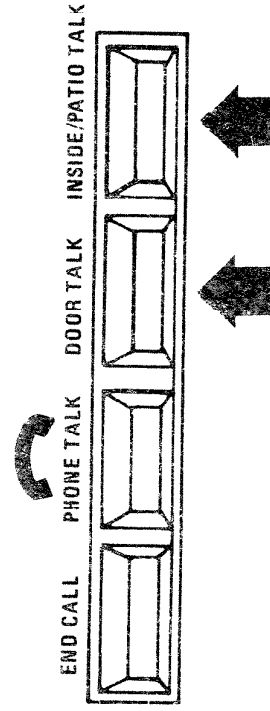
2. **Secondary Calls.** You may want to make secondary calls on your intercom system. A secondary call is one you make with the **INSIDE/PATIO TALK** button while you have a call in progress to the Phone or Door. The person who answers the secondary call will not have "Hands Free" operation; he must be informed that this is a secondary call and that he must use the **INSIDE/PATIO TALK** button to reply to your secondary call.



AN EXAMPLE. You are in the basement laundry area when you hear the door chime ring. You walk over to station A, press **DOOR TALK**, and ask, "Who is it?"

A package deliveryman answers through the door speaker. You press **DOOR TALK** again and ask him to wait a minute. Since you are busy, you press **INSIDE/PATIO TALK** to ask someone upstairs to go to the door. The person who replies from station B must press their **INSIDE/PATIO TALK** button to respond to your secondary call.

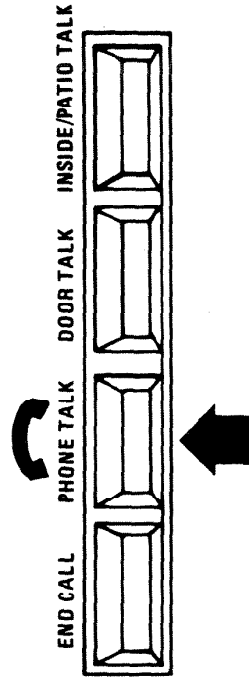
NOTE: Secondary intercom conversations will be private from the phone lines.



HOW TO ANSWER THE PHONE FROM YOUR IM-806 SERIES RADIO-INTERCOM SYSTEM

To have phone-answering capabilities, your system must be equipped with a NuTone Model IT-10 Series Telephone Coupler.

1. You will hear the ring signal from both the phone and the intercom system.
2. Go to the nearest station, depress the **PHONE TALK** button, and hold the button down while you speak.



3. Release the **PHONE TALK** button to hear the phone caller's reply. The **PHONE TALK** button must be released before the phone caller's voice can be heard.

COMMUNICATION HINT: In everyday conversations, sometimes people will both talk at the same time. In intercom conversation, only one person can talk — and be heard — at once. To avoid overlapping conversation, you may want to tell the phone caller that you are answering from an intercom station and that they must wait until you've finished speaking before they reply.

4. To end the phone conversation — in effect, "hang up" the phone — press the **END CALL** button.

PRIVATE PHONE CONVERSATIONS

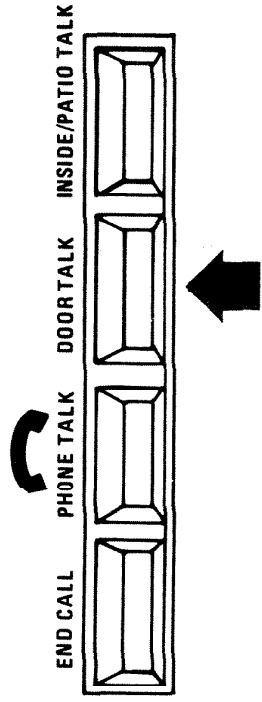
When you answer the phone from an intercom station, all stations will hear both ends of the conversation. More often than not, you will enjoy the convenience of answering the phone from an intercom station but will wish to continue the conversation privately.

All you have to do to transfer the call from intercom to telephone is pick up the telephone receiver. When you lift the receiver from the cradle, the phone call will automatically be taken off the intercom system. The system will then timeout and return to playing program material.

You should **not** press **END CALL** before you pick up the telephone receiver: by doing so you will "hang up" on the phone caller.

HOW TO MAKE A CALL TO THE DOOR SPEAKER

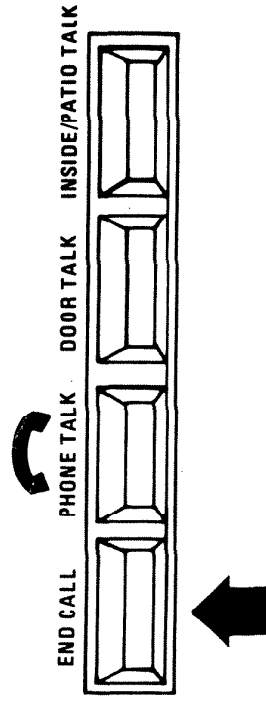
1. Your IM-806 Series Radio-Intercom system can be equipped with an optional NuTone IA-22 Series Chime Module. Or the system can be wired to an external NuTone electronic door chime. In either case, the door chime will play through the intercom system.
2. When someone at your door pushes the door chime's pushbutton, you will hear the chime throughout the intercom system.
3. Go to the nearest intercom station and depress the **DOOR TALK** button.



4. Hold the button down while you speak and release the button to hear the door caller's reply.
5. Both your call to the door and the door caller's reply will be heard at all intercom stations.

HOW TO END AN INTERCOM CALL

1. Before an intercom talk function — **INSIDE/PATIO, PHONE, or DOOR** — is employed, your Radio-Intercom system will be in one of two modes:
 - Silent** — The intercom system will be on but it will be silent.
 - Program** — The intercom system will be playing one of the program sources — radio, phono, or tape.
2. When a **TALK** button is pressed, the intercom becomes active and mutes the program source.
3. After you have completed an intercom call, you can immediately return the system to playing the program source by pressing the **END CALL** button. If a program source was not playing, the intercom system will return to its silent mode.



(continued. . .)

End Call Timeout — The IM-806 Series system is equipped with a timer to automatically end intercom calls. The **TIMEOUT** is factory set for approximately 3 minutes.

You reset the timer every time you press one of the **TALK** buttons. If you complete an intercom call and do not press **END CALL**, the system will return to its original state 3 minutes after you last released the **TALK** button.

This feature is particularly convenient when you are answering the phone from an intercom station but want to continue the phone conversation privately. Since you cannot press **END CALL** before you pick-up the phone receiver without “hanging-up” on the phone caller, it is convenient to allow the system to automatically timeout. Then, there is no need to return to the intercom after you have completed your private phone conversation.

The End Call Timeout places one limitation on the system when a call is being made between intercom stations. If the person who replies to an intercom call talks for more than 3 minutes, the system will automatically end the call. Although this situation will certainly not be common, the caller can avoid it by occasionally pressing and releasing the **TALK** button before the timeout occurs.

Volume and Timeout Adjustments

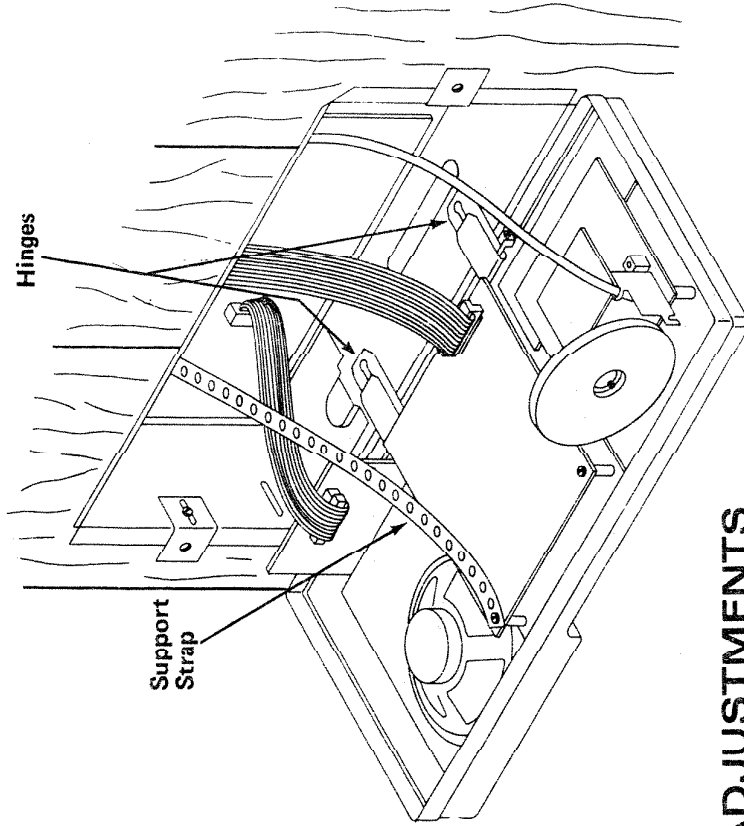
Your IM-806 Series Radio-Intercom is a decentralized system. All stations have **PROGRAM VOLUME** and **INTERCOM VOLUME** controls which you can adjust to your taste and needs. The Radio has a **TONE** control which can also be adjusted.

The volume levels to and from the phone lines and to and from the door speakers have been factory set at normal levels. The **END CALL TIMEOUT** has also been factory set at approximately 3 minutes. If the volume levels and the timeout period needed readjustment, the installer was instructed how to make these adjustments.

Although the volume levels and the timeout period will probably not need adjustment, you may adjust them. If adjustment is necessary, **carefully** follow this procedure:

PLACING MASTER STATION IN SERVICING POSITION

1. Remove the two (2) screws which secure the Master Station to the rough-in frame.
2. Master Station can now be opened on hinges and opening will be limited by support strap.

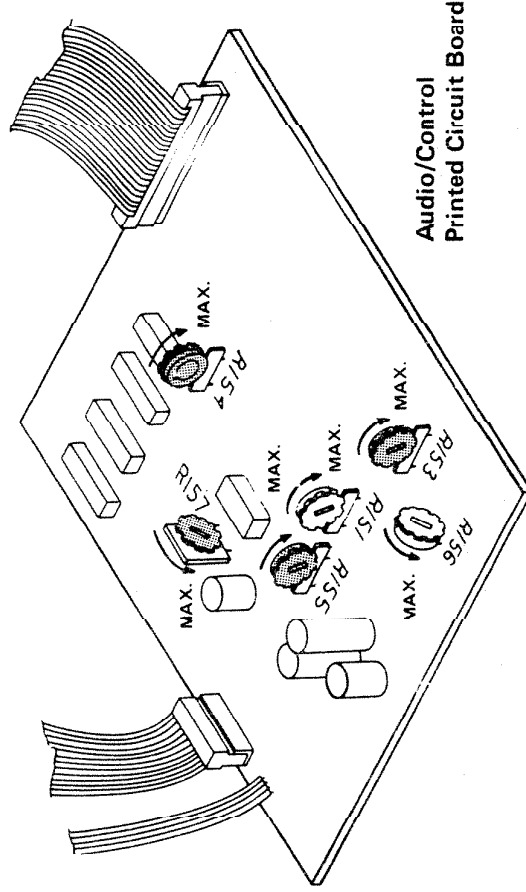


POT NUMBER	FUNCTION
*R156	Audio to door speaker (and phone).
*R151	Audio to phone lines.
R155	Audio from phone lines.
R154	System phone ring signal.
R153	Audio from door speaker.
R157	"End Call" timeout.

*Because audio to phone and door is controlled by the same amplifier, adjusting R156 will also affect audio to phone. R156 should always be adjusted BEFORE R151.

ADJUSTMENTS

1. Locate the six thumbwheel pots on the Audio Control printed circuit board. Five pots control volume levels to and from the telephone and door speaker; the sixth pot controls the length of the End Call Timeout.
2. See illustration for the location of each thumbwheel pot.
3. If necessary, adjust each pot as desired. The arrows show the direction you should turn each thumbwheel to increase volume or time.
4. The numbers and functions of each pot are listed below. **Make the adjustments only in the order given.**



LIMITED WARRANTY — NUTONE DIVISION, SCOVILL INC.

NuTone products are warranted to be free from defects in material and workmanship for the "Warranty Period" which is (a) five years from date of original manufacture in the case of Motors employed in all NuTone Paddle Fans; and (b) twelve months from date of original installation in the case of all other NuTone products. Light bulbs, dial lights, record changer needles, batteries (with the exception of those specifically designated as rechargeable) and other consumable items, are not warranted or guaranteed in any manner for any length of time.

Our warranty does not cover damage or failure caused by Acts of God, abuse, misuse, abnormal usage, faulty installation, improper maintenance or any repairs other than those provided by a NuTone Authorized Service Center. There are no obligations or liabilities on the part of NuTone or Scovill Inc. for consequential damages arising out of or in connection with use or performance of the product or other indirect damages with respect to loss of property, revenues or profit, or costs of removal, installation or reinstatement. All implied warranties with respect to NuTone products, including implied warranties for merchantability and implied warranties for fitness, are limited in duration to (a) five (5) years from date of original manufacture in the case of Motors employed in all NuTone Paddle Fans; and (b) twelve (12) months from date of original installation in the case of all other NuTone products.

Some states do not allow the exclusion or limitation of incidental or consequential damages and some states do not allow limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

During the "Warranty Period", NuTone will repair or replace, at NuTone's sole option, free of charge, any defective parts returned prepaid to our closest NuTone Authorized Service Center, provided, however, NuTone will not be responsible for and will not pay for any costs or expenses relative to the removal or reinstatement of any product or any part of any product after the first 12 months of the "Warranty Period" have expired. Please provide the model number of the product, original date of installation and nature of difficulty being experienced. There will be charges rendered for product repairs made after our "Warranty Period" (as defined above) has expired. This warranty gives you specific legal rights and you may have other rights which vary from state to state.

For the name of your nearest NuTone Authorized Service Center, residents of the contiguous United States should call, Toll Free, 800-543-8687.

Residents of Alaska, Hawaii and other locations outside the contiguous United States should write to NuTone Division, Scovill Inc., Madison and Red Bank Roads, Cincinnati, Ohio 45227 — Attention: Department of Consumer Relations. PR-2899 — Rev. 3/11/81

Product specifications subject to change without notice.

NuTone

Hoisington Group Scovill

Note to Canadian customers:

If preferred, a French language Operator's Manual can be obtained by writing to NuTone Electrical, Limited, 2 St. Lawrence Ave., Toronto, Ontario, Canada M8Z 5T8. Please specify part number (49130).

Avis a nos clients Canadiens:

Si vous le désirez, un manuel est a votre disposition avec un mode d'emploi détaillé en Français. Pour l'obtenir écrire a NuTone Electrical, Limited, 2 St. Lawrence Ave., Toronto, Ontario, Canada M8Z 5T8. En prenant soin de spécifier le numero de piece (49130) qui vous intéresse.

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