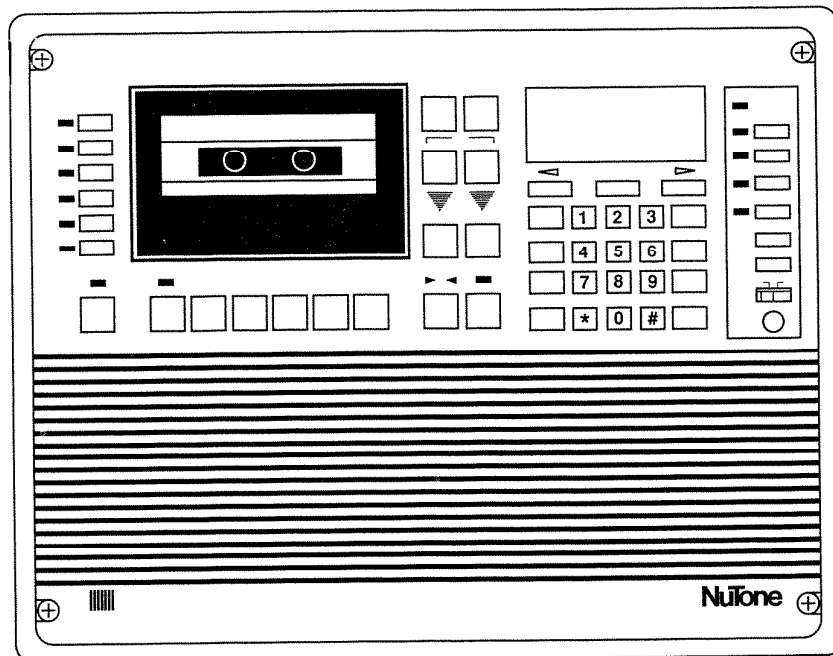


NuTone SELECTIVE CALL INTERCOM SYSTEM MODEL IM-5006 SERIES



**HOMEOWNER'S
OPERATING
INSTRUCTIONS**

FCC INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The serial number of this product may be found on the back of the Master Station. No others have the same serial number as yours. You should record the number and other vital information here and retain this book as a permanent record of your purchase to aid identification in case of theft.

Date of Purchase	
Dealer Purchases from	
Dealer Address	
Dealer Phone No.	
Model No.	IM-5006
Serial No.	

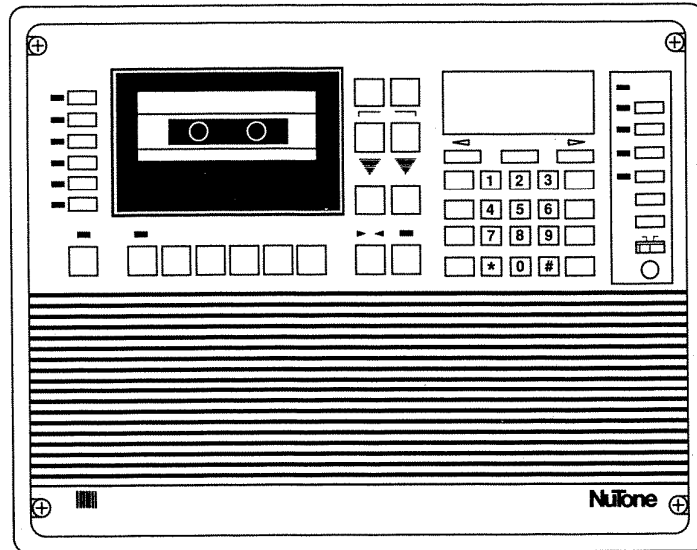
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IMPORTANT

This product has many functions and controls. Please read entire operating instructions before using this product.

MODEL: IM-5006



IF YOU SHOULD ENCOUNTER PROBLEMS WITH THE INTERCOM SYSTEM...

If your Intercom System is not operating properly, the Internal Microprocessor might need to be reset. Two (2) levels of user reset have been incorporated into the Intercom System. Start with Level 1 and if problem has not been corrected proceed to Level 2.

NOTE: Level 2 will erase the system's memory and default the system back to the original factory preset.

LEVEL 1: To reset an individual station press * 9 # on station keypad. Pressing * 9 # at the master station resets the master. However, stored information will be retained.

LEVEL 2: A total system reset can be accomplished by pressing * 8 # on the master station keypad. All stations in the system will reset and information stored at the master will be cleared.

NOTE: If problem has not been corrected by the above procedure contact a qualified NuTone service center.

NOTE: If NuTone's Home Control feature is to be used with the radio-intercom system, refer to the installation instructions that are included with the interface module for complete product information.

Programming the Digital Display

SETTING THE TIME

Press the **END CALL** key at any time to return the system to the original display. Use the following procedure to set the time:

1. Press the **MEMORY** key and then press the **TIME** key. **Note:** A "beep" will be heard when the **TIME** key is pressed to indicate that the system is in the **time setting mode**. The display will appear as:



SET TIME:
12:00 AM

↑ Cursor will appear here

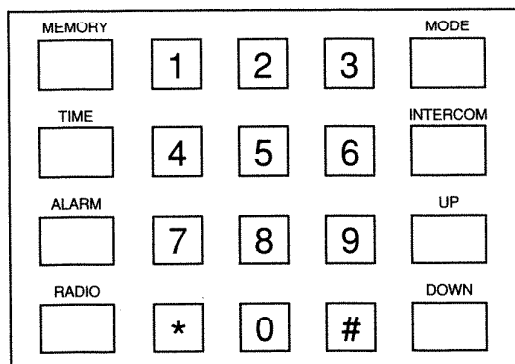
2. Using the **UP** and **DOWN** keys, set the display to the correct hour. **IMPORTANT: Be certain AM or PM has been set by scrolling through the 12:00 setting.**
3. After the correct hour has been entered, press the **MODE** key to set the minutes. The display will appear as:



SET TIME:
10:00 AM

↑ Cursor will appear here

4. Using the **UP** and **DOWN** keys, set the display to the correct minutes.



5. When the correct time has been entered, press the **MEMORY** key. **NOTE:** A "beep" will be heard when the **MEMORY** key is pressed to indicate that the system has stored the time setting.

NOTE: The time will not be stored if the **MEMORY** key is not pressed.

If 30 seconds elapses and a key has not been pressed, the system will return to the original display.

Press **END CALL** anytime during the time entry and the system will return to the original display.

Programming the Digital Display (Continued)

SETTING THE ALARM TIME

The master station and each of the remote stations may be programmed for its own Wake-up/Alarm time. At the programmed time, an alarm will be heard.

NOTE: The alarm times cannot be entered while the system is busy (busy light is lit).

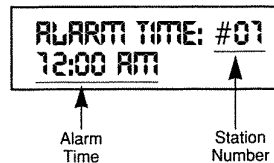
Use the following procedure for setting the alarm time(s):

1. To obtain the **ALARM** mode, press * 0 on the station's keypad. A "beep" will be heard indicating the system is in the **alarm time setting mode**.
2. Enter the time desired for the alarm to sound. **Example:** If you would like the alarm to sound at 12:35, enter **1, 2, 3, 5**.
3. **To enter AM or PM**
FOR PM – enter * (after the alarm time has been entered).
FOR AM – no entry is needed (after the alarm time has been entered).
4. Press the # key when the desired alarm time has been entered.
NOTE: A "beep" will be heard when the # key is pressed to indicate that the alarm time has been set.
5. When the alarm sounds at the time that has been set, press any key at the station (**0 thru 9**) to turn the alarm off.
6. Once the alarm has been sounded and has been turned off, the alarm may again be set to the same alarm time by pressing * 0 #.
NOTE: When * 0 # is pressed, a "beep" will be heard to indicate the alarm has been set.
7. Press * 0 # after the alarm time has been set but before the alarm has sounded to cancel the alarm. **NOTE:** A "beep-beep" will be heard after * 0 # is pressed to indicate that the alarm has been cancelled.

To Check Wake-up/Alarm time(s):

To verify the wake-up/alarm time that has been entered for each station:

1. Press the **ALARM** key at the master station. The display will appear as:



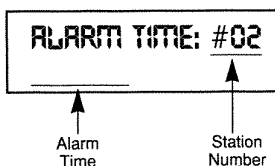
The station number and alarm time will appear in the display.

(continued)

Programming the Digital Display (Continued)

To Check Wake-Up Alarm Time(s) (continued)

2. Press the **UP-DOWN** keys to continue to the next station number. The display will appear as:



NOTE: The alarm time display will be blank for any station that an alarm time has not been entered.

3. Press **END CALL** to return the system to the original display. Or, the system will return to the original display automatically if 30 seconds elapses and an entry has not been made. **NOTE:** Continue to verify wake-up/alarm time(s) until you have become familiar with the system.

SETTING THE INTERCOM STATION NAMES

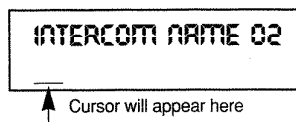
The Intercom System may include up to 25 stations (including the Master Station).

IMPORTANT: At the time of installation, the installer determines the station identification numbers for each station. The Master Station has been preprogrammed and must remain as Station 01. Use the following procedure to program the stations into the master unit.

1. Press the **MEMORY** key and then the **INTERCOM** key. A 'beep' will be heard when the **INTERCOM** key is pressed to indicate that the system is in the **Intercom Station Name Programming Mode**. The display will appear as:



2. Press the **UP** or **DOWN** keys to move the display from position 01 through position 25.
3. When the desired position is displayed, press **MODE** key.



(continued)

Programming the Digital Display (Continued)

Setting The Intercom Station Names (continued)

- Using the **UP** and **DOWN** keys, scroll through the alphabet to set the name of the intercom station.

NOTE: As the **UP** and **DOWN** keys are pressed, the system will scroll as follows: &, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, etc. - through the entire alphabet.

NOTE: The first character will be a blank space.

Once the display has reached the letter "Z," the display will start at the beginning of the list again.

- When the desired letter is displayed, press the **>** key to move the cursor to the next position and repeat step 4.



Press the **>** or **<** key to move the cursor to each position.

- After the desired station name has been entered, press the **MODE** key. The display will appear as:



Cursor will appear here

- Press the **UP-DOWN** keys to proceed to the next Intercom station.



Cursor will appear here

- Repeat steps 2 thru 7 until all of the intercom station names have been entered.

IMPORTANT: After entering each intercom station name, either the **MEMORY** key or the **MODE** key must be pressed for the system to store the name that has been entered.

NOTE: Press the **MEMORY** key at any time to return the system to original display. If 30 seconds elapses and an entry has not been made, the system will return itself to the original display. The **END CALL** key may also be pressed at any time to cancel an entry that is in process.

Audio Source Selection

1. Press the **ON/OFF** key and the **LED** next to the key will be lit.

Now, select any of the four (4) audio sources: **AM**, **FM**, **PHONO** or **CD/TAPE**.

NOTE: You may switch from one audio source to another without having to turn the first audio source off.

Example: If the AM mode has been selected and then the FM key is pressed, the AM radio will be turned off and the AM LED will be turned off. The FM radio will now be on and the FM LED will be lit.

RADIO OPERATION

1. Select the desired radio band frequency by pressing the **AM** or **FM** key. The **LED** next to the key that has been selected will be lit.

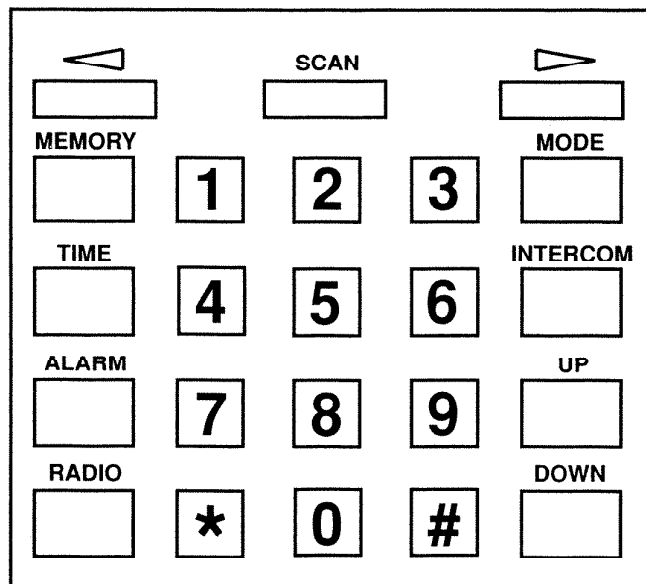
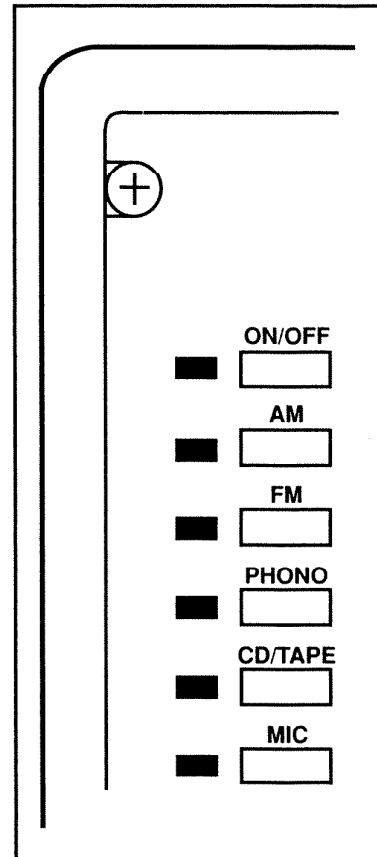
NOTE:The **LED** next to the **ON/OFF** key will also remain lit.

2. Tune the radio to the desired frequency using one of the following methods:

- A) **RAPID TUNE** – Depress and hold either the **<** or the **>** key. Release the key when the desired frequency is seen on the display.
- B) **STEP TUNE** – Momentarily touch either the **<** or the **>** key and the radio will step to the next radio frequency.

- C) **SCAN TUNING** – Press the **SCAN** key and then press either the **<** or the **>** key. The system will seek to the next station, stop for 5 seconds and then continue to the next station.

Once the desired radio station is being displayed, press the **SCAN** key and the radio station will continue to play past the five (5) second interval.



Audio Source Selection

(Continued)

3. **RADIO MEMORY** – Five (5) AM and five (5) FM radio frequencies may be stored in the system's memory for instant recall by using the following procedure:
 - A) Select AM radio.
 - B) Tune to the radio frequency to be stored.
 - C) Press the **MEMORY** key and then press the **RADIO** key.
Next, press one of the number keys (1 - 5) on the keypad. The radio frequency will be stored in the system's memory.
 - D) Repeat for all five (5) station memory locations.
NOTE: For your convenience, it is recommended that the lowest frequency be stored in the first location, the next highest frequency in the second location, etc. through all five (5) memory locations.
 - E) Switch the system to FM and repeat these steps for five (5) memory locations.

TO SELECT THE PROGRAMMED FREQUENCIES:

- A) Select AM or FM mode.
- B) Press the **RADIO** key and then press 1 - 5 on the keypad.
The radio station that has been stored in the selected memory location will be heard at the master station.

PHONO & CD/TAPE OPERATION

Optional Audio Sources may be selected by using the following procedure:

1. Press **PHONO**. If an optional phonograph (not supplied by NuTone) has been connected to your intercom system, this unit will be heard as the audio source. To turn the phonograph audio off, press the **ON/OFF** key.
2. Press **CD/TAPE**. If an optional CD Player or tape player has been connected to your unit, this unit will be heard as the audio source. To turn the CD player or tape player audio off, press the **ON/OFF** key.

RADIO VOLUME CONTROL

Use the **UP** and **DOWN** keys to adjust the audio source at the master station and at the remote stations to the desired level.

NOTE: The radio volume keys cannot be used at a station that is participating in a Selective Call, All Call, Door Call or if a station is in the Monitor Mode.

At the master station, press the **MUTE** key (located above the radio volume key) to turn the audio source to the lowest possible level.

The radio volume level should be kept at or below 100mw/1 KHz for standard use.

Tone Controls

The **TONE** control is used to adjust the audio quality of the audio source (radio, CD/tape, phono or tape deck). Turn the control counter-clockwise to increase the bass response; turn the control clockwise to increase the treble response.

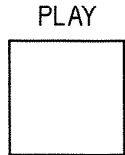
The **NORM/LOUD** control is used to boost the bass and treble response. If a boost is desired, select the switch to loud. Otherwise, the switch should be in the **NORM** position.

Cassette Operation

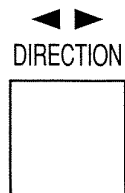
The master unit's Cassette Deck operates in two (2) modes:

- **Auto Reversing Cassette Player/Recorder**
- **Note Player/Recorder**

The following is a description of each of the keys that are used when the system is in the cassette mode.



The **PLAY** key is used to playback any recorded tape. **When the PLAY button is pressed, it will turn any program audio source OFF that is currently in progress (AM, FM, etc.).**



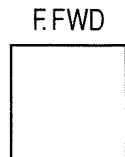
The **DIRECTION** key is used to change the direction of the tape. The direction of the tape will be indicated by the LEDs located above the key.

The direction of the cassette deck will automatically reverse if the end of the tape is reached during cassette playback.

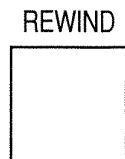
NOTE: Tape direction will not automatically reverse during cassette record.

NOTE: One of the **DIRECTION** LED's will always be lit.

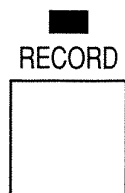
NOTE: The **DIRECTION** key may be used during all cassette functions except **RECORD** and **PAUSE**.



The **F.FWD (fast forward)** key is used to move a tape forward rapidly in the direction of the **DIRECTION** LED.



The **REWIND** key is used to rewind tapes in the opposite direction of the **DIRECTION** LED.



The **RECORD** key is used to record any program audio source (**AM, FM, Phono, CD/TAPE or Mic**).

Follow these steps to make a recording:

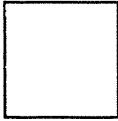
1. Place a cassette in the cassette deck. **NOTE: Be certain to use a cassette that has the record prevention tabs in place.** Refer to page 12 of this booklet.
2. Select an audio source. Press the **ON/OFF** key and then press the desired audio key: **AM, FM, PHONO OR CD/TAPE** and then press the **RECORD** key.

The selected audio source will be recorded onto the cassette tape.

NOTE: Refer to page 12 of this booklet for instructions on making a recording using the **MIC** feature of the master station.

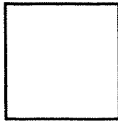
Cassette Operation (Continued)

PAUSE



The **PAUSE** key is used to temporarily stop a tape and avoid recording unwanted material. To resume tape operation press the **PAUSE** key a second time. **NOTE:** The LED above the **DIRECTION** key will be flashing when the system is in the **PAUSE** mode.

STOP



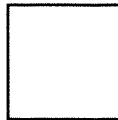
The **STOP** key is used to stop the tape function that is in progress.

MIC



Pressing the **MIC** key lights the **MIC** LED and allows a recording to be made through the master stations built-in microphone. Press the **MIC** key again to turn the microphone function off. **NOTE:** MIC operation is not controlled by the **ON/OFF** key.

EJECT



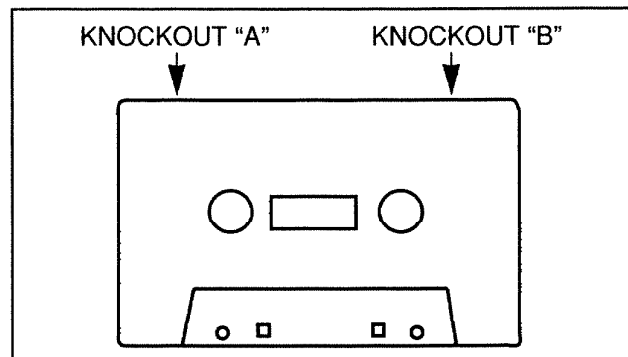
The **EJECT** key will open the cassette door for insertion or removal of the cassette tape.

CASSETTE RECORD PREVENTION KNOCKOUT TABS

As illustrated below, if knockout "A" has been removed from a cassette tape, a recording cannot be made in the (>) direction on this cassette tape.

If knockout "B" has been removed from a cassette tape, a recording **cannot** be in the (<) direction on this cassette tape.

IMPORTANT: The system cannot be operated in the **NOTE** mode with a cassette tape that has **knockout "A"** removed.



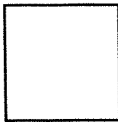
Cassette Operation (Continued)

NOTES

The Radio Intercom System features a **NOTE** mode that allows the homeowner to leave **up to five (5)** 1 minute "Note" messages at the master station.



NOTE



Follow this procedure to set the system in the **NOTE** mode.

1. Place a cassette tape into the cassette deck.
2. Press the **NOTE** key. The LED above the **NOTE** key will be lit and the cassette tape rewinds.

IMPORTANT: The system cannot be placed in the **NOTE** mode if a cassette tape has not been placed into the cassette deck.

NuTone recommends that a dedicated **C60** cassette tape is used when making a Note recording. This tape should be kept close to the master unit and should be used for the sole purpose of recording notes.

RECORDING A NOTE:

1. With the system in the **NOTE** mode, press the **RECORD** key. The **MIC** and **RECORD** LED's will be lit. **NOTE:** A "beep" will be heard indicating that the note audio is being recorded.
2. Stand at arm's length from the microphone (MIC) for a clear recording.
3. To prevent unwanted recording of the radio audio, turn the radio off or mute the radio at the master station using the **MUTE** key.
4. **IMPORTANT:** The maximum length of a note is **60 seconds**. Press the **STOP** key when you are finished recording the note or the tape will stop automatically after 60 seconds.

The **MIC** and **RECORD** LED's will now be off and the **NOTE** LED will be flashing "NOTE 1 " will appear in the master's display window.

TO PLAYBACK A NOTE

The **NOTE** LED will be blinking to indicate that a message has been recorded. The number of notes that have been recorded can be determined from the master station's display. Example: If three (3) messages have been recorded, the display will read: "NOTE 03".

Follow these steps to play back the note messages:

1. With the system on the **NOTE** mode, press the **PLAY** key. The tape will be rewound and note will be played. If necessary, the Radio Volume Control may be used to adjust the volume level.
2. After the notes have been played, the system is ready to receive additional notes.

TO ERASE NOTES

Pressing the **ERASE** key lights the **ERASE** LED, erases the note display, rewinds the tape and prepares the system to receive notes. Once erase function has been completed the **ERASE** LED will go out.

NOTE: The tape will not be physically erased until recorded over.

Intercom Operation

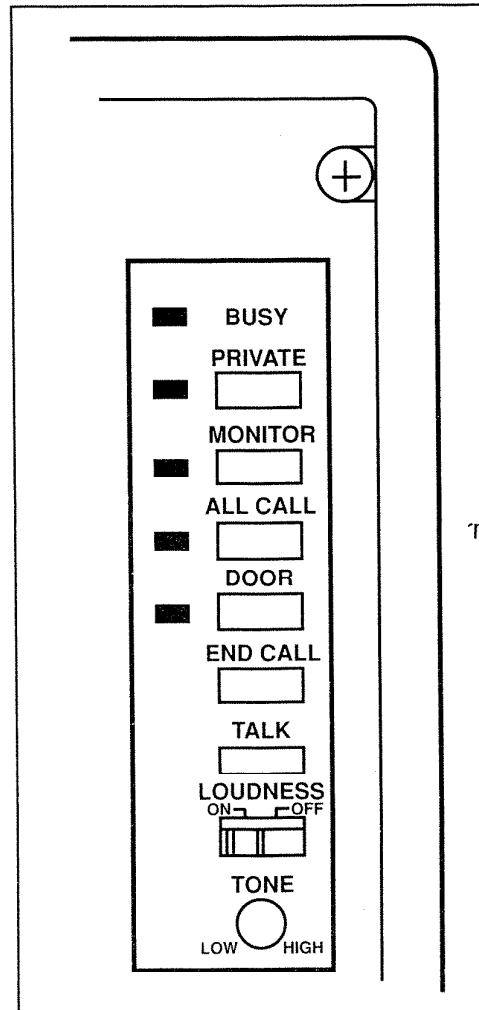
The IM-5006 System Intercom functions in

3 modes:

- Selective Call
- All Call
- Door

THE FOLLOWING APPLIES TO ALL 3 MODES:

1. Volume of communication is controlled by **INTERCOM VOLUME** controls located at each location.
2. Pressing **END CALL** will terminate communication.
3. If **TALK** button is not pressed within 30 seconds, system will auto end call and communication will disconnect.
4. If an inappropriate button is pressed during a Mode of Operation, an error tone will be heard. Example: If you are in **SELECTIVE CALL** communication and in error you press the **DOOR** key, an error tone will be heard.



SELECTIVE CALL

1. Determine which station you wish to communicate. Press the appropriate keys on keypad. If a station has only one number, the number has to be preceded with a zero (0). Example: You wish to call station #2, press "02".
2. After the desired station numbers are entered into the keypad, a tone will be heard at the station initiating the call and the station receiving the call. The **BUSY LED** will light at all other stations in the system. Audio from Receiving Station will be heard at the station making the call. **NOTE:** Receiving Station is in the hands-free mode of operation.
3. Calling Station may communicate to Receiving Station by pressing and holding **TALK** key. Audio from Calling Station is now heard at Receiving Station. Release **TALK** button and communication from Receiving Station to Calling Station returns.
4. After communication is complete, press **END CALL**. This will disconnect the stations and the **BUSY LED'S** will go out.

Intercom Operation (Continued)

ALL CALL

1. Pressing the **ALL CALL** button connects the Initiating Station to all the stations in the system. Audio from all of the stations will be heard at the Initiating Station.
2. The Initiating Station may communicate to all Receiving Stations by pressing and holding the **TALK** button. Audio from the Initiating Station is now heard at all Receiving Stations. When releasing the **TALK** button, communication from all Receiving Stations to Initiating Station will return.
3. Upon completion of communication, press **END CALL** to disconnect all stations.

DOOR

1. Pressing **DOOR** button will light the **DOOR LED** and connect the Initiating Station to the Door Speaker. Audio from the Door Speaker will be heard at the Initiating Station. The **BUSY LED'S** will light at all other stations.
2. Initiating Station may communicate with the Door Speaker by pressing and holding the **TALK** button. Audio from the Initiating Station is now heard at the Door Speaker. The Door Speaker may communicate with the Initiating Station once the **TALK** button is released by the Initiating Station.
3. Upon completion of communication, press **END CALL**. As a result, all **BUSY LED'S** will go out.

PRIVATE

1. Pressing the **PRIVATE** button allows station to be in the Private Mode and lights the Station's **PRIVATE LED**. In this mode, the station will not receive Selective Call or All Call communication.
2. Pressing **PRIVATE** again will remove the station from the **PRIVATE** mode.

MONITOR

1. Pressing the **MONITOR** button places a station into the **MONITOR** mode and lights the **MONITOR LED**. In this mode, audio from the station is mixed with audio from the radio (if radio is on). Audio from station in Monitor Mode can be heard at all other stations. To adjust the volume, use the **RADIO VOLUME** control. A call cannot be initiated from a station in the Monitor Mode.
2. By pressing **MONITOR** one more time, the station will no longer be in the Monitor Mode.

NOTE: If a Selective Call is made to a station in the **PRIVATE** or **MONITOR** mode, a "beep-beep" will be heard at the station initiating the call.

Intercom Operation (Continued)

MASTER INTERCOM

Operation of intercom at Master is the same as Remote Stations, except a Selective Call may be made from the Intercom Name List.

1. Press the **INTCOM** button at the Master. The **INTCOM LED** will light, and the Intercom Name List is shown in the Display Window. Use the **UP** and **DOWN** keys to scroll through the list to the desired station. Press **MEM**. Master will call station listed in the Display.
2. Operation is the same as in the **SELECTIVE CALL** mode.

STATION CALL TONE VOLUME

To insure privacy and prevent unwanted eavesdropping, a **CALL TONE** has been incorporated into each station. The **CALL TONE** allows the person(s) at the station to be aware that the station is now being monitored and that audio from their station is now being heard at the station that has placed the call.

The **CALL TONE** volume may be adjusted at each station by pressing * 1 # on stations keypad. After entry of * 1 # a feedback tone will be heard from the station's speaker indicating the **CALL TONE** volume setting. The **CALL TONE** volume may be adjusted to 1 of 3 settings, **LOUD**, **SOFT** and **OFF** (see chart below). When power is first applied to the System the **CALL TONE** volume will be in the soft position.

KEYBOARD ENTRY	CALL TONE VOL.	FEEDBACK TONE
* 1 #	Soft	Long Soft
* 1 #	OFF	Short Soft
* 1 #	Loud	Long Loud
* 1 #	OFF	Short Loud