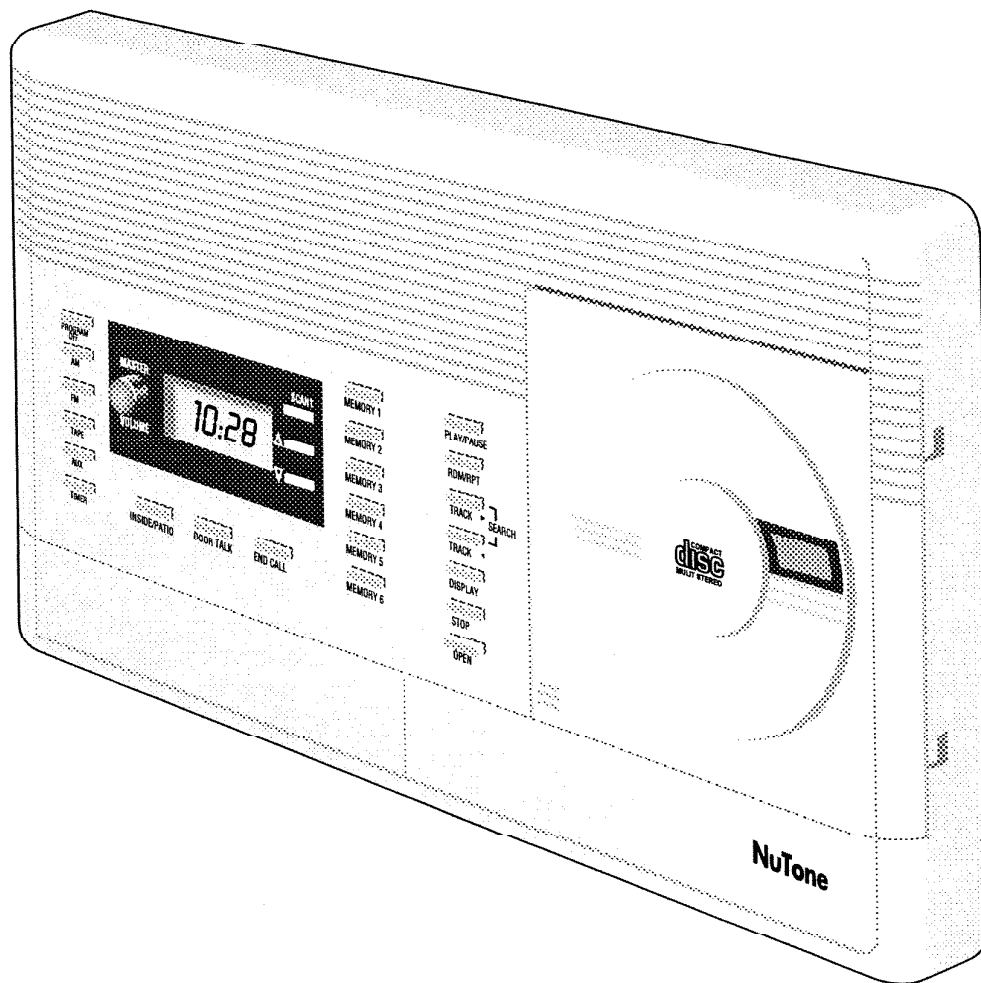# NuTone®
CD/RADIO INTERCOM SYSTEM
MODEL IM-4406 SERIES

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.

FCC Warning – This equipment may generate or use radio frequency energy. Changes or modification to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

FCC Warning – Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
   The serial number of this product may be found behind the lower operating doors. 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.
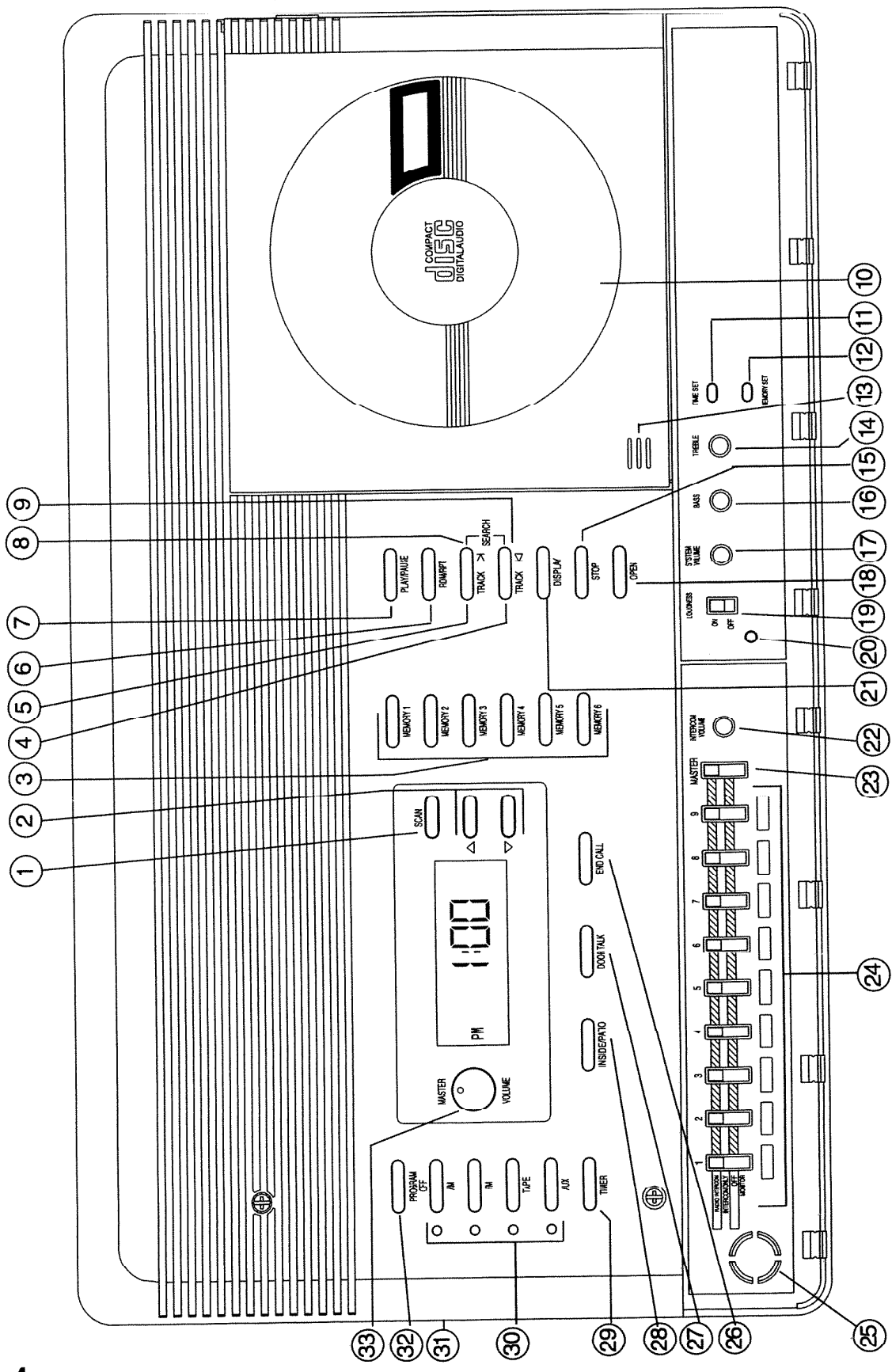
Date of Purchase	
Dealer Purchased from	
Dealer's Address	
Dealer's Phone No.	
Model No.	IM-4406

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

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Master Station Controls

1. **SCAN:** Activates scan tuning during AM/FM operation. (pg. 7)

2. **▲▼ UP/DOWN TUNING:** Provides manual tuning of the AM/FM radio. (pg. 7)

3. **MEMORY 1-6 KEYS:** Provides direct access to stored radio frequencies. (pg. 7)

4. **TRACK ◄:** Returns to the beginning of the current track and/or previous tracks. (pg. 8)

5. **TRACK ►:** Advances the CD Player to the beginning of the next track. (pg. 8)

6. **RDM/RPT:** (Random/Repeat) Set the CD play mode to: REPEAT ONE, REPEAT ALL or RANDOM PLAY. (pg. 9,10)

7. **PLAY/PAUSE:** Activates the operation of the CD Player. Pressing the key during play operation will pause the CD Player. (pg. 8)

8. **SEARCH ►:** Quickly searches the track in the forward direction. (pg. 8)

9. **SEARCH ◄:** Quickly searches the track in the reverse direction. (pg. 8)

10. **CD PLAYER DOOR:** Open CD coor and snap CD disc onto spindle. (pg. 8)

11. **TIME SET:** Used with the ▲▼ keys to set the clock and timer. (pg.6)

12. **MEMORY SET:** Stores desired radio frequencies into a selected memory location. (pg.7)

13. **CLOSE:** Press here to close CD Player door. (pg.8)

14. **TREBLE:** Adjusts the high frequency audio content of the source audio. (pg. 13)

15. **STOP:** Ends the CD Play mode and turns off the program audio. (pg. 9)

16. **BASS:** Adjusts the low frequency audio content of the source audio. (pg.13)

17. **SYSTEM VOLUME:** Adjusts the program audio level throughout the system. (pg. 13)

18. **OPEN:** Causes the CD Player door to open. (pg. 8,9)

19. **LOUDNESS:** Compensates for the bass and treble response the human ear has when listening to audio at low volume levels. (pg.13)

20. **MICROPROCESSOR RESET:** Initiates a reset of the microprocessor. **NOTE: A reset of the microprocessor will erase the system's memory.**

21. **DISPLAY:** Sets the LCD display mode: CLOCK, RADIO FREQUENCY, TRACK NUMBER or TIME PLAYED. (pg. 9,10)

22. **INTERCOM VOLUME:** Adjusts intercom audio level throughout the system. (pg. 15)

23. **MASTER STATION STATUS SWITCHES:** Sets the master station in one of the following modes: RADIO/INTERCOM, INTERCOM ONLY, OFF or MONITOR. (pg.13,14)

24. **REMOTE STATION STATUS SWITCHES:** Sets the remote stations in one of the following modes: RADIO/INTERCOM, INTERCOM ONLY, OFF or MONITOR. **Note: If the optional expansion module is installed, 6 additional switches will be located on the right side of the master.** (pg.13,14)

25. **DOOR RELEASE KNOCKOUT:** Mounting hole for optional door release pushbutton. (pg. 17)

26. **END CALL:** Ends intercom communication and returns system to audio source. (pg. 15)

27. **DOOR TALK:** Initiates intercom communication to the door speakers. (pg.15)

28. **INSIDE/PATIO:** Initiates intercom communication to remote stations. (pg.14)

29. **TIMER:** Enables or disables the radio timer. The indicator light will illuminate next to the Timer key when the Radio Timer is activated. (pg. 6,7)

30. **PROGRAM AUDIO SOURCE:** Selects the program audio source: AM, FM, TAPE and AUX. The indicator light will illuminate next to the selected program audio source. (pg. 7,13)

31. **ELECTRONIC CHIME TUNE SELECTION:** Selects the tune of the optional NuTone IA-29 Chime Module.

32. **PROGRAM OFF:** Turns off the selected program audio source. The program Off key does not affect the intercom or chime operation. (pg. 7,13)

33. **MASTER VOLUME:** Adjusts the volume at the master station. (pg. 7,13,14)

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Digital Clock

SETTING THE TIME

The proper clock setting procedure is arranged in 4 segments. Each segment must be completed in 5 seconds. Follow the procedure below.

SET		TIME
PM	**1:00**	

1. Press the **TIME SET** key one time. The 'Hours' display will begin flashing, and the words 'Set Time' will display.
2. Within 5 seconds, press the ▲ or ▼ key until the correct Hour and AM/PM are displayed.
3. Within the next 5 seconds, press the **TIME SET** key again. The 'Minutes' display will begin flashing.
4. Again, within 5 seconds, press the ▲ and ▼ keys until the correct minute is displayed.
5. Release the keys after entering the correct time. The display will stop flashing in 5 seconds, and the time will be set.

NOTE: Pressing the ▲ or ▼ keys momentarily will cause the time to advance or reverse one digit. Pressing the ▲ or ▼ keys continuously for more than ½ second will cause the digits to advance or reverse at high speed.

RADIO TIMER

A Timer has been incorporated to turn the radio on or off at preset times. **Note:** If the master has been selected to the **TAPE, AUX** or **CD PLAY** position, the Radio Timer will not function.

SETTING THE RADIO ON TIME

SET	RADIO	ON	TIME
PM		**1:00**	

1. Press the **TIME SET** key 3 times. The 'Hours' display will begin flashing, and the words **SET RADIO ON TIME** will display.
2. Within 5 seconds, press the ▲ or ▼ key until the correct Hour and AM/PM are displayed.
3. Within the next 5 seconds, press the **TIME SET** key again. The 'Minutes' display will begin flashing.
4. Again, within 5 seconds, press the ▲ and ▼ keys until the correct minute is displayed.
5. Release the key after entering the correct **RADIO ON TIME**. The display will stop flashing in 5 seconds, and the **RADIO ON TIME** will be stored into memory.
6. The last program radio mode and frequency used will be the frequency played when the timer turns on the radio. Unless deactivated, the radio will play until the timer turns off the radio.

SETTING THE RADIO OFF TIME

SET	RADIO	OFF	TIME
PM		**1:00**	

1. Press the **TIME SET** key 5 times. The 'Hours' display will begin flashing, and the words **"SET RADIO OFF TIME"** will display.
2. Within 5 seconds, press the ▲ or ▼ key until the correct 'Hour' and 'AM/PM' are displayed.
3. Within the next 5 seconds, press the **TIME SET** key again. The 'Minutes' display will begin flashing.
4. Again, within 5 seconds, press the ▲ and ▼ keys until the correct minute is display.
5. Release the key after entering the correct **RADIO OFF TIME**. The display will stop flashing in 5 seconds, and the **RADIO OFF TIME** will be stored into memory.

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Digital Clock (continued)

ENABLING/DISABLING THE RADIO TIMER

1. Press the **TIMER** key. The light next to the key will illuminate and the **TIMER** is enabled.
2. To disable the **TIMER**, press the **TIMER** key again.

Audio Source Selection

NOTE: Initial operation of the system requires the following settings:

- All Station Status switches set in the **RADIO/INTERCOM** mode.
- **SYSTEM VOLUME** set at ⅓ level.
- **MASTER VOLUME** set at ⅔ level.
- **REMOTE STATION VOLUMES** set at ⅔ level.

Select any of the audio sources by pressing: **AM, FM, TAPE, AUX** or **CD/PLAY PAUSE** keys. To turn off the selected program audio source, press the **PROGRAM OFF** key.

Audio Operation

1. Select AM or FM by pressing the appropriate key.
2. Tune the radio to the desired frequency by using one the following methods:
   - **RAPID TUNE:** Depress and hold either the ▲ or ▼ tuning keys until you reach the frequency you desire. Release the tuning key.
   - **STEP TUNE:** Momentarily touch either the ▲ or ▼ tuning keys. The radio will tune to the next radio frequency.
   - **SCAN:** Momentarily touch the **SCAN** key. The radio tunes up in frequency to the nearest strong signal. It remains on this signal for 5 seconds, then moves to the next strong signal. When the desired station is located, press the **SCAN** key to stop the scan operation.

RADIO MEMORY

6 AM and 6 FM radio frequencies may be stored in the system's memory for instant recall by using the following procedure.

STORING FREQUENCIES INTO MEMORY

1. Press **FM** key to set the radio into the **FM** program mode. Tune to the desired frequency by using the ▲▼ or **SCAN** keys.
2. Press the **MEMORY SET** key, behind the right panel door. The display will begin flashing. Within 5 seconds, press a **MEMORY** Channel (1-6) where the frequency will be stored. The display will stop flashing.
3. Repeat this procedure for all six **FM** memory channels.
4. Press the **AM** key to set the radio into the **AM** program mode. Repeat the programming procedure for all six **AM MEMORY** channels.

Note: It is recommended that the lowest frequency be programmed into **MEMORY 1** and the next higher frequency into **MEMORY 2**, etc.

RECALLING FREQUENCIES

1. Select **AM** or **FM** mode.
2. Press one **MEMORY CHANNEL 1-6** key. The radio frequency that has been stored into that selected memory location will be heard.

CD Player Operation

HANDLING A DISC

- Be sure hands are clean when handling discs.
- Always place compact disc onto disc spindle with the label facing outward.
- To remove disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.
- Always keep the compact disc in its storage case when not in use. This protects it from scratches and dust.
- Do not apply labels or write on the disc surface.

LOADING A DISC

CAUTION:
- Do not attempt to defeat the safety interlock. Avoid direct exposure to invisible laser beam.
- Do not touch the lens of the CD Player or damage will result.
- To keep the laser pick-up clean, keep the CD Player door closed unless inserting/removing discs.
- Do not put anything except a compact disc into the player. Foreign objects will damage the CD player mechanism.
- Do not attempt to load more than one disc into player.

1. Press the **OPEN** key on the master station. The CD Player door will open.
2. Complete the opening of the door by moving the door from left to right.
3. Snap the disc onto the CD Player spindle with the label side facing outward.
4. Close the CD Player door by gently moving the door from right to left until the door latches closed. The display will indicate $\boxed{\text{DISC-IN}}$.

PLAYING/PAUSING A DISC

1. Once a disc is properly loaded and door is secure, press the **PLAY/PAUSE** key. The forward play indicator ⊙ will display and the disc will begin to play.
2. Pressing the PLAY/**PAUSE** key while disc is playing will cause the play operation to **PAUSE**. The ⊞ pause indicator will flash.
3. Press the **PLAY**/PAUSE key again to return to play mode.

TRACK SELECTION

1. Momentarily press and release the **TRACK ▶** key to advance to the beginning of the next track.
2. Momentarily press and release the **TRACK ◀** key to return to the previous track. If the current track is playing, pressing **TRACK ◀** will restart that track. Press the key again to return to the previous track.

MUSIC SEARCH

1. Press and hold down the **TRACK ▶** key for at least ½ second to quickly search forward through the track. Hold down key until music search is complete.
2. Use the **TRACK ◀** key to quickly reverse through the track.

Note: During **MUSIC SEARCH** mode, the volume level is reduced.

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CD Player Operation (continued)

STOPPING THE CD OPERATION

1. Press the **STOP** key on the master station to stop the CD Player. The current **PLAY** mode (Repeat One, Repeat All, Random) and **DISPLAY** mode will remain.
2. Once the CD door is opened, the **PLAY** mode will automatically return to **NORMAL PLAY**, and the **DISPLAY** mode will return to the **TIME** display.

REMOVING CD DISC FROM PLAYER

Note: Be sure hands are clean when handling discs.

1. Press the **OPEN** key on the master station. The door will pop open slightly.
2. Completely open the door by gently moving it from left to right.
3. Securely place your fingers around the outside edge of the disc, using the recessed area around the disc.
4. Gently pull on the in the disc until it snaps away from the CD Player spindle.
5. Close the door by moving it from right to left until it latches closed.

Note: To keep laser-pickup clean, do not forget to close and latch door.
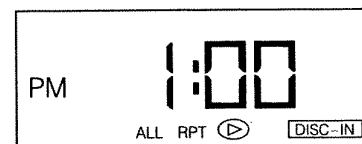
CD Operating Selection Modes

REPEAT PLAY: One Track

1. While the CD is playing, press the **RDM/RPT** key to change the normal play mode ⊳ to **Repeat the selected track**. The letters **ONE RPT** will display, and the track will continue to play until deactivated.
2. Press the **RDM/RPT** key three more times to end one repeat play. Normal forward play ⊳ continues from that point.
3. If the CD Player is stopped and restarted while in the **ONE RPT** mode, the last track played will be the first tracked played once the player restarts.
4. Pressing **STOP** discontinues play of the CD Player.
5. Anytime the CD door is opened, the play mode will change to the normal play ⊳ mode.
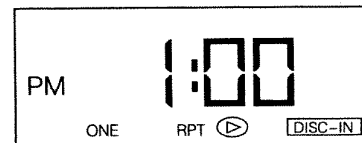
REPEAT PLAY: All Tracks

1. While the CD is playing, press **RDM/RPT** key 2 times to change from normal play mode ⊳ to **All Repeat** mode. The letters **ALL RPT** will display, and the complete CD will continue to repeat play until deactivated.
2. Press the **RDM/RPT** key two more times to end all repeat mode. Normal play ⊳ continues from that point.
3. If the CD Player is stopped and restarted while in the **ALL RPT** mode, the last track played will be the first tracked played once the player restarts.
4. Pressing **STOP** discontinues play of the CD Player.
5. Anytime the CD door is opened, the play mode will change to the normal play ⊳ mode.

CD Operating Selection Modes (continued)

RANDOM PLAY

1. While the CD is playing, press **RDM/RPT** key 3 times to change from normal play mode ⏵ to **Random Play** mode. The letters **RDM** will display, and the player will select and play one track and then randomly select another track and begin playing.
2. Press the **RDM/RPT** key once to end random play. Normal play ⏵ continues from that point.
3. If the CD Player is stopped and restarted while in the **RMD/RPT** mode, the last track played will be the first track played once the player restarts.
4. Pressing **STOP** discontinues play of the CD Player.
5. Anytime the CD door is opened, the play mode will change to the normal play ⏵ mode.
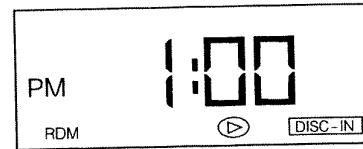
MASTER DISPLAY IN CD MODE

The Master Station LCD display can be selected to indicate the **TRACK NUMBER** or **TIME PLAYED** instead of the standard TIME mode by using the **DISPLAY** key.
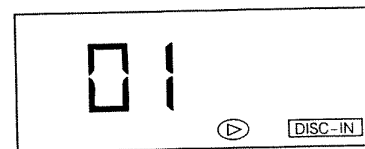
Displaying Track Number

1. While the CD Player is playing, momentarily pressing the **DISPLAY** key on the master station will change the LCD from TIME to **TRACK NUMBER**.
2. The **TRACK NUMBER** will display until the CD Player stops or the CD Player door is opened.
3. To return the display to **TIME** while in Track Number mode, momentarily press the **DISPLAY** key **two times**.

Displaying Time Played

1. While the CD Player is playing, momentarily pressing the **DISPLAY** key on the master two times will change the LCD from **TIME** to **TIME PLAYED**.
2. The **TIME PLAYED** will display until the CD Player stops or the CD Player door is opened.
3. To return the display to **TIME** while in Time Played mode, momentarily press the **DISPLAY** key **one time**.
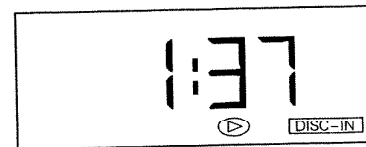
AUTOMATIC PAUSE DURING INTERCOM AND CHIME OPERATION

The master station will automatically pause the **CD Player** when the **INSIDE/PATIO** or **DOOR INTERCOM** is in use. In addition, the CD Player will pause when an optional chime is playing. During Automatic Pause, the play ⏵ symbol will flash.

To deactivate this feature read **Deactivating the CD Pause During Intercom and Chime Operation**.

CD ERROR TONES

Should the CD Player detect a scratched disc or a vibration, the master will sound **5 beeps** at all remote stations selected to the RADIO INTERCOM mode. In addition, DISC-IN or **Err** display will flash at the master station until the CD Player is restarted or the CD door is opened.

Controlling the CD Player & Radio from Remote Stations

To add convenience to your IM-4406 CD/Radio/Intercom System, NuTone has designed the capability of controlling the CD Player, AM and FM Radio operation from any room in the home or office from remote stations. It's like having a master station in every room! These features are preprogrammed into the master station. Read and follow these simple instructions to take advantage of this added convenience.

Note: This feature works with older remote station models IS-405, IS-408, IS-409 and/or IC-401.

Should you decide to deactivate any of these features, please read section entitled **Deactivating the Control of Radio/CD from Remote Stations.**

The remote stations can be used to:
- Turn the Radio ON or OFF
- Advance through the Radio Memory Channels
- Turn the CD Player ON or OFF
- Advance to the next track on the CD Player

Note: Remotely controlling the CD Player and Radio will not function:
- During intercom communication
- If master is set to TAPE/AUX program position
- If Remote Station Status Switch is selected to OFF or MONITOR.

TURNING THE RADIO ON AND OFF

1. To turn the Radio ON or OFF, simply **press** and **hold** the **AM/FM/CD CONTROL/END CALL** key for **2** seconds.
2. Release the **AM/FM/CD CONTROL/END CALL** key after the radio turns on or off.
3. While the **AM/FM/CD CONTROL/END CALL** key is pressed at the controlling remote, the Master station will display the letters **IU** (in use). This indicates that a control function is currently being performed at a remote station.

NuTone

| PRIVATE OFF ON | INSIDE/PATIO TALK | DOOR TALK | END CALL |

VOLUME

AM/FM/CD CONTROL

AM/FM/CD CONTROL/END CALL
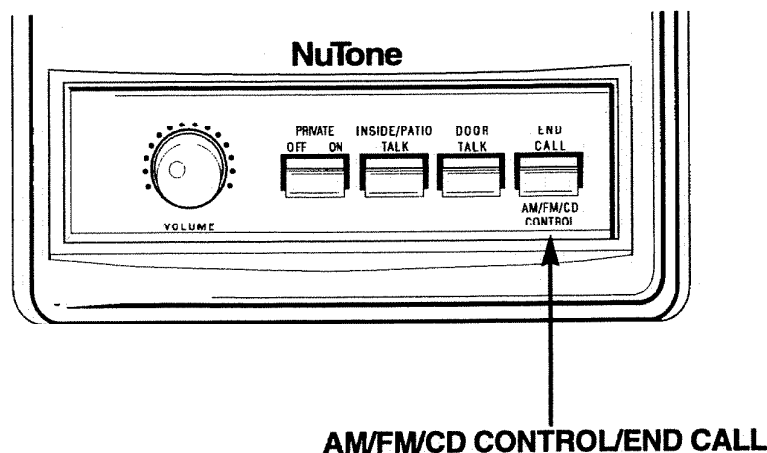
Controlling the CD Player & Radio from Remote Stations (continued)

ADVANCING THE RADIO MEMORY CHANNELS

The radio memory channels may be advanced from a remote station by momentarily pressing the **AM/FM/CD CONTROL/END CALL** key, while the **AM** or **FM** radio is playing. **Channels must be stored into memory before this feature is useful.**

1. Place the Radio in the **ON** position by pressing the **AM** or **FM** key at the master station or activating the radio from a remote station. (See: <u>Turning the Radio On and Off.</u>)
2. Quickly press the **AM/FM/CD CONTROL/END CALL** key. The radio will advance to the next highest stored memory channel.
3. Press the **AM/FM/CD CONTROL/END CALL** key again for the next highest stored memory channel. Each press represents the next stored channel.
4. After reaching the highest stored channel in the current program mode (AM or FM), momentarily pressing the **AM/FM/CD CONTROL/END CALL** again will cause the current program mode to switch to the opposite mode and select the lowest programmed memory channel.
   Example:
   Current mode is FM
   Press **AM/FM/CD CONTROL/END CALL** once = Memory Channel #5 @ 104.9MHZ
   Press **AM/FM/CD CONTROL/END CALL** again = Memory Channel #6 @ 107.9MHZ
   Next **AM/FM/CD CONTROL/END CALL** press = AM Mode, Memory Channel #1 @ 550 KHz
5. Continue pressing **AM/FM/CD CONTROL/END CALL** to reach the desired stored memory channel.

TURNING THE CD PLAYER ON AND OFF

Note: A disc must be properly installed into the Master station CD Player <u>and</u> the CD door must be properly closed, or this feature is inactive.

1. To turn the CD Player ON or OFF, **press** and **hold** the **AM/FM/CD CONTROL/END CALL** key for **4** seconds.
2. At the end of 2 seconds, the radio will turn on. Continue holding in the **AM/FM/CD CONTROL/END CALL** key.
3. Next you will hear the radio turn off and a *'BEEP-BEEP'*.
4. The *'BEEP-BEEP'* sound will be heard throughout the system indicating that the CD Player has been selected to the **Play** ⊙▷ mode.
5. Release the **AM/FM/CD CONTROL/END CALL** key. In a few moments, the CD will begin playing.
6. While the **AM/FM/CD CONTROL/END CALL** key is pressed at the controlling remote, the Master station will display the letters **IU** (in use). This indicates that a control function is currently being performed at a remote station.

ADVANCING THE CD PLAYER TO THE NEXT TRACK

1. Place the CD Player in the **PLAY** position by pressing the **PLAY/PAUSE** key at the master station or activating the CD Player from a remote station. (See: <u>Turning the CD Player On and Off.</u>)
2. Quickly press the **AM/FM/CD CONTROL/END CALL** key. The disc will advance to the next highest track.
3. Press the key again for the next highest track. Each press represents the next highest track.

Tape/Aux Auxiliary Selection

Optional audio sources may be selected by using the following procedure.

1. Press **TAPE**. If an optional cassette tape player has been connected to your IM-4406 master station, this player will be heard as an audio source. Contact your local NuTone distributor to purchase an optional cassette tape player.
2. Press **AUX**. If an auxiliary external audio source has been connected to the **AUX** input, the unit will be heard as an audio source. The auxiliary audio may be turned off by pressing the **PROGRAM OFF** key.

Program Audio Controls

The following controls allow the user to adjust the level and tone of the program audio.

1. **MASTER VOLUME:** This control adjusts the program audio level at the master station.
2. **REMOTE VOLUME:** This control adjusts the program audio level at the remote station.
3. **SYSTEM VOLUME:** Sets the program audio level throughout the system.
4. **LOUDNESS:** Compensates for the loss of bass and treble response the human ear has when listening to audio at low volume levels by increase bass and treble response.
5. **TREBLE:** Adjusts the high frequency audio content of the source audio.
6. **BASS:** Adjusts the low frequency audio content of the source audio.

Setting Program Audio Controls

The volume levels required at each station may vary with the location of the speaker and the size of the room where the speaker is located. Spend some time experimenting with volume levels, and adjust each speaker so that you can clearly hear the radio, CD player and intercom. Use the following procedure to set your system's volume level.

1. At each remote station, turn the volume control completely clockwise to maximum volume.
2. At the master station, set the **REMOTE** and **MASTER STATION STATUS** switches to the **RADIO INTERCOM** position.
3. Turn the **MASTER VOLUME** control to maximum volume.
4. Turn the **SYSTEM VOLUME** control on the master station to approximately ½ volume.
5. Select an **AM** or **FM** radio station with a clear, strong signal.
6. Adjust the **SYSTEM VOLUME** control at the master station until you have enough volume at the remote station that requires the highest volume (i.e. large living room, family room, basement, etc). **Note: The master Station and all Remote Stations (except the door speakers) are equipped with their own volume controls. Although the Master Station SYSTEM VOLUME sets the System's volume level, you may adjust an individual speaker's volume level as desired.**
7. Adjust the **MASTER VOLUME** control and all remote stations' volume controls to the desired volume level. To maintain proper intercom audio levels, it is recommended that the **MASTER VOLUME** and remote stations' volume controls be set at ⅔ or higher.

Station Status Switches

The **STATION STATUS SWITCHES** set the operating mode of each station in the system. Each station may be set to one of the four following modes: **RADIO INTERCOM, INTERCOM ONLY, OFF,** or **MONITOR.**

1. **RADIO INTERCOM:** Stations set to this mode will receive all program audio, intercom audio and monitor audio. Program audio includes the CD PLAYER, AM and FM RADIO and optional audio sources connected to the TAPE and AUX inputs. An optional electronic door chime will also be heard over stations selected to this mode.
2. **INTERCOM ONLY:** A station set to this mode will only receive intercom audio and chime audio.
3. **OFF:** Stations set to this mode will not receive program audio and chime audio. Intercom audio will not be received or transmitted. Remote control of the CD Player and Radio is not possible while the switch is set to OFF.
4. **MONITOR:** When a station is selected to this mode, most sounds originating at the station's location will be transmitted to stations in the **RADIO INTERCOM** mode. When the station is set to **MONITOR,** program audio, chime audio, intercom operation and remote control of CD Player and Radio is not possible.

DETERMINING STATION LOCATIONS

1. Set all **REMOTE STATION STATUS** switches to **OFF.**
2. Set the **MASTER STATION STATUS** switch to **RADIO INTERCOM.**
3. Tune in a radio station and adjust the **SYSTEM VOLUME** control to approximately ½ level.
4. Turn the **MASTER SPEAKER VOLUME** control to minimum volume
5. Set the **REMOTE VOLUME CONTROL** at each remote station to maximum.
6. Set a **REMOTE STATION STATUS** switch to **RADIO INTERCOM** mode, and locate the station by sound.
7. At the master, label the station's REMOTE STATION STATUS switch using the pre-printed room labels (supplied in the back of this manual). The label should be positioned in the space provided below the switch that controls that station.
8. Repeat steps 6 and 7 until you locate every station in your system.

Intercom Operation

The initial operation of the intercom requires the following:

- **INTERCOM VOLUME** control set to approximately ⅔ level.
- **MASTER VOLUME** control set to approximately ⅔ level.
- **REMOTE STATION VOLUMES** set to approximately ⅔ level.
- **REMOTE STATION STATUS** and **MASTER STATION STATUS** switches set to the **RADIO INTERCOM or INTERCOM ONLY** mode.

MAKING A CALL

1. Press and hold the **INSIDE/PATIO** key while you speak. Your voice will be heard by all stations, except the door speakers.
2. Release the **INSIDE/PATIO** key to hear the reply.
3. Continue pressing the key to speak and releasing to listen.

RECEIVING A CALL

This system has a **HANDS-FREE** answering feature at all remote stations and the master station. When you receive an intercom call, make your reply without touching a control. Just respond within a few feet of any remote. The entire intercom conversation is controlled from the station that initiated the call.

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Intercom Operation (continued)

ANSWERING YOUR DOOR

1. Press the **DOOR TALK** key while you speak.
2. Release the **DOOR TALK** key to hear the reply.
3. The call and the reply will be heard at all stations in the **RADIO INTERCOM** and **INTERCOM ONLY** modes.

ENDING AN INTERCOM CALL

An intercom call can be ended by simply pressing the **END CALL** key or allowing the system to automatically timeout 30 seconds after releasing the **INSIDE/PATIO** or **DOOR TALK** keys.

USING THE MONITOR FUNCTION

The **MONITOR** function allows you to listen to sounds from selected station locations. It is most frequently used to monitor an invalid's or a child's room. When a station is set to **MONITOR**, most sounds in that room will be transmitted to all stations in the **RADIO INTERCOM** mode.

1. Determine the station that is to be placed into the **MONITOR** mode.
2. Set that station's **REMOTE STATION STATUS** switch at the master to **MONITOR**.
3. Set the listening stations' **REMOTE STATION STATUS** switches at the master to **RADIO INTERCOM**.
4. Reset the **REMOTE STATION STATUS** switch when the monitoring is no longer necessary.

Note: If program audio is present during monitor, that audio and sounds heard in monitor are heard at the same time on all stations selected to **RADIO INTERCOM** mode. If the program audio is too loud, it may prevent hearing monitor audio. To improve the balance between the program audio and monitoring audio, increase the **INTERCOM VOLUME** control and/or reduce the **SYSTEM VOLUME** control.

INTERCOM VOLUME CONTROL

The **INTERCOM VOLUME** control at the master station controls the Intercom and Monitor volume throughout the system.

Deactivating the Control of Radio/CD from Remote Stations

REMOTE CONTROL OF RADIO ON/OFF (Deactivating)

The master station is shipped with the remote control of the **Radio ON/OFF enabled**. This allows the radio to be turned on and off from the remote stations. To change the status of this control mode, perform the following steps.

1. Select the master to **PROGRAM OFF** mode and end any intercom call by pressing **END CALL**.
2. Press and hold the **END CALL** key at the master station.
3. While holding the **END CALL** key, press **MEMORY CHANNEL 1**. The display will read "rAd" and the **ON** display will be lit.
4. To change the station of this control function to **OFF**, press the **MEMORY CHANNEL 1** key again. The display will now change to **OFF**, and the remote radio ON/OFF function will not operate from the remote stations.
5. To change the status back to the ON mode, repeat steps 1 through 4.

REMOTE CONTROL OF RADIO TUNING (Deactivating)

To deactivate this feature, perform the following steps:

1. Select the master to **PROGRAM OFF** mode and end any intercom call by pressing **END CALL**.
2. Press and hold the **END CALL** key at the master station.
3. While holding the **END CALL** key, press **MEMORY CHANNEL 2**. The display will read "tunE" and the **ON** display will light.
4. To change the status of this control function to **OFF**, press the **MEMORY CHANNEL 2** key again. The display will now change to **OFF**, and the remote radio tuning function will not operate from the remote stations.
5. To change the status back to the ON mode, repeat steps 1 through 4.

REMOTE CONTROL OF CD PLAYER ON AND OFF (Deactivating)

To deactivate this feature, perform the following steps:

1. Select the master to **PROGRAM OFF** mode and end any intercom call by pressing **END CALL**.
2. Press and hold the **END CALL** key at the master station.
3. While holding the **END CALL** key, press **MEMORY CHANNEL 3**. The display will read "cd" and the **ON** display will light.
4. To change the status of this control function to **OFF**, press the **MEMORY CHANNEL 3** key again. The display will now change to **OFF**, and the remote CD ON/OFF function will not operate from the remote stations.
5. To change the status back to the ON mode, repeat steps 1 through 4.

REMOTE CONTROL OF CD TRACK ADVANCE (Deactivating)

To deactivate this feature, perform the following steps:

1. Select the master to **PROGRAM OFF** mode and end any intercom call by pressing **END CALL**.
2. Press and hold the **END CALL** key at the master station.
3. While holding the **END CALL** key, press **MEMORY CHANNEL 4**. The display will read "trAC" and the **ON** display will light.
4. To change the status of this control function to **OFF**, press the **MEMORY CHANNEL 4** key again. The display will now change to **OFF**, and the remote CD track advance function will not operate from the remote stations.
5. To change the status back to the ON mode, repeat steps 1 through 4.

Deactivating the CD Pause During Intercom and Chime Operation

To deactivate this feature, perform the following steps:
1. Select the master to **PROGRAM OFF** mode and end any intercom call by pressing **END CALL**.
2. Press and hold the **END CALL** key at the master station.
3. While holding the **END CALL** key, press **MEMORY CHANNEL 5**. The display will read **"PAUSE"** and the <u>ON</u> display will light.
4. To change the status of this control function to **OFF**, press the **MEMORY CHANNEL 5** key again. The display will now change to <u>OFF</u>, and the CD pause function will not operate.
5. To change the status back to the ON mode, repeat steps 1 through 4.

Optional Accessories

AUTO-REVERSE CASSETTE PLAYER: To complement your system, purchase an optional NuTone Auto-Reverse Cassette Player. Press the TAPE key to play the music throughout the system.

ELECTRONIC DOOR CHIME or ELECTRONIC CHIME MODULE: When a NuTone Electronic Door Chime is connected to your IM-4406 system, the chime is heard at all stations in the **RADIO INTERCOM** and **INTERCOM ONLY** modes.

DOOR RELEASE: If an optional NuTone door release push-button has been installed at the IM-4406 master station, use the button to open the door.

To contact your nearest NuTone distributor or authorized service center dial 1-800-543-8687.