

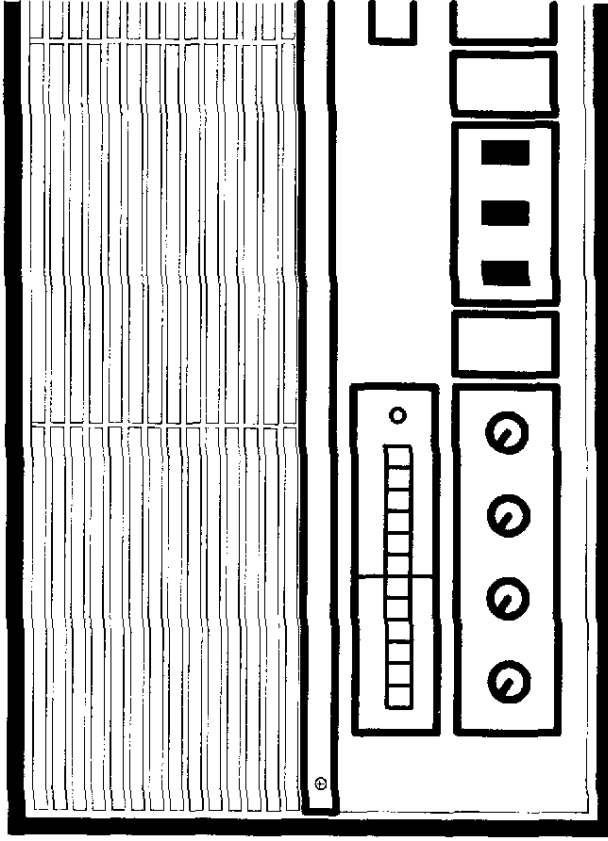
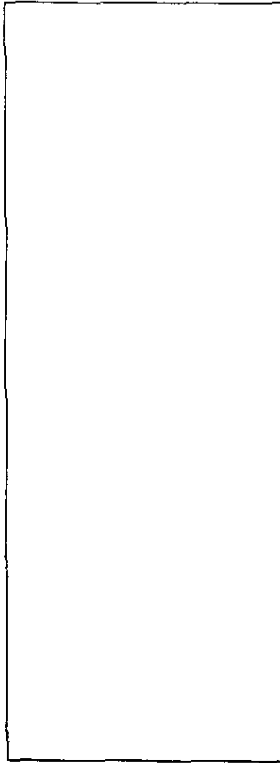
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Music & Sound ®  
Model MC170 Master Unit

Owner's Guide

MANUFACTURED BY  
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This booklet contains the information you need to get the most from your music/intercom system. It also tells you what to do if your system develops operating problems, and contains applicable statements of warranty. Retain this booklet for future reference.

#### **LIFETIME LIMITED WARRANTY PRODUCTS**

Central Vacuum Power Units, Musical Intercom Master Units, Compact Disc Player, Cassette Tape Player, and Built-In 2-way 8-ohm Flush Mount Speakers

M&S Systems, Inc., warrants to the original homeowner for as long as he owns his home, its products to be free from factory-cause defects of material and workmanship. M&S Systems, Inc., will repair or replace, at its option, parts and/or materials at no charge should they, upon examination, be determined to be defective.

M&S Systems, Inc., reserves unto itself the sole right to make the final decision whether there is a defect in materials or workmanship and whether or not the product qualifies for the warranty.

M&S Systems, Inc., will not be responsible for any service call charges arising from the installation or repair company to the homeowner.

Defective product must be returned to the installing dealer or distributor by the homeowner. Transportation/right charges on products submitted for replacement or repair are the customer's responsibility.

#### **ONE YEAR LIMITED WARRANTY PRODUCTS**

Vacuum accessories, Video Door intercoms, Musical Intercom Accessories, Speakers, Ironing Centers, Wall Safes, System 2000 Intercoms.

#### **WARRANTY EXCLUSIONS**

M&S Systems, Inc.'s Limited Warranty does not apply to product damage or failure caused by acts of God, misuse, abnormal usage, normal wear, faulty installation, improper maintenance, or any repairs other than repairs made by an authorized M&S repair center. This Limited Warranty will not apply to any M&S Systems, Inc. product which has been used in violation of any electrical code or Vacuum Power Units, Musical Intercom Master Units, or Speakers installed with NON-M&S Systems brand wire or wall housings.

These warranties are for the sole and exclusive use of products in a residential installation. The Limited Warranty covers only the liability described above, and does not include liability for incidental or consequential damages.

**IMPORTANT: All M&S wire and Cable Products are U.L. Approved**

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## How to Use the Optional Door Chime Function

Your Model MC170 Master Unit may be equipped with either a three-note or an eight-note chime. This optional chime rings through the master unit or any room unit and mutes the radio when the doorbell button is pressed. At least one speaker (master unit or room unit) must be ON for the Door Chime to function. Volume for the three-note or eight-note chime is controlled with the Speaker Volume knob **7** on the master unit and with the Volume Control knob **13** on the room units.

## How to Correct Master Unit Operating Problems

Problem	What To Check For
No AM or FM reception	<ol style="list-style-type: none"><li>1. Tuning knob <b>4</b> not on station.</li><li>2. Audio Mode switch <b>8</b> not in correct position.</li></ol>
Weak AM or FM reception	Tuning knob <b>4</b> not on station. Observe LED Tuning indicator <b>3</b> .
Feedback or squeal	Intercom Volume knob <b>6</b> on master unit adjusted too high.
Weak or no intercom	<ol style="list-style-type: none"><li>1. Intercom Volume knob <b>6</b> on master unit not adjusted correctly.</li><li>2. Room Speaker Station switches <b>11</b> not in correct position (ON or MON).</li><li>3. Volume Control knob <b>13</b> on room unit not adjusted correctly.</li></ol>

## Monitoring Room Units

A unique feature of the Model MC170 is the monitor function. This sets the master unit in a continuous "listen" mode, which is helpful when caring for children or sick persons.

To monitor any or all room units, set the corresponding Room Speaker Station switch **11** to the MON position. Volume is controlled with the Intercom Volume knob **6**.

## Communicating with the Door Unit

Communication with the door unit is possible from the master unit or the room units. This feature allows you to screen visitors from the safety of your home.

### From the Master Unit

- Step 1** To talk to the door unit, press and hold the Door-On switch **9** and press and hold the Listen-Talk switch **10**.
- Step 2** To listen to the door unit, press and hold the Door-On switch **9** and release the Listen-Talk switch **10**.

**Note:** The Door-On switch **9** mutes the radio when pressed.

### From Room Units

**Note:** To communicate with the door unit from a room unit, the corresponding Room Speaker Station switch **11** must be in the ON position.

- Step 1** To talk to the door unit, press and hold the Door-On switch **14** and press and hold the Listen-Talk switch **15**.
- Step 2** To listen to the door unit, press and hold the Door-On switch **14** and release the Listen-Talk switch **15**.

**Note:** The Door-On switch **14** mutes the radio when pressed.

## About Your Music & Sound® Radio/Intercom System

The Music & Sound Model MC170 Master Unit (Figure 1) is part of a complete home music/intercom system designed and built by M&S Systems, Inc. From a central location, the master unit may be linked to remote units in other rooms of your home. It may also be linked to outdoor units at your front door, patio, or carport.

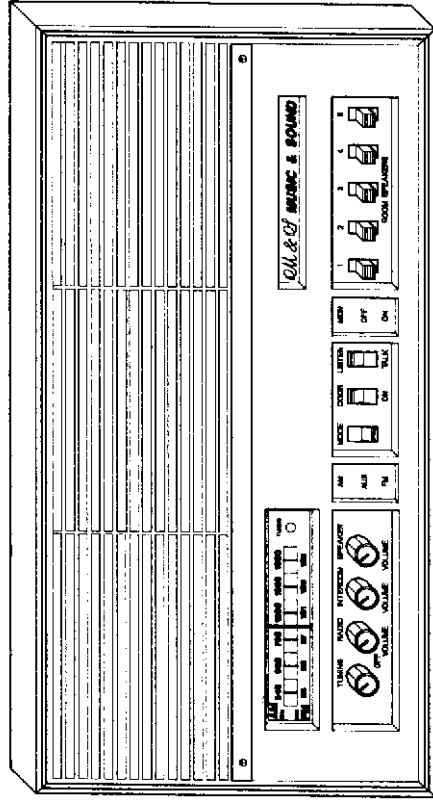


Figure 1. Music & Sound Model MC170 Master Unit

Although the remote units may contain a volume control and a few function switches, the master unit is the "brain" of your entire system. It contains the AM/FM radio and the intercom central console. From the master unit, you can select the operating mode of each remote unit, set the overall volume level for the system, and access all remote units for voice communications or for use as a radio speaker.

Your master unit is designed as both a communication and an entertainment center. And, like all M&S Systems products, the Model MC170 Master Unit is designed to make your home more functional and enjoyable. So prepare yourself for a more satisfying home living experience — an experience of Music & Sound!

## Master Unit Controls, Indicators, and Features

Figure 2 on page 2 and Figure 3 on page 3 show the controls, indicators, and features you use to operate the Model MC170 Master Unit.

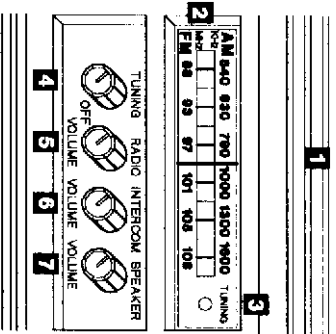


Figure 2. Master Unit Controls, Indicators, and Features (Part 1)

- |          |                                |  |
|----------|--------------------------------|--|
| <b>1</b> | Combination Speaker/Microphone | Provides speaker for both radio and intercom. Provides microphone for intercom.                    |
| <b>2</b> | AM/FM frequency dial           | Displays available and selected frequencies for both AM and FM.                                    |
| <b>3</b> | LED Tuning indicator           | Helps in proper tuning of desired AM or FM frequency. Also indicates relative strength of signals. |
| <b>4</b> | Tuning knob                    | Tunes radio to desired AM or FM frequency.   |
| <b>5</b> | Radio Power/Volume knob        | Turns radio on, adjusts radio volume, and turns radio off.   |
| <b>6</b> | Intercom Volume knob           | Adjusts overall volume of entire intercom system.  |
| <b>7</b> | Speaker Volume knob            | Adjusts radio and intercom volume of master unit only.   |

### **15** Listen-Talk switch

Allows communication between the master unit, other room units, and the door unit. Press the switch to talk and release it to listen. Switch is spring-loaded to LISTEN position.

- Step 1** Rotate the Intercom Volume knob **6** on the master unit to a level that allows voice communication between the master unit and the room units.

**Here's a Tip:** Set the Intercom Volume knob **6** between the 12 o'clock and 1 o'clock positions. This setting should help eliminate "feedback" or "squeal." Once the desired setting is made, no further adjustment is necessary.

- Step 2** Adjust the volume of the room units by turning the Volume Control knob **13** to the desired setting.

- Step 3** Adjust the master unit volume by turning the Speaker Volume knob **7** to the desired setting.

**Here's a Tip:** Set the Speaker Volume knob **7** between the 3 o'clock and maximum positions. This setting should provide audio reception with the greatest clarity.

### Communicating with Room Units

**Note:** To communicate with a room unit, the corresponding Room Speaker Station switch **11** must be in the ON position.

- Step 1** To talk to room units from the master unit, press and hold the Listen-Talk switch **10**.

- Step 2** To listen to the room units from the master unit, release the Listen-Talk switch **10**.

- Step 3** To talk to the master unit from the room unit, press and hold the Listen-Talk switch **15**.

- Step 4** To listen to the master unit from the room unit, release the Listen-Talk switch **15**.

**Note:** The radio mutes during communication.

### Setting up the Intercom

- Step 1** Turn the Speaker Volume knob **7** to the full clockwise position.
- Step 2** Place the Room Speaker Station switches **11** in the desired position (MON, OFF, or ON).

### Adjusting Intercom Volume

Figure 4 shows the controls you use to operate the room units.

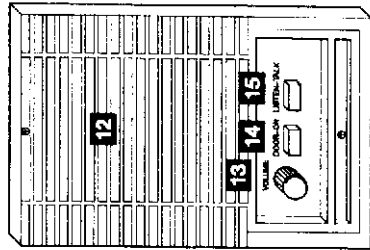


Figure 4. Room Unit

- 12** Combination Speaker/Microphone intercom. Provides microphone for intercom.
- 13** Volume Control knob Adjusts the speaker volume.
- 14** Door-On switch Mutes radio and allows intercommunication with the door unit. Switch is spring-loaded to DOOR OFF position. Must be pressed and held to ON position (for both LISTEN and TALK) to use door intercom.

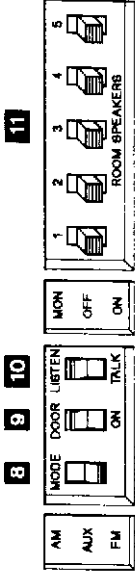


Figure 3. Master Unit Controls, Indicators, and Features (Part 2)

- 8** Audio Mode switch Sets to any of three positions to select audio operating mode:
- AM Radio operates on AM frequencies only.
  - AUX Radio is muted to allow audio input from auxiliary device, such as phonograph or tape player.
  - FM Radio operates on FM frequencies only.
- 9** Door-On switch Mutes radio and allows intercommunication with door unit. Switch is spring-loaded to DOOR OFF position. Must be pressed and held to ON position (for both LISTEN and TALK) to use door intercom.
- 10** Listen-Talk switch Switch is spring-loaded to LISTEN position. Must be pressed and held to TALK position to speak over intercom, and released to listen.

### **III** Room Speaker Station switches

Five switches set to any of three positions to select the operating mode of corresponding room units:

**MON** Room unit is turned on with open microphone (set in TALK mode) for monitoring room from master unit.

**OFF** Room unit is turned off.

**ON** Room unit is turned on with normal audio and intercom TALK and LISTEN modes.

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## Operating the Model MC170 Master Unit

Your master unit operates with two standard functions and one optional function:

- Radio
- Intercom
- Door chime (optional).

This section explains how to use these functions.

### How to Use the Radio Function

The radio in your master unit receives both AM and FM stations. It also works in combination with the intercom.

#### Turning the Radio On and Adjusting Volume

**Step 1** To turn the radio on, rotate the Radio Power/Volume knob **5** clockwise. When you feel a “click,” the radio is on. Rotating the knob counterclockwise to the OFF position turns the radio off.

**Step 2** To increase the volume, continue to rotate the Radio Power/Volume knob **5** clockwise. Rotating the knob counterclockwise decreases volume.

**Here's a Tip:** Setting the Radio Power/Volume knob **5** to maximum volume (fully clockwise) distorts the quality of sound at the room unit speakers. Remember that each room unit also has a volume control. For best sound quality, use a moderate system level setting at the master unit and adjust individual room unit volume settings as needed.

#### Tuning the Radio

**Step 1** Set the Audio Mode switch **8** to the desired broadcast band (AM or FM).

Do not set the Audio Mode switch **8** to AUX unless you wish to mute the radio and receive audio from an auxiliary unit, such as a phonograph or tape player.

**Step 2** Rotate the Tuning knob **4** clockwise or counterclockwise to find the desired station as indicated on the AM/FM frequency dial **2**.

**Step 3** When you find the station you want, fine-tune the frequency setting by slightly rotating the Tuning knob **4** until the LED Tuning indicator **3** lights at its brightest level. This indicates the station signal is being received at the optimum level.

**Here's a Tip:** Remember that FM stations are more difficult to tune than AM stations because FM is a higher band of frequencies. You will find it easier to tune FM stations if you pay close attention to the LED Tuning indicator.

### How to Use the Intercom Function

The six-speaker, five-station capacity intercom allows you to communicate with any room, answer the door unit from any room, or monitor one or more speakers from any combination of room speakers. The intercom functions are always ON. The intercom and optional door chimes operate 24 hours a day, even when the radio is turned off.