

Operating Instructions

Digital Radio — Intercom System Series 200 & 250

Music & Sound, Inc.

A NORTEK COMPANY

2861 Congressman Lane
Dallas, Texas 75220

Please Read: Helpful Hints

Music & Sound radio-intercom systems are designed and manufactured with the greatest care and craftsmanship and represent the very latest state of the art in electronic technology. Reasonable care and understanding the operation of this audio system will provide you with many years of enjoyable listening pleasure and convenience.

Please read and become acquainted with the control functions of the Master Radio-Intercom Unit. Practice a few times performing each of the operations as you progress through the instructions booklet. It is the owners/operators responsibility to know how the system functions. Your M&S Distributor is not allowed to demonstrate the operation of the system as a service covered under the factory warranty on a no charge basis.

The Model 200/250 series feature a Digital Display to indicate the radio frequency and time of day. Rotation of the TUNING control knob changes the radio station. The AM-FM-AUX switch controls the program function, and the radio band (AM or FM) is identified by a lighted "DOT" in the display window.

STATION INFORMATION

The frequency range of the AM band is from 540 to 1600 KHz (kilohertz) and all AM radio frequencies end with a zero (0), such as 540, 820, or 1080. The range of the FM radio band is from 88.1 to 107.9 MHz (Megahertz) and all FM radio station frequencies end with an odd number, like 92.5, 102.3, 102.9, etc. Consult your newspaper for the different frequencies in your area.

LIMITED WARRANTY

Excluding Tape Players, Record Players, and Lights, **ELECTRONIC COMPONENTS** of these radio products are warranted against defects in materials and workmanship for a period of **ONE (1) YEAR** from the date of original purchase. Any defective product will be factory serviced, or at the option of the Company exchanged with a factory serviced or new unit of the same model without charge by the local Music & Sound distributor who sold the product when in the opinion of the Company such defect is due to normal use and service, and the product has not been for commercial use, subjected to neglect, acts of God, accident, incorrect installation, or in violation of the limitations and instructions furnished by us as to the use and operation of the product.

EXTENDED WARRANTY

FOR AN ADDITIONAL TWO (2) YEARS Music & Sound, Inc. exclusively warrants and will factory service or replace within five (5) working days after receipt at Dallas, Texas transportation charges prepaid any defective product for \$25.00 payable in advance to cover the cost of materials, labor, packaging and return transportation. No allowance will be made for the removal and installation of a defective product under this extended warranty.

MUSIC & SOUND, Inc.

PRELIMINARY OPERATIONS

Before you select a radio station, set the operating controls as follows:

1. AUTO-OFF-ON-SWITCH (Models 250 with Clock)

- a. Set the function switch to ON

PROGRAM SELECTOR SWITCH

- a. Set to RADIO position.

SPEAKER LEVEL

- a. Rotate the Control to the maximum clockwise position.

RADIO LEVEL

- a. Position the knob indicator at the 9 o'clock setting. This turns the Model 200 radio ON, and a station frequency will appear in the display.

STONE CONTROL (Models 250 with Clock)

- a. Turn the knob indicator to the straight up 12 o'clock position.

INTERCOM LEVEL

- a. Turn the knob indicator to the straight up 12 o'clock position.

ROOM SPEAKERS

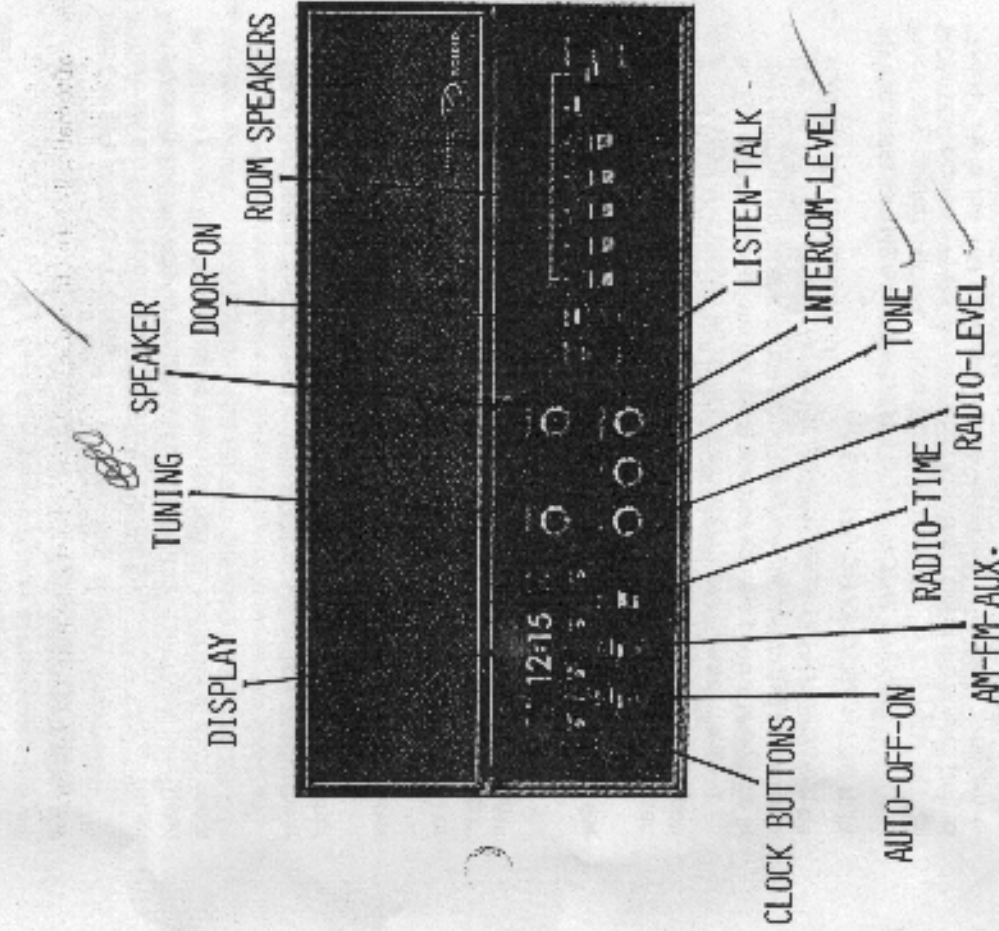
- a. Place the individual room speaker switches in the RAD-INT And... you are now ready to tune a radio station.

RADIO STATION TUNING

Rotate the TUNING knob to select the desired radio station. Turning the knob clockwise will tune UP to higher frequencies, and counter clockwise will tune DOWN to the lower station frequencies. Care should be exercised to "Center Tune" the station frequency by "rocking" above and below the station frequency to insure that you have accurately tuned the station for the best sound without distortion. The station frequency tuned will be indicated in the display window. After Tuning, if the TIME of day is desired, move the RADIO/TIME switch (Models 250 Only) to the TIME position and the station frequency will be replaced by the TIME.

- a. When changing from RADIO to the TIME display, a 3-5 second delay is normal and a random number might appear during the change cycle. This is normal and should be disregarded.
- b. Leaving the switch in the TIME position shows the time of day unless a radio station is being tuned. For Model 250 system the TIME position is the normal, and any rotation of the TUNING knob automatically changes the display to read radio station frequencies.
- c. After selection of the radio station, the display will automatically return to the correct time of day after a 3-5 second delay.
- d. The Models 250 (with Clock) turn the radio OFF by placing the AUTO/OFF/ON switch in the OFF position. Placing this same switch in the ON position turns the radio ON, and simultaneously the time of day shown on the display window will disappear, and the last tuned radio station frequency will appear for 3-5 seconds, after which the time of day will re-appear.

DIGITAL RADIO INTERCOM SYSTEM MODEL 250



TAPE and PHONO PLAYERS

Input jacks are located below the speaker accessible from the back of the Master Unit. To reach these jacks the Master Unit must be removed from the wall. The function of the jacks are labeled on the Master Unit. To play either a Record Player or Tape Player place the AM/FM/AUX Switch in the AUX position.

- With the Switch in the AUX position the display of the Models 250 will automatically show the time of day.
- With the Switch in the AUX position the display of the Models 200 will automatically turn off, and indicate the radio station frequency when the Switch is returned to the AM or FM position.

ROOM SPEAKER SWITCHES

There are seven (7) room speaker switches on the Models 250, and six (6) on the Models 200. Additional speakers (maximum of 12) could have been used with the system by hooking up as many as two (2) speakers to each room speaker switch.

TO MONITOR

Place the Speaker Switch(s) in the MONITOR position. This lets you hear what is taking place in the monitored room at the Master Unit, and all other room speakers with the speaker switch in RAD-INT position.

- A monitored speaker will receive calls from the Master Unit or other Room Speakers, but will not receive Door Chime signals.
- A speaker switch in the OFF position will not receive either RADIO or INTERCOM functions.
- A speaker switch in the RAD-INT position (Normal) will receive both RADIO and INTERCOM functions.

INTERCOM PROGRAM

The Intercom is operational 24 hours a day. It is always ON, even when the Radio is OFF.

- Loudness (volume) adjustments are a matter of adjustment by the user. Too much volume can cause feedback. If a howling noise is heard when using the Intercom "reduce the Intercom Level."
 - For intercom functions the room speaker volume control should be in the near "full on" position. If the loudness (volume) setting of a speaker is low or off, the sensitivity of the speaker as a microphone will be substantially reduced or off.
- TO TALK FROM THE MASTER UNIT TO THE ROOM SPEAKERS**
- Place any quantity of the Room Speaker Switches in the RAD-INT or MONITOR position. Press the LISTEN/TALK SWITCH of the Master Unit to "TALK." Hold the TALK position while speaking. The radio program is muted, and your voice communication will be heard at all stations in the RAD-INT or MONITOR position, unless the room station volume control is turned OFF.

- Release the switch from the TALK position to receive a reply from any of the room speakers.

THE CLOCK/TIMER (Models 250 Only)

TO SET THE CLOCK TO THE CORRECT TIME

Start by placing the AUTO/OFF/ON Switch in the OFF Position. The Display will show the time.

- The clock features a FAST and SLOW time set button. To rapidly advance the time press the FAST Button. When you approach the correct time release the FAST Button, and advance the hourly setting with the SLOW Button to prevent going past the correct time setting. If you pass the time setting you must repeat the process. You can't back up.
- No AM (Morning) time is identified on the Display, but the PM (Afternoon) time is indicated by a RED DOT. In case of a power interruption the Time Display in the window will flash OFF and ON as a warning that power failure occurred. The clock will display an incorrect time and require re-setting.

TO SET THE AUTOMATIC OFF (SLEEP) FUNCTION

The Clock can be set to turn the Radio OFF after 59 minutes of playing time.

- Place the AUTO/OFF/ON Switch in the ON Position. The radio will play on the frequency of the last tuned station. Place the RADIO/TIME Switch in the TIME Position. Press the SLEEP Button and the Display will show 00 to 59 minutes. Hold the SLEEP Button, and simultaneously Press the SLOW Button. Count down to the desired for the Radio to play. Position the AUTO/OFF/ON Switch in the OFF Position.

TO SET THE AUTOMATIC ON (WAKE-UP) FUNCTION

The clock can be set to turn the Radio ON at any desired hour.

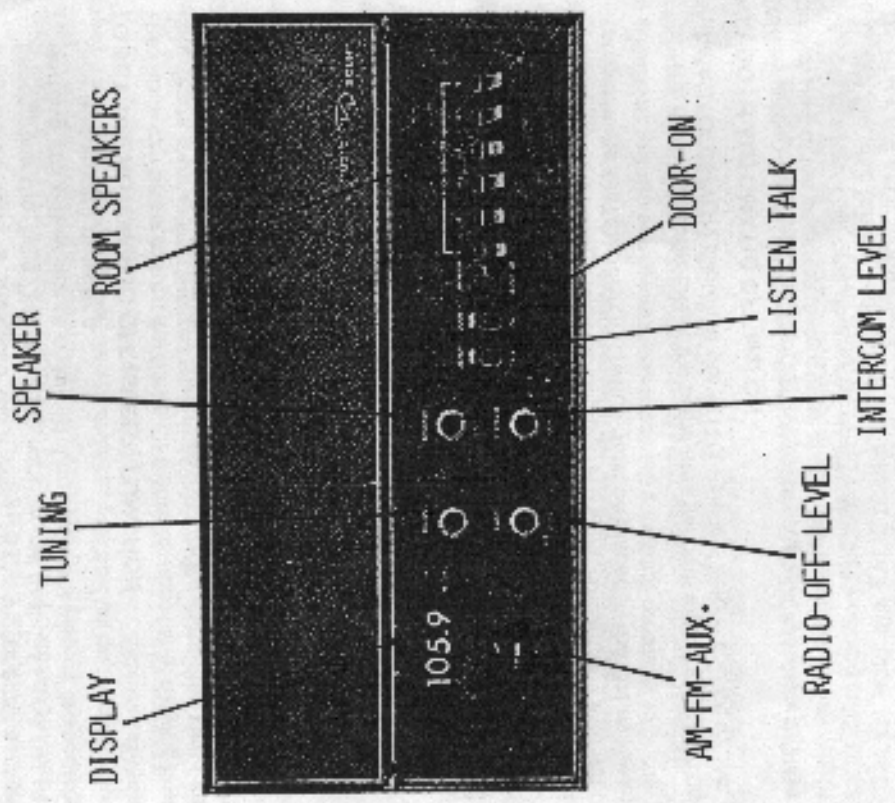
- Place the AUTO/OFF/ON Switch in the ON Position. The radio will play on the frequency of the last tuned station. Press the AUTO Button and simultaneously Press the FAST or SLOW Button to advance the time setting to the hour you want the radio to come ON. Place the AUTO/OFF/ON Switch in the AUTO Position. The radio will come ON, play for one (1) hour, and automatically turn OFF. To continue with radio program the AUTO/OFF/ON Switch must be placed in the ON (Normal) Position.
- The radio will come ON at the same time the next morning by placing the AUTO/OFF/ON Switch in the AUTO Position before you go to bed.

FOR BOTH AUTOMATIC OFF and ON

Start by setting the desired times when the radio will go OFF and come ON in the first part of the separate instructions shown above.

- Set the turn OFF time as desired up to 59 minutes.
- Set the time for the Radio to turn ON.
- Place the AUTO/OFF/ON Switch in the AUTO Position.
- The radio will turn OFF automatically, and turn ON automatically at the pre-selected hour.
- Place the AUTO/OFF/ON Switch in the ON (Normal) position for daytime extended play after the radio has come ON automatically.

DIGITAL RADIO INTERCOM SYSTEM MODEL 200



b. Or, Release the TALK Switch, and re-position any room speaker from the RAD-INT position to the MONITOR position, to receive a reply without the room speaker having to operate any of the controls. This technique is very useful to communicate with a person who is sick or unable to operate the controls of a room speaker.

ROOM TO ROOM COMMUNICATION

All room station in the RAD-INT Switch position can communicate with one another by Pressing the LISTEN/TALK Switch to TALK, Release to LISTEN.

DOOR ANSWERING

Never open the Door to a stranger. That is good advice. . . From the Master Unit with one finger Press and Hold the DOOR/ON Switch in the ON Position. With another finger Press the LISTEN/TALK Switch to TALK, and Release to LISTEN. The visitor at the door does nothing but talk.

DOOR CHIMES (Optional Equipment)

Some Models of the 200/250 system are optionally equipped with a 3-Note or 8-Note door chime. Activating the door chime will mute (silence) the radio program during the chime cycle. Units equipped with door chimes must leave at least one speaker (Master Unit) ON to monitor the chime. Chime tones are not received at speakers in the MONITOR position.

AREA RADIO STATION LISTINGS

AM	FM
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

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