



A Division of Lindsay Manufacturing

Radio-Intercoms - Stereo Speakers - Surround Sound Speakers - Central Vacuums
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OPERATING INSTRUCTIONS RADIO INTERCOM SYSTEM -MODEL 460

The Model 460 combination AM/FM Radio and Intercom with Door Chimes is a sophisticated state of the art home entertainment and communications system that is easy to operate by everyone in the family. To enjoy the many features of the system you must read these instructions. Keep this booklet in a handy place for reference and for help to perform the less frequently used functions.

SOME HELPFUL SUGGESTIONS

1. This radio and intercom is a SYSTEM of five or more speakers plus a door entry speaker that activates the Westminster Chime. The best performance and quality of audio requires you to understand there are two (2) separate volume controls that regulate the loudness of any room speaker.

A. The main loudness control is on the Master Unit marked RADIO VOLUME. This control regulates the MAXIMUM loudness of volume that will be received at all the room speakers. This volume control should always be adjusted when you select radio program, and be turned slightly LOUDER THAN YOUR COMFORT LEVEL with the Speaker volume control in the Master Unit fully "ON".

B. A secondary loudness control is on every Room Speaker including the Master Unit. This volume control should be used to a MINIMUM (Near Full On) to reduce the loudness setting of the main RADIO VOLUME control to the individual comfort level of any Speaker. Remember, the setting at the Master Unit is slightly louder than normal, and we adjust the individual MasterRoom speaker a little from full "ON" to the lower comfort level,

What we don't do is turn the RADIO VOLUME control on the Master Unit to a very loud unnecessary high setting that can cause the amplifier to go into distortion, and then try to eliminate the poor audio quality (due to distortion) received at the room speaker with a major adjustment to turn the volume lower.

SPEAKER ON/OFF VOLUME CONTROLS

The ideal position for all SPEAKER controls (MasterRoom Patio) is the fully clockwise position. The speakers are fully "ON" at this setting. A setting lower than the 3 o'clock position will result in low level intercom communication even if the INTERCOM volume control at the Master Unit is fully ON. To turn a speaker "OFF" turn the volume control fully counterclockwise. At the OFF setting the Room Speaker cannot be MONITORED and will not be included in the ROOM LISTEN FUNCTION. This guarantees "PRIVACY" at each Room Speaker.

STATION TUNING RADIO ON/OFF

Room and Patio speakers with the optional "ST" (Station Tuning) feature will have a PUSH TO TUNE label on the Volume Control. To turn the radio "ON" press the volume control knob and hold for approximately two (2) seconds. To turn the radio "OFF", push the Volume Control Knob and hold for approximately two (2) seconds. When the radio is "ON" press the control knob and immediately release to advance the tuner through the radio stations 16 in MEMORY previously selected. See RADIO STATION MEMORY (1 6)

INTERCOM VOLUME CONTROL

This volume control should be adjusted with the Room Speaker at high settings as described above. Communication and monitoring are most effective when the Room Speaker volume control is fully "ON".

TONE CONTROL



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This control adjusts the BASS/TREBLE tone of any selected program. Turn the control counterclockwise for more BASS, and clockwise for more TREBLE,

RADIO VOLUME CONTROL

This is the MAIN VOLUME CONTROL for audio program. It should be adjusted to a slightly higher than comfort level with the Room Speaker at as near fully "ON" to your personal comfort.

CHIME VOLUME

The Door Chime volume is adjusted at the factory assuming a near fully "ON" loudness of the Room Speaker volume control. If a different chime volume is desired, there is labeled internal volume control on the back of the Master Unit. Remove the Master Unit from the wall for adjustment with a small screw driver.

ROOM SELECTOR SWITCHES 1-12 PLUS MASTER UNIT

Each switch controls a Room Speaker. Each Switch has three (3) positions, INT-ONLY, MON, and RAD-INT.

1. When the INT-ONLY (Intercom Only) position is selected and the numbered room speaker is "ON" the speaker will receive all intercom communications and the door chimes. The speaker WILL NOT receive a MONITORED ROOM, or RADIO PROGRAM.
2. When the MON (Monitor) position is selected the numbered room speaker is "ON" and the room speaker will transmit to all speakers that are in the RAD-INT position and are also "ON". The room speaker WILL NOT receive communications or chimes unless the MONITOR OVERRIDE switch (described below) is in the "ON" position.

The sensitivity of a MONITOR Room Speaker varies with the number of speakers in the MONITOR position that are microphones active at the same time. The system works best with two (2) room speakers in the MONITOR mode at the same time, and the speaker volume control fully "ON".

3. When the RAD-INT (RadioIntercom) position and the numbered room speaker is "ON" the room speaker **will** receive everything. The room speaker MUST BE in the RAD-INT position to receive a Monitored Room. The RAD-INT position is the position most often used to program the Room Speakers.

MONITOR `OVERRIDE`

When the MONITOR OVERRIDE switch on the Master Unit is "OFF", a monitored room will not receive intercom communication or door chimes. If the MONITOR OVERRIDE switch is "ON" a monitored room will receive intercom communication and door chimes.

ROOM TALK and ROOM LISTEN

When ROOM TALK is pressed and held in, at the Master Unit or any Room Speaker, you can talk to ALL OTHER ROOMS that are not turned "OFF" at the Room Speaker volume control. The radio will `MUTE` when you press the Room Talk button. You can not talk to a Room Speaker in the MONITOR position unless the MONITOR OVERRIDE switch is "ON".

When the ROOM LISTEN button is pressed and held in, at the Master Unit or a Room Speaker, you can listen to all other rooms that are not turned "OFF" at the Room Speaker volume control. The radio **will** "MUTE" while the Room Listen button is held in.



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The sensitivity of ROOM LISTEN (intercom loudness) varies with the number of Room Speakers "ON" throughout the system at the same time. Notice the increase in intercom loudness when you turn seldom used speakers "OFF" such as guest rooms. Leaving unused speakers "OFF" **will** improve the performance of the intercom to all other Room Speakers.

DOOR TALK

When the DOOR TALK button is pressed and held in at the Master Unit or any Room Speaker you can talk to the Doors. When you release the DOOR TALK button the person at the door can speaker HANDS FREE for 15 seconds. The radio program if "ON" will MUTE, and return automatically after the final 15 second DOOR LISTEN delay. All Room Speakers that are not turned "OFF" at the volume control will hear the door communication. A Room Speaker in the MONITOR position will not hear the door communication unless the MONITOR OVERRIDE switch at the Master Unit is "ON".

"HANDS FREE" ANSWERING A CALL

To utilize the HANDS FREE feature when communicating with other Room Speakers or the Patio, the person initiating the call **MUST** operate both the TALK and LISTEN switches. Press ROOM TALK to initiate a call. Release ROOM TALK, and press and HOLD the ROOM LISTEN button while you receive a reply.

POWER OFF

Press to turn "OFF" the AM, FM, CD, or AUX functions.

DISPLAY TIME/FREQ

Press to switch the digital display from the TIME Display and FREQUENCY Display. The display will always return to TIME after ten seconds of no station activity. This button functions only when AM or FM radio program is selected.

AM RADIO PROGRAM

Press to activate the AM BROADCAST BAND as the source of radio program. The LED red light indicator above the button will light when AM radio is "ON". When AM is selected the display will switch to FREQUENCY automatically and return to TIME after ten seconds if no program is selected.

FM RADIO PROGRAM

Press to activate the FM BROADCAST BAND as a source of radio program. The LED red light indicator above the button will light when FM radio is "ON". When FM is selected the display will switch to FREQUENCY automatically and return to TIME after ten seconds if no program is selected.

COMPACT DISC (CD) PROGRAM

Press to activate the CD INPUT as the source of program. The LED red light indicator above the button will light when the CD INPUT is "ON". Requires optional AK-2 auxiliary input kit pre-wired during construction.

AUXILIARY (AUX) INPUT

Press to activate the AUX INPUT as the source of program. The LED Red light indicator above the button will light when the AUX button is "ON". Requires optional AK-2 auxiliary input kit pre-wired during construction.



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MANUAL SCAN DOWN

If the AM or FM button is "ON" and the FREQUENCY is displayed, each PRESS of the SCAN button will lower the FREQUENCY one position DOWN on the AM or FM frequency band. AM or FM must be "ON", and the FREQUENCY must be displayed to make a station change. The DISPLAY will return to TIME in ten seconds if no station is selected.

MANUAL SCAN UP

If the AM or FM button is "ON" and the FREQUENCY is displayed, each PRESS of the SCAN button will advance the FREQUENCY one position UP on the AM or FM frequency band. AM or FM must be "ON", and the FREQUENCY must be displayed to make a station change. The DISPLAY will return to TIME in ten seconds if no station is selected.

SEEK TUNING DOWN and UP

When you press the SEEK UP button it will automatically "SEEK" (advance the tuner) to the next higher strong AM or FM radio station on the band. The FREQUENCY is automatically displayed during this function. When you stop on a station the display will automatically return to TIME after ten (10) seconds. You must be on the AM or FM program for this function to operate.

When you press the SEEK DOWN button the same function takes place except the movement is DOWN on the AM or FM Radio Band.

RADIO STATION MEMORY (16)

When any one of the buttons numbered 16 is pressed, the AM OR FM station stored in MEMORY, corresponding to that button will be activated. Each number stores one AM or FM radio station. When the numbered button is pressed the FREQUENCY in Memory **will** automatically appear in the display. The display will return to TIME ten (10) seconds after a radio station has been selected. To STORE STATION in MEMORY, use the MEM/TIME SET button. (See Below)

MEMORY and TIME SETTINGS (MEM/TIME SET)

To "store" a radio station (AM or FM) in MEMORY BUTTONS 16 you first select the desired AM or FM Station, and the frequency will show on the display. A good technique is to enter your favorite AM or FM Station on button one, your next favorite station on button number two, etc. Stations in MEMORY can be alternated or mixed in any AM or FM sequence.

After you select your favorite AM or FM Station press Button number ONE, and you have "stored" that station. Select another AM or FM Station and press Button number TWO and you have stored another station, etc. The MEM/TIME SET Button is also used to set the CLOCK.



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SETTING THE CLOCK (HRS ADV) and (MIN ADV)

To set the CLOCK the display must show the TIME. Press the MEM/TIME SET Button and hold it IN. While holding, each time you press the HRS ADV Button you advance the hour setting of the clock by one hour. If you hold the HRS ADV Button IN, the hour setting will rapidly advance through the 24 Hour settings. Be sure to observe the PM indicator when setting the correct hourly time.

When TIME is displayed and the MEM/TIME SET Button is pressed and held, each press of the MIN ADV Button will advance the minute setting of the clock by one minute. If you "hold" the MIN ADV Button IN, the minute setting will rapidly advance through the 60 minute settings.

RADIO AUTOMATICALLY TURNS ON (ON TIME)

When the "ON" TIME Button is pressed and immediately released, the display will switch to the "AUTO ON TIME" and the Red LED indicator above the button will light. The "ON" TIME can now be set using the HRS ADV and MIN ADV Buttons. The display will return to the normal TIME, and the Red LED above the Button will go out after ten seconds of no activity. The "ON" TIME is used with the AUTO function. See Below.

RADIO AUTOMATICALLY TURNS OFF (OFF TIME)

When the "OFF" TIME Button is pressed and immediately released, the display will switch to the "AUTO OFF TIME" and the Red LED indicator above the button will light. The "OFF" TIME can now be set using the HRS ADV and MIN ADV Buttons. The display will return to normal TIME, and the red LED above the Button will go out after ten seconds of no activity. The "OFF" TIME is used with the AUTO function. See Below.

RADIO AUTOMATIC ON/OFF (AUTO)

When the AUTO Button is pressed and immediately released the red LED above the button will light and the AUTOMATIC function will become active and REMAIN indefinitely active 24 hours a day until the AUTO BUTTON IS PRESSED to cancel the automatic ON and OFF function. When the AUTO function is active the radio (AM or FM) will automatically turn ON at the "ON" TIME setting and in sequence at the "OFF" TIME setting. The AM or FM Station that will be turned on and off is determined by whichever broadcast band was selected LAST. The AUTO function WILL NOT turn anything on or off but the AM and FM Radio.

OPTIONAL EQUIPMENT and ACCESSORIES

PATIO SPEAKERS

An outside PATIO Speaker is a popular and frequently added additional speaker to the radio intercom system. The Patio Speaker operates the same as the indoor Room Speaker. Since the Patio Speaker can be distracting to neighbors after dark the speaker should be used with consideration, and when not in use the volume control on the speaker should be turned to the fully "OFF" position to keep voice communications inside the house confidential.

AUDIOTECH™

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THE TAPE PLAYER and COMPACT DISC CHANGER

This radio intercom system features INPUT JACKS accessible from the back (inside) of the Master Unit for permanent connection to a Tape Player, Compact Disc Changer, or another type of accessory utilizing the auxiliary input jack.

AUDIO does not offer these accessories that are available to you from many discount stores at extremely competitive prices. You make the choice of the BRAND and the FUNCTIONS best suited to your application, and you can do this at a substantial saving by making the purchase locally.

All Tape Players and Compact Disc Changers are designed for STEREO, but this radio intercom system is not stereo, it is a compatible monaural system.

ACCESSORY WIRING KIT MODEL AK2

AUDIO sells a wiring kit for use with a Stereo Tape or CD Changer. The Model AK2 kit contains two (2), fifty (50) foot lengths of "shielded" cable and the terminal plate that utilizes a single gang electrical box to receive the output cables from the Tape Player or CD Changer. This kit allows you to permanently connect both the Tape Player and CD Changer to the inputs at the Master Unit

REMOTE CONTROLS and CEILING SPEAKERS

In a large family room or entertainment area where the ceilings are raised or vaulted, CEILING SPEAKERS are often installed to provide more loudness and better distribution of radio or special music program. Most often two (2) ceiling speakers are installed that operate from the same REMOTE CONTROL at a wall location. The Remote Control has the same functions as a regular Room Speaker and operates the same as a Room Speaker.