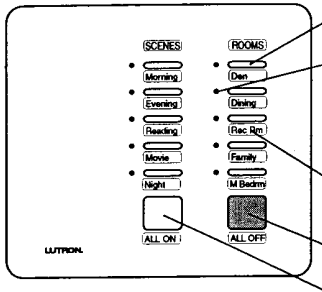
Operation of Cordless Table Top Master Control



Button
Turns lights on/off

LEDs
Glow when associated Room or Scene lights are on. (LEDs turn off after approximately 15 seconds of inactivity.)

Labels
Printed and blank labels provided.

All Off
All lights off.

All On
All lights on.

NOTE: Master controls will not operate the RadioRA System until they have been programmed.

For detailed instructions on programming your Master Control, refer to the RadioRA Setup Guide that is included with a system Repeater.

The Cordless Master Control must be ***"Awaken"*** before starting any of the programming steps in the RadioRA Setup Guide.

The timeout period for an inactive Cordless Master Control in programming mode is 5 minutes.

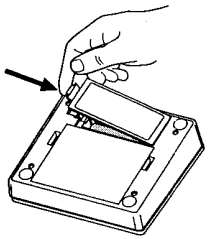
When programming is completed, exit the programming mode. The Cordless Master Control will then revert to it's normal timeout period.

The instruction label on the front of the Cordless Master Control is removable.

Battery Replacement

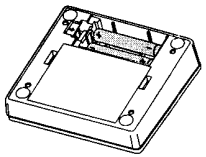
✓ ***Check off Steps as completed.***

☐ **Step 1** **Remove battery cover.**



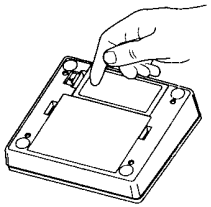
Press tab in the direction of the arrow and lift to open battery cover.

☐ **Step 2** **Replace batteries using two, 1.5V AAA alkaline batteries as shown.**



Align batteries as shown.

☐ **Step 3** **Replace battery cover.**



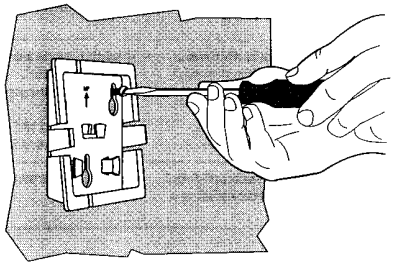
Replace cover and press to close.

Wall Mount Bracket Installation (Optional)

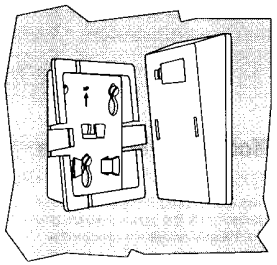
The Cordless Master Control can be wall mounted using the supplied wall bracket.

✓ ***Check off Steps as completed.***

☐ **Step 1** **Attach wall bracket to wall using the supplied screws and wall anchors.**



☐ **Step 2** **Align Cordless Master and snap onto wall bracket.**



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RadioRA Cordless Master (RAMC-XC) Technical Brief:

Device Function: The RAMC-XC is a master control keypad which is table top or wall mounted and contains a super-heterodyne receiver, a transmitter and an antenna. A master control keypad is the user input to an integrated lighting control system. The purpose of the RF communication is to transmit and receive command signals. The command signals allow the RAMC-XC to control and acknowledge the Lutron RA-600L and associated model number dimmers and switches and the Lutron RA-REP. Received command signals ackowledge the state of a dimmer or switch in the system. Transmitted command signals turn on or turn off dimmers and switches in the system and are initiated by manual button pushes.

RF Function: The receiver down converts a 418MHz carrier frequency using a 407.3MHz local oscillator producing a 10.7 MHz IF signal. The signal is further processed to decode data. The transmitter uses a SAW oscillator and power amplifier which is keyed on/off to produce the modulated carrier. Each master control keypad contains a micro controller running at 4MHz to ensure that all transmissions stop within 5 seconds of the button release or within 5 seconds on the beginning of the transmission per 6.1.1(a) or a transmission actuated automatically shall cease transmission within 5 seconds after activation per 6.1.1(b). Modulation is AM, specifically On/Off Keyed (OOK) or sometimes called Amplitude Shift Keyed (ASK) data at 15.625kbps. The antenna cannot be modified or easily replaced by the user.

Analog Function: Each RAMC-XC derives power from two AAA batteries which power a switching DC-DC converter that produces a 5V DC output. The switching frequency of the converter depends upon the load and the input voltage and can range up to 500Khz. The 5V DC output is used to power all analog and micro controller activities.