**MegaCode Series**

**MDR, MDR2, MDRNR, MDRM, MDRM2**

**DIGITAL RECEIVERS**

**Installation Instructions**

**DESCRIPTION**

The MegaCode series of digital receivers are wireless radio controls designed for use with automatic garage door and gate openers. The MegaCode radio format provides unparalleled security. The transmitter and receiver can be programmed to more than a million different codes.

MegaCode receivers and transmitters do not contain a typical "coding switch". Each transmitter is pre-set at the factory to a unique code. The receiver is programmed by sending a signal to it from the transmitter(s) that are going to be used with it. This stores the transmitters code into the receiver's memory. The receiver will retain its memory even without power. The receiver will activate only from these "memorized" transmitters. Each MegaCode receiver can remember a maximum of 10 transmitters.

Receivers are normally powered with 24 volts AC/DC from the garage door or gate operator. Two-channel receivers provide wire connections to activate the operator's light or control other devices.

**STEP 1A MDR/MDRNR/MDR2 Three-terminal Operator Installation.**

Hold receiver up to back of operator. Connect Terminals 1, 2 & 3 on the receiver to Terminals 1, 2 & 3 on the operator.

**STEP 1B MDRM/MDRM2 Recessed Receiver Operator Installation.**

Loosen operator terminal screws. Install receiver into operator "pocket". Connect Terminals 1, 2 & 3 on the receiver to Terminals 1, 2 & 3 on the operator.

**STEP 1C MDR/MDR2 Two-terminal Operator Installation.**

The Model TF524 step-down transformer must be used to power the receiver when connecting to a two-terminal operator or one that supplies other than 24V. Install the screws supplied into the brass terminals on the receiver. Connect the transformer wires to Terminals 1 & 3 (polarity not important). Connect receiver Terminals 1 & 2 to the two operator terminals (polarity not important).

**STEP 2 MDR2/MDRM2 Two-channel Receiver Installation.**

Connect the receiver to the operator as described in the previous step. The channel-two pigtail wires can be connected to the operator's light toggle terminals or to an external device.

**STEP 3 Optional Receiver Mounting Bracket.**

If the receiver isn't going to be mounted directly to the operator terminals, an optional mounting bracket must be used to power the receiver when connecting to a two-terminal operator or one that supplies other than 24V. Install the screws supplied into the brass terminals on the receiver. Connect the transformer wires to Terminals 1 & 3 (polarity not important). Connect receiver Terminals 1 & 2 to the two operator terminals (polarity not important).

**STEP 4A MDR/MDRNR/MDR2 Program button and LED Location.**

Locate the program button and LED on the side of the receiver case.

**STEP 4B Optional Receiver Mounting Bracket.**

If the receiver isn't going to be mounted directly to the operator terminals, an optional mounting bracket must be used to power the receiver when connecting to a two-terminal operator or one that supplies other than 24V. Install the screws supplied into the brass terminals on the receiver. Connect the transformer wires to Terminals 1 & 3 (polarity not important). Connect receiver Terminals 1 & 2 to the two operator terminals (polarity not important).

**MDR** - Single-channel external receiver with relay output.

**MDRM** - Single-channel internal receiver (fits operators with recessed receivers) with solid state output.

**MDRNR** - Single-channel external receiver with solid state output.

**MDR2** - Two-channel external receiver with relay outputs.

**MDRM2** - Two-channel internal receiver (fits operators with recessed receivers) with solid state output on channel one and relay output on channel two.
LED WILL FLASH, COUNTING THE TOTAL NUMBER OF TRANSMITTERS PROGRAMMED TO THAT CHANNEL. THEN IT WILL BLINK ONE MORE TIME AS THE TRANSMITTERS ARE ERASED FROM THAT CHANNEL.

STEP 5 Program receiver. Momentarily press the receiver’s program button (channel one or two) until the LED begins to flash (about 3 seconds) and then release the button. Count the number of flashes. The number of flashes equals the number of transmitters programmed into that channel of the receiver.

NOTE: Don’t hold down the programming button longer than 5 seconds, the receiver’s memory for that channel will be erased (Step 9).

NOTE: Be sure to press the receiver program button for less than 2 seconds (any longer may erase memory.)

WARNING! Door operator will not activate when the receiver is being programmed from the transmitter, but the door operator will activate the next time the transmitter is activated after programming.

NOTE: The programming LED also monitors radio signals entering the receiver. It is common to see an occasional blink from the LED. The LED will also light when any transmitter tuned to the receiver’s frequency (programmed into the receiver or not) is activated.

ỳ

STEP 6 Add additional transmitters. Repeat Step 9 for each transmitter used with this receiver. Be sure to press the receiver’s program button each time a new transmitter or a different transmitter button on a multi-button transmitter is pressed. If the LED doesn’t come on when the receiver’s program button is pressed, the receiver’s memory is full (10 transmitters total). Use the erase function (Step 9) to remove transmitters from the receiver’s memory.

NOTE: Be sure door area is clear. Activate the desired transmitter button. The LED will flicker as the desired transmitter is entered into the receiver’s memory. Press the desired transmitter button (channel one or two). The red programming LED will light if there’s room in the receiver’s memory for another transmitter (10 maximum per receiver). The LED stays on for about 5 seconds. A transmitter must be entered while the LED is on. Press the desired transmitter button. The LED will flicker indicating that the receiver has accepted the transmitter.

STEP 7 Review memory. Press and hold the receiver’s program button (channel one or two) until the LED begins to flash (about 3 seconds) and then release the button. Count the number of flashes. The number of flashes equals the number of transmitters programmed into that channel of the receiver.

NOTE: Don’t hold down the programming button longer than 5 seconds, the receiver’s memory for that channel will be erased (Step 9).

NOTE: The same transmitter (or the same transmitter button on multi-button transmitters) cannot be programmed into both receiver channels one and two.

NOTE: If the receivers LED flashes continuously when a transmitter isn’t being activated, the receiver is too close to an electrical noise source. Move the receiver away from the noise source or call technical services for assistance.

LIMTED WARRANTY

This product is warranted to the consumer against defects in material and workmanship for one year from the date of purchase. This warranty applies to the first retail buyer of new devices. Warrantor will repair, or at its option, replace, any device it finds that requires service under this warranty, and will return the repaired or replaced device to the consumer at the warrantor’s cost. If the product is returned within the one year warranty period, the consumer must pay all transportation costs. Repair, or replacement, as provided under this warranty, will be the consumer’s exclusive remedy. This warranty is made in lieu of all other warranties, express or implied, and warrants merchantability and fitness for a particular purpose. This warranty does not cover defects or damage caused by use, or misuse, or failure to follow instructions. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. Importantly, this warranty is not transferable.

For U.S. installations only: The radios are required to comply with FCC Rules and Regulations as Part 15 devices. As such, they cannot respond to more than one received signal at a time and may be blocked by radio signals that occur or near their operating frequencies, regardless of code settings.

Contact Linear Technical Services at 1-800-421-1587 for an RMA# and other important details.

Copyright © 1999 Linear Corporation

WITH MULTI-BUTTON TRANSMITTERS PRESS PROGRAM BUTTON FIRST.

CONTINUOUSLY FLASHING LED MAY INDICATE ELECTRICAL NOISE INTERFERENCE.

PRESS PROGRAM BUTTON (CHANNEL 1 OR 2) FOR FIVE SECONDS OR MORE.

LED WILL FLASH, COUNTING THE TOTAL NUMBER OF TRANSMITTERS PROGRAMMED TO THAT CHANNEL. THE LED WILL BLINK ONE MORE TIME AS ALL TRANSMITTERS ARE ERASED FROM THAT CHANNEL.

CHANNEL ONE PROGRAMMING BUTTON

PROGRAMMING LED

WITH MULTI-BUTTON TRANSMITTERS PRESS PROGRAM BUTTON FIRST.

PRESS PROGRAM BUTTON CHANNEL 1 OR 2 FOR FIVE SECONDS OR MORE.

LED WILL فلاش، COUNTING THE TOTAL NUMBER OF TRANSMITTERS PROGRAMMED TO THAT CHANNEL. THE LED WILL BLINK ONE MORE TIME AS ALL TRANSMITTERS ARE ERASED FROM THAT CHANNEL.

CONTINUOUSLY FLASHING LED MAY INDICATE ELECTRICAL NOISE INTERFERENCE.

Press and hold the receiver’s program button (channel one or two) for 5 seconds or more. After the LED blinks (count of transmitters) it will blink one more time for channel one and twice for channel 2 as the receiver’s memory for that channel is erased. All transmitters for each receiver channel are erased at the same time.

Press and hold the receiver’s program button (channel one or two) for 5 seconds or more. After the LED blinks (count of transmitters) it will blink one more time for channel one and twice for channel 2 as the receiver’s memory for that channel is erased. All transmitters for each receiver channel are erased at the same time.

Press and hold the receiver’s program button (channel one or two) for 5 seconds or more. After the LED blinks (count of transmitters) it will blink one more time for channel one and twice for channel 2 as the receiver’s memory for that channel is erased. All transmitters for each receiver channel are erased at the same time.

Press and hold the receiver’s program button (channel one or two) for 5 seconds or more. After the LED blinks (count of transmitters) it will blink one more time for channel one and twice for channel 2 as the receiver’s memory for that channel is erased. All transmitters for each receiver channel are erased at the same time.

Press and hold the receiver’s program button (channel one or two) for 5 seconds or more. After the LED blinks (count of transmitters) it will blink one more time for channel one and twice for channel 2 as the receiver’s memory for that channel is erased. All transmitters for each receiver channel are erased at the same time.

Press and hold the receiver’s program button (channel one or two) for 5 seconds or more. After the LED blinks (count of transmitters) it will blink one more time for channel one and twice for channel 2 as the receiver’s memory for that channel is erased. All transmitters for each receiver channel are erased at the same time.