MegaCode Series

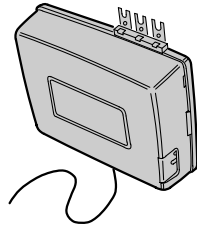**MEGACODE**®

MDR, MDR2, MDRNR, MDRM, MDRM2
DIGITAL RECEIVERS

Installation Instructions

Linear®

(800) 421-1587 • www.linearcorp.com

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.
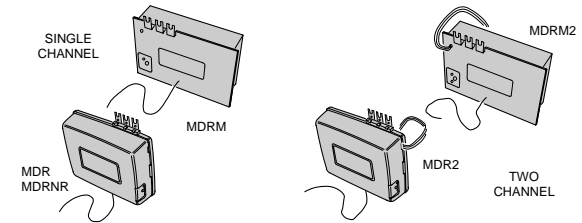
MDR - Single-channel external receiver with relay output.
MDRM - Single-channel internal receiver (fits operators with recessed receivers) with solid state output.
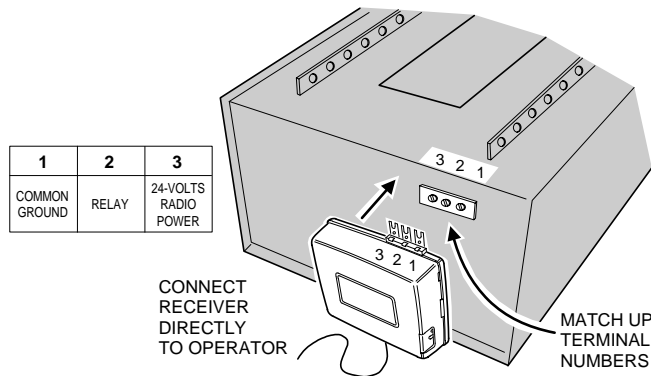**MDRNR** - Single-channel external receiver with solid state output.
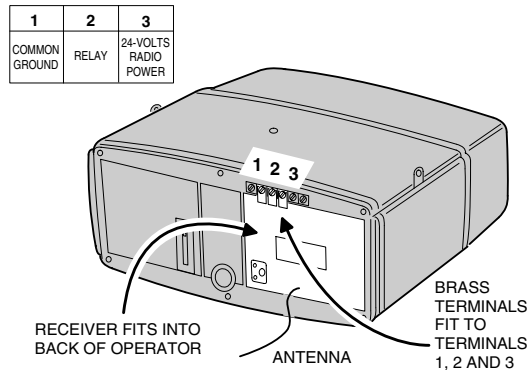**MDR2** - Two-channel external receiver with relay outputs.
MDRM2 - Two-channel internal receiver (fits operators with recessed receivers) with solid state output on channel one and relay output on channel two.

SINGLE CHANNEL

MDRM
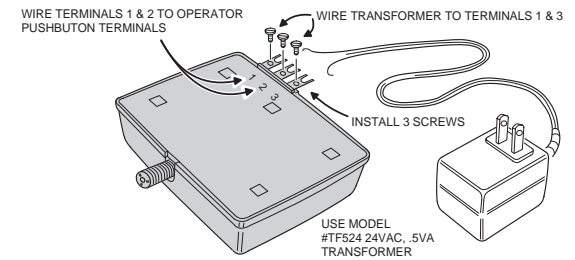
MDR MDRNR

MDRM2

MDR2

TWO CHANNEL

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.

1	2	3
COMMON GROUND	RELAY	24-VOLTS RADIO POWER

CONNECT RECEIVER DIRECTLY TO OPERATOR
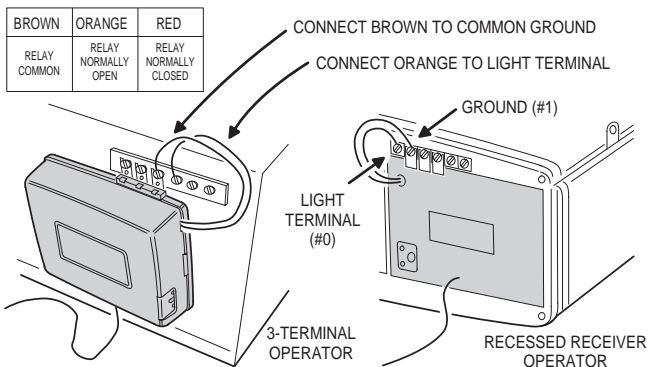
MATCH UP TERMINAL NUMBERS

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.

1	2	3
COMMON GROUND	RELAY	24-VOLTS RADIO POWER

RECEIVER FITS INTO BACK OF OPERATOR

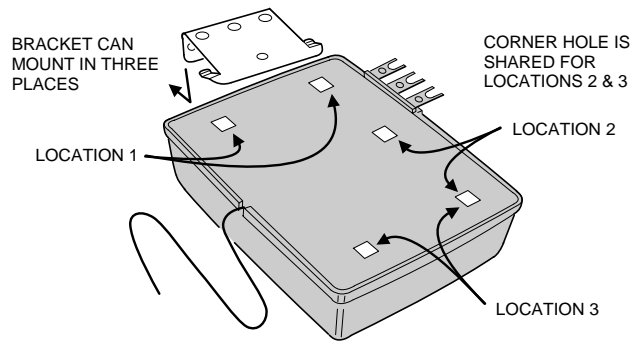ANTENNA

BRASS TERMINALS FIT TO TERMINALS 1, 2 AND 3

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).

WIRE TERMINALS 1 & 2 TO OPERATOR PUSHBUTON TERMINALS

WIRE TRANSFORMER TO TERMINALS 1 & 3

INSTALL 3 SCREWS
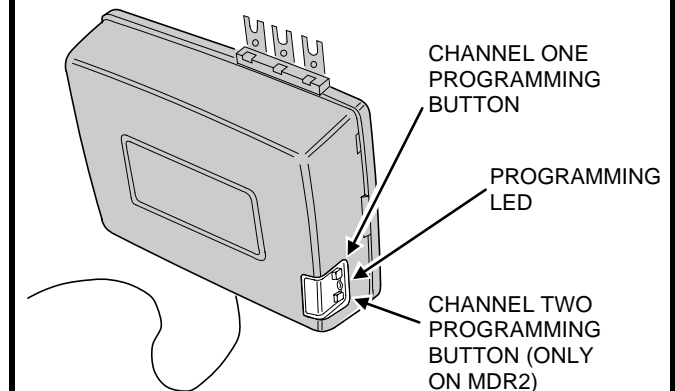
USE MODEL #TF524 24VAC, .5VA TRANSFORMER

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.

BROWN	ORANGE	RED
RELAY COMMON	RELAY NORMALLY OPEN	RELAY NORMALLY CLOSED

CONNECT BROWN TO COMMON GROUND
CONNECT ORANGE TO LIGHT TERMINAL

GROUND (#1)

LIGHT TERMINAL (#0)

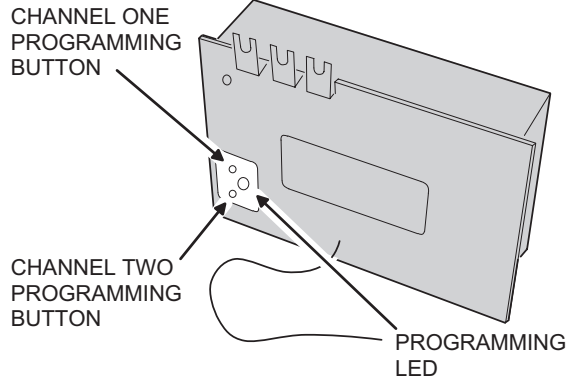3-TERMINAL OPERATOR

RECESSED RECEIVER OPERATOR

STEP 3   Optional Receiver Mounting Bracket. If the receiver isn't going to be mounted directly to the operator terminals, an optional mounting bracket is supplied. It can be installed three ways onto the MDR or MDR2 case. Screw the bracket to a wall or stud and snap the receiver onto it.

BRACKET CAN MOUNT IN THREE PLACES

CORNER HOLE IS SHARED FOR LOCATIONS 2 & 3

LOCATION 1

LOCATION 2

LOCATION 3

STEP 4A   MDR/MDRNR/MDR2 Program button and LED Location. Locate the program button and LED on the side of the receiver case.

CHANNEL ONE PROGRAMMING BUTTON

PROGRAMMING LED

CHANNEL TWO PROGRAMMING BUTTON (ONLY ON MDR2)

STEP 4B **MDRM/MDRM2 Program button and LED Location.** Locate the program button and LED on the back of the receiver case.

CHANNEL ONE PROGRAMMING BUTTON
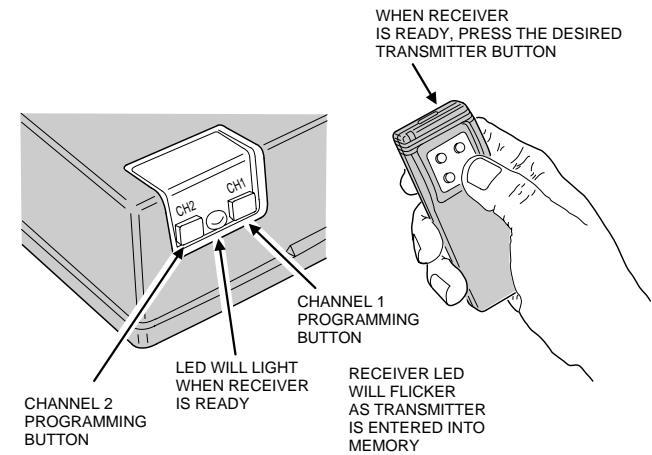
CHANNEL TWO PROGRAMMING BUTTON

PROGRAMMING LED

STEP 5 **Program receiver.** Momentarily press the receiver's program 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.

➡ *NOTE: Be sure to press the receiver program button for less than 2 seconds (any longer may erase memory.)*
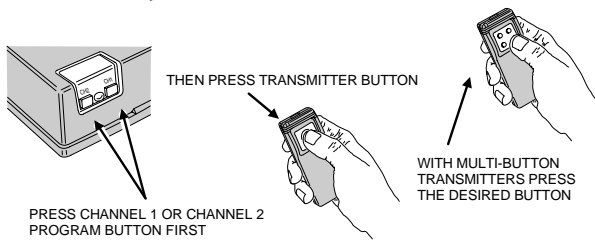
➡ ***WARNING! Door operator will not activate when the receiver is being programmed from the transmitter, but the door operator will activate the next time the transmitter is activated after programming.***

➡ *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.*
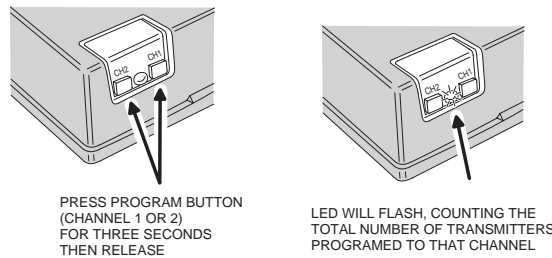
WHEN RECEIVER IS READY, PRESS THE DESIRED TRANSMITTER BUTTON

CHANNEL 1 PROGRAMMING BUTTON

LED WILL LIGHT WHEN RECEIVER IS READY

CHANNEL 2 PROGRAMMING BUTTON

RECEIVER LED WILL FLICKER AS TRANSMITTER IS ENTERED INTO MEMORY

STEP 6 **Add additional transmitters.** Repeat Step 5 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 form the receiver's memory.
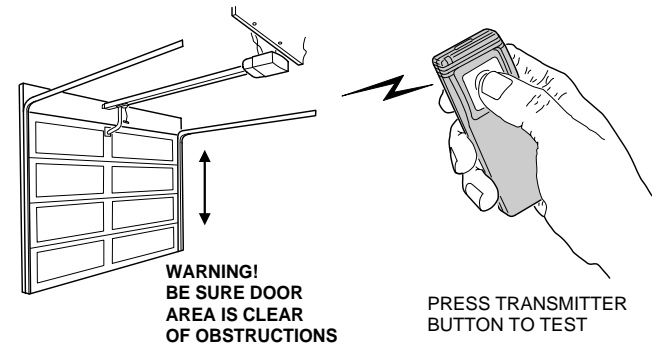
THEN PRESS TRANSMITTER BUTTON

WITH MULTI-BUTTON TRANSMITTERS PRESS THE DESIRED BUTTON

PRESS CHANNEL 1 OR CHANNEL 2 PROGRAM BUTTON FIRST

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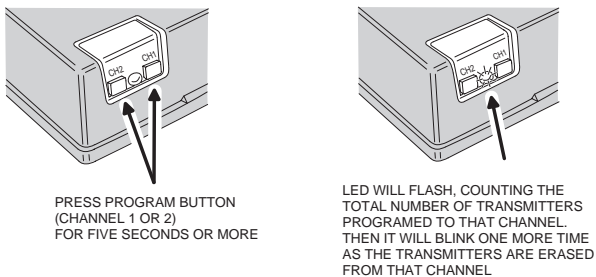
➡ ***NOTE: Don't hold down the programming button longer than 5 seconds, the receiver's memory for that channel will be erased (Step 9).***

PRESS PROGRAM BUTTON (CHANNEL 1 OR 2) FOR THREE SECONDS THEN RELEASE

LED WILL FLASH, COUNTING THE TOTAL NUMBER OF TRANSMITTERS PROGRAMED TO THAT CHANNEL

STEP 8 **Test receiver.** *Be sure door area is clear.* Activate each transmitter. The receiver relay should click (relay output models only) and the operator should activate. **Wait 1 second between each activation.**
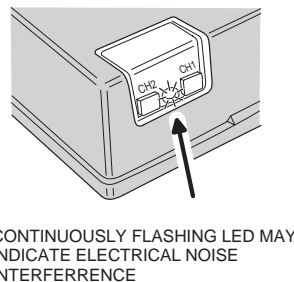
WARNING! BE SURE DOOR AREA IS CLEAR OF OBSTRUCTIONS

PRESS TRANSMITTER BUTTON TO TEST

STEP 9 **Erasing receiver memory.** Transmitters may be erased from the receiver's memory by pressing and holding 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 PROGRAM BUTTON (CHANNEL 1 OR 2) FOR FIVE SECONDS OR MORE

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

➡ *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.*

CONTINUOUSLY FLASHING LED MAY INDICATE ELECTRICAL NOISE INTERFERRENCE

LIMITED 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 first retail buyers 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. For warranty service and shipping instructions contact warrantor at the address shown below. Devices must be sent to warrantor for service at owner's expense. The remedies provided by this warranty are exclusive. Implied warranties under state law are to the one year period of this written warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. In order to be protected by this warranty, save your proof of purchase and send copy with equipment should repair be required. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

All products returned for warranty service require a Return Product Authorization Number (RPA#). Contact Linear Technical Services at 1-800-421-1587 for an RPA# and other important details.

IMPORTANT !!!

Linear radio controls provide a reliable communications link and fill an important need in portable wireless signaling. However, there are some limitations which must be observed.

✳ For U.S. installations only: The radios are required to comply with FCC Rules and Regulations as Part 15 devices. As such, they have limited transmitter power and therefore limited range.

✳ A receiver cannot respond to more than one transmitted signal at a time and may be blocked by radio signals that occur on or near their operating frequencies, regardless of code settings.

✳ Changes or modifications to the device may void FCC compliance.

✳ Infrequently used radio links should be tested regularly to protect against undetected interference or fault.

✳ A general knowledge of radio and its vagaries should be gained prior to acting as a wholesale distributor or dealer, and these facts should be communicated to the ultimate users.

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