

RADIO RECEIVER / TRANSMITTER

INSTALLATION AND PROGRAMMING INSTRUCTIONS

DESCRIPTION

Camden radio controls are digital wireless transmitters and receivers, designed to activate automatic doors, magnetic locks, electric door strikes, and other types of electrified door opening devices.

Transmitters are supplied in three styles: full-size hand held (models CM-TX-1, CM-TX-2, CM-TX-4), mini hand held (models CM-TX-1M, CM-TX-2M), and wall switch ready (models CM-TX-7, and TX-8). CM-TX-7 & CM-TX-8 are available with the "iRM" option, which extends transmission time to 3 seconds.

Model CM-TX7 (iRM) attaches directly to our wall mounted all-active switches (series CM-40/41/45/60/65) as well as other series of key switches and exit switches. Pushing the button or turning the switch, activates the transmitter, and sends a coded signal to the receiver. Model TX-8 (iRM) is very tiny and suitable for installing in jamb mount boxes.

Each transmitter is factory preset with its own unique code. The receiver "learns" the codes for those transmitters that are to be used with it, and stores them in non-volatile memory. The receiver can only be activated by using a transmitter with one of these pre-programmed codes. This "push and learn" technology eliminates the need for dip switch setting, and provides unmatched reliability and security with over one million codes.

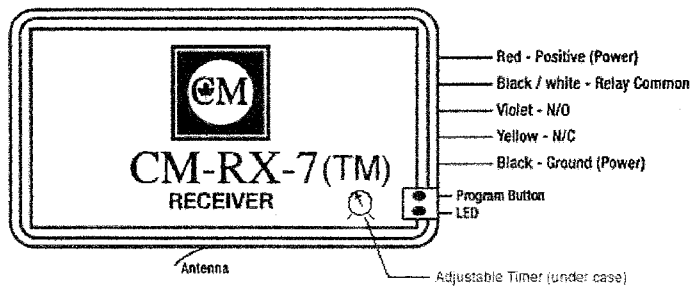
Each receiver can store a maximum of 10 codes. For gate applications, we offer Model CM-RX-RG, which has high sensitivity and, can learn up to 40 unique transmitter codes. For very large installations, consider our "AccessMaster" digital receiver.

INSTALLING THE RECEIVER

1. The receiver is designed to be mounted on top or inside the operator header, or in close proximity to the electrified door opening device. If mounted inside the header (or other metal enclosure), the antenna must be extended outside the header through a small hole. To mount the receiver, use double sided tape, or pop off the cover and drill mounting holes through the back of the plastic case. If the Receiver has the "-TD" option, set the timer adjustment *BEFORE* final mounting.
2. Wire the receiver to the operator or lock according to the diagram below. Connect the 24V power, and follow directions for programming the transmitters.

CM-RX-7 Receiver

Frequency	318MHz
Coding	Push & Learn
Power Required	24 Volts AC or DC
Max Current Draw.....	50Ma
Size	5" x 4" x 1 1/4"
Adjustable Time Delay	
(CM-RX-7TD only).....	3 - 30 seconds



PROGRAMMING THE TRANSMITTER AND RECEIVER

1. Press and release the programming button located on the side of the receiver. LED will light for approximately 5 seconds, if there's room in the receiver's memory to add another transmitter (maximum 10 per receiver). Press the transmitter that is to be activated, while the programming LED is on. LED will flicker, indicating receiver has learned the code.
2. Repeat steps one and two, if additional transmitters (with different codes) are to be activated. Each receiver can learn and store up to 10 unique codes. If the LED doesn't come on when the receiver's programming button is depressed, the memory is full. New transmitters may not be added to the system unless other transmitters are erased from memory (see note 4).
3. To review memory, hold down the programming button for 3 seconds, until the LED begins to flash, then release. Count the flashes. The number of flashes indicates the number of transmitters programmed into the receiver. Note, do not hold down the programming button for longer than 5 seconds, as this will erase the codes from memory (see following section).

...over

4. To erase memory (to void codes out of the system), hold down the programming button for more than 5 seconds. The LED will flash several times, followed by one flash, indicating the memory has been erased. Note, all codes are erased at the same time. Should you wish to void just one code, erase the codes in the system, then re-program the desired codes.

5. CM-RX-7TD incorporates a 3 – 30 second *delay-on-release* timer. This adjustable time delay is accessible through a hole in the bottom of the case (or in end of case in some models). Insert a small slot or Phillips screwdriver and turn clockwise to increase time or counter-clockwise to reduce time.

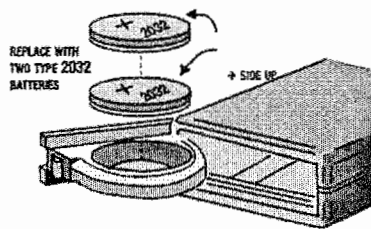
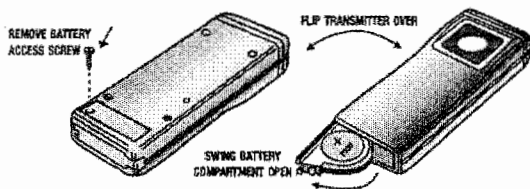
PROGRAMMING NOTES

- The door opening device will not operate while the transmitter & receiver are being programmed. Once programming is completed, the transmitter and receiver are operational.
- The programming LED monitors all radio signals entering the receiver, and will blink whenever a transmitter signal is received. However, only those transmitters which have been previously enrolled in the system will activate the receiver.
- If the programming 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 factory for assistance.

CHANGING BATTERIES

- Full size and Micro handheld transmitters are supplied with 2 lithium batteries installed. To replace, see diagrams below.
- TX-7 (iRM) Wall-switch style transmitter is supplied with an alkaline 9 volt battery.

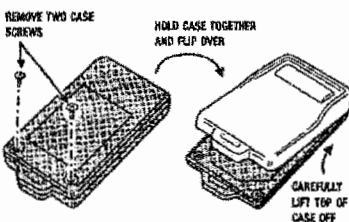
Remove the battery access screw on the back of the unit, flip the unit over so that the front is facing you. Use a small screwdriver to open compartment.



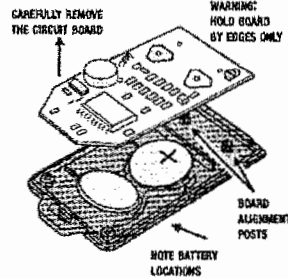
Replace the two batteries with two Type 2032 lithium batteries or equivalent. The batteries stack on top of each other with the (+) side facing the front of the transmitter.

TO REPLACE BATTERIES

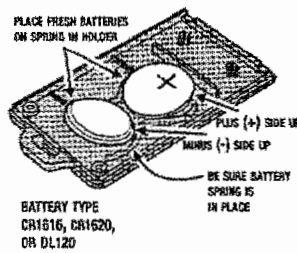
Open the case. Remove the two retaining screws from the rear of the case. Hold the case halves together and flip the transmitter over. Lay the unit on a table with the button (s) facing up. Carefully remove the case top.



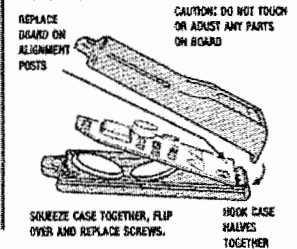
Remove the board. Very carefully remove the circuit board and set it aside. Notice how the batteries are placed in the bottom case of the transmitter.



Remove the batteries. Remove the old batteries, noting their location and placement. Replace the batteries with fresh type CR1616, CR1620, DL1620 batteries. Both batteries must be the same type.



Close the case. Carefully place the circuit board into the case over the batteries. Align the board on the two case alignment posts. Hook the top case onto the bottom case on the button end. Squeeze the case together, flip it over and replace the two case screws. Test the transmitter for proper operation.



SPECIFICATIONS

CM-TX-7 (iRM) Transmitter	<i>Wall Switch Ready</i>
Frequency	318MHz
Coding	"Push & Learn"
Power Required	9v Battery (included)
Max Current Draw	50 mA
Size	1 3/4" x 2" x 5/8"
CM-TX-8 (iRM) Transmitter (similar to TX-7, except...)	<i>Wall Switch Ready</i>
Power Required	2-2016 Lithium Batteries (included)
Size	1 1/4" x 2 1/4" x 1/2"

CM-TX-1/2/4 Transmitters	Hand Held
Power Required	2x 2032 Lithium Batteries (included)
Channels	1, 2, or 4
Size	1 1/2" x 4 1/8" x 7/8"
CM-TX-1M /2M Transmitters	Key Chain Style
Power Required	2x CR 1616 Lithium Batteries (incl.)
Channels	1, or 2
Size	1 1/4" x 2 1/4" x 1/2"

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