

Lift-Master™

The Professional Line

Universal Receiver Model 412HM

OWNERS MANUAL

SPECIFICATIONS

Output Rating.....5 Amps 28VAC or DC Max.
 Power12VDC or 18 to 35VAC/DC, @ 30ma
 RF Frequency.....390MHz
 If the power is other than shown in specifications,
 Accessory Transformer Model 85 is required. Model 86
 Coaxial Cable Kit is also available.
 Accessory Transmitters – Series 50, 60, 70, 80 and 90.



WARNING

Disconnect power to opener before installing receiver or removing/replacing receiver cover.

The 412HM universal Receiver can be used with up to 15 rolling code transmitters or passwords in *high* security mode. Alternately, it can be used with up to 31 of any type transmitter in *normal* security mode, including any combination of rolling code, billion code, or code switch remotes.

The receiver and antenna use TV **Type F** coaxial connectors. The antenna can be plugged directly onto the receiver or mounted to a bracket and connected to the receiver with Model 86 Coaxial Cable Kit, depending on your requirements.

Select a location for the receiver which allows access to the terminals and space for the antenna (as far from metal structures as possible and preferably with the antenna in an upright position). Fasten the receiver securely with screws through the two holes provided in the cover flanges.

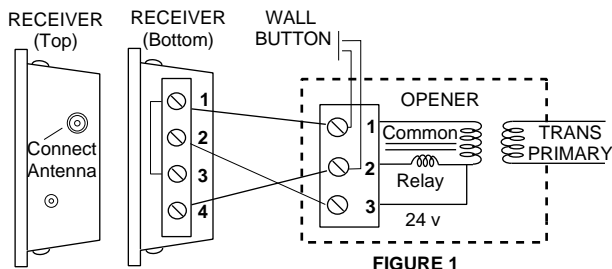


FIGURE 1

To comply with FCC/IC rules, adjustment or modification of receiver and/or transmitter is prohibited, except for changing the code setting and replacing the transmitter battery. THERE ARE NO USER SERVICEABLE PARTS.



WARNING

Children operating or playing with a garage door opener can injure themselves and others. *The garage door could close and cause serious injury or death.* Do not allow children to operate the door control push button or the remote control transmitters.

Install the receiver (and all door control push buttons) out of the reach of children and away from all moving parts of the door and door hardware, but *where the garage door is visible.*

FIGURE 1 – WITHOUT TRANSFORMER: Connect bell wire (not supplied) to receiver terminals 1 and 2, and to opener radio power terminals. All receiver terminals are unpolarized.

Also connect bell wire to receiver terminal 4 and opener terminal 2. Make a jumper wire connection to receiver terminals 1 and 3 as shown.

FIGURE 2 – WITH TRANSFORMER MODEL 85: Receiver terminals 1 and 2 are not used. Connect bell wire to receiver terminals 3 and 4 and to opener terminals used for push button controls. The transformer plugs into a 120V outlet.

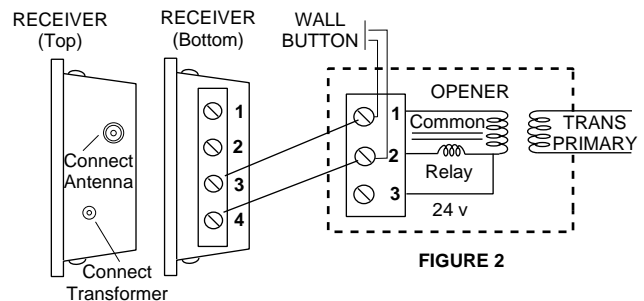


FIGURE 2

SET RECEIVER TO MATCH REMOTE CONTROL(S) CODE

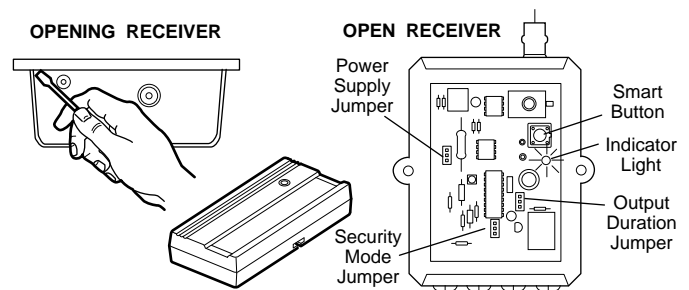
Use a screwdriver to pry open the receiver cover as shown.
Re-connect power to opener.

1. Press and HOLD the new remote control push button.
2. Then press the "Smart" button on the receiver. The adjacent indicator light will *flash*. Release the remote push button. The opener will now operate when the remote control push button is pressed. Return front panel to receiver.

NOTE: If the remote control push button is not held down until the receiver indicator light flashes, the receiver will not learn the code.

To Erase all Remote Control Codes:

- Press and hold the "Smart" button on the receiver panel until the indicator light turns off (about 6 seconds). **All the codes the receiver has learned will be erased.**



- Repeat Steps 1 and 2 to reprogram the receiver for each remote control transmitter in use.

Side 2 contains instructions for changing output duration, voltage settings, and security mode.

TO SET OUTPUT DURATION

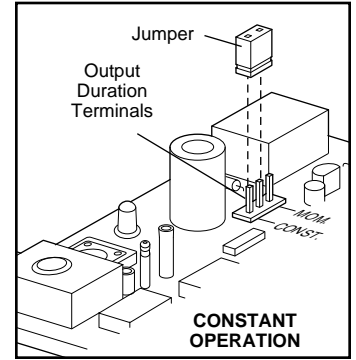
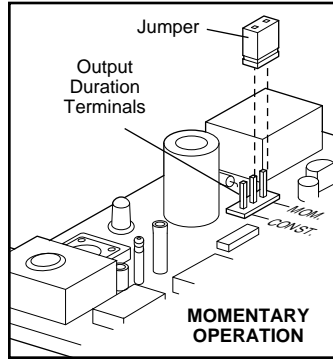


WARNING

The use of radios incorporating constant closure contacts on residential operators with fail-safe infra-red protectors is prohibited.

The receiver can be set for either constant or momentary closure on the output contacts. With the jumper in the "MOM" (Momentary) position, the contacts will close for 1/4 second regardless of the length of radio transmission. With the jumper in "CONST" (Constant) position, the contacts will stay closed as long as the radio continues transmitting.

The receiver is factory set at M.



TO SET POWER SUPPLY VOLTAGE

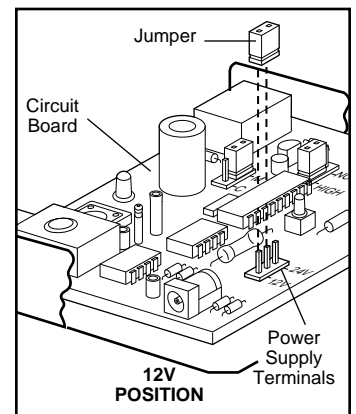
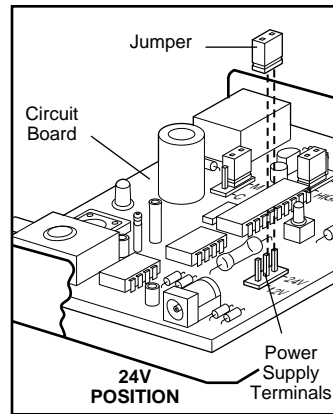


CAUTION

The use of 24V with the jumper in 12V position will cause permanent damage to the receiver.

The receiver can be powered with either 24V AC/DC or with 12V DC. The jumper must be in the 24V position for use with 24V, and in 12V position for use with 12V DC. **The jumper must be set to the proper voltage to avoid damage to the receiver.**

The receiver is factory set at 24V.



TO SET SECURITY MODE

The jumper must be set at the HIGH position for the receiver to operate in high security mode. It must be set at NORMAL position to operate at the normal mode.

When changing from normal to high security mode, any previous transmitter codes must be erased. Repeat Steps 1 and 2 on Side 1 to reprogram the receiver for each remote control transmitter in use.

The receiver is factory set at HIGH.

