RAYNOR GARAGE DOORS FLITESTAR

GARAGE DOOR OPENER

MODELS
FliteStar - 7
FliteStar - 8
FliteStar - 10

RESIDENTIAL OPENER INSTALLATION INSTRUCTIONS

for 7', 8' or 10' High Doors

WARNING

GARAGE DOOR SAFETY

Please read these instructions before starting installation. It is important that this opener be installed properly and in accordance with all safety precautions in order to provide years of dependable operation.

The garage door is the largest, heaviest piece of moving equipment in most homes. Improper operation can result in trapping persons or animals under the door, causing serious injury or death. Become familiar with these instructions and directions for periodic testing. If a problem is suspected, discontinue use and contact only a trained service technician for diagnosis and repairs.

INSTALLER NOTE: Attach instruction sheet to wall next to push button for future reference. Mount all warning tags and labels per instructions in this manual.

MANUFACTURED BY RAYNOR GARAGE DOORS DIXON, ILLINOIS 61021

12/97
5970661

INSTALLATION GUIDELINES

DOOR SIZE - Use seven foot model for doors up to and including 7' 0" (2.13 m) high. Use eight foot model for doors over 7' 0" (2.13m) high up to and including 8' 0" (2.44m) high. Use ten foot model for doors over 8' 0" (2.44m) up to and including 10' 0" (3.05m) high with a maximum door width of 18' (5.49m) and a maximum door weight of 400 lbs (181.82 kg). Door opener use should not exceed a maximum of 5 cycles per hour.

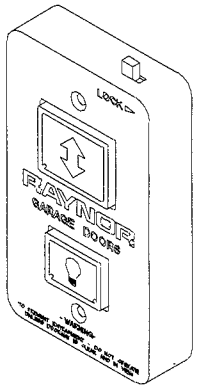
HEADROOM - (Typical installation) Minimum of 1-1/2" (3.81cm) over high point of door travel or spring hardware, whichever is greater.

BACKROOM - 10' 3" (3.15m) from front wall to back of opener powerhead on seven foot models, 11' 6" (3.54m) on eight foot models, and a minimum of 13' 6" (4.15m) required for ten foot models.

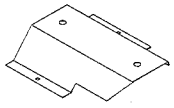
POWER - These units require a 115 volt AC, 60 Hertz, grounded power source, 1/2 horsepower openers are rated at 5.0 amps. THE USE OF GAS POWERED GENERATORS MAY DAMAGE SOLID STATE COMPONENTS.

OPEN CARTONS AND CHECK CONTENTS FOR ITEMS SHOWN BELOW BEFORE ATTEMPTING INSTALLATION

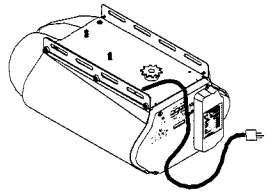
POWERHEAD CARTON



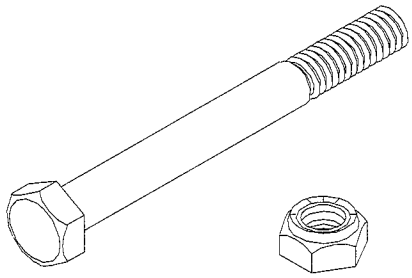
1-ILLUMINATED WALL-MOUNTED PUSH BUTTON



1-CHAIN GUARD



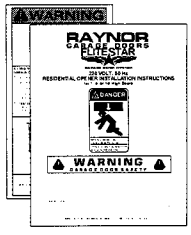
1-POWERHEAD ASSEMBLY



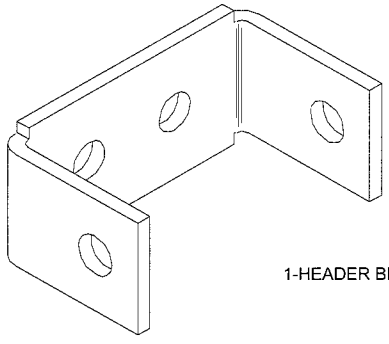
1- 5/16" X 3" CAP SCREW

2- 5/16" NYLON INSERT LOCK NUT

1- TROLLEY ARM ASSEMBLY

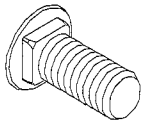


HOMEOWNER INFORMATION AND WARNING DECALS



1-HEADER BRACKET

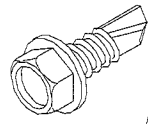
2- 5/16" WHIZ LOCK NUT



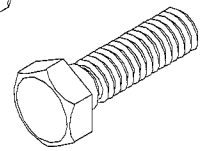
2- 5/16" X 3/4" CARRIAGE BOLT

1-CUP WASHER

1- #8 x 3/8" METAL SCREW



2- #14 x 3/4" SELF-DRILLING SCREW



1- 5/16" X 1" CAP SCREW

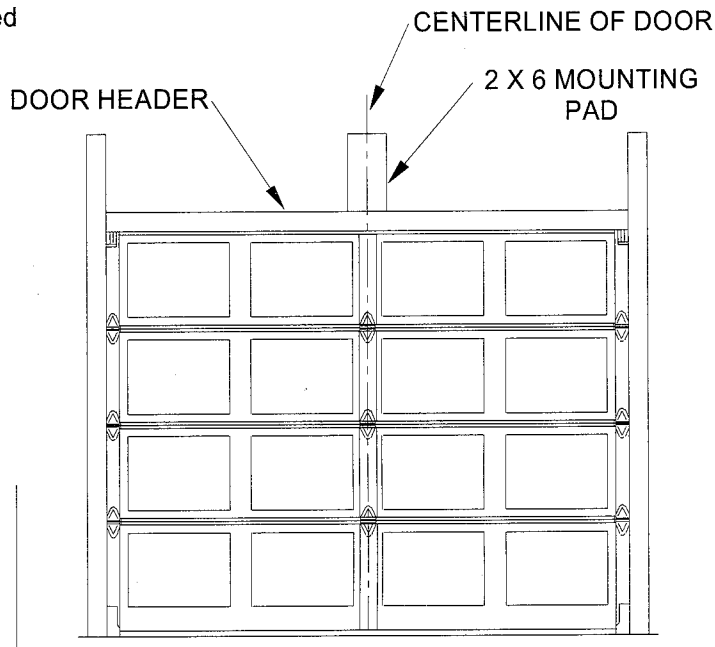
TROLLEY RAIL CARTON

1-TROLLEY ASSEMBLY

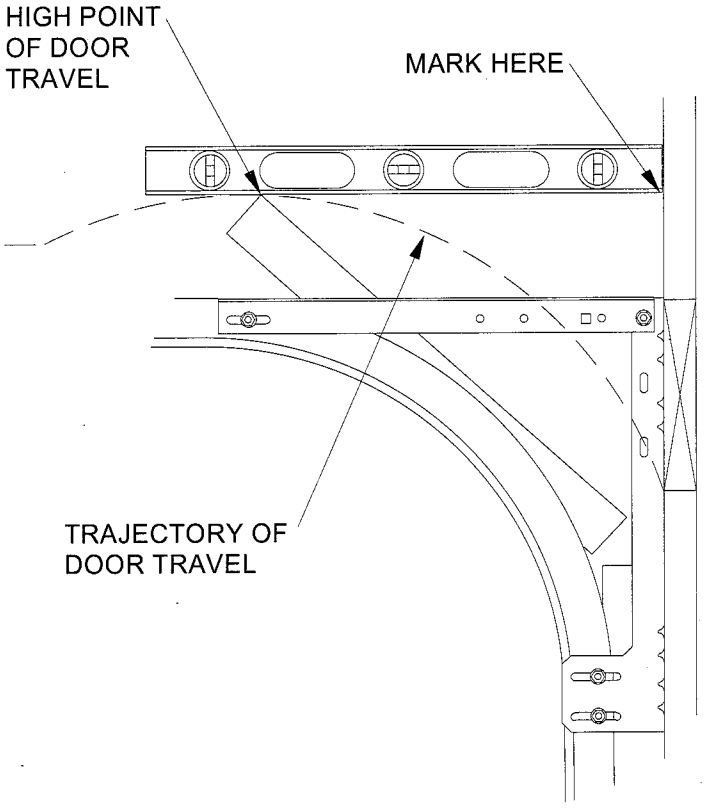
STEP 1 INSTALL HEADER BRACKET

The header bracket must be securely fastened to the wall framing. If necessary, reinforce the front wall with a 2" x 6" mounting pad.

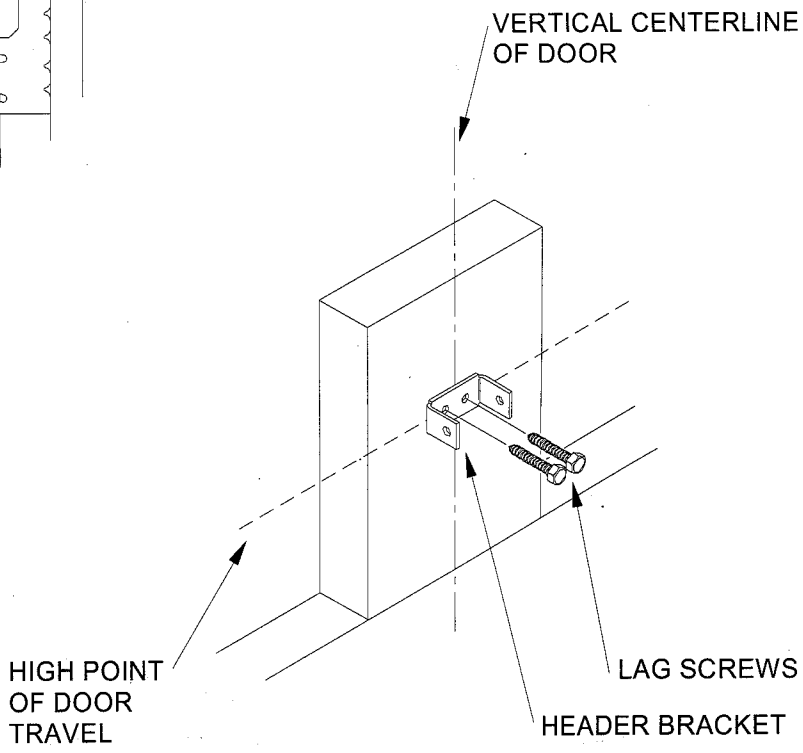
Measure the width of the door to determine the center. Using a pencil, mark the centerline on the door header above the door.



TYPICAL SECTIONAL DOOR
INSIDE LOOKING OUT



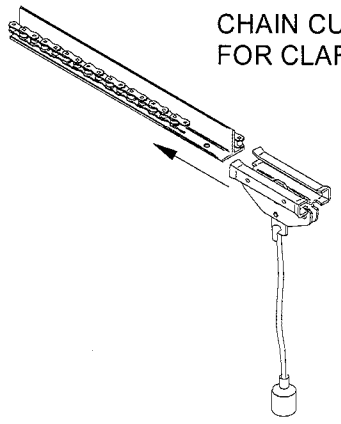
Raise door and locate the highest point of the door travel. Place level across the top of the door section and up against the door header. Using a pencil, mark the door header where the bottom of the level crosses the centerline of the door.



Locate the header bracket mounting holes directly centered over the horizontal mark for the high point of travel and the vertical centerline of the door. Attach the header bracket to the header using two (2) 3/16" x 1 3/4" lag screws. Pre-drill pilot holes for lag screws to prevent mounting pad from splitting. Be sure bracket is level.

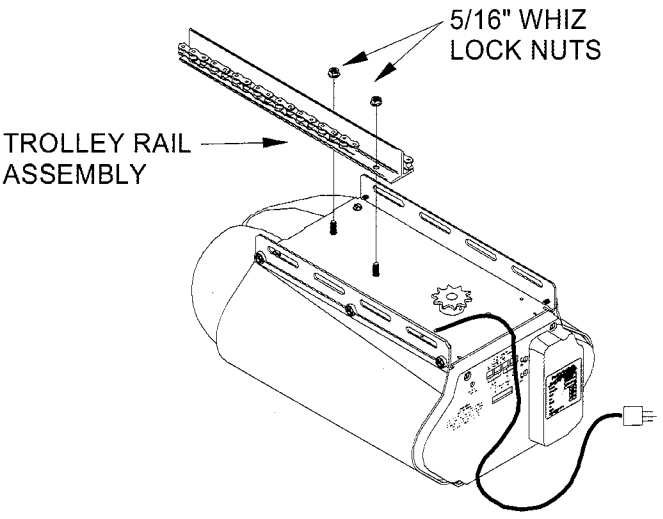
STEP 2 ATTACH POWERHEAD TO TROLLEY RAIL

FIGURE 1



Install outer carriage.

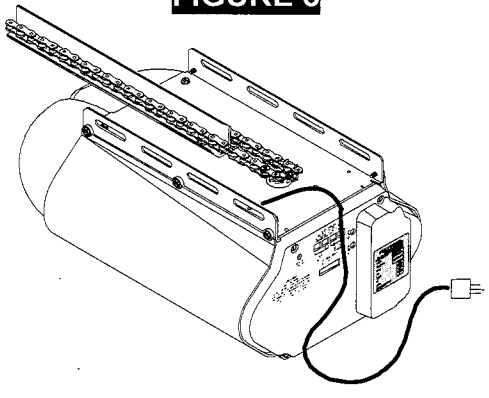
FIGURE 2



Attach powerhead to trolley rail with (2) 5/16" whiz lock nuts.

Remove tape from trolley rail (NOTE: keep inner carriage attached to t-rail until chain is tightened this will keep the down limit in the correct position.)

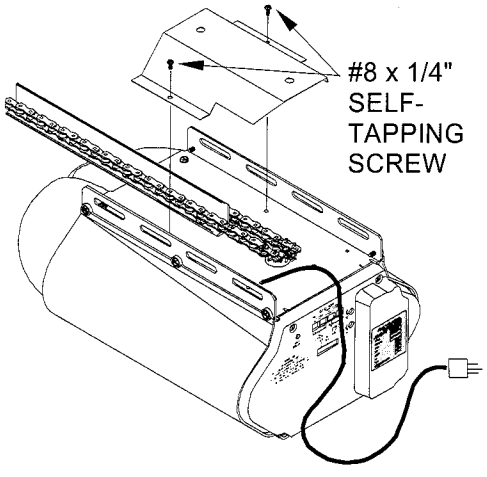
FIGURE 3



Attach roller chain to drive sprocket.

Tighten chain adjuster to achieve proper chain tension. (Chain should not drag on rail, or be excessively tight.)

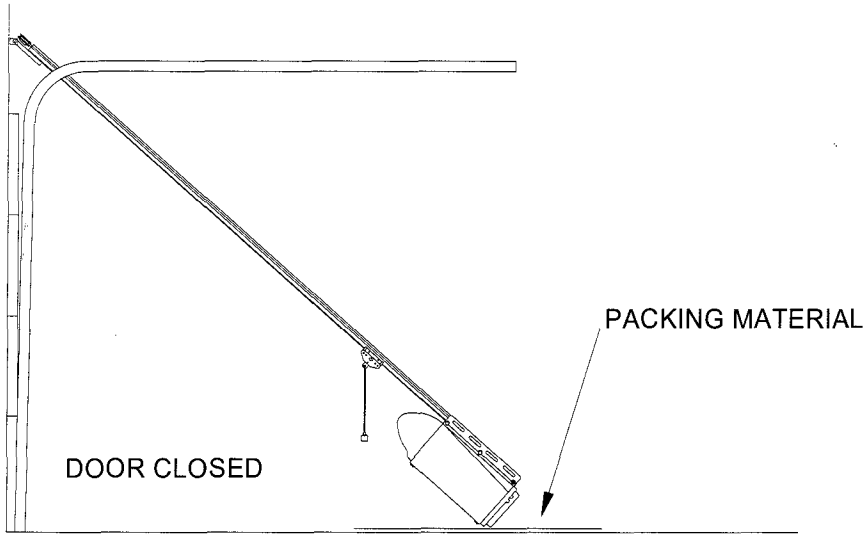
FIGURE 4

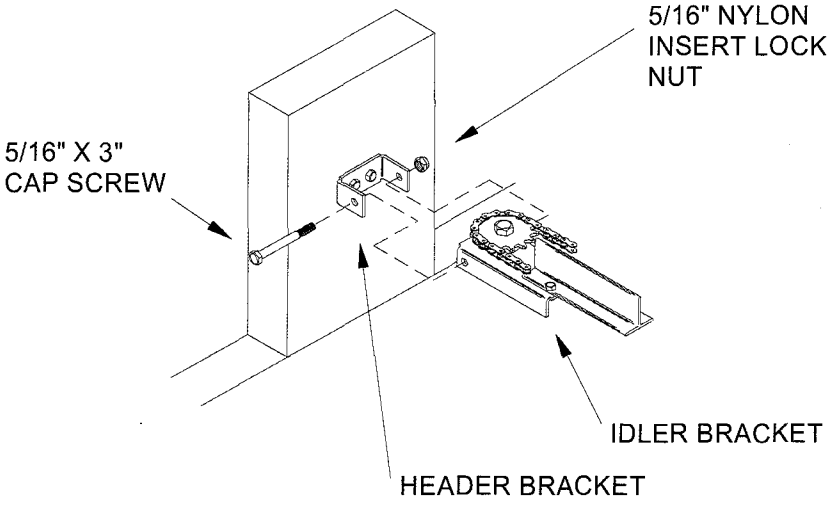


Attach chain guard using two #8 x 1/4" self-tapping screws.

STEP 3 ATTACH OPERATOR TO HEADER BRACKET

Place operator powerhead on packing material. With the door in the closed position, raise the front end of the operator up to the header bracket.

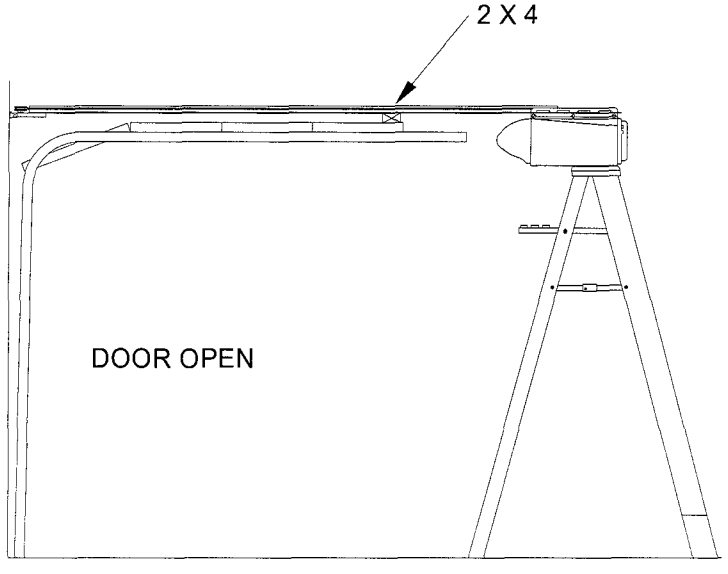




Insert the 5/16" x 3" hex head cap screw through the header bracket and front idler bracket. Screw one (1) 5/16" nylon insert locking nut to the screw.

Carefully place the powerhead of the garage door operator up onto a stepladder. Slowly open the door to avoid hitting the trolley rail with the top section of the door. Space the height of the powerhead such that a short 2 x 4 placed on the top section of the door will clear the trolley rail by 1/8".

Do not allow the weight of the opener to rest on the top section of the door or 2 x 4. Doing so may cause permanent damage to the door.

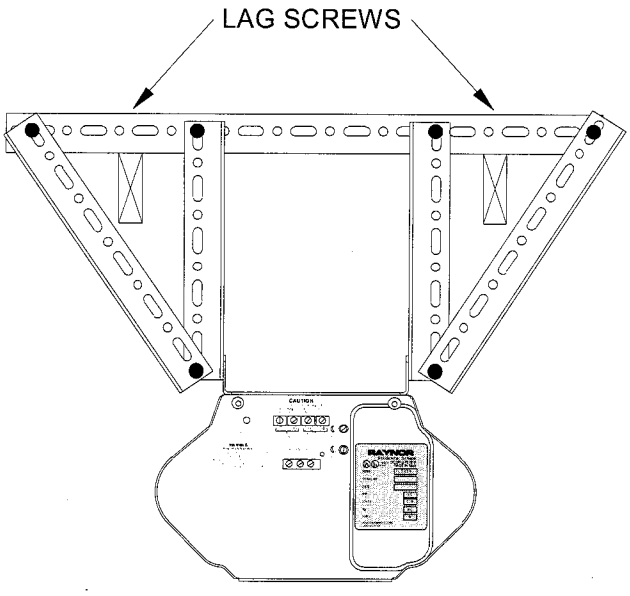


STEP 4 INSTALL POWERHEAD SUPPORTS

Do not allow entire weight of opener to rest on the top section of the door while securing the powerhead. The weight may cause the door to bend, causing damage to the door or improper operator clearance.

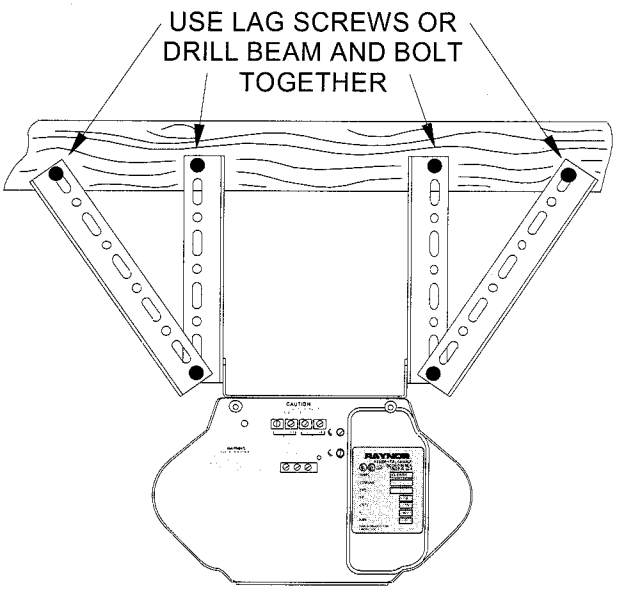
With trolley rail centered on the door, use pre-punched hanger angle or other suitable material (not supplied), to mount the operator to the ceiling or a beam as shown in the illustrations below. Using diagonal bracing will prevent side sway. Make sure the powerhead is level and tighten all fasteners used for supports. Make sure operator is mounted solid. Close the door and tighten header bracket bolt and nut. Be careful not to overtighten.

Do not mount directly to drywall or plaster ceiling. Mount only to structural framing.



CEILING MOUNT

Mounting options are not limited to only these shown here; other situations may exist.

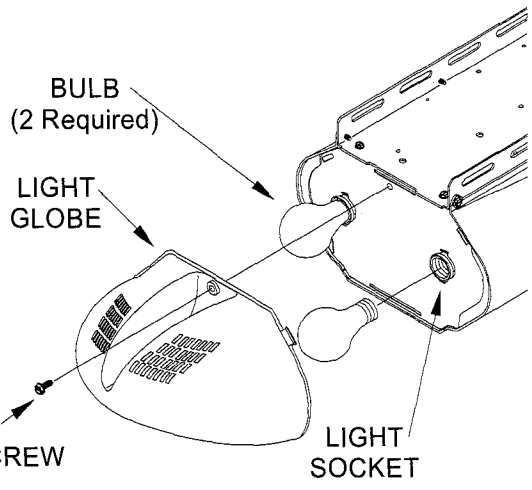


BEAM MOUNT

STEP 5 INSTALL LIGHT BULBS AND COVER

Light bulbs must not exceed 60 watts.
Excessive heat may cause damage.

Screw standard incandescent light bulbs rated 60 watts or less (NOT INCLUDED) into the light sockets. Install light globe by aligning the bottom slot and snapping the snap clips into the upper slots. Secure light globe with a #8-15 x 3/8" sheet metal screw from the hardware bag.



STEP 6 INSTALL PUSH BUTTON, RADIO CONTROL AND AUXILIARY ENTRAPMENT PROTECTION SYSTEM

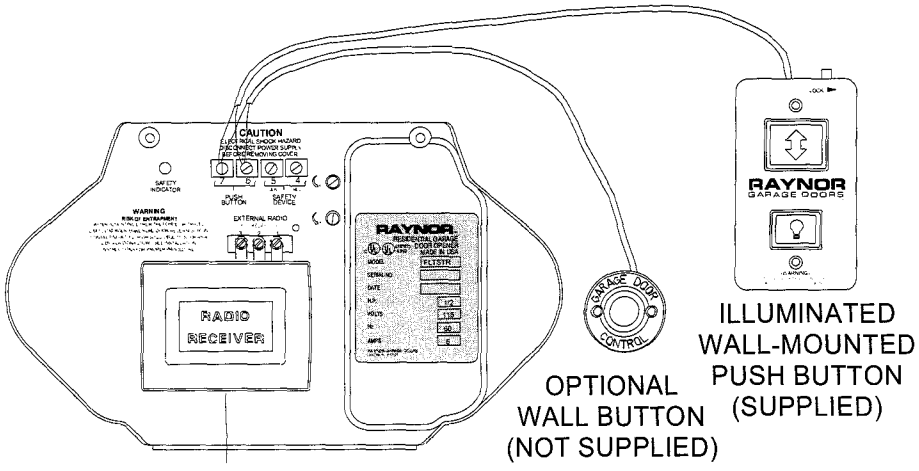
All connections to terminal strip MUST be performed prior to connecting the operator to power to prevent accidental operation and damage to the microprocessor control board.

Push button wiring is a 24 volt NEC class 2 circuit. Attach 2 conductor copper bell wire, 22AWG or larger, to terminals 6 and 7 on the back of the opener. Attach the other end of the bell wire to terminals 6 and 7 on the back of the wall button housing. **Terminals 6 and 7 must match or the wall button will not function.**

The wall button may be mounted directly to a wall stud or to a standard electrical box. The button must be at least 5 feet above the floor or nearby step and in clear view of the door. Avoid mounting directly to any electrically conductive wall covering such as foil faced building insulation.

Although this operator is equipped with a built-in safety reverse feature, an auxiliary entrapment protection device must be installed before the operator will function properly. If it is not connected, the operator will require constant pressure on the wall button in order to close the door. Release of the button before the door is closed will reverse the door to the open position. The radio transmitter will only function to open the door, it will not allow the door to close.

Use only Raynor "Safety Sentinel" photo electric sensor or Raynor "Safety Sure" electric bottom edge sensor systems labeled for use with this operator model. Install according to installation instructions packaged with entrapment protection system.



NOTE: *USE COPPER CONDUCTORS ONLY*

OPTIONAL
WALL BUTTON
(NOT SUPPLIED)

ILLUMINATED
WALL-MOUNTED
PUSH BUTTON
(SUPPLIED)

STEP 6 INSTALL PUSH BUTTON, RADIO CONTROL AND AUXILIARY ENTRAPMENT PROTECTION SYSTEM (CONTINUED)

MULTIPLE WALL BUTTONS - additional 2 wire NON-LIGHTED doorbell type push buttons may be wired to terminals 6 and 7 for controlling the opener from different locations. Only one illuminated wall-mounted push button can be used on each opener. All push buttons must be mounted a minimum of 5 feet from the floor and in clear view of the door.

RADIO CONTROL RECEIVER - is mounted to terminals 1, 2, and 3 on the rear of the operator either with clips provided with the radio control or by three conductor wire.

Mount Warning Label, found in homeowners package, to wall next to push button.

COURTESY LIGHT - First push of the courtesy light push button turns the light on. The second push of the button will turn the light off. If the light is on and in the timing mode, pushing the courtesy light button will turn the light off. If the light has been turned on by the courtesy light button and door button or radio control is activated, the light will then time out and turn off automatically.