



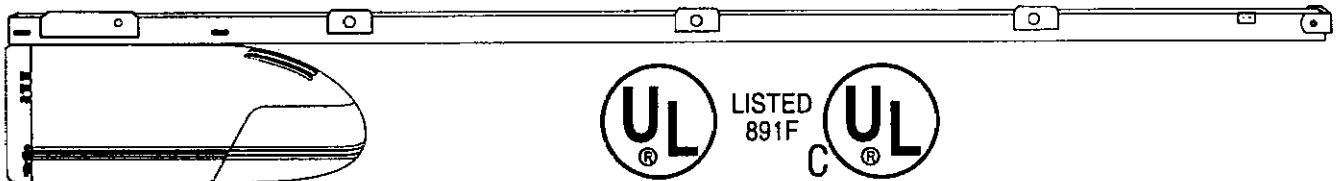
QUANTUM™

OWNER INSTALLATION AND USER MANUAL Model No. 3000

Series 3212 & 3213

**Automatic Garage Door Opener
For Sectional Overhead Residential Doors Only
DO NOT USE ON ONE PIECE DOORS**

Before Starting Installation Read All Instructions Thoroughly to Familiarize Yourself with All Aspects of Installation and Adjustment!



DOOR OPENER WILL NOT OPERATE PROPERLY UNTIL BEAM SENSOR IS INSTALLED AND PROPERLY ADJUSTED! DO NOT OPERATE DOOR OPENER UNTIL FULLY INSTALLED, ADJUSTED & INSTRUCTED TO DO SO!

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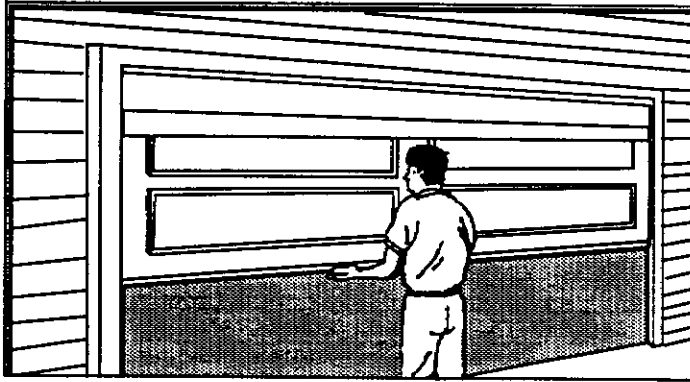
Door Tests Before Starting

Before you begin, complete the following two tests to insure that the door is balanced and working properly. A door that binds, sticks or is out of balance could cause severe injury. Do not attempt to compensate for an improperly adjusted door by the installation of an opener. This will interfere with the proper operation of the opener mechanism and/or may damage the door. Have a qualified service person make any needed adjustments or repairs to cables, spring assemblies and other hardware before proceeding with installation.

Door Test One

Raise and lower the door and check closely for any sticking or binding that occurs.

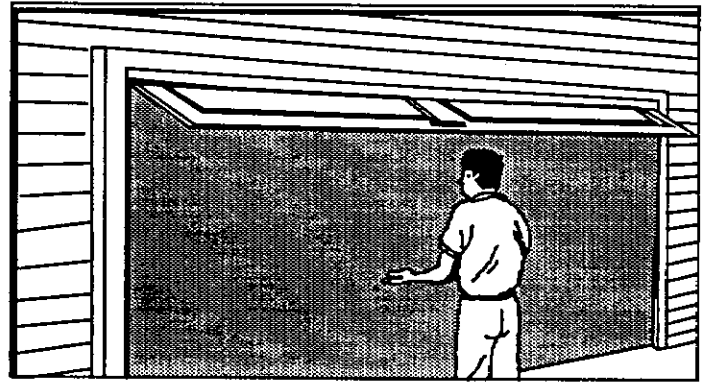
Lift the door approximately half way open, as illustrated. When releasing the door, it should stay in position. If spring pressure pulls the door further open or door weight pulls it further down, your door is not properly adjusted.



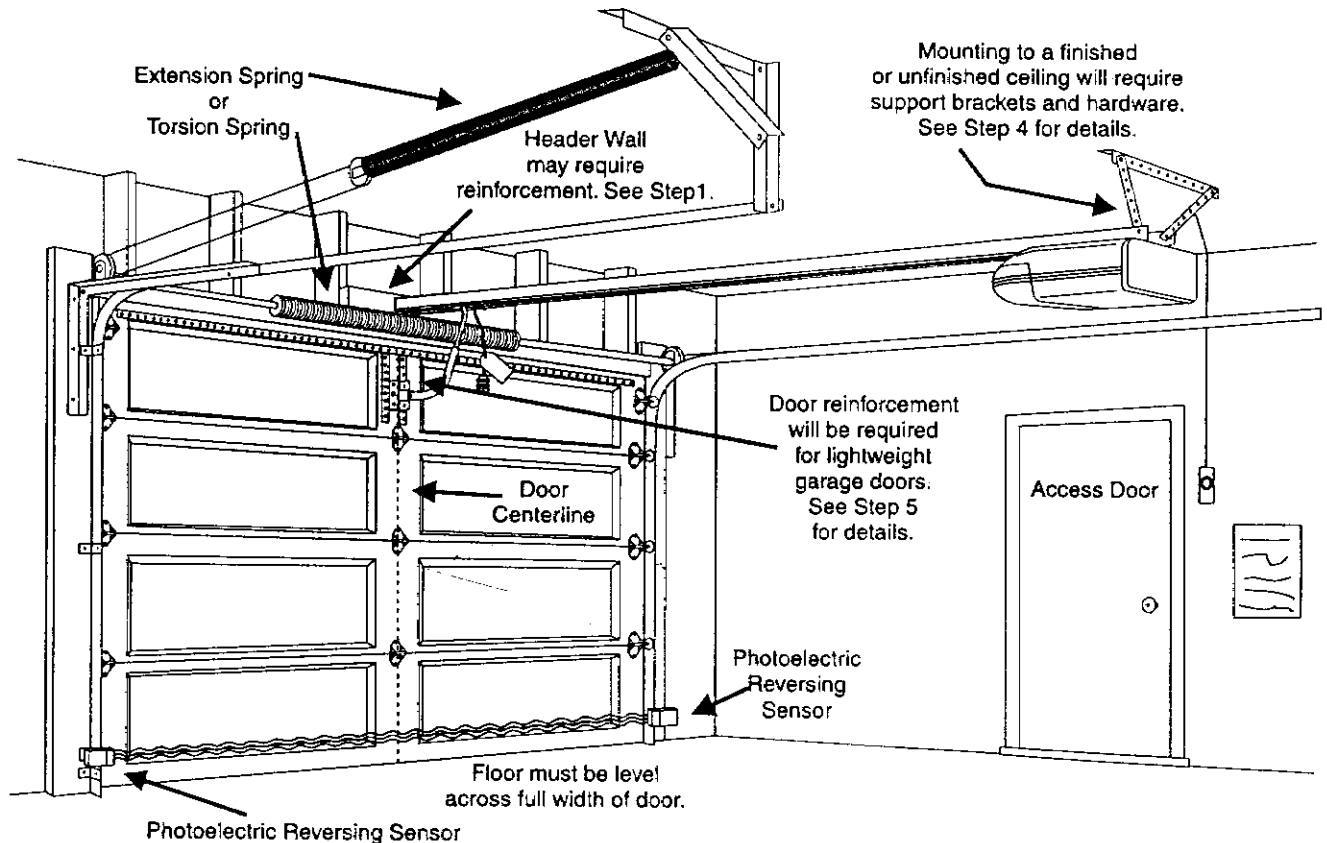
Door Test Two

When properly installed, a door should remain clear of the opening, when allowed to rest at its natural, full open position.

If "door drift" pulls door back into opening or spring tension is not sufficient to pull door totally clear of opening, the door is not properly adjusted.



Before beginning, check out the door and garage area to see if any of the illustrated conditions apply to the installation.



Read These Important Safety Rules Before Proceeding



This symbol indicates caution and appears throughout this instruction manual. This garage door opener is designed and tested to offer reasonably safe operation if installation is followed in strict accordance with these safety instructions. Failure to comply with these instructions may result in serious personal injury or property damage.

IMPORTANT INSTALLATION INSTRUCTIONS WARNING: To reduce the risk of severe injury or death:



READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS.



Install only on a properly balanced garage door. An improperly balanced door could cause severe injury. Have a qualified service person make repairs to cables, spring assemblies and other hardware before installing opener.



To reduce the risk of injury to persons, use this operator only with sectional overhead doors.



Fiberglass, aluminum and steel doors must be reinforced to prevent damage to the door. Check with your garage door manufacturer for their recommendations.



Remove all ropes and remove or make inoperative all locks connected to the garage door before installing opener.



Do not use sensitivity adjustments to compensate for a poorly operating door. This will interfere with the proper operation of the safety reverse mechanism and may damage the door.



Locate control button: within sight of door, at a minimum height of 5 feet, so small children cannot reach it, and away from all moving parts of the door.



If possible, install door opener 7 feet or more above floor. Mount the emergency release knob 6 feet above the floor.



Do not connect opener to source of power until instructed to do so.



Installation and wiring must comply with local building and electrical codes. Connect the power cord to a properly grounded outlet. Do not remove round ground pin from power cord.



Install Entrapment Warning Label next to control button in a prominent location, such as the inside of the garage door, or as instructed in the installation instructions. If label adhesive will not adhere to the surface, secure the label by additional mechanical means such as staples, nails or screws. If necessary, use an intermediate mounting surface, such as plywood, cut to the appropriate size. Install Emergency Release tag to the emergency red cord.



After installing opener, the door must reverse when it contacts a 1 inch high solid test object on the floor.



Open door must not close and closing door must open if Photoelectric system is obstructed by 6" x 12" object, using test procedure described in Step 22.



Do not wear rings, watches or loose clothing when installing or servicing a garage door system. Use a sturdy, non-metallic step ladder.

AFTER INSTALLATION IS COMPLETE, FASTEN THIS MANUAL NEAR GARAGE DOOR.
PERFORM PERIODIC SAFETY CHECKS, MAINTENANCE AND ADJUSTMENTS, AS RECOMMENDED.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help. Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Veillez lire ces règles de sécurité importantes avant de commencer les travaux



Ce symbole vous demande de prendre les précautions voulues. Vous le trouverez d'un bout à l'autre du présent guide d'installation. Cet ouvre-porte de garage a été conçu et essayé pour vous offrir un fonctionnement sécuritaire dans la mesure où les directives d'installation sont respectées conformément à ces mesures de sécurité. Le non respect de ces mesures de sécurité risque d'entraîner des blessures corporelles graves et des dommages matériels.

IMPORTANT—NOTICE D'INSTALLATION — AVERTISSEMENT—POUR RÉDUIRE LES RISQUES DE BLESSURES MORTELLES



LISEZ CETTE NOTICE ET CONFORMEZ-VOUS AUX INSTRUCTIONS.



NE POSEZ CET OUVERE-PORTE QUE SUR UNE PORTE DE GARAGE CORRECTEMENT EQUILIBREE. UNE PORTE MAL EQUILIBREE PEUT CAUSER DES BLESSURES GRAVES. CONFIEZ LA REPARATION DES CABLES, DES RESORTS ET DE TOUT AUTRE ELEMENT A UN TECHNICIEN QUALIFIE AVANT D'ENTREPRENDRE L'INSTALLATION.



POUR REDUIRE LE RISQUE DE BLESSURES CORPORELLES, UTILISER CET OUVERE-PORTE POUR DES PORTES BASCULANTES SECTIONNELLES UNIQUEMENT.



LES PORTES EN FIBRE DE VERRE, EN ALUMINIUM ET EN ACIER DOIVENT ETRE RENFORCEES POUR EVITER D'ENDOMMAGER LA PORTE. CONSULTEZ LE FABRICANT DE VOTRE PORTE DE GARAGE POUR OBTENIR SES RECOMMANDATIONS.



ENLEVEZ LES CORDES ET ENLEVEZ OU NEUTRALISEZ TOUT DISPOSITIF DE VERROUILLAGE SOLIDAIRE DE LA PORTE DE GARAGE AVANT L'INSTALLATION.



NE VOUS SERVEZ PAS DES REGLAGES DE LA SENSIBILITE POUR COMPENSER LE MAUVAIS FONCTIONNEMENT D'UNE PORTE. CECI POURRAIT FAIRE OBSTACLE AU BON FONCTIONNEMENT DU MECANISME DE L'INVERSEUR DE SECURITE ET POURRAIT ENDOMMAGER LA PORTE.



DANS LA MESURE DU POSSIBLE, INSTALLEZ L'OUVERE-PORTE A AU MOINS 2.14 M (7 PI) DU SOL. POSEZ LE DISPOSITIF DE DESACCOUPLLEMENT D'URGENCE A 1.83 M (6 PI) DU SOL.



INSTALLEZ LE BOUTON DE COMMANDE A UN ENDROIT QUE L'ON PEUT VOIR DE L'EMBRASURE DE LA PORTE, A UNE HAUTEUR MINIMALE DE 1.53 M (5 PI) DU SOL—AFIN QUE LES JEUNES ENFANTS NE PUISSENT PAS L'ATTEINDRE—ET A L'ECART DES PIECES MOBILES DE LA PORTE.



APPOSEZ L'ETIQUETTE DE MISE EN GARDE RELATIVE AU DANGER DE HAPPEMENT A PROXIMITE DU BOUTON DE COMMANDE ET L'ETIQUETTE RELATIVE AU REGLAGE DE LA COMMANDE A UN EMPLACEMENT EN EVIDENCE—PAR EXEMPLE SUR LA PARI INTERIEURE DE LA PORTE DE GARAGE OU SELON LES INSTRUCTIONS DE LA NOTICE D'INSTALLATION. APPOSEZ L'ETIQUETTE RELATIVE AU DESACCOUPLLEMENT D'URGENCE SUR LE DISPOSITIF OU A PROXIMITE DE CE DERNIER.



NE BRANCHEZ PAS L'OUVERE- PORTE AVANT D'Y ETRE AUTORISE PAR LA NOTICE.



UNE FOIS L'OUVERE-PORTE INSTALLE, LE SENS DE LA COURSE DOIT S'INVERSER LORSQUE LA PORTE ENTRE EN CONTACT AVEC UN OBJET D'UNE HAUTEUR DE 25.4 MM (1 PO) POSE SUR LE SOL.



L'INSTALLATION ET LE BRANCHEMENT ELECTRIQUE DOIVENT ETRE CONFORMES AUX CODES LOCAUX DU BATIMENT ET DE L'ELECTRICITE. RACCORDER LE CORDON D'ALIMENTATION A UNE PRISE ADEQUATEMENT MISE A LA TERRE. NE PAS ENLEVER LA BRANCHE RONDE DE MISE A LA TERRE DU CORDON D'ALIMENTATION.



SI LE SYSTEME PHOTO-ELECTRIQUE EST BLOQUE PAR UN OBJET DE PLUS DE 6 PO X 12 PO, LA PORTE OUVERTE NE DOIT PAS SE FERMER ET LA PORTE SE FERMANT DOIT S'OUVRIRE. VERIFIER CELA EN UTILISANT LA VERIFICATION DECRIE A L'ETAPE 22.



NE PAS PORTER DES BAGUES, DES MONTRES OU DES VETEMENTS LACHES PENDANT L'INSTALLATION OU LA VERIFICATION TECHNIQUE DU SYSTEME DE PORTE DE GARAGE. UTILISER UNE ECHELLE NON METALLIQUE STABLE.



CONSERVEZ CES INSTRUCTIONS.

APRES L'INSTALLATION, PLACER CE MANUEL A PROXIMITE DE LA PORTE DE GARAGE FAIRE REGULIEREMENT LES VERIFICATIONS RECOMMANDEES CONCERNANT LA SECURITE, L'ENTRETIEN ET LES REGLAGES.

"Cet appareil est conforme à la norme RSS-210 de Industrie Canada. Le fonctionnement est assujéti à deux conditions: (1) cet appareil ne doit pas causer de parasites et, (2) cet appareil doit accepter tous parasites, y compris ceux qui pourraient avoir des effets indésirables sur le fonctionnement de ce dispositif."

Automatic Garage Door Opener - For Residential Doors Only

FEATURES

- 1. Open and Close Cycle Control:** Allows garage door to be started and stopped by push button, transmitter or wall station. The next impulse sends garage door in opposite direction.
- 2. Emergency Disconnect:** Manual disconnect permitting operation of door during power failure with automatic reconnect when opener is reactivated. See pg. 19.
- 3. Opener Light:** Automatically turns on when opener is activated and remains on for 4 minutes for convenience and safety.
- 4. Mechanical Door Lock:** When properly adjusted, opener locks door in closed position preventing unwanted entry. See Adj.#3.
- 5. Obstruction Warning Light:** The convenience light will flash after sensing an obstruction in the down direction and/or if the safety system malfunctions while in the open position.
- 6. Motor:** Permanently lubricated, thermally protected, heavy duty motor with automatic reset.
- 7. Safety System:** Independent up and down force adjustments. When properly adjusted, the safety system will automatically reverse when obstructed in down direction and return to fully open position. The door will stop when obstructed in the up direction. See Adj.#2.
- 8. Photoelectric Sensors:** Wireless Photoelectric reversing sensors detect an obstruction in door path and react by reversing door.
- 9. Optional Multi-Function Wall Station:** The up/down button allows the activation of opener in up or down direction. The Multi-Function Wall Station offers an electronic security lock system that disables the opener, making the push button, transmitter and wall station inoperative. The added light button offers the convenience of a light remaining on until turned off. The Program Switch allows convenient programming from the Wall Station.

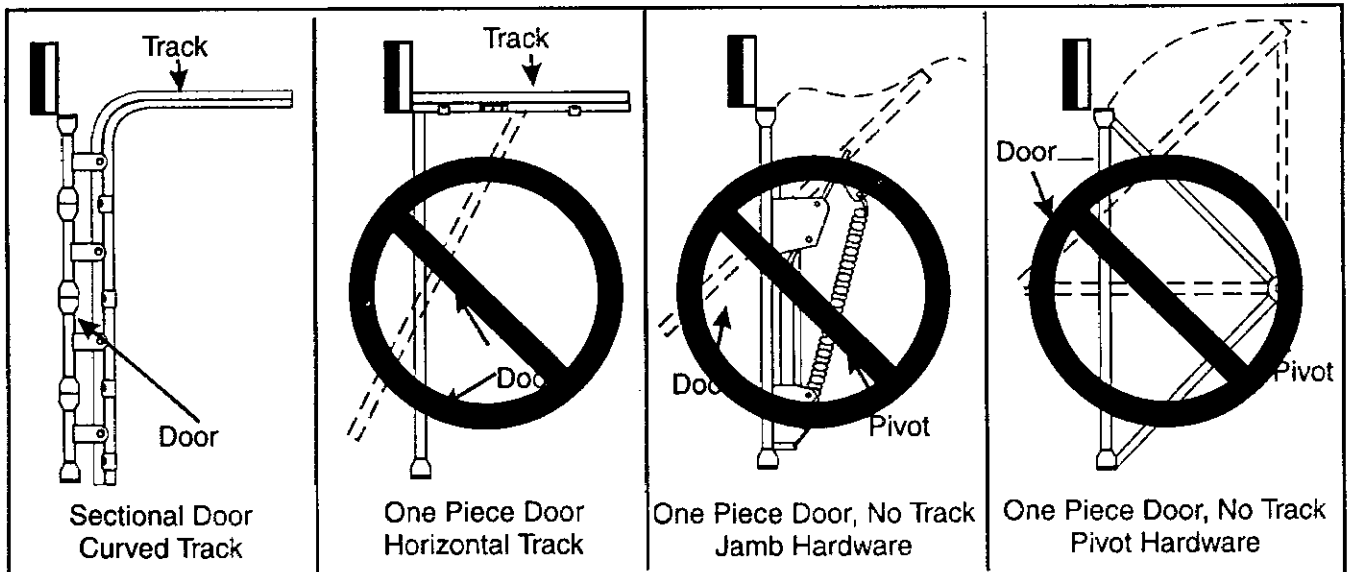
Before Starting Installation Read These Instructions Thoroughly to Familiarize Yourself with All Aspects of Installation and Adjustment!

Caution: If your garage has no service entrance door, install optional outside quick release lock. This accessory allows manual operation of garage door from outside in case of power failure.

Before Starting

Identify the door referring to illustrations below and verify that the door type is a sectional door with curved track. Do not install if the door is any type of one piece door.

NOTE: The opener has been designed for sectional doors. Do not attempt to install this opener on any style one piece door. Use of the enclosed opener on a one-piece door may result in serious personal injury or property damage.



IMPORTANT PRE-ASSEMBLY CHECK

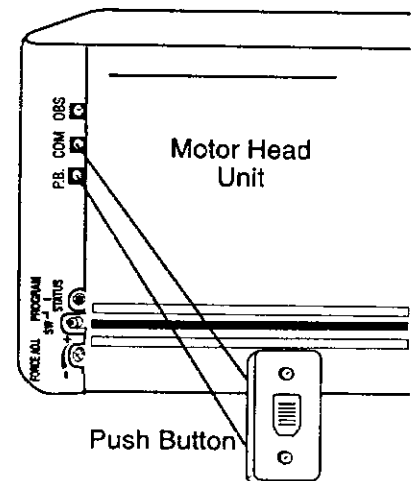
If assembling a Motor Head Unit from a factory sealed box, skip this check.

Every Motor Head Unit is factory tested and shipped with the limit switch adjustment in the door CLOSED position.

If the Motor Head Unit has been powered up before assembly, perform the following steps to insure that the limit switch adjustment is in the door CLOSED position.

Connect push button control with temporary connections to PB and COM terminals, as illustrated. Connect Motor Head Unit to power source and activate push button.

Motor should start; run through a full OPEN cycle, and stop. This will leave Motor Head Unit in OPEN position. To get Motor Head Unit back to full CLOSE position, apply constant pressure to the push button until Motor Head Unit stops. Disconnect from power source and remove temporary push button connections and proceed to assembly.

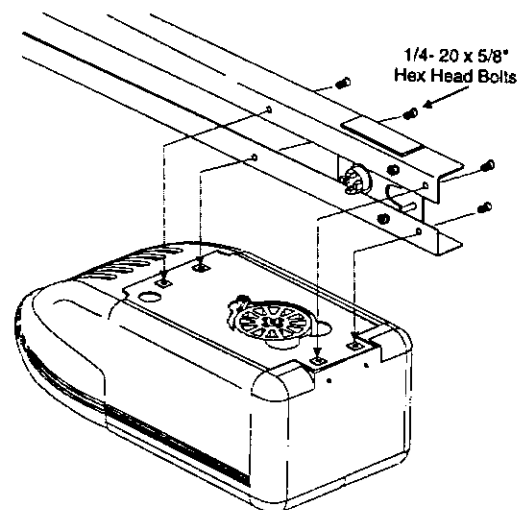
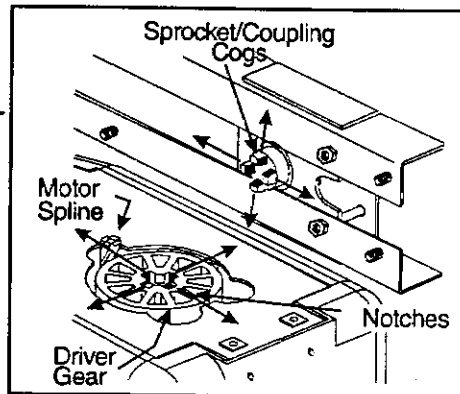


Assembly: Attaching Motor Head Unit to Rails

Before assembly, align sprocket/coupling cogs to match notches of driver gear. Rotate the Motor Spline to position Driver Gear so that the nearest notch in driver gear is directly behind motor spline, as illustrated. **NOTE: Do not rotate more than 1/2 turn.**

Place opposite end of rail on temporary support approximately 6" in height.

Proceed to attach rail to Motor Head Unit making sure that pre-alignment allows proper engagement between sprocket/coupling cog and driver gear notches. Realign as necessary, making sure to keep any rotation only to the nearest notch. Using four (4) supplied 1/4-20 x 5/8" hex head bolts, assemble Motor Head Unit to rails with a 3/8" socket. Tighten securely.



Do not plug the opener power cord into electrical outlet until fully installed and instructed to do so in this manual. Door springs, pulleys and cables are under extreme tension and can cause severe injury. Do not attempt to adjust or repair. Call a professional door service company.



Do not wear rings, watches or loose clothing when installing or servicing a garage door system. Use a sturdy, non-metallic step ladder. Remove all ropes or cords attached to the garage door. Failure to do so may result in personal injury due to entanglement. Disable all existing locking devices on the garage door, by securing lock/latch to inside face of door with suitable screw.



Install only on a properly balanced garage door. An improperly balanced door could cause severe injury. Have a qualified service person make repairs to cables, spring assemblies and other hardware before installing opener.



READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS.

INSTALLATION INSTRUCTIONS

Step 1: Positioning and Installing Front Wall Bracket



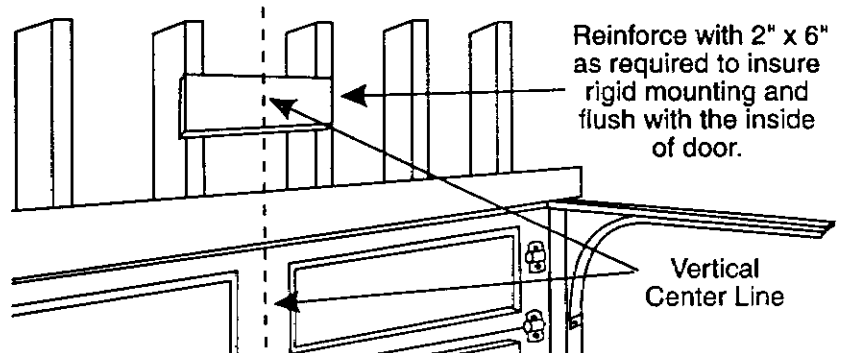
CAUTION: Do not attempt to loosen or remove any portion of door spring system in order to reinforce header wall or to mount wall bracket. If these are necessary, call a professional garage door service person.

Note: It is recommended that the door opener be installed 7 feet or more above the floor.

REINFORCE THE HEADER WALL

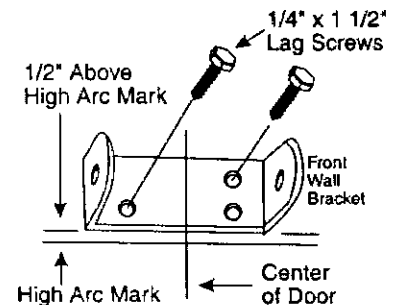
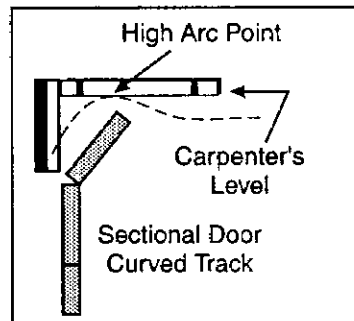
Reinforce the header wall (wall above door opening) as required, to ensure rigid mounting of the front wall bracket.

Locate the vertical center line of the garage door and mark it on the header above the door and on the top rail of the door.



Raise the door slightly until the top rail reaches the highest point of travel (see illustration); using carpenter's level, transfer and mark the highest point of travel on the header wall.

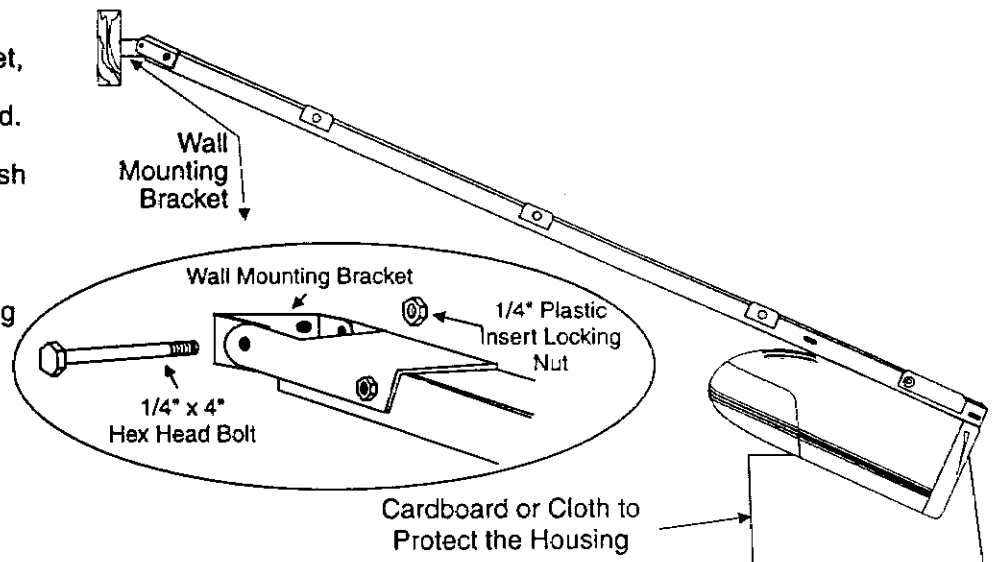
Mount the front wall bracket with its lower edge approximately 1/2" (room permitting) above the mark showing the highest point of travel centered on the vertical center line. Mark the two mounting holes and predrill with a 3/16" drill. Mount wall bracket using the lag screws supplied (1/4" x 1 1/2") to ensure a rigid mounting.



Step 2: Attach Unit to Front Wall Bracket

Raise the front end of the opener and attach to the front wall bracket, using the 1/4" x 4" hex head bolt and 1/4" plastic insert nut supplied. Take care not to over tighten nut; tighten only until end of bolt is flush with outside of nut.

NOTE: If you have a torsion spring counter-balance system, it will be necessary to raise the motor end of the opener and support it on a step-ladder to attach unit to Wall Bracket.



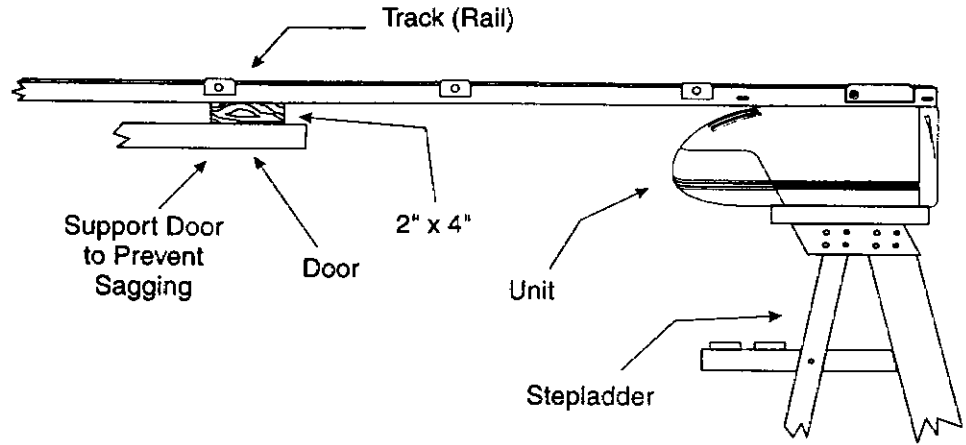
Step 3: Positioning the Motor End of Operator



To prevent damage to steel, aluminum, fiberglass or glass panel doors, do not rest the opener on the door without using a 2"x4" at least 12" long.

Raise the motor end of the opener and support it so you can open the door to its fully open position. You may need help raising motor end if ladder is not high enough.

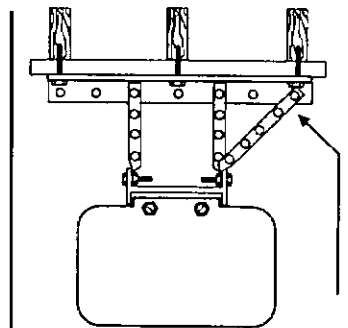
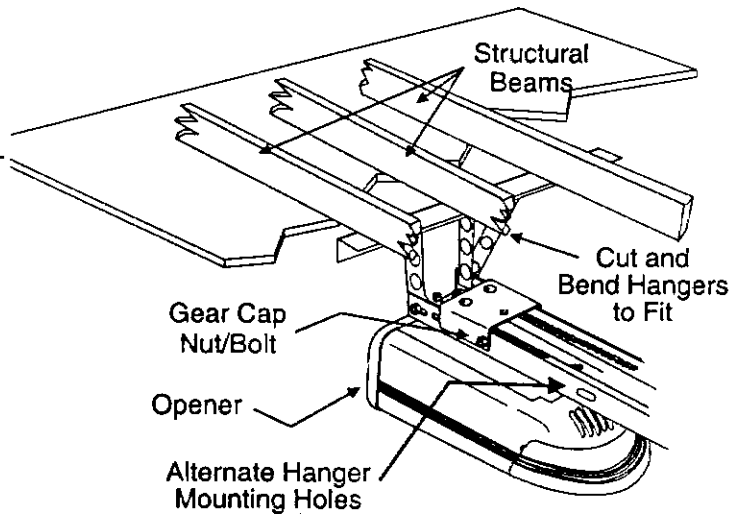
Open the door and place a 2" x 4" piece of wood along the top section of the garage door. Rest the double rails on the 2" x 4", as illustrated. Support the top section of the door to prevent sagging.



Step 4: Mounting Motor End of Opener

Align the center of opener tracks with the center line previously marked on the top section of the garage door to ensure rail will be parallel with the direction of door travel.

Use perforated hangers (*cut as needed to adjust length*) from ceiling or beams to hang opener at motor end (be sure to locate and mount to solid structural beams, as illustrated). Pre-drill with 3/16" drill bit and use 1/4" x 1 1/2" lag screws to ensure a rigid mount.



For finished ceilings, or if structural beams are out of position for mounting, use a third mounting angle making sure it is securely mounted to beams.



Do not use gear cap bolt or nut for hanger attachment!

Attach opener to hangers.

NOTE: Hanging brackets should be at an angle to provide rigid support. If hangers have no angle or if you use long hangers, cross brace the hangers to eliminate the possibility of sway during operation of the opener.

Step 5: Mounting Door Bracket

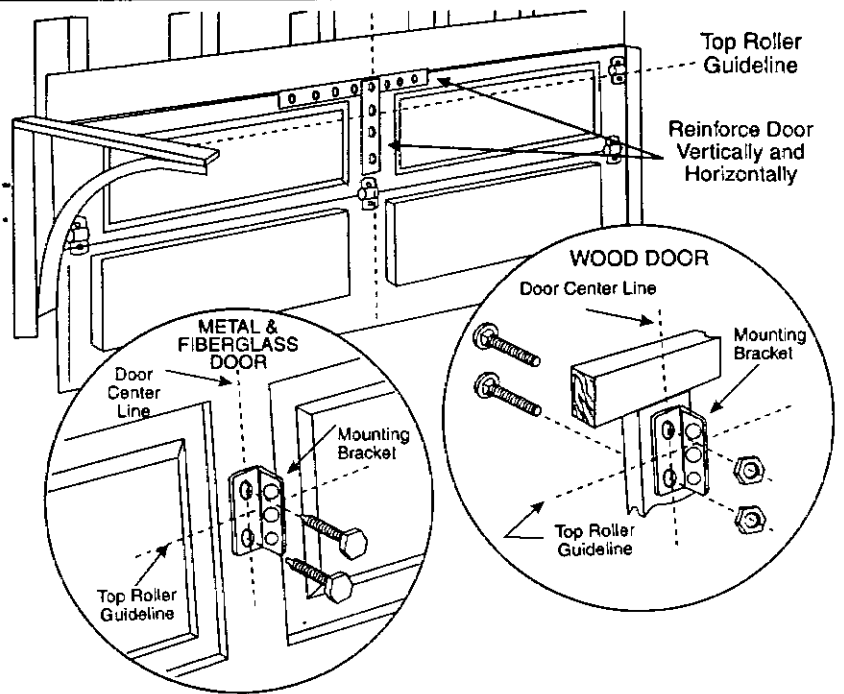


Fiberglass, aluminum and steel doors must be reinforced to prevent damage to the door. Check with your garage door manufacturer for their recommendations.

Reinforce light weight doors, as illustrated.

For wood doors, mount door bracket, using two 1/4" - 20 x 2" carriage bolts and 1/4" nuts supplied, on center line of door with middle hole in line with top rollers.

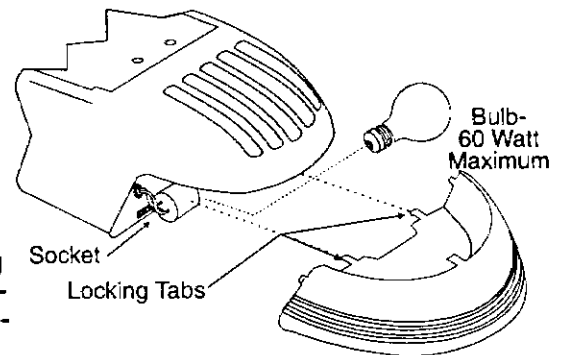
For metal doors, mount door bracket, using two 1/4" - 20 x 1/2" self drilling screws supplied, on center line of door with middle hole in line with top rollers.



Step 6: Installing Light

Remove diffused lighting cover by pressing on both sides of the bottom of the lighting cover at the junction of the housing, releasing the locking type tabs, and pulling forward. Screw a 60 Watt bulb (60 Watt is maximum) into socket. *For maximum bulb life, "rough service" bulbs are recommended.* Align top and bottom tabs on cover to Motor Head Unit and push straight on until cover locks into place.

Note: Light turns on automatically when door is activated and a 4 minute time delay circuit automatically turns light off, allowing ample time to enter the house. A fully open door with light blinking indicates an obstruction or problems with external safety devices during close travel. See trouble shooting section for further details.



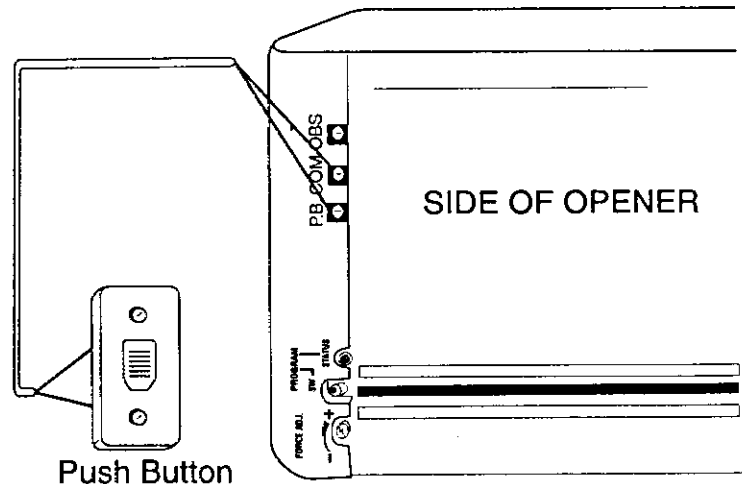
Step 7: Installing Push Button



Install all push button controls out of the reach of children and in a location where the door can be seen before activating. Do not mount push buttons near or next to garage door.

Push Button: Wire the garage door opener push button using bell wire (low voltage electrical wire) connected to COM and P.B. on vertical screw terminal strips, as illustrated.

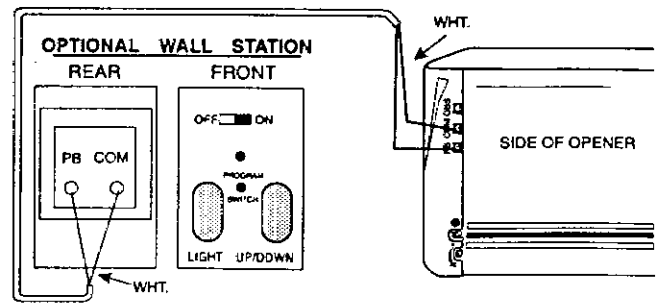
Locate push button adjacent to service entrance door at minimum height of 5 ft., and at least 5 ft. away from garage door; (see illustration in Step 8); additional push buttons may also be installed in accordance with these instructions.



Step 7A: Installing Optional Multi-Function Wall Station

Optional Multi-Function Wall Station can be wired using two conductor low voltage wires and must be connected as indicated in the illustration, or in accordance with supplied instructions.

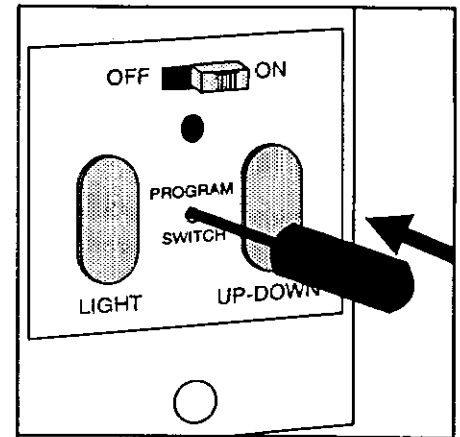
Locate Optional Multi-Function Wall Station adjacent to service entrance door at minimum height of 5 ft., at least 5 ft. away from garage door; (see illustration in Step 8) and out of the reach of children. Mounting holes are spaced to fit a standard electrical switch box.



Programming Motor Head Unit from Multi-Function Wall Station

During different steps of the installation procedure it will be necessary to "program" the motor head to complete the process. The optional Multi-Function Wall Station has been designed to initiate the programming functions directly from the Wall Station.

Using the tool supplied with the Multi-Function Wall Station, guide the tool down the hole between the LIGHT and UP-DOWN buttons, as illustrated. When you reach the switch, press lightly to activate the programming mode. Proceed and follow all instructions that pertain to that particular programming step.

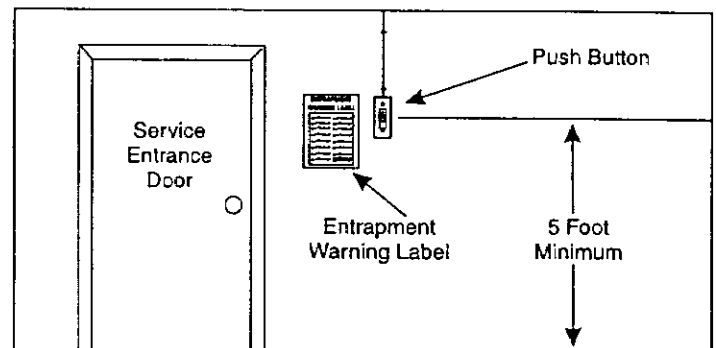


Step 8: Install Entrapment Warning Label



Install Entrapment Warning Label next to control button in a prominent location.

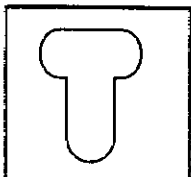
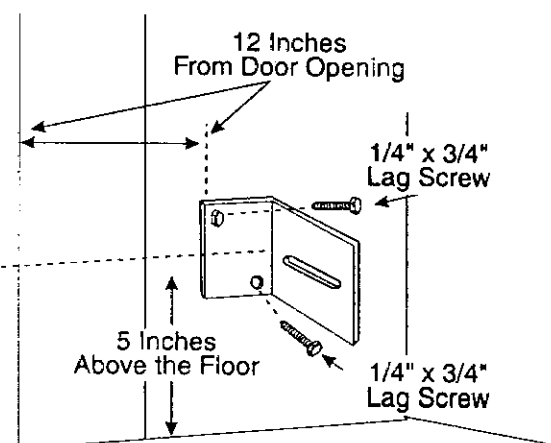
Install Entrapment Warning Label next to control button, as illustrated.



Step 9: Install Photoelectric Wall Mounting Bracket

Select a mounting position 5 inches above the floor to center line of wall bracket. The sending and receiving units should be mounted inside the door opening to minimize any interference by the sun. However, the sensors should be mounted as close to the door track or inside edge of the door as possible to offer maximum entrapment protection. **It is very important that both wall brackets be mounted at the same height for proper alignment.**

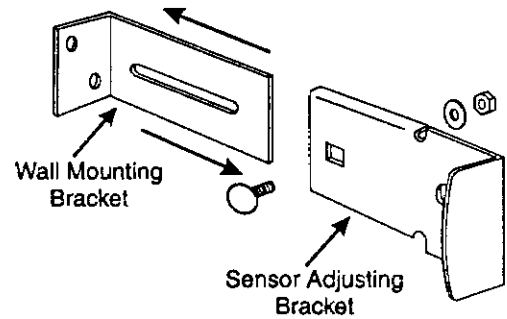
Using the 1/4" x 3/4" lag screw provided, attach the wall mounting bracket to the wall. In some installations it may be necessary to attach wooden spacers to the wall to achieve the required clearance. Expansion bolts (not supplied) may be required to attach brackets to walls constructed of materials other than wood or gypsum.



NOTE: If your door track is pre-punched for use with the QUICK-INSERT bracket proceed to step 10A for installation instructions.

Step 10: Assemble Sensor Adjusting Bracket

Slide the sensor adjusting brackets on to the wall mounting brackets and secure using the 1/4" x 20 carriage bolts and nuts supplied. Do not tighten at this time. Make sure the alignment allows for the sending and receiving units to point toward each other and that they will not be obstructed by the door tracks or other objects.

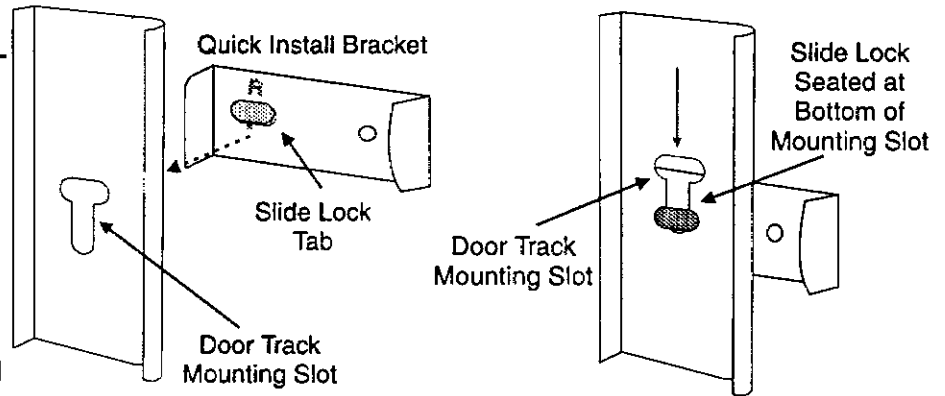


Step 10A - Install Photoelectric QUICK-INSTALL (QI) Mounting Bracket

Use the following instructions if your door tracks come pre-punched for using QUICK-INSTALL brackets.

Each bracket is marked either L or R just below the slide lock. (*L & R refers to left and right side of garage door as viewed from inside the garage*).

Start with the right side bracket as illustrated. Slip the Slide Lock tab of the QI bracket into the door track mounting slot near the bottom of the door track. Slide the bracket downward until it seats at the bottom of the slot. Repeat the same step for the left vertical track using the left Quick Install Bracket. You should encounter some resistance when pushing down on the QI-Bracket. If needed, use a flat blade screwdriver against the top edge of the bracket and gently tap into position with hammer.

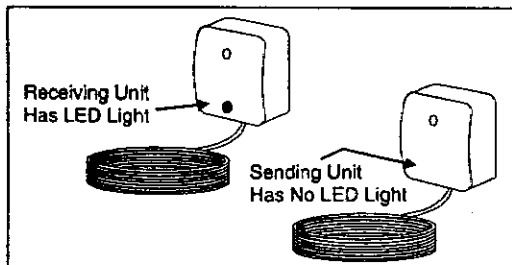
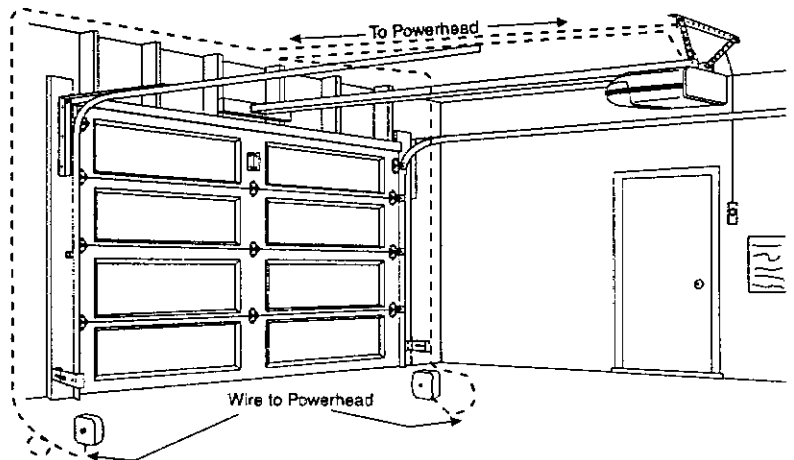


NOTE: It is very important that both brackets are mounted at the same height so sensors will align.

Step 11: Install Wiring for Photoelectric Sensors

Identify which side of the garage door opening (if any) the sun is "likely" to shine on to. Since sunlight may affect photoelectric sensors, you should mount the sending unit (not the receiving unit) on the side of the door opening exposed to the sun.

Uncoil the wires from the photoelectrics and route the wire up the garage wall across the ceiling and down to the back of the power unit, as illustrated. Tack the wires in place using staples. Take care to run the wires in a location where they will not interfere with the operation of the door and do not staple through wire. Be sure to leave about 12" of excess wire at each end so you will have enough slack wire to mount units.

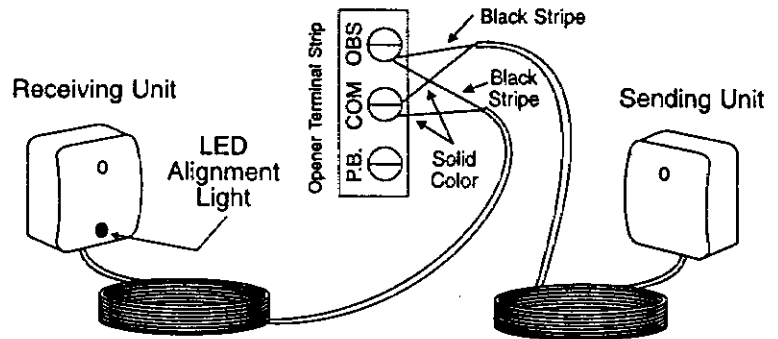


Note: if wires must be lengthened or spliced into prewired installation, use wire nuts or a suitable connector.

Step 12: Connecting Photoelectric Sensors to Opener

Connect Photoelectric Sensors to power unit as per diagram. Shorten the wires as necessary and separate the wire ends. Strip about 1/2" of insulation off each wire and attach the wires to the proper terminal screws, then tighten securely, using a small blade screwdriver.

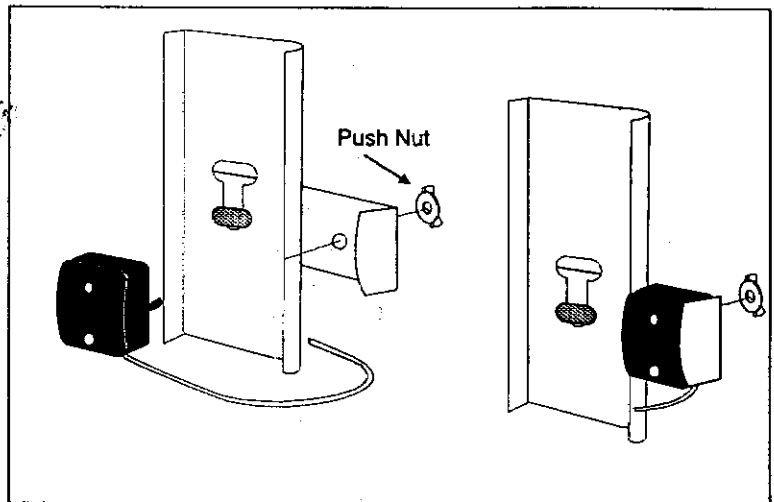
One wire has a black stripe. Be sure to observe polarity. Apply tension to external wires to test for secure connection. Check that the wires are stapled in place.



Step 13: Mount Photoelectric Sensors

Attach the sending and receiving units to the sensor adjusting brackets using the push nuts provided.

Place the photo eye stem through the hole in the mounting bracket with the wire exiting the bottom of the sensor housing. Next, screw the push-nut onto the photo eye stem. Support the face of the sensor with the palm of one hand and fully seat push-nut against bracket.



Step 14: Connecting Electrical Power

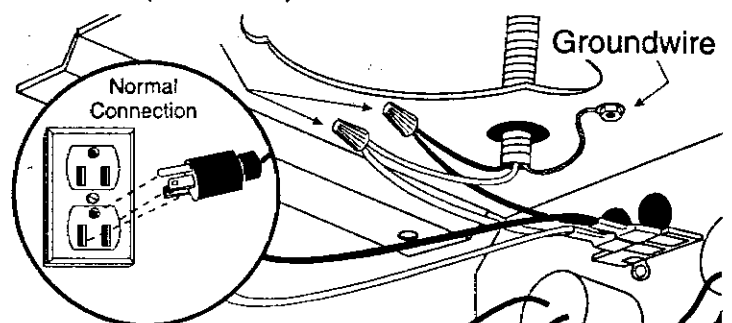
To reduce the risk of electrical shock, connect the power cord only to a properly grounded 3 prong, 120 volt outlet. Do not use an extension cord or change the plug in any way. At this point, plug in the opener to an electrical outlet. If the plug does not fit into the outlet, or you require permanent wiring, contact a qualified electrician to install the proper outlet. As soon as power is applied to the unit, the light on the opener will blink once to indicate a successful self-check of the controls.



Check your local electrical codes. If your local code requires permanent wiring, use the specifications called for and instructions illustrated.

Permanent Wiring Connection

Using the two wires (black & white) that were left when you cut off the line cord, splice in the permanent connections.



DO NOT USE AN ELECTRICAL EXTENSION CORD OF ANY TYPE.

Step 15: Alignment of the Photoelectric Obstruction Sensors.



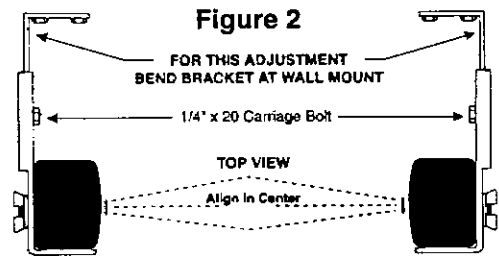
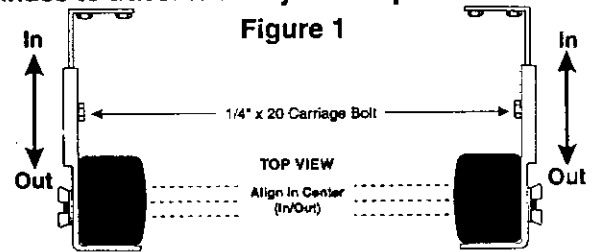
IMPORTANT: This infrared beam sensor sends an invisible beam of light from the sending unit to the receiving unit across the pathway of the door. The door opener will not operate until the beam sensor is connected to the power unit and properly aligned. If the invisible beam of light is obstructed, an open door cannot be closed by the transmitter or a momentary activation of the wall mounted push button. However, the door may be closed by holding your finger on the wall push button (constant pressure) until the door starts (after a two second delay) and continues to travel to a fully closed position.

At this point you will be able to activate the opener; it will open, but will not close the doors unless the beams are aligned. The beam sensors must be aligned by moving the sending and receiving units in or out (see Figure 1) until the alignment light on the receiving unit comes on. The 1/4" - 20 carriage bolt can be loosened to move the unit in or out, as required. If you have difficulty aligning beams, check that both brackets are mounted at the same height (see Step 9) and remount if necessary. Additional minor adjustments can be made by lightly bending the mounting brackets (see Figure 2).

Once the alignment light comes on, tighten all bolts and mounting screws.

Finish securing all wire making sure not to break or open any of the conductors. Loop and secure any extra wire.

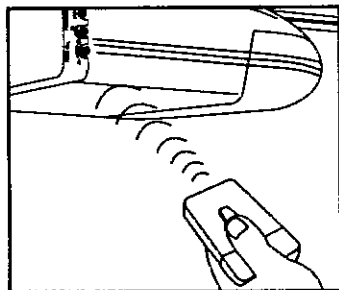
Now, using the push button, activate the opener and check that it will operate through full open and close cycles.



Step 16: Programming Portable Radio Transmitter Code to Built-in Receiver

This opener system contains a transmitter which communicates with the receiver and self sets one of a billion security codes and selects a new code after each activation.

To initialize program, press the PROGRAM SWITCH button, located on the Motor Head Unit, once. (If the optional Multi-Function Wall Station has been installed, refer to Step 7A for alternative program switch activation). The PROGRAM STATUS LED on the Motor Head Unit will light and remain lit for one minute, indicating that the receiver is ready to receive the radio transmitter code signal and set the security code.

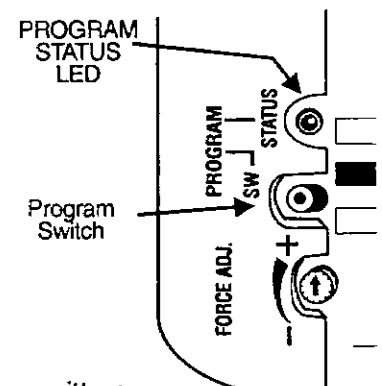


While the program status LED is lit, press the transmitter button once, making sure to have it pointed toward the Motor Head Unit. The PROGRAM STATUS LED will turn itself off, indicating it has completed programming the transmitter signal and will start its security code system sequence.

NOTE: This opener is designed to work with up to 4 transmitters. For each additional transmitter repeat the above programming instructions.

Reprogramming or Replacing a transmitter

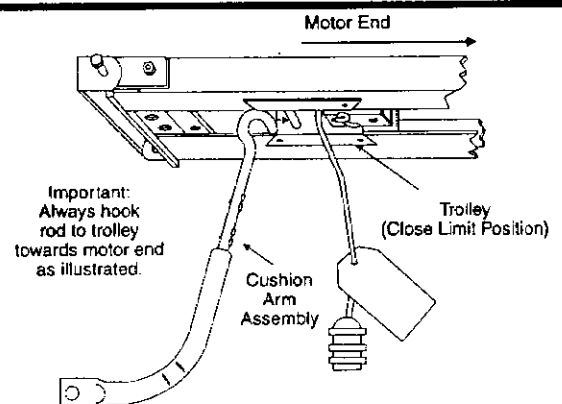
When replacing a lost or stolen transmitter, first clear out the previously programmed code(s) as follows: Repeat Step 16 instructions four (4) times with the new transmitter.



Step 17: Connecting Cushion Arm to Trolley

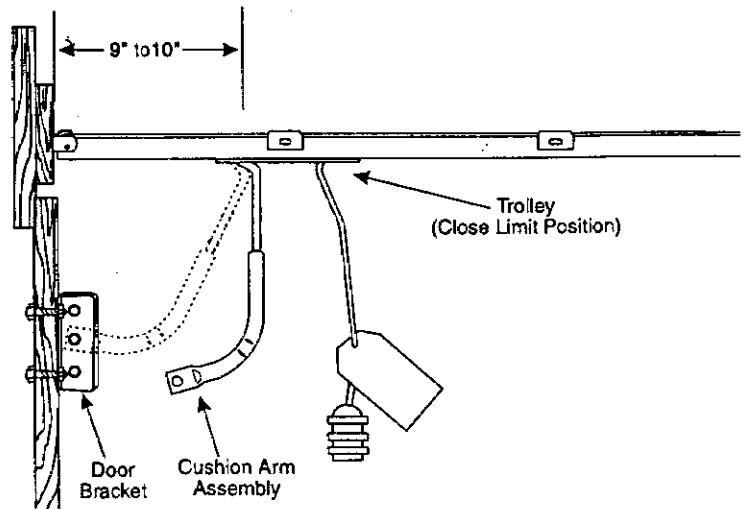
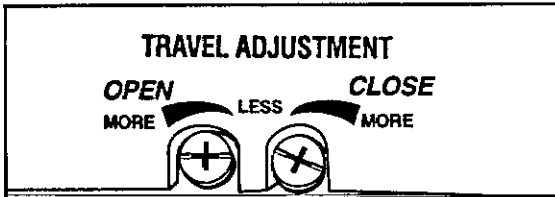
Activate opener to bring trolley to factory pre-set close limit. (See illustration.)

Cushion arm assembly consists of the door arm tube section and door arm rod, which are packed separately. To assemble, screw the door arm rod into the door arm tube in a clockwise direction approximately ten turns. Connect cushion arm assembly into trolley with open end of rod hook facing motor. Attach warning tag and red pull knob to red release cord connected to trolley.



Step 18: Setting Trolley Close Position

Activate opener to confirm trolley close position is 9" to 10" between the inside face of the door and the solid cushion arm rod. If adjustment of the close trolley position is necessary, use the CLOSE TRAVEL ADJUSTMENT knob located on the bottom of the Motor Head Unit. A 1/4 turn equals approximately 1" of trolley movement, turn clockwise to move forward; counter-clockwise to move back.



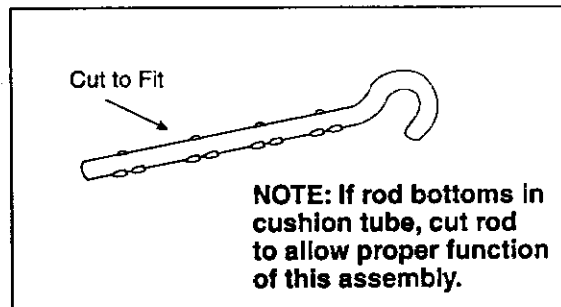
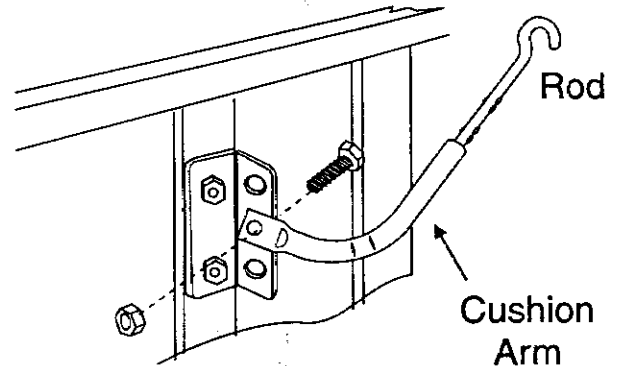
Step 19: Connecting Door Arm to Door

Door Mounted Bracket

Visually align cushion arm connecting hole with middle hole of door bracket by rotating tube section in appropriate direction.

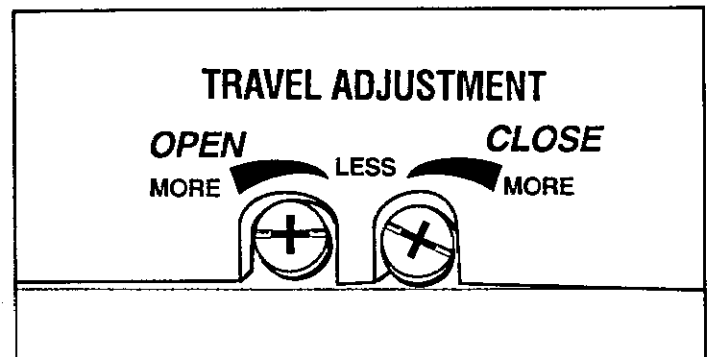
Release trolley (cushion arm attached) with manual release cord and pull trolley a few inches toward motor. Now rotate cushion arm tube section 2 turns counterclockwise to provide a cushion when door is closed or encounters an obstruction. Align connecting hole in cushion arm to middle hole in door bracket; insert 3/8" dia. bolt and tighten locking nut, allowing for free pivoting of arm.

Note: Do not over tighten locking nut, as this will cause binding between cushion arm and door bracket.



Step 20: Setting Door Close Travel Plus "Contact Obstruction Sensing" Test

With push button, activate door to full open position; reactivate to close position. The door should stop on the floor with the cushion arm and the bottom door seal slightly compressed. If the door reverses off the floor, turn close travel knob 1/4 turn "less". If door is not completely closed, turn travel knob 1/4 turn "more". Repeat if necessary.



IMPORTANT! Test "Contact Obstruction Sensing Feature"

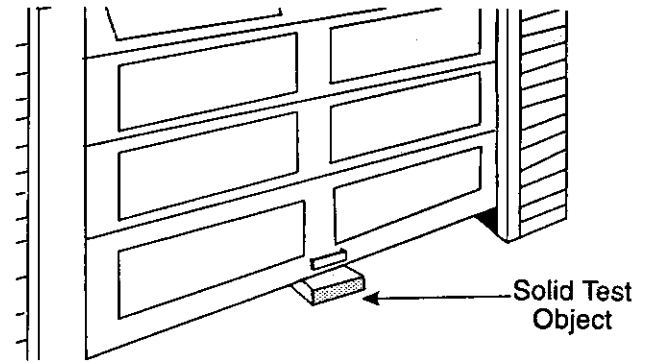


After installing opener, the door must reverse when it contacts a 1 inch high object on the floor.

Activate the door to the full, open position and place a 1" (25mm) solid test obstacle on the floor under the garage door. Activate the door to the closed position. The door should reverse upon contact with the 1" obstacle.

If door stops on the 1" obstacle, adjust the close travel knob 1/4 turn "more" until door reverses upon contact with obstacle. Repeat if necessary.

When the door reverses, remove the test object and run the full cycle of open and close of the door. Door should not reverse when it comes to the fully closed position.

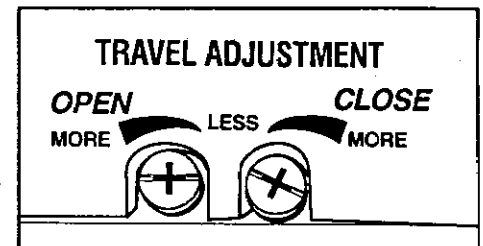


Note: If opener fails to pass this test, repeat Step 20. Also see Adjustment #2, (Contact Obstruction Sensing Adjustment).

Step 21: Setting Door Opening Travel

Do not use adjustments to compensate for a poorly balanced door. This will interfere with the proper operation of the travel adjustments and may damage the door.

The door opener is assembled with the open travel adjustment preset for a typical door, but all doors should be adjusted to stop as close as possible to the door's "natural" fully open, resting position.



To determine the door's "natural" fully open, resting position, disconnect door from opener using the Emergency Release Disconnect (see page 19, HOW TO OPERATE YOUR DOOR MANUALLY) and manually raise door to its "natural" fully open, resting position. Use this location for your open limit setting. To determine if door needs adjustment, activate the opener to bring door to fully open position.

NOTE: If door does not open fully and opener light flashes (*make sure the bulb is installed and operating*) check for an obstruction or see Adjustment #1 (Adjusting Opening Force).

To adjust for a non-standard door or to precisely set the open position: using the push button, operate the door and stop it in mid-travel position; using a flathead screwdriver turn the OPEN travel adjuster for more (counter-clockwise) or less (clockwise) travel. A 1/4 turn equals approximately 1" of trolley movement.

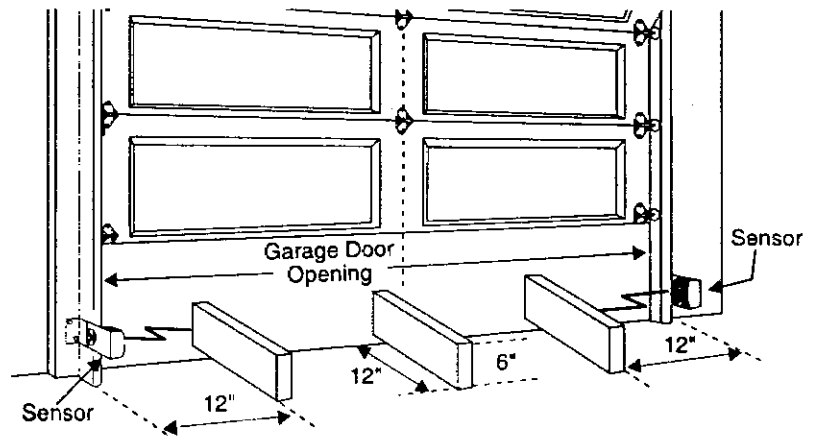
To confirm final OPEN travel adjustment, activate the opener to bring door to fully open position.

Step 22: Photoelectric Obstruction Sensor Test

Test Procedure

Starting with the door in the fully open position, place a 6" x 12" object on the floor progressively one foot from the left side of the door; center of door and one foot from the right side of door (as illustrated). In each position, activation of the opener with the push button should cause the door to move approximately one foot, stop and then reverse to fully open position. The same 6" x 12" object when placed on the floor should also cause a closing door to reverse.

If the door does not respond properly to these tests, the photoelectric sensors must be adjusted (refer to step 15). Repeat this test procedure. If the door opener still will not respond properly and fails this test, the door may cause severe injury or death. Have a qualified service person make repairs.



ADJUSTMENTS

Adjustment #1: Opening and Closing Force

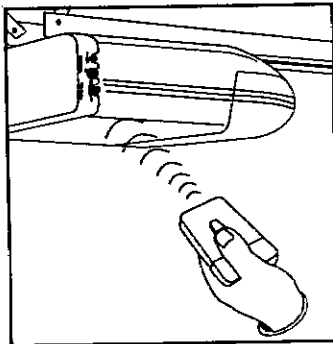
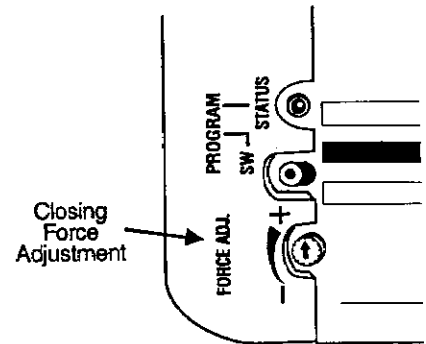
This garage door opener is built with a safety system that allows the door to reverse in the close direction and stop in the open direction. This must be adjusted so your opener does not use excessive force in the down direction or react to the weight of the door during upward travel.

CLOSING FORCE ADJUSTMENT

To help determine that the closing door force is not excessive, grasp the door handle or bottom edge during downward travel. The opener should **REVERSE** to this force. To adjust the closing force turn the **FORCE ADJ.** (see illustration) counter clockwise to decrease force until door reacts properly. *Do not stand under door during this test.*

OPENING FORCE ADJUSTMENT

To help determine that the opening door force is not excessive, grasp the door handle or bottom edge during upward travel. If the opener does not stop or is hard to hold, decrease the open force. The opener should **STOP** without using excessive force.



To Increase Opening Force, press the PROGRAM SWITCH on the motor head button **TWICE** (If the optional Multi-Function Wall Station has been installed, refer to Step 7A for alternative program switch). The PROGRAM STATUS LED on the motor head will blink ON/OFF for one minute, indicating it is ready to receive INCREASE FORCE signal. Press the programmed radio transmitter button once. The PROGRAM STATUS LED should turn itself off indicating it has received the signal and INCREASED the opening force one level. Repeat this entire procedure if additional opening force is required.

For Increasing Force, press the program switch twice causing an ON/OFF Blinking of the Program Status LED.

*	●	*	●	*
ON	OFF	ON	OFF	ON

For Decreasing Force, press the program switch three times causing an ON/ON/OFF Blinking of the Program Status LED.

*	*	●	*	*	●
ON	ON	OFF	ON	ON	OFF

To Decrease Opening Force, press the PROGRAM SWITCH on the motor head button **THREE TIMES**. (If the optional Multi-Function Wall Station has been installed, refer to Step 7A for alternative program switch). The PROGRAM STATUS LED on the motor head will blink ON/ON/OFF for one minute, indicating it is ready to receive DECREASE FORCE signal. Press the radio transmitter button once. The PROGRAM STATUS LED should turn itself off indicating it has received the signal and DECREASED the opening force one level. Repeat this entire procedure if opening force still requires adjustment.

Adjustment #2: Contact Obstruction Sensing (Closing Direction)

The opener is designed to automatically reverse the door during closing travel whenever it comes in contact with an object up to the last 1 inch of travel above the floor. An object on the floor with a height less than 1" will cause the door to stop. (Test according to instructions on page 15.)

If opener reverses properly with 1" high solid test object laid flat on garage floor (Installation Step 20) and stops in the fully closed position, proceed to Adjustment #3.

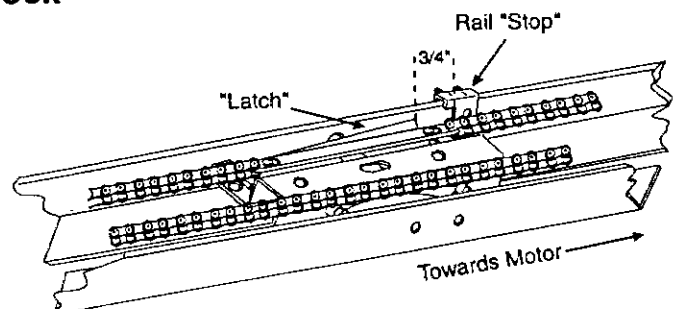
When door comes in contact with a 1" high solid test object laid flat on garage floor and stops instead of reversing, reset the door close limits according to instruction in Step 20, adjusting until door reverses upon contact with the 1" high solid test object.

If door reverses when it comes in contact with the floor; reset the door close limits according to instruction in Step 20.

Adjustment #3: Positive Mechanical Door Lock

The garage door opener is designed with an automatic mechanical locking system. This lock secures the door in the fully closed position.

To adjust, activate the door opener and allow the door to go to its fully closed position. Loosen the two screws on the rail stop and move it behind the chain latch assembly with a gap of 3/4" between "stop" and "latch". Retighten screws.



IMPORTANT SAFETY INSTRUCTIONS

WARNING: To reduce the risk of severe injury or death:

Before you proceed, please thoroughly read the safety rules on Page 3 and the following operating instructions. Operate only when opener is properly adjusted and the door is visible and unobstructed.



READ AND FOLLOW ALL INSTRUCTIONS.



Always keep moving door in sight and away from people and objects, until it is completely closed. NO ONE SHOULD CROSS THE PATH OF THE MOVING DOOR.



Never let children operate or play with door controls. Keep remote control away from children.



KEEP GARAGE DOORS PROPERLY BALANCED. See owner's manual. An improperly balanced door could cause severe injury or death. Have a qualified service person make repairs to cables, spring assemblies and other hardware.



If possible, use the emergency release only when the door is closed. Use caution when using this release with the door open. Weak or broken springs may cause the door to fall rapidly, causing serious injury or death.



Test door opener monthly. The garage door MUST reverse on contact with a 1 inch high solid test object on the floor. If adjusting either the force or the limit of travel, retest the door opener. Failure to adjust the opener properly may cause severe injury or death.



Test door opener monthly. Open door must not close and closing door must open if Photoelectric system is obstructed by 6" x 12" object, using test procedure described in Step 22.



SAVE THESE INSTRUCTIONS.

IMPORTANT—MESURES DE SÉCURITÉ

AVERTISSEMENT—POUR RÉDUIRE LES RISQUES DE BLESSURES MORTELLES

Avant de commencer, veuillez lire attentivement les règles de sécurité, page 3 et les instructions suivantes. Faire fonctionner uniquement lorsque l'ouvre-porte est correctement réglé et que la porte est visible et sans obstacle.



LISEZ CETTE NOTICE ET CONFORMEZ-VOUS AUX INSTRUCTIONS.



NE LAISSEZ JAMAIS LES ENFANTS MANOEUVRER LES COMMANDES DE LA PORTE. NE LAISSEZ PAS LA TÉLÉCOMMANDE À PORTÉE DES ENFANTS.



SURVEILLEZ LA COURSE DE LA PORTE JUSQU'À CE QUE CETTE DERNIÈRE SOIT COMPLÈTEMENT FERMÉE EN VEILLANT À TENIR À L'ÉCART TOUTE PERSONNE ET TOUT OBJET AVOISINANT. IL NE FAUT JAMAIS PASSER ENDESSOUS D'UNE PORTE EN MOUVEMENT.



VÉRIFIEZ LE FONCTIONNEMENT DE L'OUVRE-PORTE UNE FOIS PAR MOIS. LE SENS DE LA COURSE DOIT S'INVERSER LORSQUE LA PORTE ENTRE EN CONTACT AVEC UN OBJET D'UNE HAUTEUR DE 1 PO POSÉ SUR LE SOL VÉRIFIEZ À NOUVEAU L'OUVRE-PORTE APRES TOUT RÉGLAGE DE LA FORCE DE DÉCLENCHEMENT OU DU SEUIL DE FIN DE COURSE. UN RÉGLAGE INCORRECT DE L'OUVRE-PORTE PEUT CAUSER DES BLESSURES MORTELLES.



DANS LA MESURE DU POSSIBLE, NE DÉCLENCHÉZ LE DISPOSITIF DE DÉSACCOUPLEMENT QUE LORSQUE LA PORTE EST FERMÉE. USEZ DE PRUDENCE SI VOUS DÉCLENCHÉZ LE DISPOSITIF LORSQUE LA PORTE EST OUVERTE ; UN RESSORT AFFAIBLI OU CASSÉ PEUT ENTRAÎNER UNE DESCENTE BRUTALE DE LA PORTE ET CAUSER DES BLESSURES MORTELLES.



ASSUREZ-VOUS QUE LA PORTE DE GARAGE EST CORRECTEMENT ÉQUILIBRÉE. UNE PORTE MAL ÉQUILIBRÉE PEUT CAUSER DES BLESSURES GRAVES. CONFIEZ LA RÉPARATION DES CÂBLES, DES RESSORTS ET DE TOUT AUTRE ÉLÉMENT À UN TECHNICIEN QUALIFIÉ.



VÉRIFIER L'OUVRE-PORTE UNE FOIS PAR MOIS. SI LE SYSTÈME PHOTO-ÉLECTRIQUE EST BLOQUÉ PAR UN OBJET DE PLUS DE 6 PO X 12 PO, LA PORTE OUVERTE NE DOIT PAS SE FERMER ET LA PORTE SE FERMANT DOIT S'OUVRIRE. VÉRIFIER CELA EN UTILISANT LA VÉRIFICATION DÉCRITE À L'ÉTAPE 22.



CONSERVEZ CES INSTRUCTIONS.

Operation of Your Opener

HOW TO ACTIVATE THE OPENER



Never let children operate or play with door controls.
Keep remote control away from children.

Use any of the following devices:

1. The Remote Control Transmitter; momentary push of the button and the door will start to move.
2. The Door Control Button; momentary push of the button until the door starts to move. Constant push of button, until door is closed is required if light flashes.
3. The Outside Key Switch or Keyless Entry System (*if you have installed either of these options, see manufacturer's instructions*).

HOW THE DOOR MOVES WHEN THE OPENER IS ACTIVATED



Always keep moving door in sight and away from people and objects, until it is completely closed.
NO ONE SHOULD CROSS THE PATH OF THE MOVING DOOR.

1. If open, the door will close. If closed, the door will open.
2. If closing, the door will stop. Next activation will open.
3. If opening, the door will stop. Next activation will close.
4. If an obstruction is contacted or the beam is interrupted while closing, the door will reverse and the light will flash.
5. If an obstruction is encountered while opening, the door will stop and the light will flash. The next activation will close the door.
6. The Photoelectric uses an invisible beam which, when broken by an obstruction, causes a closing door to reverse, prevents an open door from closing and causes the light to flash.

OPTIONAL MULTI-FUNCTION WALL STATION

When wall station is connected to opener per instructions supplied with multi-function wall station, it will provide the following features:

1. "OFF-ON" will prevent inadvertent operation of the door from all push buttons, radio or keyless entry devices. ***This feature is to be activated only when the door is at the full open or close position and never while the door is moving.***
2. LIGHT button allows the light to be turned on and stay on until turned off by a second push of button or activation of door cycle.
3. UP-DOWN button provides normal opening and closing of door by momentary activation of this push button. Function of door cycle is described above - "How the Door Moves When the Opener is Activated".
4. The Multi-Function Wall Station will allow convenient programming features directly from the Wall Station. (See Step 7A).

HOW THE LIGHT WORKS AND WHAT IT MEANS WHEN IT FLASHES

1. Convenience light automatically turns on when opener is activated and remains on for 4 minutes for convenience and safety.
2. The light will flash after coming upon an obstruction in the up or down direction to warn you of a problem. It will continue flashing for 4 minutes, then shut off.

If the light begins to flash and the door moves a short distance and then reverses from a push button or radio, the external safety device is activated or defective. To temporarily override and close door, activate push button or wall station, keeping button depressed; opener will begin in down direction. The button must remain depressed until cycle is completed. If the button is released before cycle is completed, the door will reverse and come to fully open position. Problems in the safety system should be inspected by a professional garage door installer.

HOW TO OPERATE THE DOOR MANUALLY - *Emergency Release Disconnect*



The door should be fully closed, if possible. Weak or broken springs could allow an open door to fall rapidly. Property damage or serious personal injury could result. Do not use the manual release knob to pull the door open or closed. Do not stand near or in the path of door when using the emergency release disconnect.

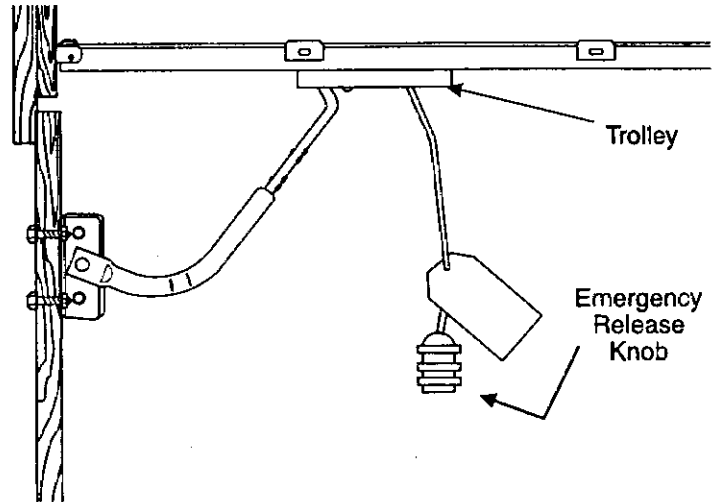
The opener is equipped with an emergency release recessed trolley-type disconnect system, enabling manual operation of the garage door during power failure.

The trolley is disconnected from the chain by pulling down on the red release knob, allowing the garage door to be operated manually.

The trolley will automatically reconnect when power is restored and door is activated.

If emergency release is used, close door before operating opener.

Note: Outside keylock emergency releases are an available accessory and are recommended for garages without a service entrance.



MAINTENANCE OF YOUR OPENER SYSTEM



Test door opener monthly. The garage door **MUST** reverse on contact with a 1 inch solid test object on the floor. If adjusting either the force or the limit of travel, retest the door opener. Failure to adjust the opener properly may cause severe injury or death.



KEEP GARAGE DOORS PROPERLY BALANCED. See owner's manual. An improperly balanced door could cause severe injury or death. Have a qualified service person make repairs to cables, spring assemblies and other hardware.

Once a Month:

1. Manually operate door. If it is unbalanced or binding, call for a professional garage door service person.
2. Check to be sure door opens and closes fully. Adjust Limits and/or Force, if necessary.
3. Perform safety reverse test. Make any necessary adjustments.

Twice a Year:

Check chain tension. Adjust, if necessary.

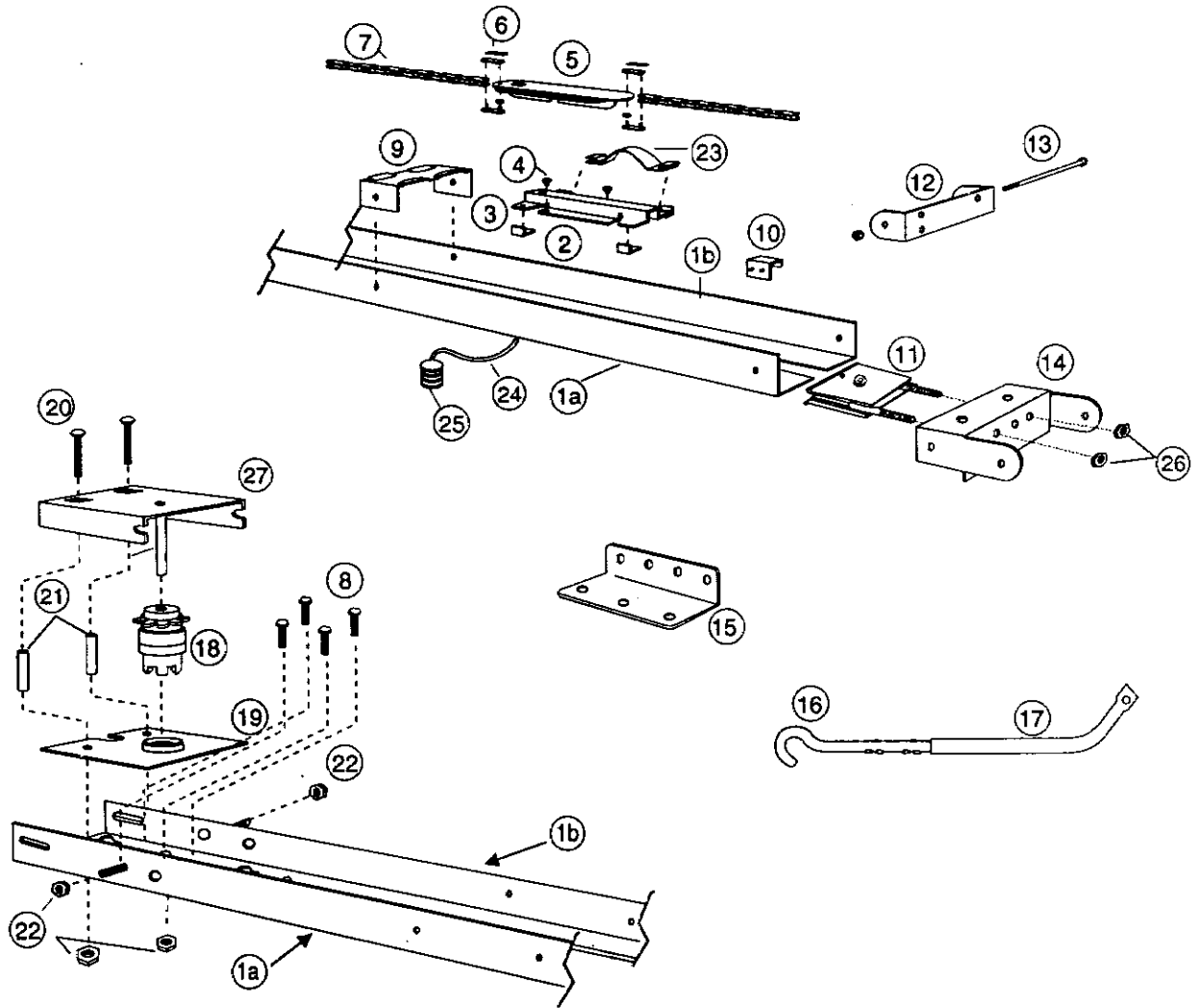
Once a Year:

1. Lubricate door rollers, bearings and hinges. *(Refer to door owners manual for maintenance information.)*
2. Check batteries in transmitter.
(When replacing battery always use a new battery. Alkaline batteries are recommended).
Dispose of used batteries properly!

TROUBLE SHOOTING SECTION

Symptom	Probable Cause	Corrective Action
Opener won't work from wall button or radio control.	<p>No power to opener.</p> <p>Short circuit in wires to opener or wall button.</p> <p>Motor protector trips open due to excessive use.</p> <p>Optional Multi-Function Wall Station switch is "Off".</p>	<p>Check cord to outlet, wall switch and circuit breaker.</p> <p>Isolate by disconnecting the wires at the opener from the wall button.</p> <p>Allow motor to cool for 20 minutes and try again.</p> <p>Set to "On".</p>
Opener works from wall button but not from radio control.	Radio control system non-operating.	<p>Weak or dead battery in transmitter-replace.</p> <p>Security Code not matched between receiver and transmitter (See Step 16).</p> <p>If two or more transmitters don't work, have Motor Control Board Tested.</p>
Door does not open and opener light flashes.	<p>Something obstructing door travel.</p> <p>Insufficient opening force.</p> <p>Build up of ice and snow around door.</p>	<p>Disconnect door from operator. Operate door by hand to locate obstruction or call a service person.</p> <p>Adjust opening force. (See Adj. #1).</p> <p>Shovel and clear door area.</p>
Door does not open fully and light does not flash.	Open Limit not set properly.	Adjust Open Travel with screw-driver, turn counter-clockwise to desired setting. 1/4 turn equals 1" travel (See Step 21).
Door stops and does not close fully.	Close Limit not set properly.	Adjust Close Travel with screw-driver, turn clockwise to desired setting. 1/4 turn equals 1" travel (See Step 20).
Door closes and then returns to fully open position and opener light flashes.	<p>Door arm adjustment.</p> <p>Close travel adjustment is set beyond normal door position.</p> <p>Obstructions on floor.</p>	<p>Adjust rod in tube to provide 1" of "cushion" compression when door is fully closed (See step 17 & 19).</p> <p>Adjust Close Travel with screw-driver, turn counter-clockwise to desired setting. 1/4 turn equals 1" travel (See step 20).</p> <p>Check for stones or ice under door and remove.</p>
When activated with door in fully open position, door travels for 1 second, stops, and returns to fully open position and light begins to flash.	<p>Photoelectric obstruction sensor out of adjustment or defective.</p> <p>Obstructions in door opening.</p>	<p>Photoelectric obstruction sensor control alignment should be checked per instructions. Check wiring between auxiliary safety & opener.</p> <p>Check for object blocking Photoelectric Sensor.</p>
Door reverses travel before reaching fully closed position and opener light flashes.	<p>Activation of obstruction sensing system.</p> <p>Loose or hanging objects on door activating Photoelectric Sensor beam.</p> <p>Insufficient closing force.</p>	<p>Check for binding in door travel (door "stops", door tracks, etc.).</p> <p>Remove objects.</p> <p>Adjust closing force. (See adj. #1).</p>

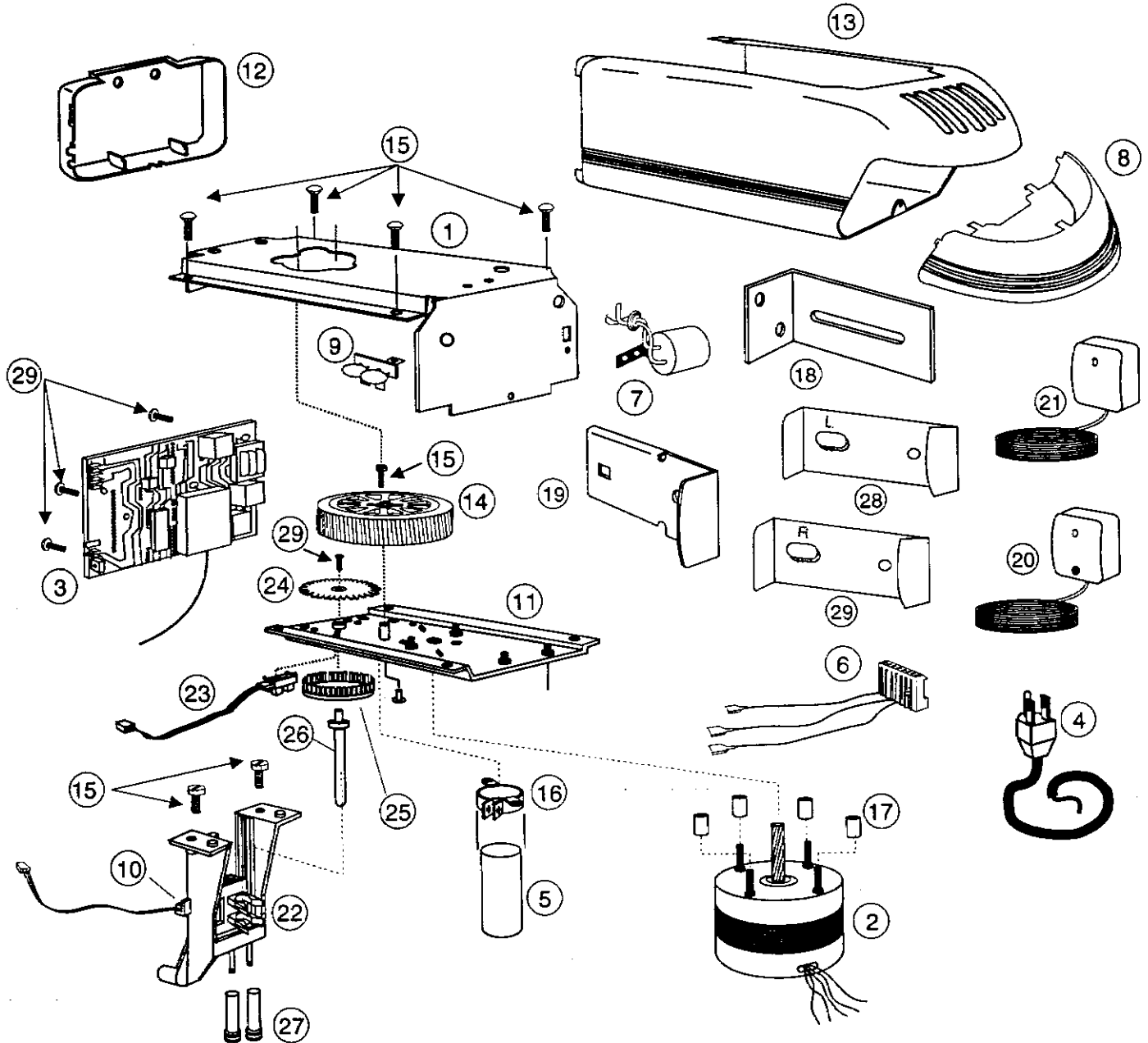
Parts Breakdown Rail Assembly - Model 3000



#	Part #	Description	# Per Unit
	1a. S-3006-R	Rail Angle, R.H. (7 foot)	1
	1b. S-3006-L	Rail Angle, L.H. (7 foot)	1
	2. A-7	Trolley Assembly	1
	3. P-1004-2	Trolley Wing Foot	4
	4. P-1022	Nylon Button	4
	5. A-6	Chain Latch Assembly (with #10 Rail Stop)	1
	6. P-1069-1	Master Link Assembly with Spacers	2
	7. P-1013	Chain (specify length)	1
	8. F-3030	Motor Head Mounting Screw 1/4-20	4
	9. S-1002	Rail Spacer Bracket	3
	10. S-1024-3	Rail Stop with Set Screws	1
	11. A-3	Front Chain Guide Assembly	1
	12. S-1001	Front Wall Bracket	1
	13. F-1063-64	1/4 - 20 x 4" Hex Bolt with Lock Nut	1




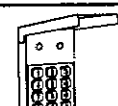
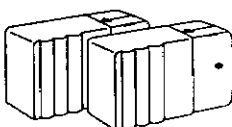
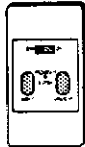
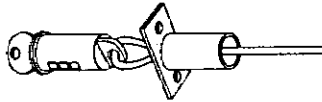
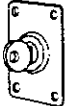


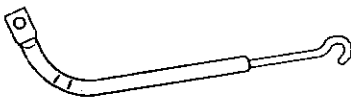



#	Part #	Description	# Per Unit
	14. S-1006	Front Rail Bracket	1
	15. S-1628	Door Bracket	1
	16. S-1028	Arm Rod	1
	17. P-1027	Tube Arm	1
	18. P-3007	Sprocket Coupling	1
	19. A-3001	Sprocket Coupling Base Assembly	1
	20. F-1065	5/16 - 18 Carriage Bolts	2
	21. P-1091	Spacer Tube	2
	22. F-1061	5/16 - 18 Kep Nut	4
	23. P-1066	Molded Chain Guard	1
	24. P-1037	Red Release Cord	1
	25. P-1516	Red Release Knob	1
	26. F-1074	Chain Adjusting Nuts	2
	27. A-1007	Sprocket Coupling Cap Assembly	1

Parts Breakdown Motorhead Assembly - Model 3000



#	Part #	Description	# Per Unit	#	Part #	Description	# Per Unit
1.	S-3009	Frame	1	15.	F-3030	Screw 1/4-20	7
2.	P-3041	Motor (specify model)	1	16.	P-1084	Capacitor Clamp	1
3.	P-3010	Motor Control Board	1	17.	P-1052-1	Motor Spacers	4
4.	P-1080	Power Supply Cord	1	18.	P-3086	Sensor Mounting Bracket (Jamb)	2
5.	P-1083	Capacitor (specify model)	1	19.	P-3085	Sensor Sliding Bracket	2
6.	A-W1	Wiring Harness	1	20.	P-3078-R	Receiving Unit	1
7.	P-1512	Light Socket	1	21.	P-3078-T	Sending Unit	1
8.	P-3013	Lens (specify model)	1	22.	A-3029	Limit Assembly	1
9.	A2-Assembly	MOV Surge Suppressor	1	23.	A-3039	LED Interrupter	1
10.	P-3014	Limit Switch	1	24.	P-3021	Limit Driver Gear	1
11.	S-3011	Sub-Frame	1	25.	P-3023	Interrupter Disk	1
12.	P-3015	End-Cap	1	26.	P-3022	Shaft, Limit Driver	1
13.	P-3016	Housing (specify model)	1	27.	P-3027	Limit Adjuster	2
14.	P-3017	Gear Driver	1	28.	P-3087-L	Quick Install Bracket (left)	1
				29.	P-3087-R	Quick Install Bracket (right)	1

MODEL 3000 ACCESSORIES

One Button Midi-Transmitter	Model # P-3082		Includes visor clip.
Two Button Midi-Transmitter	Model # P-3083		Programmable for two doors from one transmitter. Includes visor clip.
Three Button Midi-Transmitter	Model # P-3084		Programmable for three doors from one transmitter. Includes visor clip.
Wireless Keypad	Model # P-3081		Illuminated numeric keypad which allows the operation of the garage door opener from outside by entering a programmable personal code on a keypad. Can be programmed for up to 4 doors.
Wireless Photoelectric Sensors	Model # P-3002		Reversing sensors communicates with door opener via wireless radio link to detect obstruction in path of door and reacts by reversing door.
Multi-Function Wall Control Station	Model # P-3080		Allows you full control of light for constant use and adds an electronic lock feature that prevents opening the garage from any push button or transmitter. Also allows programming the opener's transmitter(s), keypad or wireless beams easily at the wall station.
Key Cable Outside Disconnect	Model # D-2-3		Recommended for all vault type garages without an access door.
Outside Key Switch	Model # KS-1		Used to open the door automatically from outside the garage whenever the remote control is not available. Shipped with 2 keys.
Receiver Adapter Transformer	Model # TK-8006		(24VDC) for powering a receiver.
Standard Push Button	Model # P-1089		Use for additional access doors.
Extender Arm Assembly Kit	Model # A-25-26		Use for high door arc situations.
Short Arm Assembly Kit	Model # A-25-8		Use for low headroom situations.
Wire Spool	Model # P-1544-1		80 ft., 22 gauge, 2 conductor polarized, UL listed (CL-2, 75° C.).
Wire Reel	Model # P-1544-2		1000 ft., 22 gauge, 2 conductor polarized, UL listed (CL-2, 75° C.).

Questions? For quick answers and helpful advice, Call Toll Free 1-800-305-4349

LIMITED WARRANTY

The Manufacturer warrants that its garage door opener will be free from defects in materials and workmanship for a period of five years from the date of installation, provided it is properly maintained and cared for under normal use and service. Electronic components are covered under this warranty for a period of three years.

This Warranty extends to the original homeowner, providing the garage door opener is installed in his/her place of primary residence. It is not transferable. The warranty applies to residential property only and is not valid on commercial or rental property.

NO EMPLOYEE, DISTRIBUTOR, OR REPRESENTATIVE IS AUTHORIZED TO CHANGE THE FOREGOING WARRANTIES IN ANY WAY OR GRANT ANY OTHER WARRANTY ON BEHALF OF MANUFACTURER.

The Manufacturer shall not be responsible for any damage resulting to or caused by its products by reason of installation, improper storage, unauthorized service, alteration of products, neglect or abuse, any acts of nature beyond Manufacturer's control (such as, but not limited to, lightning, power surges, water damage, etc.), or attempt to use the products for other than the customary usage or for their intended purposes. The above warranty does not cover normal wear or any damage beyond Manufacturer's control or replacement labor.

THIS WARRANTY COVERS A CONSUMER PRODUCT AS DEFINED BY THE MAGNUSON-MOSS WARRANTY ACT. NO WARRANTIES, EXPRESSED OR IMPLIED, (INCLUDING, BUT NOT LIMITED TO, THE WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), SHALL EXTEND BEYOND THE APPLICABLE TIME PERIOD STATED IN BOLD FACE TYPE ABOVE.

Claims for defects in material and workmanship covered by this warranty shall be made in writing to the dealer from whom the product was purchased within the warranty period. Manufacturer may either send a service representative or have the product returned to the Manufacturer at Buyer's expense for inspection. If judged by Manufacturer to be defective in material or workmanship, the product will be replaced or repaired at the option of the Manufacturer, free from all charges except authorized transportation and replacement labor.

THE REMEDIES OF BUYER SET FORTH HEREIN ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER REMEDIES. THE LIABILITY OF MANUFACTURER, WHETHER IN CONTACT, TORT, UNDER ANY WARRANTY OR OTHERWISE, SHALL NOT EXTEND BEYOND ITS OBLIGATION TO REPAIR OR REPLACE, AT ITS OPTION, ANY PRODUCT OR PART FOUND BY MANUFACTURER TO BE DEFECTIVE IN MATERIAL OR WORKMANSHIP. MANUFACTURER SHALL NOT BE LIABLE FOR COST OF REMOVAL OR INSTALLATION OR SHALL NOT BE RESPONSIBLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE.

This Warranty gives you specific legal rights which may vary from state to state. However, some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.



QUANTUM™

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