INSTALLATION INSTRUCTIONS

For Sectional Type Doors **IMPORTANT SAFETY NOTES**

Please read the instructions carefully! This garage door operator is designed to provide safe and reliable service if installed and tested as described in these instructions. A garage door is the largest mechanical appliance in a during installation and operation of the garage door and possible mechanical hazards that may cause

This type of warning note is used to indicate

serious injuries or death.

A WARNING A nssible electrical shock hazards that may use serious injuries or death.

A CAUTION A

This type of warning note is used to indicate the possibility of damage to the garage door or garage door operator.

IMPORTANT INSTALLATION SAFETY INSTRUCTIONS

TO REDUCE THE RISK OF SEVERE INJURY OR DEATH TO PERSONS. REVIEW THESE INSTALLATION SAFETY STEPS BEFORE PROCEEDING

- READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS.
- Install only on a properly balanced garage door. An improperly balanced door could result in severe injury or death. Repairs to cables, spring assemblies, and other hardware must be made by a qualified service person before installing the operator.
- Use this operator only with sectional overhead doors no more than 10 ft. tall.
- Disable all locks and remove all ropes connected to the garage door before installing the operato Ropes connected to a garage door can cause entanglement and death.
- 5 If possible, install door operator 7 feet or more above the floor with the manual release handle
- Do not connect the operator to the power source until instructed to do so.
- Locate the wall station within sight of the door at a minimum height of 5 feet so that small childre cannot reach it. Locate the wall station away from all moving parts of the door.
- Install the User Safety Label on the wall adjacent to the wall station.
- Upon completion of the installation, the door must reverse when it comes in contact with a 1-1/2" high object (or a 2x4 laid flat at the center of the door) on the floor and when the infrared safety beam is blocked
- 10 Do not wear watches, rings or loose clothing while installing or servicing an operator. Jewelry or loose clothing can be caught in the mechanism of the garage door or the operator
- 11 DISCONNECT THE ELECTRIC POWER FROM THE GARAGE DOOR OPERATOR BEFORE MAKING ANY REPAIRS OR REMOVING THE COVER

1 Check the Door Balance

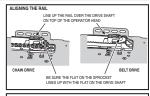
- From outside the garage, slowly open the door all the way, and then close it all the way. Notice if there is any binding, sticking or rubbing. The door should move smoothly in both directions.
- 2 Raise the garage door about halfway up. Carefully release the door and see if the door balances. It should stay in place. Close the door.
- ➤ IMPORTANT: If the garage door is unbalanced or the door travel isn't smooth, have a qualified garage door professional adjust or repair the door.

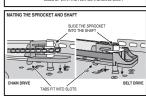
2 Attach the Rail to the Operator

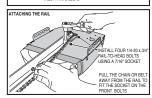
- 1 Place the operator head on the garage floor with cardboard underneath it to protect the finish. 2 Align the rail over the center of the operator head.
- 3 Be sure the flat on the sprocket lines up with the flat on the drive shaft.
- 4 Slide the sprocket onto the shaft
- 5 Attach the rail to the operator head by installing four 14-20 x 34" bolts.
- 6 Tighten the four bolts in the order shown with a 7/16'

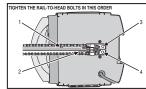


CHECKING THE DOOR BALANCE









3 Locate the Header Bracket Position

- 2 From inside the garage, use a pencil to mark the vertical centerline of the door on the header wall and on the top panel of the door.
- Examine the area above the center of the door on the door header wall for a header bracket mounting location.
- 4 Open the door to the high-rise point (the point where the top edge of the door is highest above the floor) and measure the distance to the floor.
- 5 Close the door and use a pencil to mark the header wall 1" above the measured high-rise point.
- ➤ NOTE: In some installations, the header bracket location will be higher than the door header. This will require adding a 2x4 (or larger) cross piece to the wall studs to provide a mounting location for the header bracket. Use lag screws (not supplied) to attach the 2x4 to the studs.
- 6 On doors with low headroom, the header bracket can be attached to the ceiling up to 6" back from the header wall (see next step).

Install the Header Bracket

Attaching the Header Bracket to the Wall 1 Hold the header bracket on the center line drawn above the door with the bottom edge of the bracket on

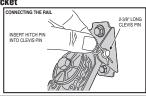
- the line marked above the high-rise point. 2 Use a pencil to mark the two bracket holes
- 3 Drill two 3/16" pilot holes about 2" deep.
- 4 Use a 1/2" socket to fasten the bracket with two 5/16" x 2" lag screws.

Attaching the Header Bracket to the Ceiling

- NOTE: On a finished ceiling, be sure there is a joist to fasten to under the sheetrock where the header bracket will be located (use a stud finder). If there is none, install a 2x4 cross piece between the two closest joists to fasten the header bracket onto.
- 1 Extend the center line drawn on the header wall along 2 Hold the bracket on the center line with the edge of the
- bracket no further than 6" from the header wall
- 3 Use a pencil to mark the two bracket holes. 4 Drill two 3/16" pilot holes about 2" deep.
- 5 Use a 1/2" socket to fasten the bracket with two 5/16" x 2" lag screws.

5 Connect the Rail to the Header Bracket

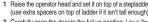
- Place assembled operator on the empty carton on the floor with rail towards the door.
- 2 Insert the end of the rail into header bracke
- 3 Insert the 5/16" x 2-3/8" clevis pin through header
- 4 Secure the clevis pin with the hitch pin



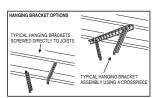
CENTERLINE OF DOOR

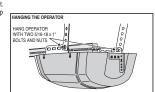
6 Hang the Operator

Installation requirements vary with garage construction. Hanging brackets should be angled to provide rigid support, Hanging material is not provided. Angle iron and lag screws are recommended, DO NOT USE NAILS. Following are typical operator hanging methods. Certai installations will require improvised methods.



- 2 Carefully open the door to the full up position. Lav a 2x4 carefully open the door to the third prosition. Lay a zx+ across the top section of the door as a spacer. Adjust the operator height until the rail touches the spacer. The rail should be close to level.
- 3 Center the operator head and rail with the centerline mark on the top of the door.
- 4 For finished ceilings only: An angle iron cross piece between the two closest joists above the operator will be required. Mark mounting hole locations, drill pilot holes and attach the piece with two lag screws (not supplied)
- 5 Measure the distance from each of the operator's hanging tabs to the ceiling joists or angle iron cross piece. 6 Cut two angle iron pieces to the required lengths for
- hanging brackets. Bend brackets if required. For unfinished ceilings: Hold each bracket in place and use a pencil to mark the locations where they will be attached to the joists, drill pilot holes and attach the
- pieces with two lag screws (not supplied). · For finished ceilings with an angle iron cross piece Attach the two hanging brackets to the cross piece with two bolts and two keps nuts (not supplied).
- 7 Attach operator to hanging brackets using two 5/16-18 x 1" hex bolts and two 5/16-18 keps nuts (supplied). Insert bolts from the inside of hanger brackets with the nuts or the outside of the operator. Tighten nuts with a ½" socket
- 8 Tighten all hanging hardware.
- 9 Open and close the door manually. The door should clear the rail by at least 1". 10 Attach the trolley's release lever to the red release
- handle with the cord supplied so the handle is at least 6 feet from the floor. Cut off any excess cord. 11 Remove the light cover to access the lamp socket Install a 100 watt <u>maximum</u> rough service in the lamp socket. Reattach the light cover

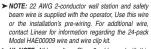




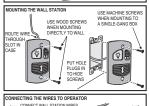
7 Install the Wall Station

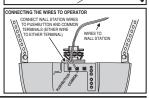
A WARNING A

Children operating or playing with a garage door operator can injure th door could cause serious injury or death. Do not allow children to operate the remote control(s) or the wall station. Install the wall station out of reach of children and away from all moving parts of the door. The door must be clearly visible from the wall station. A moving garage door could injure neone under it. Only activate the door when it is properly adjusted, when it can be seen clearly and when there are no obstructions to the door travel



- ➤ III NOTE: All low voltage Class 2 cable used with this operator must be UL Listed Type CL2, CL2P, CL2R, or CL2X or other cable with equivalent or better electrical mechanical, and flammability ratings.
- 1 Strip back 1/2" of insulation and connect a wire to each of the two terminals on the back of the wall station.
- 2 Use the screws provided to mount the wall station near an access door at a minimum height of five feet. SEE IMPORTANT WARNING ABOVE!
- 3 For non-prewired installations, route the wire to the back of the operator. Use insulated staples (not supplied) to secure the wire. Staples must straddle both wires to avoid electrical shorts.
- 4 Cut the wall station wire about 6" longer than needed to reach the operator terminals. Strip back 1/2" of insulation.
- 5 Connect either wire to the operator's PUSHBUTTON terminal and the other wire to the operator's COMMON
- 6 Apply the User Safety Instruction Label to the wall next to the wall station. Use staples or tacks to help the label remain in place over time.
- ➤ IMPORTANT! DO NOT PLUG THE OPERATOR IN AT THIS TIME! More installation is required





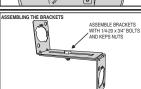
8 Install the Safety Beam A WARNING A

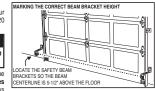
Persons, particularly children, could be killed by a closing garage door without a properly installed and adjusted safety beam optica bstacle sensing system.

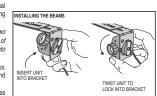
- ➤ NOTE: The safety beam's infrared light beam must not he obstructed by the door, or by any part of the door hardware. Use wooden spacers between the beam brackets and wall if necessary to create prope
- 1 Assemble the two safety beam brackets from the four keps nuts (one nut & bolt for each bracket).

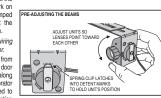
A WARNING A To protect small children, do not install th fety beam higher or lower than instructed.

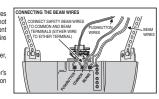
- 2 Position the assembled brackets on each side of the door so the center line of the safety beam lenses will be 5-1/2" above the floor. Use the index marks on the brackets to make the bracket assemblies equal lengths. Mark the locations for the bracket mounting
- NOTE: The safety beam receiver (the unit with two indicators) should be located on the "shady" side of the door to prevent sunlight from shining directly into the receiver's lens.
- 3 Drill two 3/16" pilot holes for lag screws at marks Mount the brackets with two ¼" x 1-¼" lag screws and tighten with a 7/16" socket.
- 4 Insert the sender and receiver into the bracket holes so the lenses of the units will face each other. Twist the units until the spring clips lock into a detent mark on the brackets. To protect the units from being humped after installation, it is recommended to mount sender and receiver inside the brackets as shown.
- ➤ IMPORTANT: Be careful to route the safety beam wiring away from any moving parts of the door or operator.
- 5 For non-prewired installations, route the wires from the sender and receiver up the wall above the door hardware, then over to the center of the door, then along the top of the rail (or ceiling), and back to the operator head. Cut the wires about 6" longer than needed to reach the operator terminals. Strip back 1/2" of insulation from the ends of the wires.
- 6 For non-prewired installations, secure all the wires to the wall and ceiling with insulated staples (not supplied). Staples must straddle both wires to prevent shorts. Secure the wire to the top of the rail with wire clips (supplied).
- 7 At the operator, twist one wire from each pair together, then twist the other wire from each pair togethe
- 8 Attach either twisted connection to the operator's BEAM terminal. Connect the other twisted connection o the operator's COMMON te









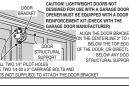


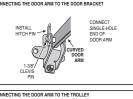
Install the Door Bracket and Door Arm

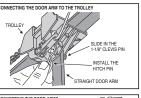
- Fully close the door. Hold the door bracket against the inside of the door's top panel. Align the top edge of the bracket 2" to 4" below the top edge of the door; or, if there is a structural support across the top of the doo place the top edge of the bracket directly below the support. Align the vertical centerline drawn on the door with the center of the bracket. See the figure for details Mark the left and right holes of the bracket
- 2 Drill 1/4" holes at marks and insert two 1/4-20 x 2" carriage bolts (not supplied) from outside of door through the
- 3 Secure door bracket with two 14-20 keps nuts (not supplied). Tighten with a 7/16" socket.
- 4 Slide the 5/16" x 1-3/8" clevis pin through one hole on door bracket; then the single hole on the curved door arm: then through the other hole on the door bracket. Secure the clevis pin with the hitch pin.
- 5 Insert the single hole end of the straight door arm into the slot in the trolley. Slide the 1-1/8" clevis pin through the hole and secure it with a hitch pin.
- 6 Flip the trolley release lever to disconnect the trolley. 7 Rotate the curved door arm upward to meet the straight door arm connected to the trolley. Align the two door arms so that the holes in both arms overlap
- ➤ NOTE: The straight door arm should be slightly angled toward the operator head

CONNECTING DOOR ARMS

1 Line up door arms until trolley is positioned as shown Connect the arms together using two 5/16-18 x 1"bolts inserted in the highest and lowest matching holes, secure the bolts with two 5/16" keps nuts, tighten with









10 Connect the Operator to Power Source

A WARNING A To prevent electrocution or fire, installation

and wiring must be in compliance with loca electrical and building codes.

Cord and Outlet Connection

receptacle on the ceiling or near the operator head. If none is available which will accept the grounded operator plug, one should be installed by a qualified electrician. **Do** not use an extension cord.

Plug the operator into a grounded receptacle.

2 When the operator is plugged in, a click should sound in the operator and the light should turn on. If light does not turn on, check the power source and light bulb.

electrician to install the proper outlet. Do not change the plug in any way.

A WARNING A

To reduce the risk of electric shock, this

operator has a grounding pin. This plug will only fit into a grounding type outlet. If the plug

doesn't fit into the outlet, contact a qualified

Permanent Wiring

operator.

SOME LOCAL ELECTRICAL CODES REQUIRE PERMANENT WIRING BETWEEN THE OPERATOR AND THE POWER SOURCE THROUGH A CONDUIT IT IS RECOMMENDED THAT YOU HAVE A LICENSED ELECTRICAL CONTRACTOR FOLLOW THESE STEPS ONLY IF PERMANENT WIRING IS REQUIRED.

- 1 BE SURE POWER CORD IS UNPLUGGED.
- 2 Cut the power cord about 2" above the strain relief bushing on the operator. 3 Remove the four side screws and bottom cover of
- 4 Use pliers to remove the strain relief bushing and discard the bushing. 5 Remove the outer insulation from the power cord and
- strip the white, black, and green wire insulation back 6 Pull white (neutral), black (hot) and green (ground)
- wires through conduit. 7 Connect the conduit to the operator with the appropriate
- 8 Use wire nuts (not supplied) to connect the wires to the matching color wires inside operator head. 9 Secure the wires away from all moving parts with a
- 10 Replace the operator cover and the four side screws. 11 Connect the conduit wires to the power source at junction box
- 12 When power is applied to the operator, a click should sound and the light should turn on. If the light does not turn on, check the power source, wiring, and light





FOR PERMANENT WIRING ONLY!

For more information, please visit www.devancocanada.com or call toll free at 855-931-3334

11 Aligning the Infrared Safety Beam

The safety beam has two components, a sender and a receiver. The sender produces a narrow infrared beam that travels across the bottom of the door opening to the infrared receiver. If an object blocks the infrared beam while the door is closing, the door will stop, then reverse and fully open (the operator's light will flash three times).

As a safety feature, the operator will ignore signals from all remote controls if the door is open and the infrared safety beam is blocked or out of alignment. In this case, the door can be forced closed by pressing and holding the wall station's up/down arrow pushbutton (be sure the door area is in clear view)

A WARNING A

With the door closed, disengage the trolley from the chain or belt during these alignment tests by pulling the red release handle.

Safety Ream Test

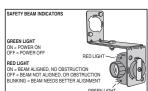
- Check that the operator has power. The green lights on the sender and receiver should be lit.
- 2 If the receiver's green light is on, but the red light is off, the receiver has power but is not detecting the infrared beam from the sender. The red light might flash when the beam is partially detected. This can be caused by mis-alignment or something blocking the beam. Adjust the safety beam sender and receiver while watching the receiver's red light (stay out of the beam walching the lecever's real agint loady of the beath while aligning it). When the red light stays on, rotate the sender towards the ceiling and stop when the red light on the receiver begins to flicker. Rotate the sender back towards a horizontal position with the floor and stop as soon as the red light on the receiver lights solid. The beam is now properly aligned.

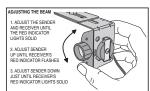
SAFETY BEAM INDICATOR TABLE				
GREEN ON	POWER ON			
GREEN OFF	POWER OFF			
RED ON	BEAM OK - NO BLOCKAGE			
RED OFF	BEAM BLOCKED OR MIS-ALIGNED			
RED FLASHING	BEAM ALIGNED POORLY			

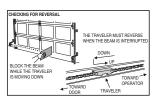
- ➤ NOTE: If the receiver's red light remains off, check for: 1) Dirt on the receiver's lens, 2) Sunlight shining into the receiver's lens, 3) A short in the safety beam wiring (from staples or at the operator terminals)
- 3 With the door closed and the operator disengaged from the door, press the wall station's UP/DOWN ARROW button to move the traveler (the part on the belt or chain that the trolley engages with) to the up position (away from the door). NOTE: Do not cycle the operator to full travel without the door connected.
- 4 Push the wall station's UP/DOWN ARROW button again. While the traveler is moving to the down position (toward the door), block the safety beam, THETRAVELER MUST STOP, THEN REVERSE TO THE UP POSITION. The operator's light and red light should flash three times.
- 5 Place an object in the path of the safety beam. Check that constant pressure is required on the wall station's UP/DOWN ARROW button to cause the traveler to move toward the down position. Release the pushbutton before the operator stops; check that the traveler returns to the up position.
- ➤ NOTE: The garage door operator will not respond to a CLOSE command from a radio transmitter if the safety beam is blocked.
- 6 To reconnect the operator, flip the release lever up Raise the door manually until the operator reconnects.
- ➤ NOTE: If the door remains idle for 5 minutes, the beam light will turn off to save power. The beam power turns on for 5 minutes when door moves down to the fully closed position. The beam power can be restored for 5 minutes by pressing the light button.

A WARNING A

Serious injury or death from a closing garage door may result because of failure to test and adjust safety reverse system. Repeat this test









REMOTE MUST BE ENTE WHILE RED LIGHT IS ON

THE OPERATOR'S LIGHT AND LIGHT WILL FLASH ONCE IF

12 Remote Controls

The operator is supplied with a three-button remote control (the second and third buttons can be used to control an The operator is appeared with a directional reflection of the control of the cont

2 THE RED LIGHT WIL

the wire or the remote controls will not operate well.

A WARNING A Children operating or playing with a garage door operator can injure themselves or others. The garage door could cause serious injury of death. Do not allow children to operate the remote control(s) or the wall station. A moving garage door could injure or kill someone under it. Activate the control wall of the countrol of the wall station. A moving garage door could injure or kill someone under it. Activate he operator only when the door is clearly visible free of obstructions and adjusted properly.

To Add or Remove a Remote Control

if a remote was removed

- Press the operator's LEARN button. The operator's light and red light will flash once and turn on for about 15 seconds. A remote must be added or removed while the red light is still on.
- 2 Send a signal from a remote. The operator's light and the red light will flash once if a remote was added, or the opener's light and the red light will flash four times
- 3 Repeat Steps 1 & 2 for any additional remote controls.
- To Remove All Remote Controls
- 1 Press and hold the operator's LEARN button for ten REMOVING ALL REMOTE seconds or more 2 Release the LEARN button. The red light and
- operator's light will blink three times signaling that all of the remotes in the operator's memory were erased. The red light will turn off, then turn on for 15 seconds. A remote control can be entered during this time using the steps above.

- Testing

 1 Before testing the remote control, straighten out the operator's antenna wire so it points up.
- 2 Stand clear of the door, press the remote control's button and verify that the operator starts. PRESSTHE REMOTE CONTROL'S BUTTON AGAIN TO STOP THE DOOR MID-TRAVEL.

Replacing a Remote Control's Batteries When the red light on the remote glows dimly, or fails to light at

all when the remote is activated, the batteries need replacing.

1 Open the remote's case and remove the circuit board.

- 2 Replace old batteries with two Type 2032 batteries.
- 3 Re-assemble the remote.

13 Adjusting the Open and Close Limits

The limit settings control how far the door will open and close. Set the limits so the door opens just short of any door stops, and closes at the floor level. Out of the box, the operator is preset on its close limit and the open limit is preset for a 7-foot high door.

Use the wall station or a transmitter to test operate the door. If required, use the following steps to adjust the

Adjusting the Open Limit

- 1 Use the wall station or a transmitter to move the door to the open limit position.
- 2 Press both the UP and LEARN buttons for three seconds. The green indicator and operator's light will flash twice then stay on.
- 3 If necessary, use the UP and DOWN buttons to jog the door at slow speed to fine-tune the open limit position
- 4 When the door is at the proper open limit position, press the LEARN button to store the setting and exit setup. The green indicator and the operator's light will flash two times.

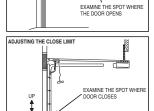
Adjusting the Close Limit

- Use the wall station or a transmitter to move the door to the close limit position.
- 2 Press both the DOWN and LEARN buttons for three seconds. The red indicator and operator's light will flash twice then stay on.
- 3 If necessary, use the UP and DOWN buttons to jog the door at slow speed to fine-tune the close limit position
- 4 When the door is at the proper close limit position, press the LEARN button to store the setting and exit setup. The red indicator and the operator's light will flash two times.
- NOTE: If the operator is field reset per Section 19, both the open and close limits must be adjusted and the automatic door force setup must be completed for proper operation.

A CAUTION A

Set the open and close limits carefully. Set the limits beyond the distance that the doo door hardware, or operator.

DOWN ◆→► UP



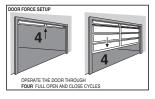
14 Automatic Door Force Setup

The operator automatically measures the door force throughout the entire travel of the door each time the operator cycles. The following steps are all that's required to setup the safety reversal system Automatic Door Force Setup

- Be sure that the trolley latch is up and the door is connected to the operator.
- 2 Operate the door through four complete open and close cycles.

A CAUTION A

Do not cycle the operator full travel without the door connected. The automatic door force setting will adjust to the unloaded condition nd may trip the safety system when the doo



15 Safety Reversal System Test

The operator determines that there is an obstruction if a higher than expected amount of force is detected during a door cycle. If an obstruction is encountered during a closing cycle, the operator and door will stop then fully open. I an obstruction is encountered during an opening cycle, the operator and door will stop

Safety Reversal System Test 1 Lay a 2 x 4 board flat on the floor where it will be struck

by the center of the door as it closes. 2 Verify that the door reverses when it strikes the board. The door must reverse within two seconds after





16 Adjusting the Force Factor (Installation Option, Normally Not Used)

The operator uses the peak force measured during each of the last four complete cycles plus a "force factor" to calculate the maximum allowed force setting for the current door cycle. If the calculated maximum force setting is exceeded during the current door cycle, the operator reacts to the obstruction. As door hardware conditions change over time with weather and wear, the calculation of the maximum door force setting using the four cycle running average will compensate for the current conditions of the installation.

The door force is preset for the lowest amount of pressure on an obstacle to detect an obstruction. THE FACTORY SETTING IS OPTIMIZED FOR MOST INSTALLATIONS

Changing the Force Factor Setting

- As an installation ontion, the operator's "force factor" can be adjusted to change the amount of pressure exerted on an obstacle before the operator reacts to the obstruction.
- 1 Press both the UP and DOWN buttons for three seconds. The red and green indicators and operator's
- 2 Use the UP or DOWN buttons to set the force factor Pressing the UP button *increases* the force factor, pressing the DOWN button *decreases* the force factor.

	FORCE F	FORCE FACTOR INDICATOR TABLE		
	GREEN ON	LOW FORCE FACTOR		
	RED & GREEN ON	MEDIUM FORCE FACTOR		
	RED ON	HIGH FORCE FACTOR		
3		force factor, press the L		

- LEARN button to store the setting and exit setup. The red and green indicators and the operator's light will flash two times. (If the force factor is not set within one minute, the operator will return to normal operation at its previous force factor setting.)
- 4 After changing the force factor setting, perform the Safety System Reversal Test.

17 Using the Garage Door Operator

IMPORTANT USER SAFETY INSTRUCTIONS

A WARNING A

A MOVING GARAGE DOOR CAN CAUSE INJURY OR DEATH! TO REDUCE THE RISK OF DEATH OR SEVERE INJURY:

- READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS.
- NEVER LET CHILDREN OPERATE. OR PLAY WITH DOOR CONTROLS! KEEP REMOTE CONTROL AWAY FROM CHILDREN!
- Always keep moving door in sight and away from people and objects until it is completely close NO ONE SHOULD CROSS THE PATH OF THE MOVING DOOR.
- NEVER GO UNDER A STOPPED, PARTIALLY OPEN DOOR.
- Test door operator monthly. The garage door MUST reverse on contact with a 1-1/2 inch object (or a 2x4 board laid flat at the center of the door) on the floor. If adjusting either the force or the limit of travel re-test the door operator. Failure to adjust the operator properly may cause severe injury or death.
- If possible, use the red emergency release handle only when the door is closed. Use caution whe using this release with the door open. Weak or broken springs may cause the door to fall rapidly
- KEEP GARAGE DOORS PROPERLY BALANCED. (See Garage Door Operator Maintenance) Ar improperly balanced door could cause severe injury or death. Have a qualified service person make repairs to cables, spring assembly and other hardy

SAVE THESE INSTRUCTIONS.

Opening the Door

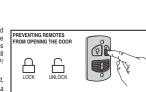
- 1 With the door in view, press the wall station's UP/ DOWN ARROW button or the button assigned to the operator on the remote control, or enter a valid access code and press START/STOP on a remote keypad.
- 2 When the operator is activated, the operator's light will turn on and the door will begin to open.
- 3 The door will open until the open limit is reached. If an obstacle is encountered (operator's light flashes four times) while the door is opening, the door will stop.
- 4 The operator's light will stay on for about five minutes

Closing the Door

- 1 With the door in view, press the wall station's UP/ DOWN ARROW button or the button assigned to the operator on the remote control, or enter a valid access code and press START/STOP on a remote keypad. 2 When the operator is activated, the operator's light will
- turn on and the door will begin to close. 3 The door will close until the close limit is reached. If an
- obstacle is encountered (operator's light flashes four times), or the safety beam is interrupted (operator's ight flashes three times) during closing, the door will stop, then re-open.
- 4 The operator's light will stay on for about five minutes

Stopping the Door Mid-travel

- The door can be stopped immediately at any time by pressing the wall station's UP/DOWN ARROW button, the remote control's pushbutton, or press the START/STOP button on a remote keypad (if the remote keypad was used to start the door)
- 2 The next time the operator is activated, the door will move in the opposite direction.



REMOTE CONTROL

HE DOOR CAN BE STOP

B

Vacation Lock for Additional Security 1 Slide the wall station's LOCK switch to the locked

- position to prevent remote controls from opening the door after the door is completely closed. The remotes can close the door, but not open it. The door can still be opened or closed by using the wall station's UP. DOWN ARROW pushbutton.
- NOTE: To signal that the vacation switch is locked, the operator's light and red light will flash five times if a remote is activated in an attempt to open the door.
- 2 Slide the wall station's LOCK switch to the unlocked position to return the operator to normal operation.

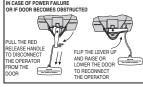
Controlling the Operator's Light

- The operator's light can be lit by pushing the wall station's LIGHT button. The light will remain on until the LIGHT button is pressed again or the operator is
- 2 If the operator's light is on, pushing the wall station's LIGHT button will turn the operator's light off.

rie l V

connecting the Door from the Operator

- 1 With the door in any position (preferably closed) carefully null the red release handle USE CAUTION IF THE DOOR IS OPEN, THE DOOR MAY DROP.
- 2 The disconnected door can be opened or closed
- 3 To re-connect the operator flip the release lever up Raise or lower the door manually until the operator



18 Garage Door Operator Maintenance

Weather conditions may affect the door operation which could require some re-setting of the operator's adjustments Doors may swell and become heavier during wet periods, door hinges and rollers might bind during cold periods. To insure safe operation of the door, perform the following tests, including any additional test steps described

 With the door closed, pull the red release handle to disconnect the operator from the door

- 2 From outside the garage, slowly open the door manually all the way, and then close it all the way. Notice if there is any binding, sticking or rubbing. The door should move smoothly in both directions.
- 3 Raise the garage door about halfway up. Carefully release the door and see if the door balances. It should stay in place. Close the door.
- ➤ NOTE: If the garage door is unbalanced or the door travel isn't smooth, have a qualified garage door professional adjust or repair the door.
- 4 To reconnect the operator, flip the release lever up and run the operator.
- 5 Perform the Safety Beam Test (Section 11).
- 6 Perform the Safety Reversal System Test as described in Section 15.

After Servicing the Operator Perform the Safety Beam Test (Section 11).

- 2 Perform the Open and Close Limit Adjustments (Section 13).
- 3 Perform the Safety Reversal System Test (Section 15).

Every 6 Months

- Check the belt or chain tension.

 For belt-drive rails, examine the length of the tension spring in the traveler. It should be about 1" long.
- For chain-drive rails, examine the spacing bety the turnbuckle and the rail. The turnbuckle should be slightly above the rail
- NOTE: Too much or too little chain tension will cause

Chain Adjustment

- If necessary, use the following steps to adjust the chain. I Hold the turnbuckle with a flat blade screwdriver and loosen the two locknuts with a 7/16" end wrench.
- 2 Twist the turnbuckle to adjust the chain tension. Adjust the chain until the turnbuckle is sightly above the rail. 3 Hold the turnbuckle with a flat blade screwdriver and

tighten the two locknuts with a 7/16" end wrench. Belt Adjustment

The tension spring in the traveler keeps the belt taut. The factory setting for the tension spring length is .9" long. If the tension spring is longer than 1", adjust the belt. 1 Hold the traveler so the adjustment wheel is visible

through the large slot. 2 Use a flat blade screwdriver to turn the adjustment wheel to compress the tension spring until its length is between .9" and 1" long.

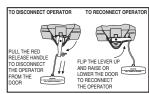
Check the door hardware for lubrication needs. Lubricate door hinges, rollers and bearings according to doo manufacturer's recommended procedures.

- 19 Field Reset In installations where the door spring, door, or hardware is being replaced, and the operator was already programmed for the old door, reset the operator's settings using the following steps.
- 1 Press and hold down the UP, DOWN, and LEARN buttons at the same time for ten seconds. The red and green indicators and the operator's light will flash

Garage door hardware (springs, cables brackets, pulleys, etc.) are under extreme pressure and tension. DO NOT ATTEMPT TO LOOSEN. TIGHTEN OR ADJUST ANY DOO HARDWARE. CALL A QUALIFIED GARAGE DOOR INSTALLATION PROFESSIONAL!

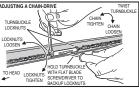
A WARNING A

operator's internal door force sensor will no function properly on an unbalanced door. Ris of serious injury or death may result.



A WARNING A

adjustments to the operator.

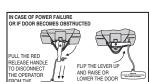




- 2 Release the buttons The operator will reset force settings and erase all set limits, but will still retain all programmed transmitters in memory.
- 3 AFTER PERFORMING A FIELD RESET, BOTH THE OPEN AND CLOSE LIMITS MUST BE ADJUSTED AND THE AUTOMATIC DOOR FORCE SETUP COMPLETED BEFORE THE OPENER WILL

20 Troubleshooting						
LAMP FLASHES TROUBLE CODE	PROBLEM	CAUSE	REMEDY			
1 FLASH	No problem	Remote control entered into memory	Add any additional remote controls (MegaCode™ type only)			
2 FLASHES	Door won't close	Shorted wall station wires	Check wall station wires. Be sure both are connected to the terminal screws. Check for a staple in the wall station wires. Remove any staples compressing the wire.			
3 FLASHES	Door won't close	Safety beam obstacle	Check for obstacles. Align the safety beam (Section 11)			
4 FLASHES	Door reverses or won't open or close	Open or Close force exceeded	Check for obstruction or binding of garage door. Perform field reset (Section 19) if necessary.			
5 FLASHES	Door won't open from transmitter	Remote was activated while vacation switch was locked	Unlock vacation switch on wall station			
6 FLASHES Motor ran longer than 30 seconds Me		Mechanical or electronic failure	Call Technical Services Group for assistance			
7 FLASHES	Limit error	Encoder has detected error or	Re-set the open and close limits. If error			

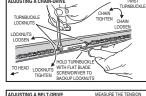
LIMITED WARRANTY

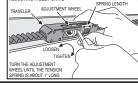


The garage door operator must not be installed and used on an unbalanced door. The



Always perform the Safety Reversal System Test (see Section 15) after making an





20 Troublookseting

FCC NOTICE

ELECTRONICS MOTOR Lifetime CHAIN

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