

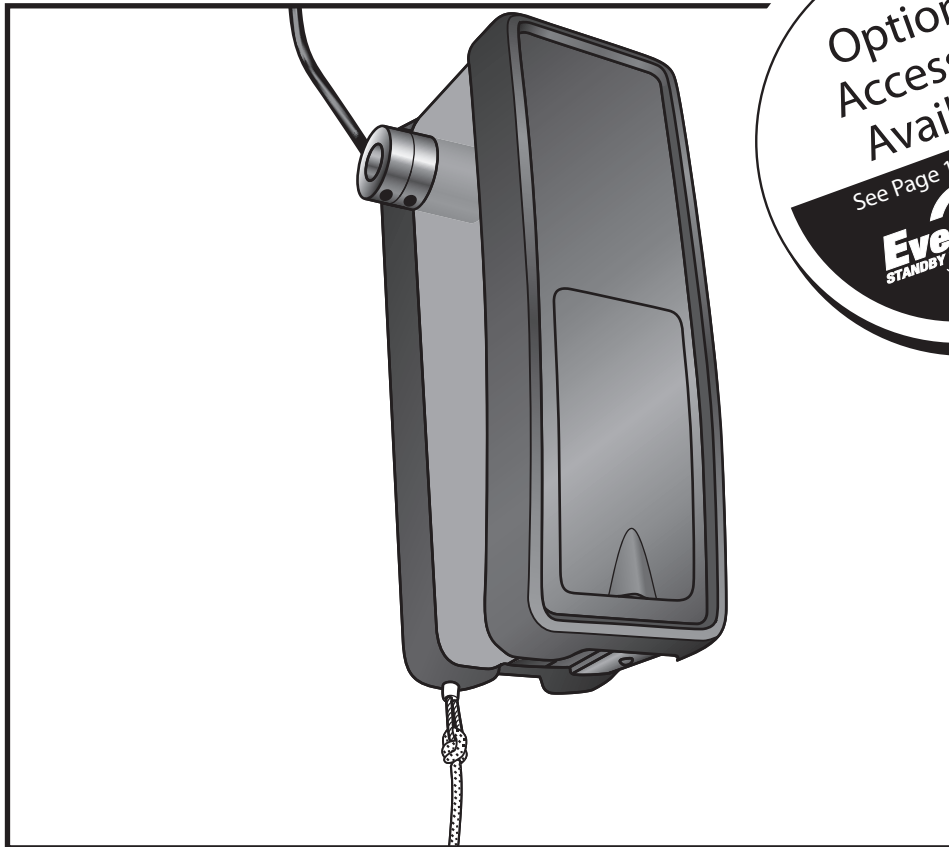
CHAMBERLAIN™

GRIFCO

INSTRUCTION MANUAL

Model CG3800

Light Duty Commercial Door Operator



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INTRODUCTION

Safety Symbol Review and Signal Word Review

This door operator has been designed and tested to offer safe service provided it is installed, operated, maintained and tested in strict accordance with the instructions and warnings contained in this manual.

⚠ WARNING

Mechanical

⚠ WARNING

Electrical

CAUTION

When you see these Safety Symbols and Signal Words on the following pages, they will alert you to the possibility of **serious injury or death** if you do not comply with the warnings that accompany them. The hazard may come from something mechanical or from electric shock. Read the warnings carefully.

When you see this Signal Word on the following pages, it will alert you to the possibility of damage to your door and/or the door operator if you do not comply with the cautionary statements that accompany it. Read them carefully.

Planning

Survey the area to see if any of the conditions below apply to your installation. Additional materials may be required. You may find it helpful to refer back to this page as you proceed with the installation of your operator.

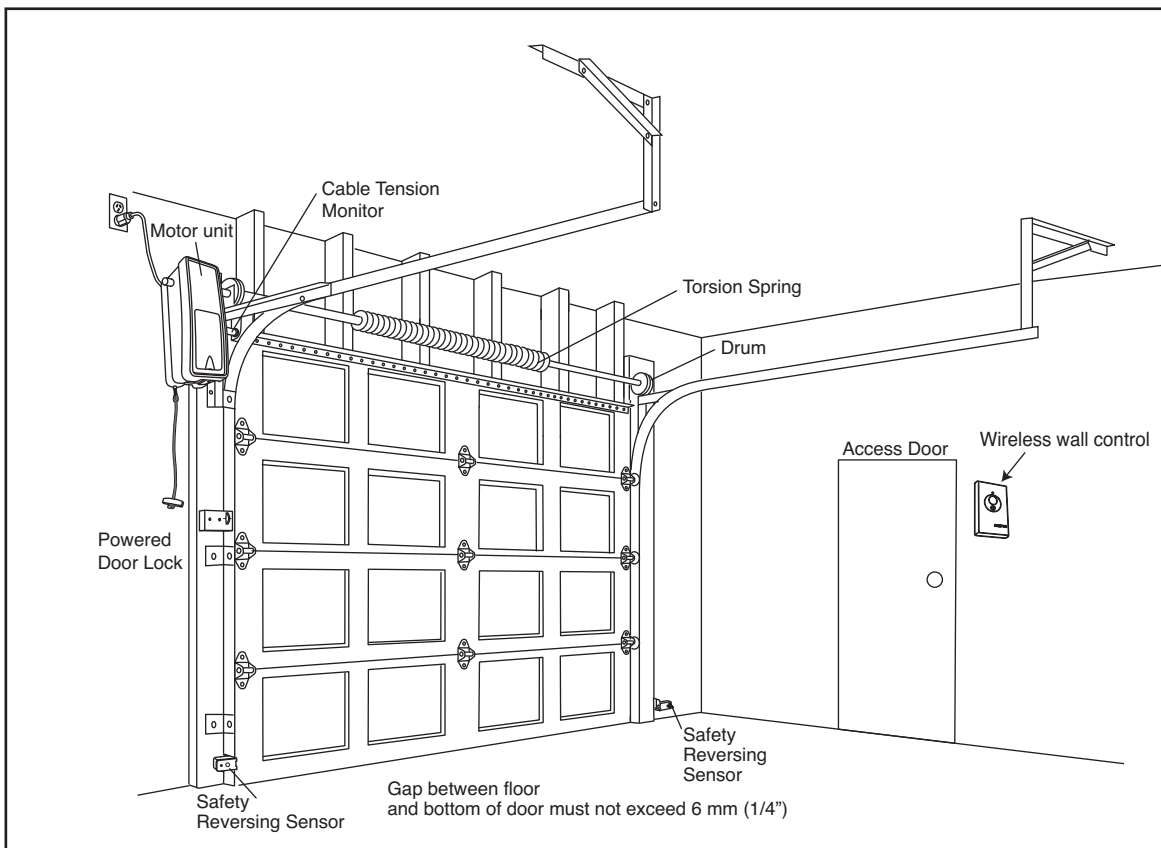
Depending on your requirements, there are several installation steps which may call for materials or hardware not included in the carton.

This operator is compatible with:

- Doors that use a torsion bar, springs and a door no more than 3.8m (12.5') high.
- 100mm - 150mm drums (4" to 6") , **NOT TO BE USED** on tapered drums over 150mm (6").
- High lift and standard lift sectional doors up to 3.8m (12.5') high.
- Doors up to 5.5m (18') wide.
- Doors up to 16m² (170 sq ft)
- 25mm (1") torsion bar only.
- Review or inspect proposed installation area. Opener can be installed on left or right side of door. Select the side that meets the requirements listed below.
- Must have minimum of 64mm (2 1/2") between the wall and the center of the torsion bar.
- Must have minimum of 76mm (3") between the ceiling and the center of torsion bar.
- Must have minimum of 203mm (8") between the side wall (or obstruction) and the end of torsion bar.

- The torsion bar must extend at least 25mm to 100mm (1" to 4") past the bearing plate.
- An electric outlet is required within 1.8m (6') of the installation area. If outlet does not exist, contact a qualified electrician.
- Depending upon building's construction, extension brackets or wood blocks may be needed to install safety reversing sensors.
- A model CM475 EverCharge™ Standby Power Unit (SPU) is strongly recommended if there is no access door to the building, as this operator cannot be used in conjunction with an external emergency release mechanism.
- Any gap between the floor and the bottom of the door must not exceed 6mm (1/4"). Otherwise the safety reversal system may not work properly.

NOTE: *Inspect the torsion bar while the door is raised and lowered. It is important that there is no noticeable movement up and down or left and right. If this type of movement is not corrected, life of this operator will be greatly reduced.*



Preparing your Door

Before you begin:

- Disable locks.
- Remove any ropes connected to door.
- **Complete the following test** to make sure your door is balanced and is not sticking or binding:

1. Lift the door about halfway as shown. Release the door. If balanced, it should stay in place, supported entirely by its springs.
2. Raise and lower the door to see if there is any binding or sticking.

IF YOUR DOOR BINDS, STICKS OR IS OUT OF BALANCE, CALL A TRAINED DOOR SYSTEMS TECHNICIAN.

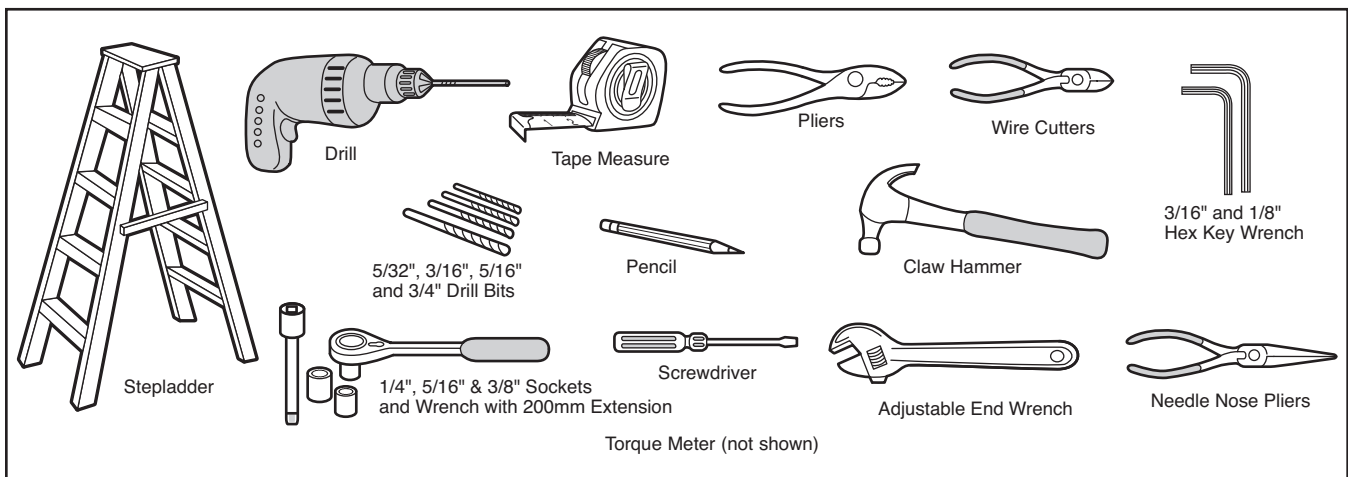
3. Verify equal cable tension on each side of door. Cable tension should remain equal during the entire travel of the door.
4. The installer is to ensure that the temperature range is suitable for the installation.



Sectional Door

Tools needed

During assembly, installation and adjustment of the operator, instructions will call for hand tools as illustrated below.



⚠ WARNING

To prevent possible **SERIOUS INJURY** or **DEATH**:

- **ALWAYS** call a trained door systems technician if door binds, sticks or is out of balance. An unbalanced door may not reverse when required.
- **NEVER** try to loosen, move or adjust door, door springs, cables, pulleys, brackets or their hardware, **ALL** of which are under **EXTREME** tension.
- Disable **ALL** locks and remove **ALL** ropes connected to the door **BEFORE** installing and operating the door operator to avoid entanglement.
- This device is not intended for use by small children or infirmed persons without supervision.
- young children should **NOT** be permitted to play with the operator or remote controls.

CAUTION

To prevent damage to door and operator:

- **ALWAYS** disable locks **BEFORE** installing and operating the operator.

Specifications

Volts: 230-240 ~ V 50 Hz

Current: 145 Watts

Rated Load: 10Nm

Fmax: 40Nm

Max door height: 3.8m (12.5'),

Max door width: 5.5m

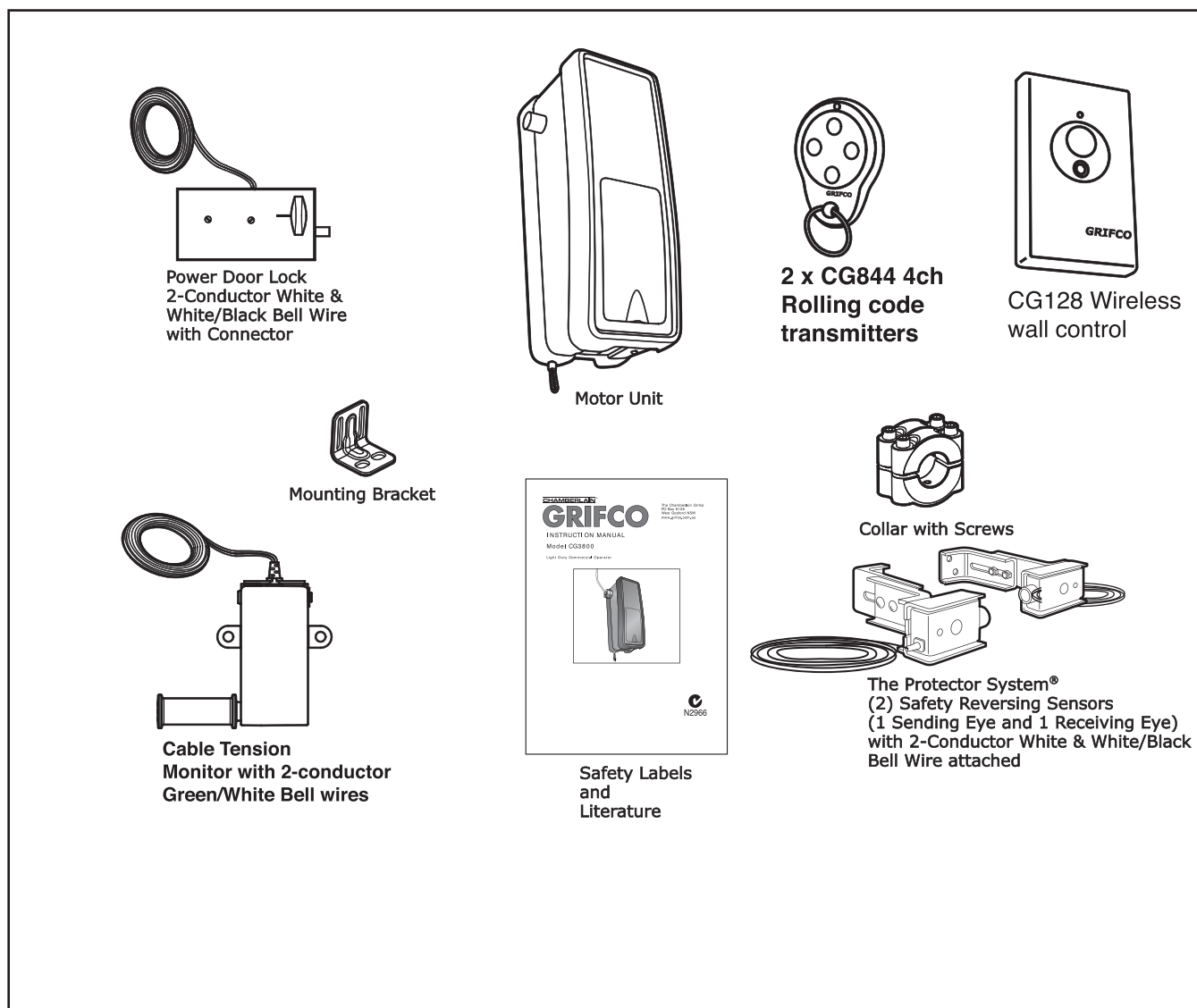
Max: area 16m²

Temperature range: 50° C To 40° C

Please note hardware accessories are supplied directly from Chamberlain USA, therefore Tools and Drills are often stated in imperial measures.

Carton Inventory

Your door operator is packaged in one carton which contains the motor unit and the parts illustrated below. Note that accessories will depend on the model purchased. If anything is missing, carefully check the packing material.



Hardware Inventory INSTALLATION HARDWARE

Hex Screw #14-10x1-7/8" (4)
Screw #6x-1" (2)
Hex Screw #6x1-1/4" (2)
Carriage Bolt 1/4"-20x1/2" (2)
Pan Head Screw 1/4"-20x1/2" (2)
Hex Head Screw #8x1" (2)
Self Tapping Screw #10-32 (2)
Wall Anchor (2)
Wall Anchor (Screw-In) (2)
Handle
Rope
Lock Template

PROTECTOR SYSTEM (IR) INSTALLATION HARDWARE

Screw 10-32x3/8" (4)
Carriage Bolt 1/4"-20x1/2" (4)
Wing Nut 1/4"-20 (2)
Hex Nut 10-32x3/8" (4)
Hex Nut 1/4-20 (4)
Hex Head Screw 1/4-20x1-1/2" (2)
Hex Head Screw 14-10 x 1-1/2" (4)
Insulated Staple (20)

ASSEMBLY STEP 1

Attach the Collar to the Motor Unit

To avoid installation difficulties, do not run the door operator until instructed to do so.

- Loosen the collar screws.
- Attach collar to either the left or the right side of the motor unit. Ensure that the collar is seated all the way on motor shaft until stop is reached (Figure 1).
- Position the collar so that the screws are facing up (accessible when attached to the torsion bar).
- Tighten both sides of collar screws equally to secure collar to the motor unit (16Nm-19Nm . of torque) (Figure 2).

NOTE: For most installations the screws should be facing up for easy access. Do not tighten set screws until indicated.

⚠ WARNING

To prevent possible **SERIOUS INJURY** or **DEATH**, the collar **MUST** be properly tightened. The door may not reverse correctly or limits may be lost due to collar slip.

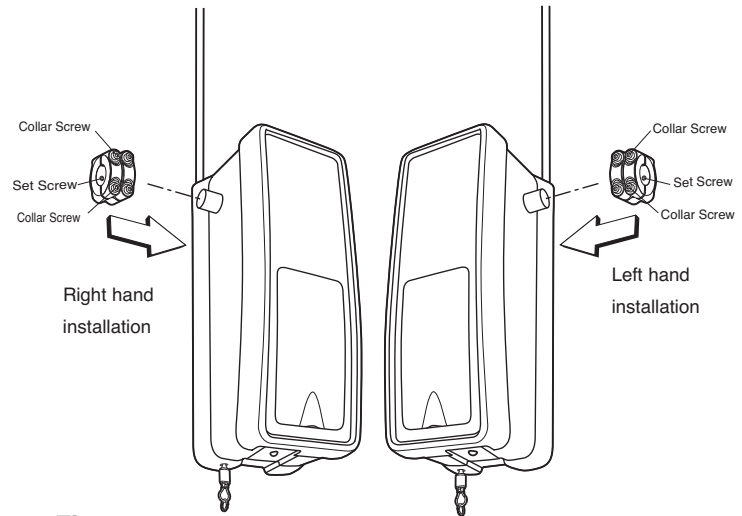


Figure 1

ASSEMBLY STEP 2

Attach Mounting Bracket to Motor Unit

- Loosely attach slotted side of mounting bracket to the same side of the motor unit as the collar, using self-threading screws provided.

NOTE: Do not tighten until instructed. Illustrations shown are for left side installation.

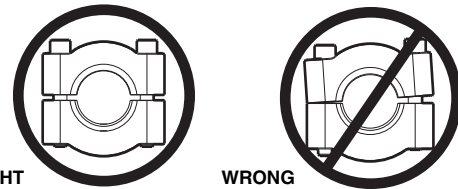
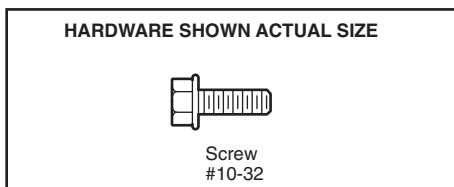
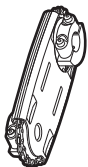


Figure 2

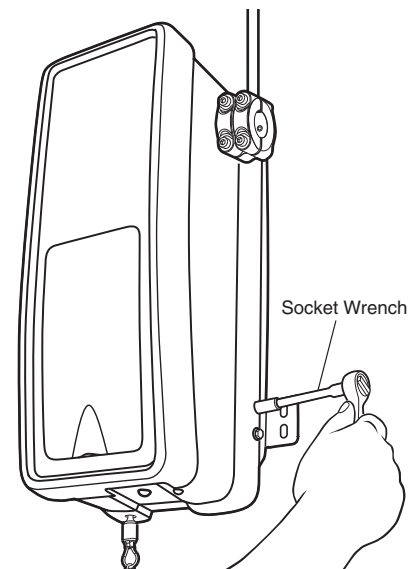


Alternate Mounting Kit (NOT SUPPLIED):



CG480

This kit allows model CG3800 to be mounted below the torsion bar in the case where the torsion bar is not round or the normal mounting area is obstructed.



INSTALLATION

IMPORTANT INSTALLATION INSTRUCTIONS

WARNING

To reduce the risk of **SEVERE INJURY** or **DEATH**:

1. READ AND FOLLOW ALL INSTALLATION WARNINGS AND INSTRUCTIONS.
2. Install door operator ONLY on properly balanced and lubricated the door. An improperly balanced door may not reverse when required and could result in SEVERE INJURY or DEATH.
3. ALL repairs to cables, spring assemblies and other hardware MUST be made by a trained door systems technician BEFORE installing operator.
4. Disable ALL locks and remove ALL ropes connected to the door BEFORE installing operator to avoid entanglement.
5. Mount emergency release handle no higher than 1.8m above floor.
6. NEVER connect the door operator to power source until instructed to do so.
7. NEVER wear watches, rings or loose clothing while installing or servicing operator. They could be caught in the door or operator mechanisms.
8. Install wall-mounted door control:
 - within sight of the door.
 - out of reach of children at minimum operator of 1.5 m.
 - away from ALL moving parts of the door.
9. Place entrapment warning label on wall next to door control.
10. Place manual release/safety reverse test label in plain view on inside of the door.
11. Upon completion of installation, test safety reversal system. Door MUST reverse on contact with a 40mm (1 1/2") high object (or a 2x4 laid flat) on the floor.

INSTALLATION STEP 1

Position the Opener

NOTE: For additional mounting options see accessories page.

1. Close the door completely.
2. Slide the operator with collar over the end of the torsion bar. Ensure that the collar does not touch the bearing plate. Check to make sure the mounting bracket is located on a solid surface such as wood, concrete or door/flag bracket. Snug collar screws to help assure proper alignment of operator. Mark the bracket holes. It may be necessary to cut the torsion bar if it is too long or damaged.
3. Loosen collar screws from torsion bar and remove the operator. Drill 5mm (3/16") pilot holes at the marked locations. Drill through steel plate if needed.
4. Reinstall the operator by sliding the collar over the torsion bar until pilot holes align with bracket. Securely tighten collar screws that attach to the torsion bar to 16Nm-19Nm of torque. Securely tighten both set screws firmly, without damaging the motor unit.
5. Fasten bracket securely with 14-10x1-7/8" screws. Tighten all mounting bracket hardware.

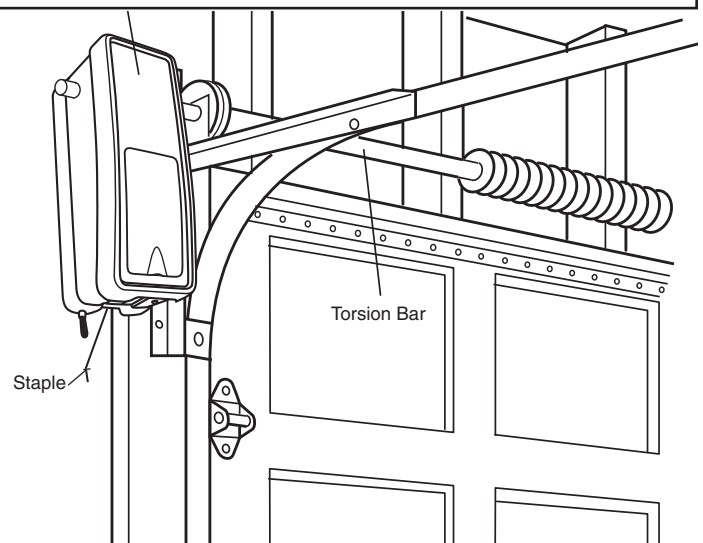
NOTE: The motor unit does not have to be flush to wall.

6. Use a staple to secure the antenna wire to prevent antenna from being entangled in a door roller.

WARNING

To prevent possible **SERIOUS INJURY** or **DEATH**:

- Concrete anchors **MUST** be used if mounting bracket into masonry.
- **NEVER** try to loosen, move or adjust the door, springs, cables, pulleys, brackets or their hardware, **ALL** of which are under **EXTREME** tension.
- **ALWAYS** call a trained door systems technician if the door binds, sticks or is out of balance. An unbalanced door might not reverse when required.
- Operator **MUST** be mounted at a right angle to the torsion bar to avoid premature wear on the collar.



INSTALLATION STEP 2

Attach the Emergency Release Rope and Handle

- Thread one end of the rope through the hole in the top of the red handle so "NOTICE" reads right side up as shown. Secure with an overhand knot at least 25mm (1") from the end of the rope to prevent slipping.
- Thread the other end of the rope through the loop in the emergency release cable.
- Adjust rope length so the handle is no higher than 1.8m (6') above the floor. Secure with an overhand knot.

NOTE: If it is necessary to cut the rope, heat seal the cut end with a match or lighter to prevent unraveling.

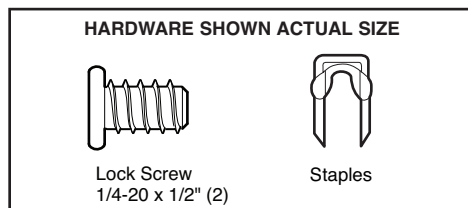
INSTALLATION STEP 3

Install Power Door Lock

The lock is used to prevent the door from being manually opened once the door is fully closed.

1. Select a door roller to mount the lock above. Check for clearance. If possible select a roller on the same side of the door as the motor unit. The second roller up from the bottom is ideal in most installations.
2. Ensure the door track surface is clean and adhere lock template with bottom edge just above the highest point on the roller (Figure 1).
3. Drill holes as marked on the template.
4. Fasten power door lock to the outside of the door track with hardware provided.
5. Run bell wire up wall to motor unit. Use insulated staples to secure wire in several places.
6. Plug connector into the motor unit (Figure 2).

NOTE: Lock must be mounted within 3m (10') of the power head.



⚠ WARNING

To prevent possible **SERIOUS INJURY** or **DEATH** from a falling door:

- If possible, use emergency release handle to disengage door **ONLY** when door is **CLOSED**. Weak or broken springs or unbalanced door could result in an open door falling rapidly and/or unexpectedly.
- **NEVER** use emergency release handle unless the doorway is clear of persons and obstructions.

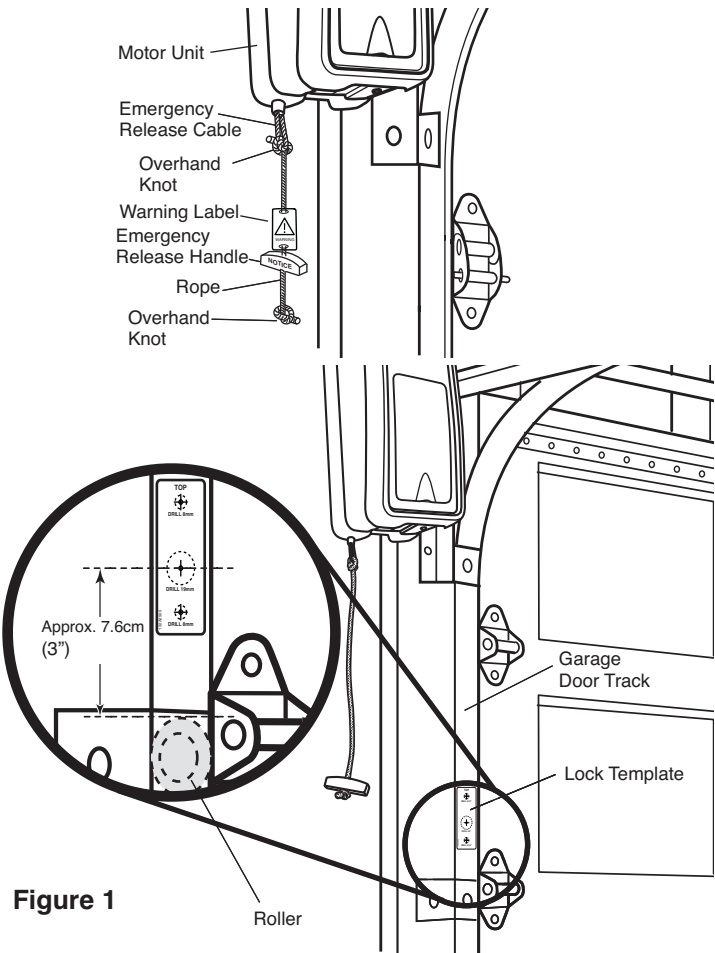
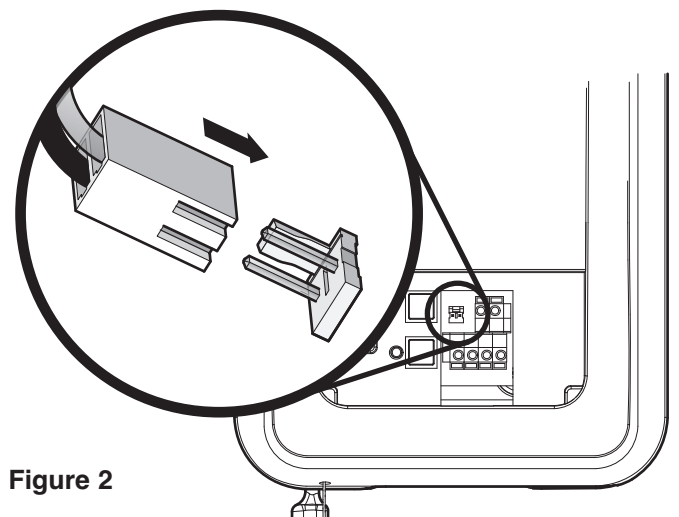


Figure 1



INSTALLATION STEP 4

Attach the Cable Tension Monitor (Required)

This operator comes standard with the cable tension monitor. It is supplied as a device to monitor the cables for ANY slack that may occur and will reverse the door when excessive slack is detected, eliminating service calls.

The cable tension monitor **MUST** be connected and properly installed before the door operator will move in the down direction.

NOTE: The cable tension monitor is shipped for left side installation. It is preferred that the cable tension monitor be installed on the same side of the door as the operator. If required, it can be mounted on the opposite side of door. Remove the snap-ring holding the roller in place and reassemble it on the opposite side of the cable tension monitor.

1. Position the cable tension monitor as shown (Figures 1 and 2). The cable tension monitor should be located as close to the drum as possible.

NOTE: There must be no obstructions in the installation area that prevent the cable tension monitor or the cable itself from closing completely when slack is detected.

2. Make sure cable tension monitor is located over a wood support member.

NOTE: If the cable tension monitor can not be mounted into wood with the lag screws provided, it can be mounted into 25mm (1") or greater plasterboard using the wall anchors (2) and the #8 hex head screws (2) provided in the hardware bag.

3. Mark and drill 5mm (3/16") pilot holes for screws (pilot holes are not required for anchors).
4. Attach the cable tension monitor to the wall using the hardware provided. Make sure that the roller is on top of the cable.
5. Run bell wire to motor unit. Use insulated staples to secure wire in several places.
6. Connect bell wire to the green quick-connect terminals (polarity is not important) (Figure 3).

NOTE: Cable must have tension through entire travel. Make sure there is no slack in cable on opposite side of the door during normal operation. If this condition exists, adjust cables as required.

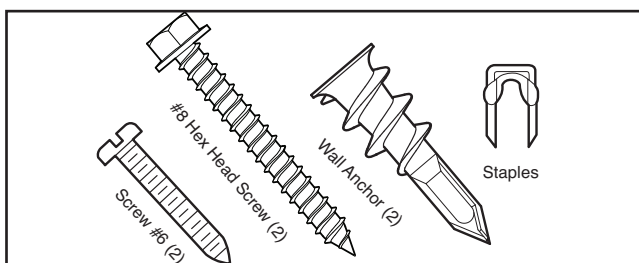


Figure 1

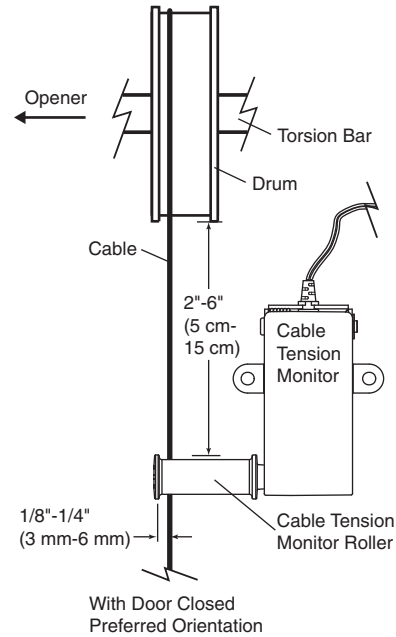


Figure 2

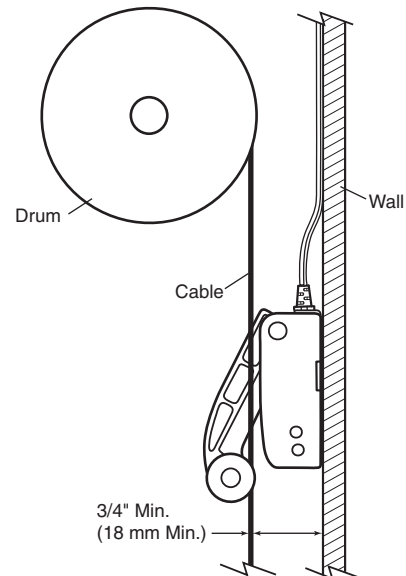
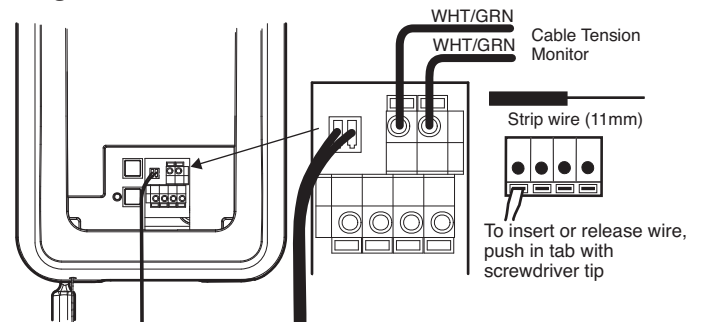


Figure 3



WARNING

To prevent possible SERIOUS INJURY or DEATH from electrocution or fire:

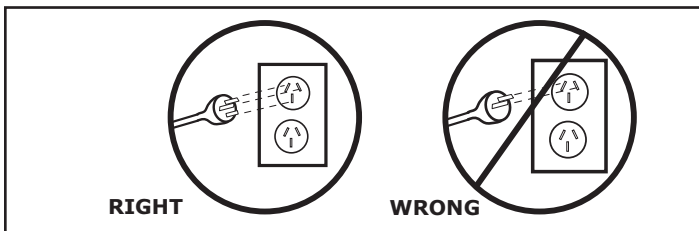
- Be sure power is not connected to the operator, and disconnect power to circuit BEFORE removing cover.
- Door installation and wiring MUST be in compliance with ALL local electrical and building codes.
- NEVER use an extension cord, 2-wire adapter or change plug in any way to make it fit outlet. Be sure the operator is grounded.
- If the supply cord is damaged, it must be replaced by the manufacturer or it's service agent or a similarly qualified person in order to avoid hazard.

INSTALLATION STEP 5

Electrical Requirements

To avoid installation difficulties, do not run the operator at this time.

To reduce the risk of electric shock, your door operator has a grounding type plug with a third grounding pin. This plug will only fit into a grounding type outlet. If the plug doesn't fit into the outlet you have, contact a qualified electrician to install the proper outlet.



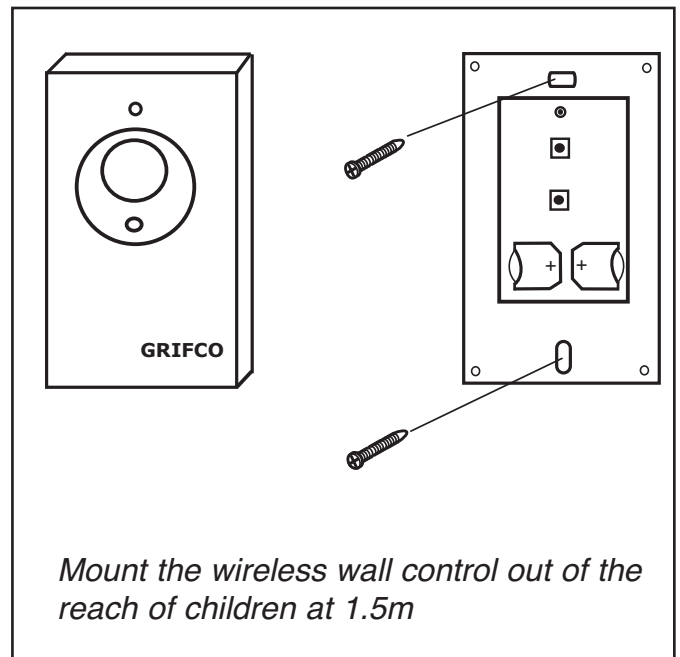
INSTALLATION STEP 6

Installing the Wireless Wall control (CG128)

Control must be mounted out of the reach of children at a height of 1.5m with an unobstructed view of the door.

- Ensure you CG3800 operator is switched off whilst installing your wireless door control to prevent accidental activation
- Remove the cover from the CG128.
- Mount CG128 as shown using the screws provided if mounting into a wall box (not provided).
- If mounting directly on the wall use wall anchors (provided) to fix unit to the plasterboard wall.
- Replace the cover plate and **affix the warning label adjacent the wall controller.**

Fix the emergency door release label adjacent to the operator.



WARNING

To reduce risk of fire, explosion or chemical burn:

- Replace ONLY CR2032 batteries.
- Do NOT recharge, disassemble, heat above 75°C or incinerate.

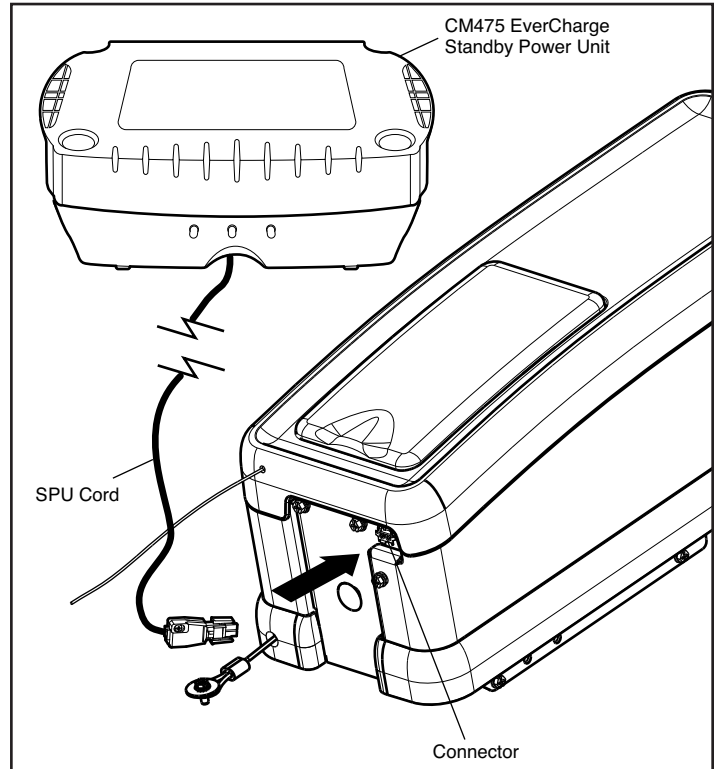
INSTALLATION STEP 7

Mounting the Evercharge Standby Power Unit (SPU)

(not provided)

If the optional CM475 Standby power supply unit is part of this installation it should be installed at this time.

- The SPU can be mounted to either the ceiling or a wall within 3' (.9 m) of the motor unit.
- Position the SPU as desired to a structural support (ceiling joist or wall stud).
- Attach the SPU to the support using the mounting holes on either side of the SPU.
- Secure the SPU using the 1-1/2" lag screws (2) provided with the SPU unit.
- Connect the SPU cord into the connector on the bottom of the motor unit.
- Follow all instructions included with the CM475 unit to test for proper operation and testing of the SPU.



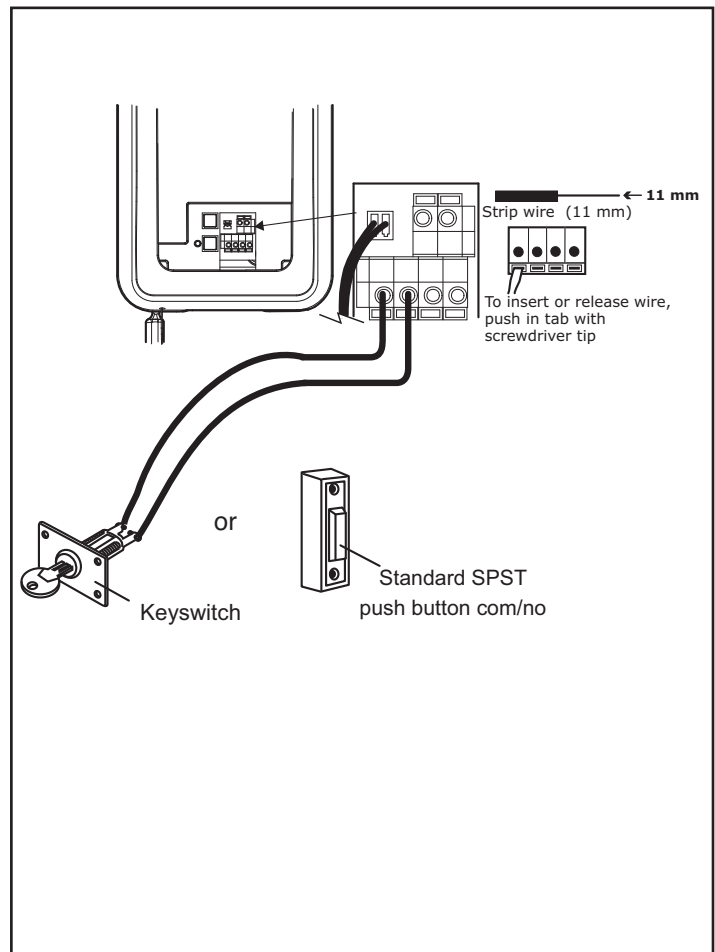
AUXILIARY CONTACT INPUT STEP 8 (OPTIONAL)

Note: any connection to your CG3800 should be voltage free and Normally open.

To connect to an auxiliary activation device such as SPST keyswitch, push button or relay contact to the terminals.

- Use a (figure 8) or bell cable to connect your com/no contacts into the terminals as shown.
- Strip wires to about 11mm (7/16")
- Use a screwdriver to press down the spring terminals and insert cables.

Ensure cabling complies with building and electrical standards.



INSTALLATION STEP 9

Install The Protector System®

The safety reversing sensor *must* be connected and aligned correctly before the door operator will move in the down direction. This is a required safety device and cannot be disabled.

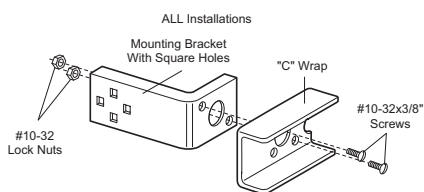
INSTALLING THE BRACKETS

Be sure power to the operator is disconnected.

Figures 1, 2 and 3 show recommended assembly of bracket(s) and "C" wrap based on the *wall* installation of the sensors on each side of the door shown above, or on the *door tracks* themselves. Figure 4 shows variations which may fit your installation requirements better. **Make sure the wraps and brackets are aligned so the sensors will face each other across the door.**

- Connect each assembly to a slotted bracket, using the hardware shown. **Note alignment of brackets for left and right sides of the door.** Finger tighten the lock nuts.
- Use bracket mounting holes as a template to locate and drill (2) (4.8mm) diameter pilot holes on both sides of the door, (100mm-150mm). Max height is (150mm).
- Attach bracket assemblies with 1/4"x1-1/2" lag screws as shown.
- Adjust right and left side bracket assemblies to the same distance out from mounting surface. Make sure all door hardware obstructions are cleared. Tighten the nuts securely.
- Centre each sensor unit in a "C" wrap with lenses pointing toward each other across the door.
- Secure sensors with the hardware shown in Figure 6. Finger tighten the wing nut on the *receiving eye* to allow for final adjustment. Securely tighten the *sending eye* wing nut.
- Run wires from both sensors to the operator as shown in Figure 5. Use insulated staples to secure the wire to the wall and ceiling.
- Connect both sets of wires to the operator terminals as shown page 13.
- Plug in the operator. If your operator has the Multi-Function Door Control, make sure the Lock Feature is *off*. Red indicator lights in both the sending and receiving eyes will *glow* if wiring connections and alignment are correct. If the indicator lights are *blinking* (and the invisible light beam path is not obstructed), alignment is required.
- Loosen the receiving eye wing nut to allow slight rotation of unit. Adjust sensor vertically and/or horizontally until the red indicator light *glows*.
- When indicator lights are glowing in both units, tighten the wing nut in the receiving eye unit.

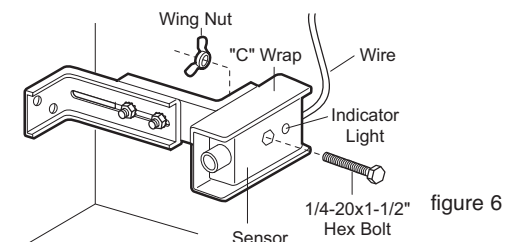
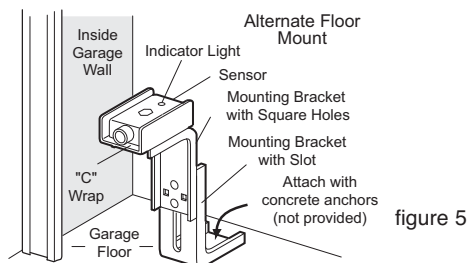
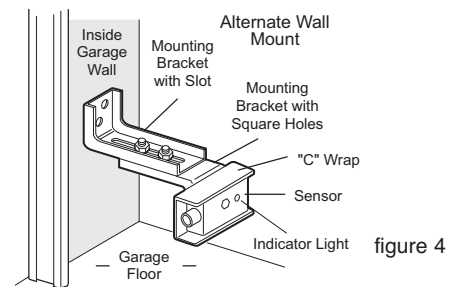
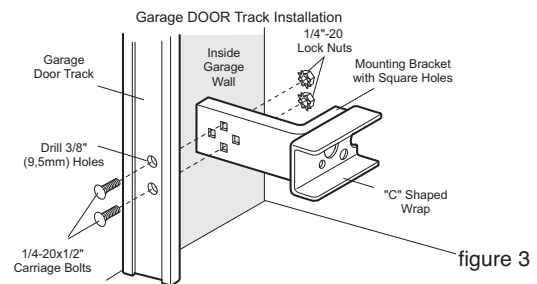
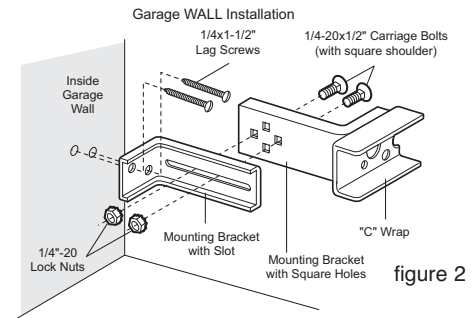
figure 1



⚠ WARNING

Be sure power is not connected to the door operator BEFORE installing the safety reversing sensor. To prevent SERIOUS INJURY or DEATH from a closing door:

- Correctly connect and align the safety reversing sensor. This required safety device **MUST NOT** be disabled.
- Install the safety reversing sensor between 50mm (2") and 150mm (6") above the floor.



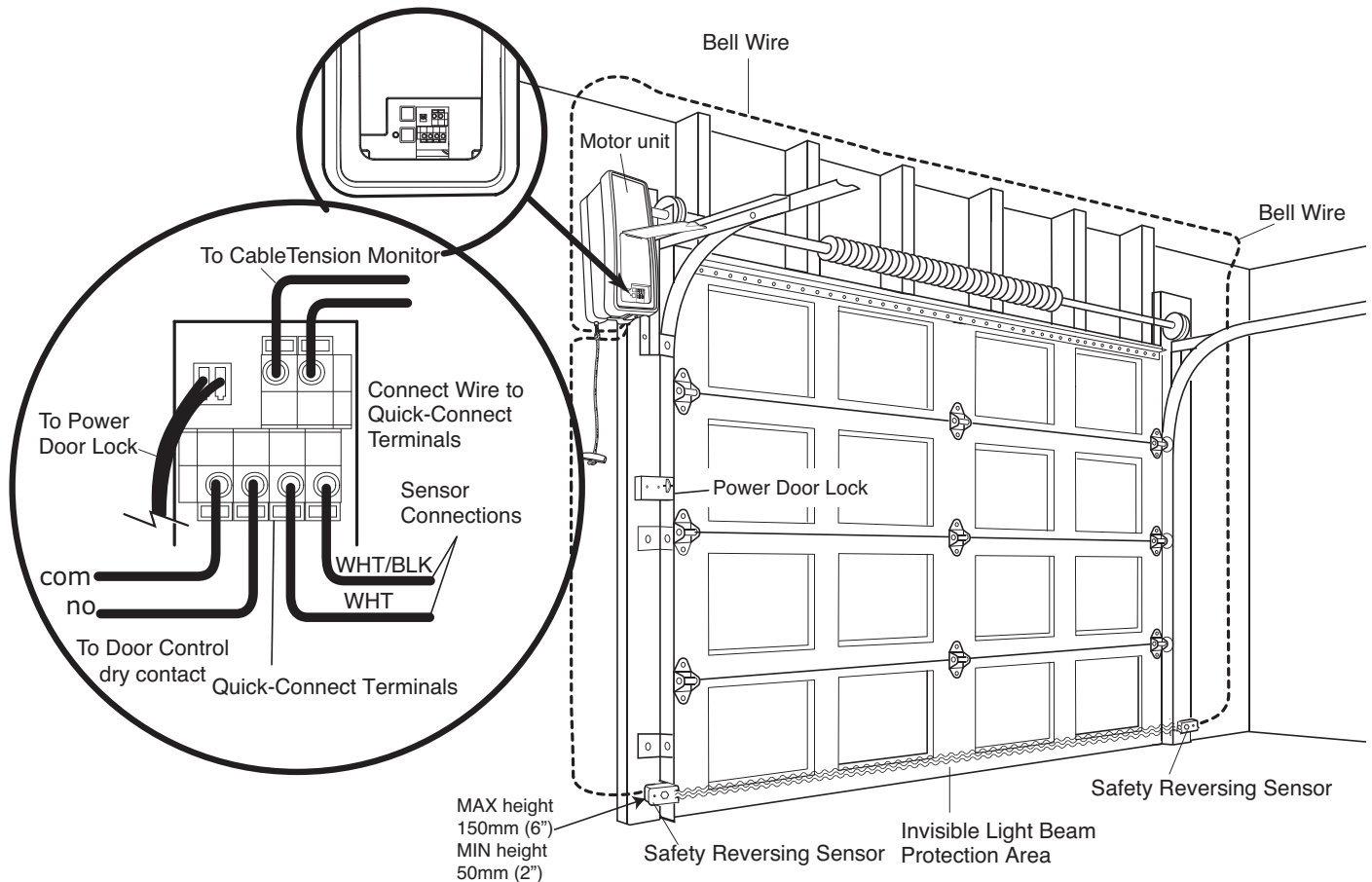
TROUBLESHOOTING THE SAFETY REVERSING SENSORS

1. If the *sending eye* indicator LEDs are both blinking after installation, check for:
 - Electric power to the operator.
 - A short in the white or white/black wires. These can occur at staples, or at operator connections.
 - Incorrect wiring between safety reversing sensors and operator.
 - A broken wire.
2. If the sending eye indicator light *glows steadily* but the receiving eye indicator light doesn't:
 - Check alignment.
 - Check for an open wire to the *receiving eye*.
3. If the *receiving eye* indicator light is dim, realign either sensor.

NOTE: When the invisible beam path is obstructed or misaligned while the door is closing, the door will reverse. If the door is already open, it will not close. and 10 clicks will sound.) See page 19.

MOUNTING AND WIRING THE SAFETY REVERSING SENSORS

- Run the wires from both safety reversing sensors to the operator. Use insulated staples to secure wire to wall and ceiling.
- Strip 11mm (7/16") of insulation from each set of wires. Separate white and white/black wires sufficiently to connect to the operator quick-connect terminals: white to white and white/black to grey (Figure 6).

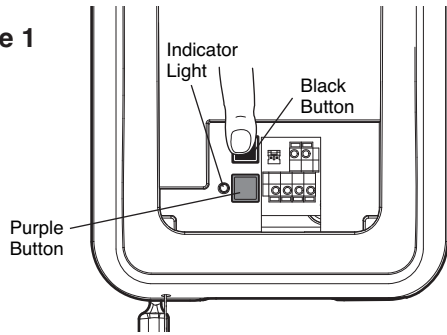


ADJUSTMENT STEP 1

Program the Travel Limits

Travel limits regulate the points at which the door will stop when moving up or down. Follow the steps below to set the limits.

Figure 1



To program the travel limits:

Adjust the position of the door by using the black and purple buttons. Black moves the door UP (open) and purple moves the door DOWN (close).

1. **Setting the UP position:** Press and hold the black button until the yellow indicator light starts flashing slowly then release.
2. Push and hold the black button until the door reaches the desired UP (open) position (Figure 2).

NOTE: Check to be sure the door opens high enough for your vehicle.

3. Push the remote control or door control (Figure 3). This sets the UP (open) limit and begins closing the door.

NOTE: Excessive movement of the motor unit will cause premature wear. See Troubleshooting section.

4. Immediately when the door begins to move down, press and release either the black or purple button. This will stop the door.
 5. **Setting the DOWN position:** Push and hold the purple button until the door reaches the desired DOWN (closed) position (Figure 4).
 6. Once the door is closed, check for proper pressure on the door (you should be able to manually push the door down a 1/16 of an inch). If there appears to be too much pressure on the door, you may toggle the door back and forth using the black and purple buttons to reach the desired position.
 7. Push the remote control or the door control (Figure 3). This sets the DOWN (close) limit and should bring the door to the open position.
- If the operator is not stopping exactly where you would like it, repeat steps 1 through 7 and program the limits again.
 - When the unit stops in both the desired up (open) and down (close) positions, proceed to *Adjustment Step 2, Setting the Force*.

⚠ WARNING

Without a properly installed safety reversal system, persons (particularly children) could be SERIOUSLY INJURED or KILLED by a closing door.

- NEVER learn forces or limits when door is binding or sticking. Repair door first.
- Incorrect adjustment of the door travel limits will interfere with proper operation of safety reversal system.
- After ANY adjustments are made, the safety reversal system MUST be tested. Door MUST reverse on contact with 40mm high (1 1/2") object (or 4x2 laid flat) on floor.

CAUTION

To prevent damage to vehicles, be sure fully open door provides adequate clearance.

Figure 2

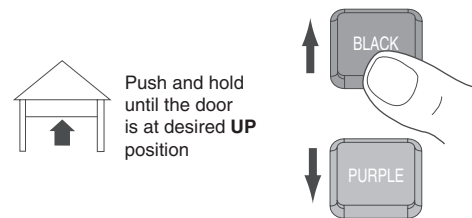


Figure 3

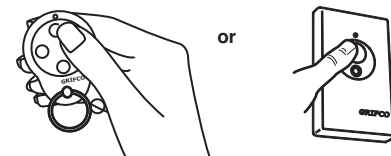
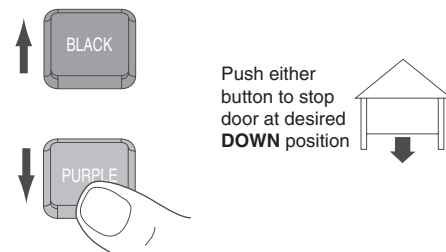


Figure 4



ADJUSTMENT STEP 2

Setting the Force

The force setting button is located on the front panel. The force setting measures the amount of force required to open and close the door.

1. Locate the purple button on the unit (Figure 1).
2. Push the purple button twice to enter unit into Force Adjustment Mode (Figure 2). The LED (Indicator Light) will flash quickly.
3. Push the remote control or door control (Figure 3). The door will travel to the DOWN (close) position. Push the remote control or door control again, the door will travel to the UP (open) position. Push the remote control or door control a third time to send the door to the DOWN (close) position.

The LED (Indicator Light) will stop flashing when the force has been learned.

The unit has learned the forces required to open and close your door.

The door must travel through a complete cycle, UP and DOWN, in order for the force to be set properly. If the unit cannot open and close your door fully, inspect your door to insure that it is balanced properly and is not sticking or binding. See page 4, "Preparing your door."

WARNING

Without a properly installed safety reversal system, persons (particularly children) could be SERIOUSLY INJURED or KILLED by a closing the door.

- NEVER learn forces or limits when door is binding or sticking. Repair door first
- Too much force on door will interfere with proper operation of safety reversal system.
- After ANY adjustments are made, the safety reversal system MUST be tested. Door MUST reverse on contact with 40mm (1 1/2") high object (or 4x2 laid flat) on floor.

Figure 1

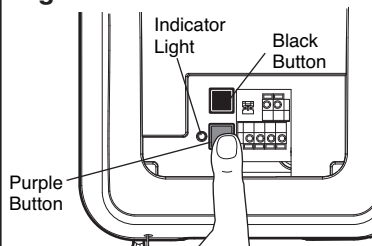


Figure 2

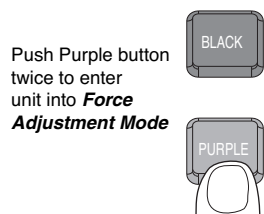
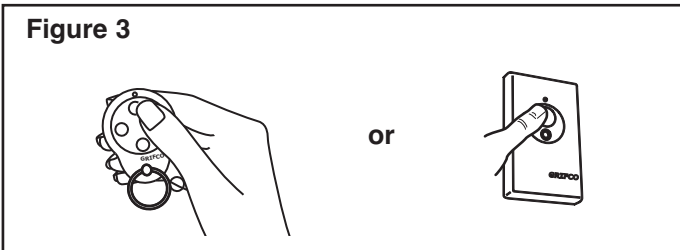


Figure 3



ADJUSTMENT STEP 3

Test Cable Tension Monitor

If your cable tension monitor has been activated the unit will click 9 times. See (Figure 1) page 19.

ADJUSTMENT STEP 4

Test Power Door Lock

TEST

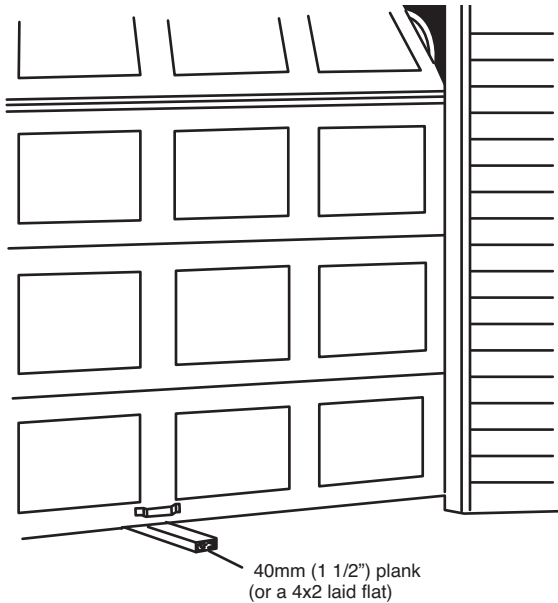
- With the door fully closed, the power door lock bolt should be protruding through the track.
- Operate the door in the open direction. The power door lock should retract before the door begins to move.
- Operate the door in the down direction. When the door reaches the fully closed position, the power door lock should automatically activate to secure the door.

NOTE: If the power door lock does not function, the lock can be manually released by sliding the manual release handle to the open position.

⚠ WARNING

Without a properly installed safety reversal system, persons (particularly children) could be **SERIOUSLY INJURED** or **KILLED** by a closing the door.

- Safety reversal system **MUST** be tested every month.
- If one control (force or travel limits) is adjusted, the other control may also need adjustment.
- After **ANY** adjustments are made, the safety reversal system **MUST** be tested. Door **MUST** reverse on contact with 40mm (1 1/2") high object (or 4x2 laid flat) on the floor.



⚠ WARNING

Without a properly installed safety reversing sensor, persons (particularly children) could be **SERIOUSLY INJURED** or **KILLED** by a closing door.

ADJUSTMENT STEP 5

Test the Safety Reversal System

TEST

- With the door fully open, place a 40mm (1 1/2") board (or a 4x2 laid flat) on the floor, centered under the the door.
- Operate the door in the down direction. The door **must** reverse on striking the obstruction. Upon successful safety reversal test proceed to *Adjustment Step 4*.

ADJUST

- If the door stops on the obstruction, it is not traveling far enough in the down direction. Complete Adjustment Steps 1 and 2 Programming the Limits and Forces.
- Repeat the test.
- When the door reverses on the 40mm (1 1/2") board (or 4x2 laid flat), remove the obstruction and run the operator through 3 or 4 complete travel cycles to test adjustment.
- If the unit continues to fail the Safety Reverse Test, call for a trained door systems technician.

IMPORTANT SAFETY CHECK:

Test the Safety Reverse System after:

- Each adjustment of limits, or force controls.
- Any repair to or adjustment of the door (including springs and hardware).
- Any repair to or buckling of the floor.
- Any repair to or adjustment of the operator.

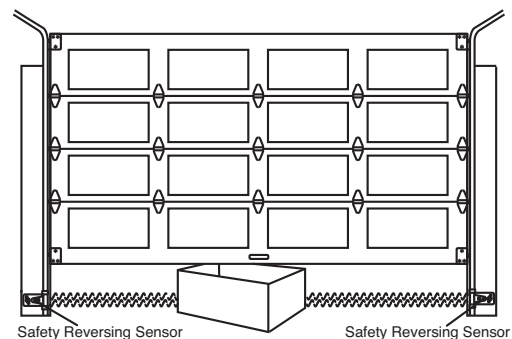
ADJUSTMENT STEP 6

Test The Protector System®

- Press the remote control push button to open the door.
- Place the operator carton in the path of the door.
- Press the remote control push button to close the door. The door will not move and the unit will make a clicking noise

The door operator will not close from a remote if the indicator light in either sensor is flashing or off (alerting you to the fact that the sensor is misaligned or obstructed).

If the operator closes the door when the safety reversing sensor is obstructed, do not operate the door. Call for a trained door systems technician.



OPERATION

IMPORTANT SAFETY INSTRUCTIONS

WARNING

To reduce the risk of SEVERE INJURY or DEATH:

1. READ AND FOLLOW ALL WARNINGS AND INSTRUCTIONS.
2. ALWAYS keep remote controls out of reach of children. NEVER permit children to operate or play with the wireless door control or remote controls.
3. The appliance is not intended for use by young children or infirm persons without supervision.
4. ONLY activate the door when it can be seen clearly, it is properly adjusted and there are no obstructions to door travel.
5. ALWAYS keep the door in sight until completely closed. NO ONE SHOULD CROSS THE PATH OF THE MOVING DOOR.
6. NO ONE SHOULD GO UNDER A STOPPED, PARTIALLY OPENED DOOR.
7. If possible, use emergency release handle to disengage door ONLY when the door is CLOSED. Weak or broken springs or unbalanced door could result in an open door falling rapidly and/or unexpectedly.
8. NEVER use emergency release handle unless the doorway is clear of persons and obstructions.
9. After ANY adjustments are made, the safety reversal system MUST be tested.
10. Safety reversal system MUST be tested every month. the door MUST reverse on contact with 40mm (1 1/2") high object (or a 4x2 laid flat) on the floor.
11. ALWAYS KEEP THE DOOR PROPERLY BALANCED (see page 3). An improperly balanced door may not reverse when required and could result in SEVERE INJURY or DEATH.
12. ALL repairs to cables, spring assemblies and other hardware, ALL of which are under EXTREME tension, MUST be made by a trained door systems technician.
13. ALWAYS disconnect electric power to the door operator BEFORE making ANY repairs or removing covers.
14. Permanently fix the Emergency release instruction Label adjacent to the release handle.
15. **SAVE THESE INSTRUCTIONS.**

EMERGENCY DOOR RELEASE

WARNING

To prevent possible SERIOUS INJURY or DEATH from a falling door:

- If possible, use emergency release handle to disengage door ONLY when door is CLOSED. Weak or broken springs or unbalanced door could result in an open door falling rapidly and/or unexpectedly.
- NEVER use emergency release handle unless the doorway is clear of persons and obstructions.

WARNING

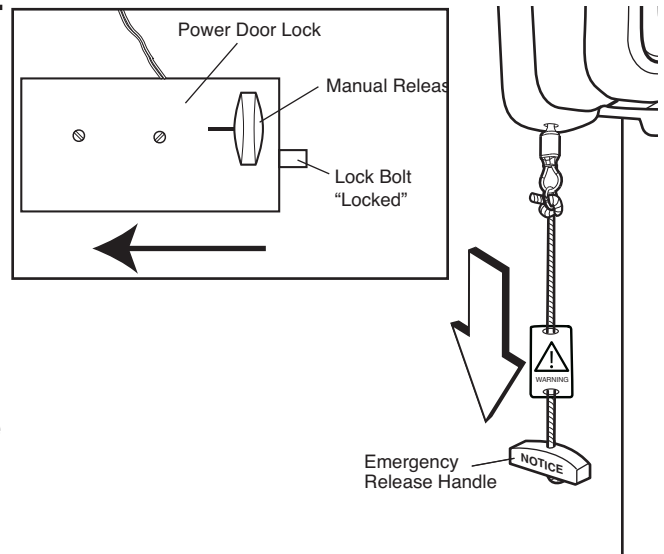
ADJUSTMENT STEP 7

To Open the Door Manually

Disengage door lock before proceeding. The door should be fully closed if possible. Pull down on the emergency release handle until a click noise is heard from the unit and lift the door manually. To reconnect the door to the operator, pull down the emergency release handle straight down a second time until a click noise is heard from the unit. The door will reconnect on the next UP or DOWN operation.

Test the emergency release:

- Make sure the door is closed.
- Pull the emergency release handle. The door should then be able to be opened manually.
- Return the door to the closed position.
- Pull the emergency handle a second time.
- Reconnect the door to the operator.



Using Your The Door Opener

Your Security.[®] operator and hand-held remote control have been factory-set to a matching code which changes with each use, randomly accessing over 100 billion new codes. Your operator will operate with up to eight Security.[®] remote controls and one Security.[®] Keyless Entry System. If you purchase a new remote, or if you wish to deactivate any remote, follow the instructions in the *Programming* section.

Activate your operator with any of the following:

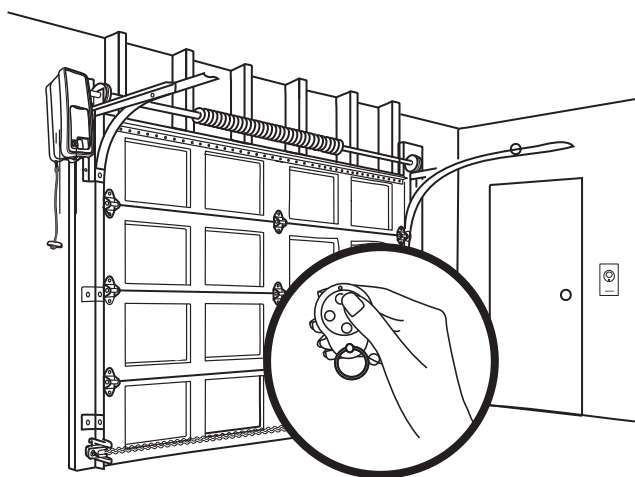
- *The hand-held Remote Control:* Hold top middle button down until the door starts to move.
- *The wireless wall control CG128* press and hold the large round button down until the door starts to move.
- *The Keyless Entry (See Accessories):* If provided with your door operator, it must be programmed before use. See *Programming*.

When the operator is activated (with the safety reversing sensor correctly installed and aligned)

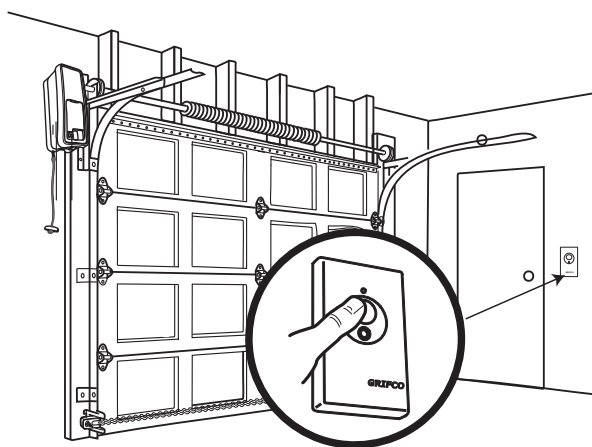
1. If open, the door will close. If closed, it will open.
2. If closing, the door will reverse.
3. If opening, the door will stop.
4. If the door has been stopped in a partially open position, it will close.
5. If obstructed while closing, the door will reverse. If the obstruction interrupts the sensor beam, the operator will click for five seconds.
6. If obstructed while opening, the door will stop.
7. If fully open, the door will not close when the beam is broken. The sensor has no effect in the opening cycle.

If the sensor is not installed, or is misaligned, the door won't close from a hand-held remote. However, you can close the door with the Door Control, the Outside Keylock, or Keyless Entry, *if you activate them until down travel is complete*. If you release them too soon, the door will reverse.

Using your CG844 4ch Mini Remote Control



Using your CG128 Wireless Wall Control



CARE OF YOUR OPENER

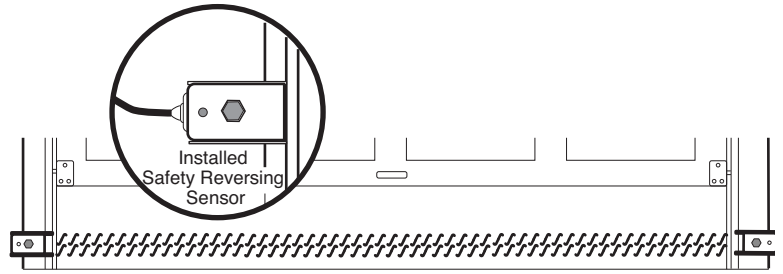
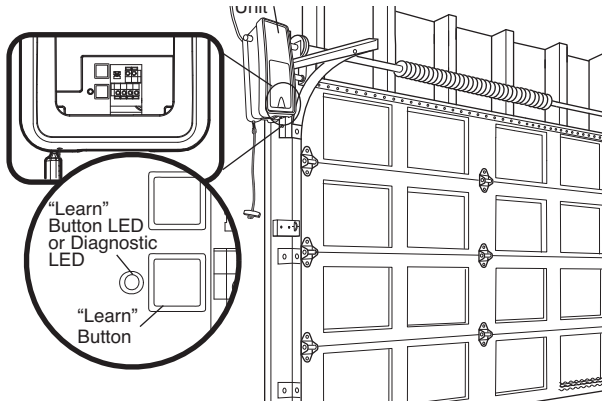
MAINTENANCE SCHEDULE

Once a Month

- Manually operate door. If it is unbalanced or binding, call a trained door systems technician.
- Check to be sure door opens & closes fully. Adjust limits and/or force if necessary (see Adjustment Steps 1 and 2).
- Repeat the safety reverse test. Make any necessary adjustments (see Adjustment Step 5).

Once a Year

- Oil door rollers, bearings and hinges. The operator does not require additional lubrication. Do not grease the door tracks.



Your door operator is programmed with self-diagnostic capabilities. The "Learn" button/diagnostic LED will flash a number of times then pause signifying it has found a potential issue. Consult Diagnostic Chart below.

Diagnostic Chart

1 FLASH

Safety reversing sensors wire open (broken or disconnected).

OR

2 FLASHES

Safety reversing sensors wire shorted or black/white wire reversed.

3 FLASHES

Door control or wire shorted.

4 FLASHES

Safety reversing sensors slightly misaligned (dim or flashing LED).

5 FLASHES

Possible RPM sensor failure. Unplug to reset.

9 FLASHES

Cable tension monitor reversal.

- **Symptom: One or both of the Indicator lights on the safety reversing sensors do not glow steady.**
 - Inspect sensor wires for a short (staple in wire), correct wiring polarity (black/white wires reversed), broken or disconnected wires, replace/attach as needed.
 - Disconnect all wires from back of motor unit.
 - Remove sensors from brackets and shorten sensor wires to 30-60mm (1-2") from back each of sensor.
 - Reattach sending eye to motor unit using shortened wires. If sending eye indicator light glows steadily, attach the receiving eye.
 - Align sensors, if the indicator lights glow replace the wires for the sensors. If the sensor indicator lights do not light, replace the safety reversing sensors.
- **Symptom: LED is not lit on door control.**
 - Inspect door Control/wires for a short (staple in wire), replace as needed.
 - Disconnect wires at door control, touch wires together. If motor unit activates, replace door control.
 - If motor unit does not activate, disconnect door control wires from motor unit. Momentarily short across red and white terminals with jumper wire. If motor unit activates, replace door control wires.
- **Symptom: Sending indicator light glows steadily, receiving indicator light is dim or flashing.**
 - Realign receiving eye sensor, clean lens and secure brackets.
 - Verify door track is firmly secured to wall and does not move.
- **Symptom: The RPM Sensor = Short travel 150-200mm (6-8").**
 - Unplug unit to reset. Try to operate motor unit, check diagnostic code.
 - If it is still flashing 5 times and motor unit moves 150-200mm (6-8"), The unit's APE (Absolute Positioning Encoder) may need to be replaced, for details contact your Chamberlain reseller.
- **Symptom: Door reverses while closing.**
 - Check for possible door obstructions and remove.
 - Check that the cable tension monitor is properly connected to the operator.
 - Replace the cable tension monitor.

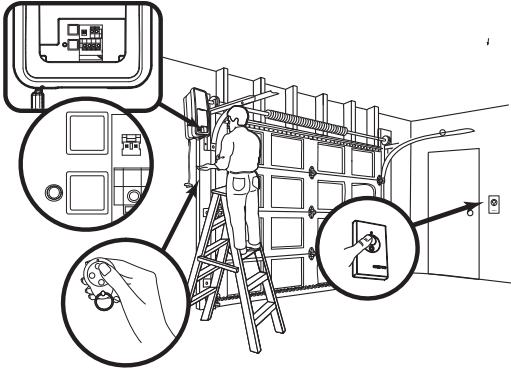
PROGRAMMING

Your door operator has already been programmed at the factory to operate with your hand-held remote control. The door will open and close when you press the large push button.

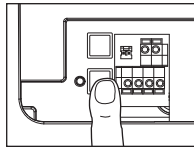
Below are instructions for programming your operator to operate with additional Security:® remote controls.

To Add or Reprogram a Hand-held Remote Control

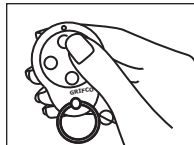
USING THE “LEARN” BUTTON



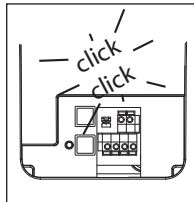
1. Press and release the purple “learn” button on the motor unit. The learn indicator LED will glow steadily for 30 seconds.



2. Within 30 seconds, press and hold the button on the hand-held remote* that you wish to operate your door.



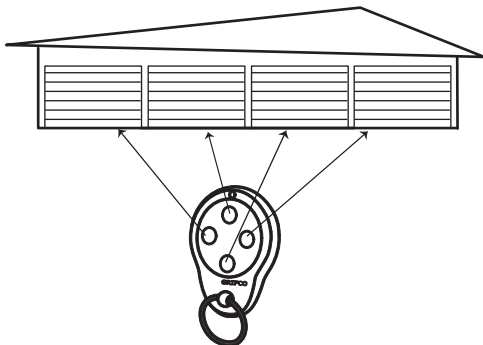
3. Release the button when the motor unit LED two clicks.

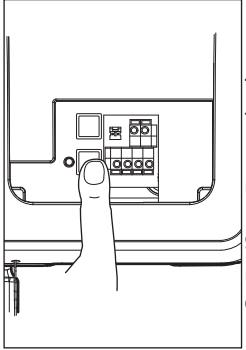


4-Button Remote

If you have multiple door the CG844 you to open up to four doors seperatly using secure and reliable 433MHz rolling code.

Simply assign one button per door and program your remote into all four doors as outline above.





To Erase All Codes From Motor Unit Memory

To deactivate any unwanted remote, first erase all codes:

Press and hold the “learn” button on motor unit until the learn indicator LED goes out (approximately 6-9 seconds). All previous codes are now erased. Reprogram each remote or keyless entry you wish to use.

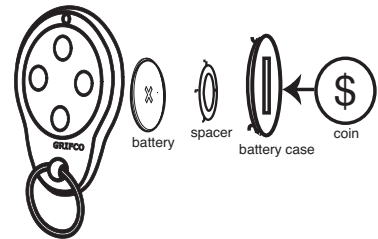
The Remote Control Battery

! WARNING

To prevent possible **SERIOUS INJURY** or **DEATH**:

- NEVER allow small children near batteries.
- If battery is swallowed, immediately notify doctor.

Replacing the Battery



To replace battery, use a coin to turn the battery cover plate. Remove the Battery from the spacer and place a new battery into the spacer (observing polarity) then reseal the case using the coin to twist the backing plate back into place.

! WARNING

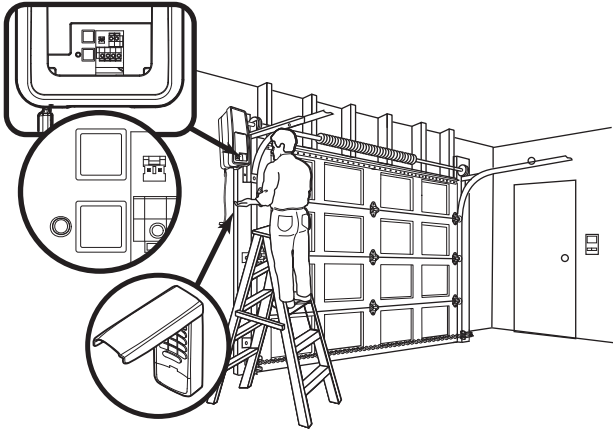
To reduce risk of fire, explosion or chemical burn:

- Replace **ONLY** CR2025 batteries.
- Do **NOT** recharge, disassemble, heat above 75°C or incinerate.

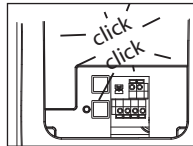
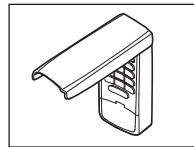
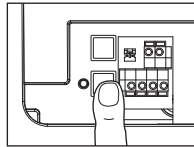
To Add, Reprogram or Change a Keyless Entry PIN

(OPTIONAL)

USING THE “LEARN” BUTTON



1. Press and release the purple “learn” button on motor unit. The learn indicator LED will glow steadily for 30 seconds.
2. Within 30 seconds, enter a four digit personal identification number (PIN) of your choice on the keypad. Then press and hold the ENTER button.
3. Release the button when the motor unit LED turns off and two clicks are heard.



To change an existing, known PIN

If the existing PIN is known, it may be changed by one person without using a ladder.

1. Press the four buttons for the present PIN, then press and hold the # button.

The operator will click twice. Release the # button.

2. Press the new 4-digit PIN you have chosen, then press Enter.

The motor unit will click once when the PIN has been learned.

Test by pressing the new PIN, then press Enter. The door should move.

To set a temporary PIN

You may authorize access by visitors or service people with a temporary 4-digit PIN. After a programmed number of hours or number of accesses, this temporary PIN expires and will no longer open the door. It can be used to *close* the door even after it has expired. To set a temporary PIN:

1. Press the four buttons for your personal entry PIN (not the last temporary PIN), then press and hold the] button.

The operator will click. Release the button.

2. Press the temporary 4-digit PIN you have chosen, then press Enter.

The operator will click four times.

3. To set the number of **hours** this temporary PIN will work, press the number of hours (up to 255), then press].

OR

3. To set the number of **times** this temporary PIN will open door, press the number of times (up to 255), then press #.

The operator will click once when the temporary PIN has been learned.

Test by pressing the four buttons for the temporary PIN, then press Enter. The door should move. If the temporary PIN was set to a certain number of openings, remember that the test has used up one opening. To clear the temporary password, repeat steps 1-3, setting the number of hours or times to 0 in step 3.

One Button Close: Opener can be closed by pressing only the ENTER button if the one button close feature has been activated. This feature has been activated at the factory. To activate or deactivate this feature press and hold buttons 1 and 9 for 10 seconds. The keypad will blink twice when the one button close is active. The keypad will blink four times when one button close is deactivated.

TROUBLESHOOTING

1. The operator doesn't operate from either the Door Control or the remote control:

- Does the operator have electric power? Plug a lamp into the outlet. If it doesn't light, check the fuse box or the circuit breaker. (Some outlets are controlled by a wall switch.)
- Have you disabled all door locks? Review installation instruction warnings on page 7.
- Is there a build-up of ice or snow under the door? The door may be frozen to the ground. Remove any restriction.
- The door spring may be broken. Have it replaced (see page 3 for reference).

2. Opener operates from the remote, but not from the Wireless Wall Control:

- Check the LED on the Wall Control to ensure the LED turns on when button is pushed. If the LED is weak or not on Change the batteries. (Remove cover and replace with CR2032 batteries X 2)
- If the LED turns on and is strong check to ensure the unit is programmed into the unit (see page 20).

3. The door operates from the Door Control, but not from the remote control:

- Is the door push bar flashing? If so, Lock mode is engaged. Make sure it is off by pressing the Lock button for two seconds.
- Program the operator to match the remote control code. (Refer to instructions on the motor unit panel.) Repeat with all Remote.

4. The remote control has short range:

- Change the location of the remote control in your car.
- Check to be sure the antenna on the side or back panel of motor unit extends fully downward.
- Some installations may have shorter range due to a metal door, foil backed insulation, or metal siding.

5. The door opens and closes by itself:

- Be sure that all remote control push buttons are off.
- Remove the bell wire from the door control terminals and operate from the remote only. If this solves the problem, the door control is faulty (replace), or there is an intermittent short on the wire between the control console and the motor unit.
- Clear memory and re-program all remote controls.

6. The door doesn't open completely:

- Check power door lock.
- Is something obstructing the door? Is it out of balance, or are the springs broken? Remove the obstruction or repair the door.

7. The door opens but won't close:

- Check cable tension monitor (see installation step 4).
- If the operator clicks, check the safety reversing sensor. See *Installation Step 9*.
- If the operator does not click and it is a new installation. See *Adjustment Step 2*. For an existing installation, see below.

Repeat the safety reverse test after the adjustment is complete.

8. The door reverses for no apparent reason and operator LED doesn't blink:

- Check cable tension monitor (see installation step 4).
- Is something obstructing the door? Pull the emergency release handle. Operate the door manually. If it is unbalanced or binding, call a trained door systems technician.
- Clear any ice or snow from the floor area where the door closes.
- Review *Adjustment Step 2*.

Repeat safety reverse test after adjustments.

9. The door reverses for no apparent reason and operator LED blinks for 5 seconds after reversing:

- Check the safety reversing sensor. Remove any obstruction or align the receiving eye. See *Installation Step 9*.

10. The operator strains to operate door:

- The door may be out of balance or the springs may be broken. **Close the door** and use the emergency release handle to disconnect the door. Open and close the door manually. A properly balanced door will stay in any point of travel while being supported entirely by its springs. If it does not, disconnect the operator and call a trained door systems technician.

11. The operator motor hums briefly, then won't work:

- The door springs may be broken. See above.
- If the problem occurs on the first operation of the operator, door may be locked. Disable the power door lock.

12. The operator won't operate due to power failure:

- Manually open the power door lock.
- Use the emergency release handle to disconnect the door. The door can be opened and closed manually. When power is restored, pull manual release a second time.
- If an EverCharge Unit is connected, the operator should be able to operate up to 20 times without power.

13. Door loses limits.

- Collar not tightened securely. Tighten collar (see Assembly Steps 1 and 2) and reprogram limits (see Adjustment Step 1).

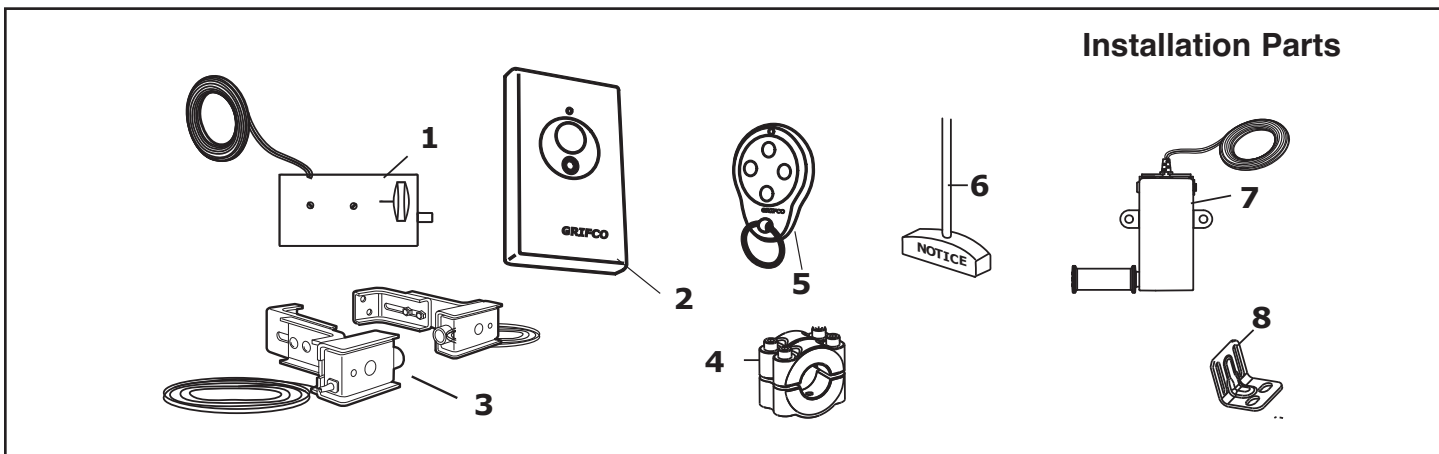
14. The operator moves when the door is in operation:

- Some minor movement is normal for this product. If it is excessive the collar will wear prematurely.
- Check to make sure the torsion bar is not moving left/right excessively.
- Check to make sure the torsion bar is not visibly moving up and down as it rotates.
- Check that the operator is mounted at a right angle to the jackshaft. If not, move the position of the mounting bracket.

15. Power lock makes noise when operating.

- Call Chamberlain Grifco® dealer for replacement power lock.

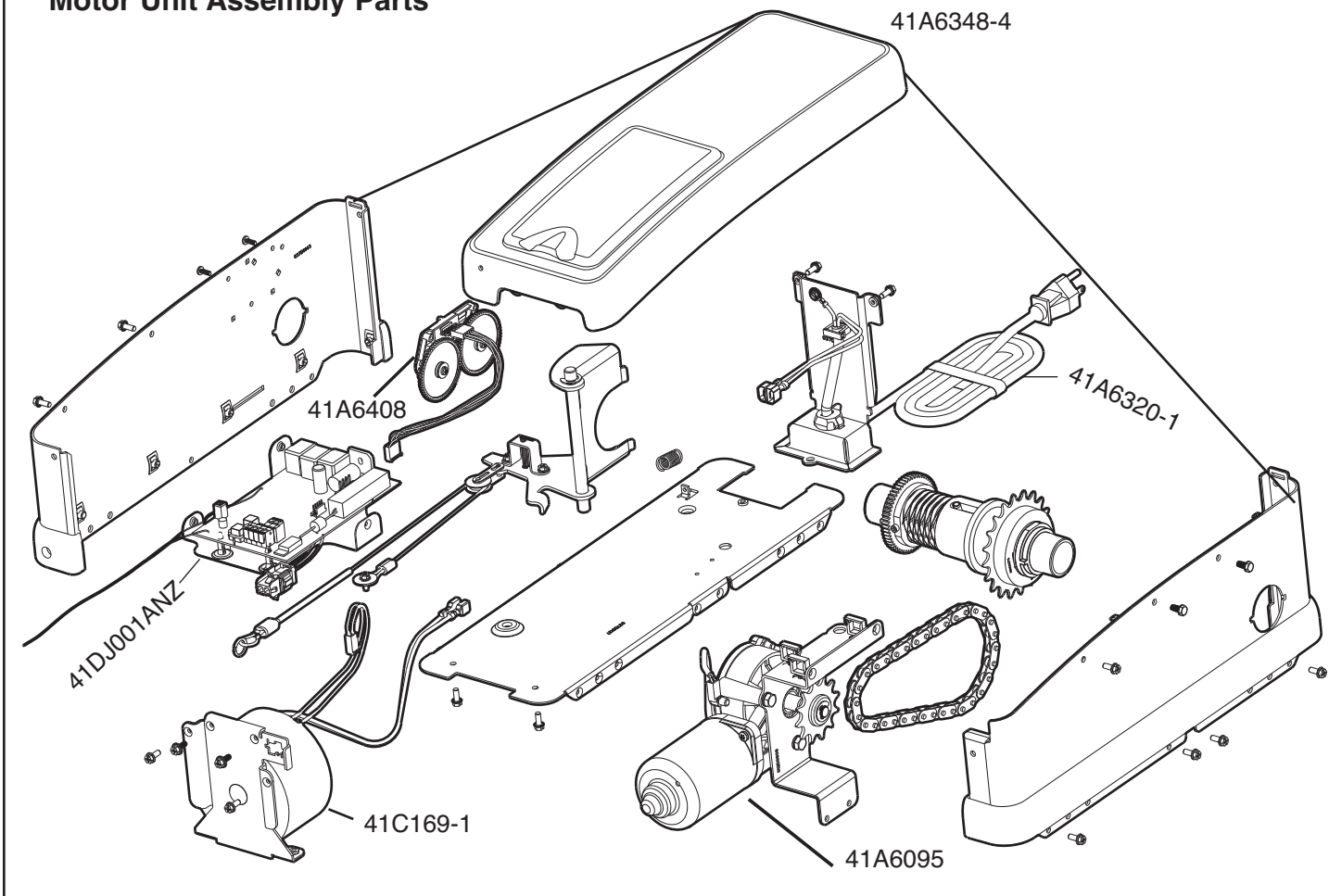
REPAIR PARTS



Installation Parts

KEY NO.	PART NO.	DESCRIPTION™			
1	41A6102-1	Electric lock	6	41A4582	Emergency release rope & handle assembly
2	CG128	Wireless wall control	7	41A6104-1	Cable tension monitor
3	C77	Protector system	8	41C0902	Mounting bracket
4	41A6388	Collar with set screws			
5	CG844	4ch rolling code remote			

Motor Unit Assembly Parts



WARRANTY / GUARANTEE

Chamberlain Australia Pty Ltd herein referred to as "The Company"

(a) The Company shall guarantee the goods for a period of two years from the date of invoice against any defects in construction or operation arising solely from faulty design, materials or workmanship subject to the following clauses.

(b) The Company shall at its option, repair, modify or replace defective parts or units at its own expense and within a reasonable time but the Company shall not unless otherwise agreed in writing be liable for costs associated with removal, replacement, transport or travelling expenses incurred by the Purchaser in obtaining the goods and returning them to the Company.

(c) The Company does not guarantee the goods where:-

(i) the defect rises from materials supplied by the Purchaser or a design requested by the purchaser; or

(ii) the defect arises from ordinary wear and tear, neglect or misuse by the Purchaser, accident, lack of care, insufficient maintenance, incorrect installation or improper use of the goods; or

(iii) the defect arises from force majeure; or

(iv) the Purchaser has in any way modified or repaired the goods without the Company's prior written consent; or

(v) the Purchaser has not complied with any written or oral instructions concerning the operation and maintenance of the goods; or

(vi) the Purchaser is in default in the observance or performance of any other provisions of the contract; or

(vii) The Grifco electric motors are used in conjunction with controls other than those assembled and supplied by the Company.

(d) Where warranty is approved for goods in a used condition, such goods will be repaired or replaced and returned to the purchaser as the Company sees fit. Refunds or credits will only be considered for goods not used and in new, undamaged condition.

(e) The Company's liability under this guarantee will be strictly limited to repairing or replacing a defective product at the Company's premises, as it may elect.

(f) The provision of sub-clauses (a) and (b) are stipulated for the benefit of the Purchaser only and are not intended for the benefit of any third party.

(g) Save for sub-clauses (a) and (b) the Company does not give any warranty or guarantee or make representations whatever in respect of the goods or the fitness of the goods or any part thereof or any particular purposes (whether or not that purpose is known to the Company).

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