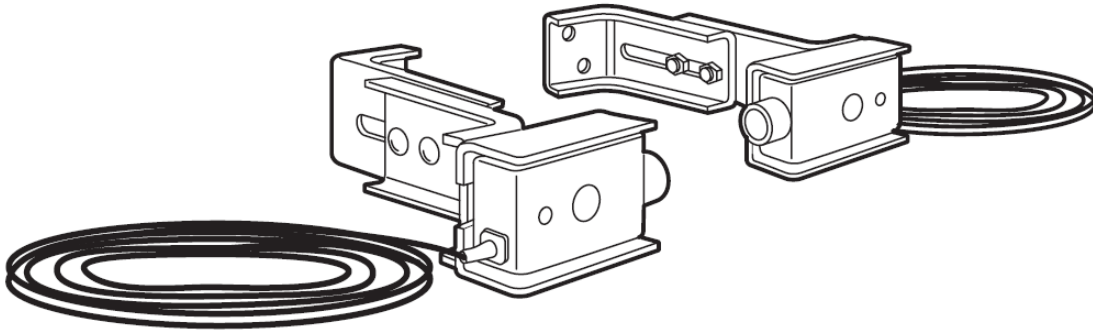


CHAMBERLAIN®

GRIFCO



C77 IR (Infrared) safety beam



Review all safety warnings on page one of your door operator owner's manual.

Ensure that the door and all its operating gear is in good condition and works easily when it is manually operated.

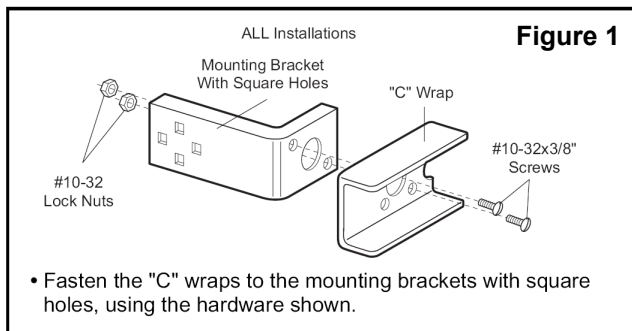
Australia
Phone 02 4323 3877
Phone toll free 1800 GRIFCO
or 1800 474 326
Fax 02 4323 3882

New Zealand
Phone 09 477 2823
Phone toll free 0800 653 667
Fax 09 478 4294

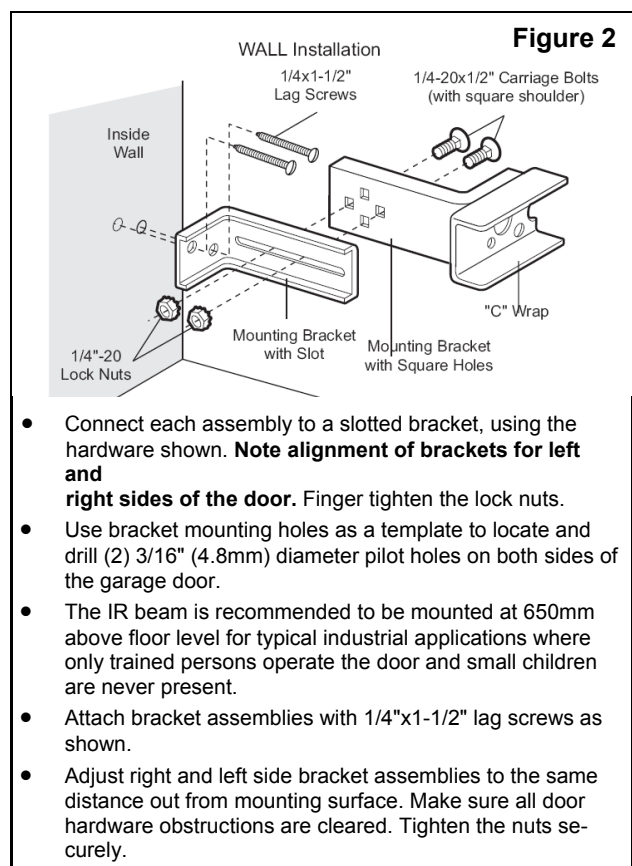
ASSEMBLY PROCEDURES

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 opening or on the door guides.

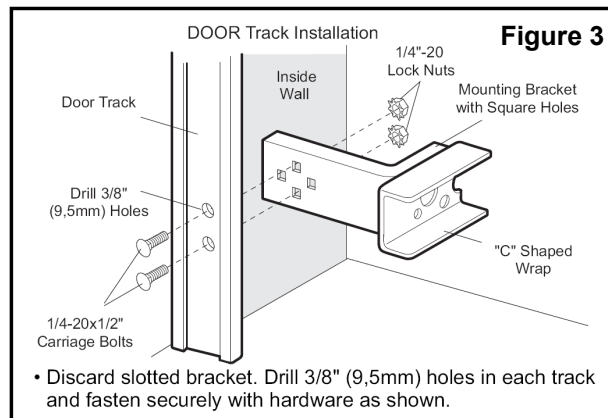
Figure 4 shows variations which may fit your installation requirements better. Make sure the wraps and brackets are aligned so the sensors will face each other across the opening.



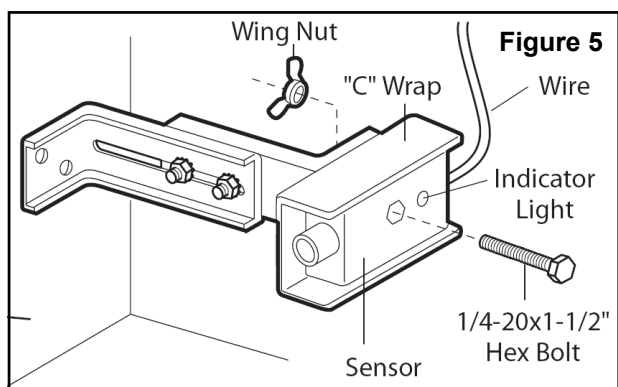
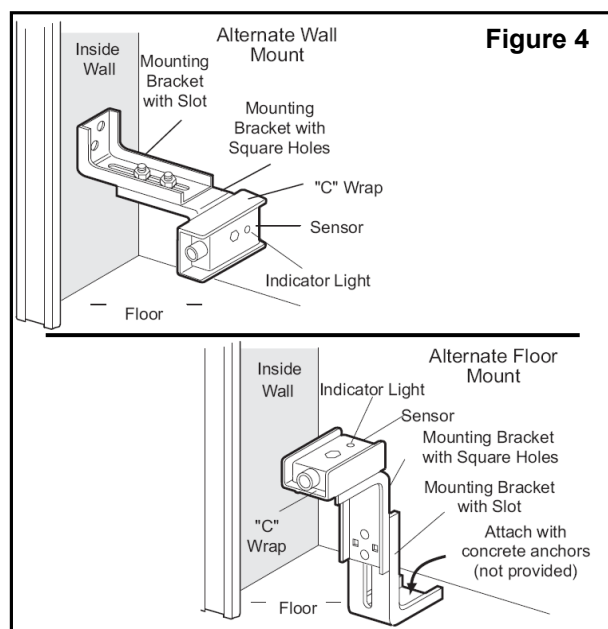
- Fasten the "C" wraps to the mounting brackets with square holes, using the hardware shown.



- 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) 3/16" (4.8mm) diameter pilot holes on both sides of the garage door.
 - The IR beam is recommended to be mounted at 650mm above floor level for typical industrial applications where only trained persons operate the door and small children are never present.
 - 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 5. Finger tighten the wing nut on the *receiving eye* to allow for final adjustment. Securely tighten the *sending eye* wing nut.



- Discard slotted bracket. Drill 3/8" (9.5mm) holes in each track and fasten securely with hardware as shown.



WARNING

Operation of commercial doors by laymen in areas where small children may be present, must comply with the entrapment protection requirements of IEC 60335-2-103. Such entrapment protection is likely to consist of 1 x safety bump edge, and typically 2 x IR beams set to detect 100mm and 650mm height obstructions at any position along the doors leading edge, installed to comply with IEC 60335-2-103.

CONNECTION

WARNING

Do not place hands or tools near the operator when power is on or when testing controls or safety devices. Always disconnect power before servicing or adjusting the operator.

1. Run wires from both sensors to the MCB (Main Control Board).

2. Connect both sets of wires to the operator terminals in the lower right corner of the MCB (Figure 6):

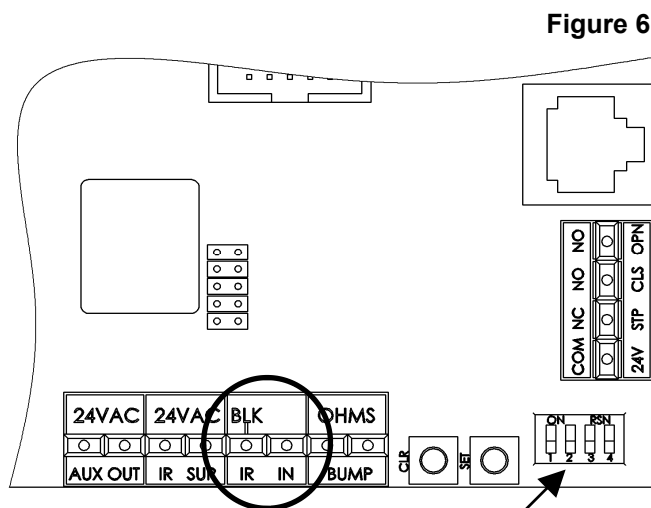
- White wire with black strip connects to **IR (BLK)** terminal
- White (only) wire connects to **IN** terminal

The 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 infrared beam 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 on both units, tighten the wing nut in the receiving eye unit.

3. Adjust the DIP switches to suit desired behaviour (refer right).



Desired Behaviour	DIP 1	DIP 2
Latch Up / Inch Down	ON	OFF
Latch Up / Latch Down	ON	ON

WARNING

After the installation a final test of the full function of the system and where present the full function of the safety devices must be done.

TROUBLESHOOTING

1. If the sending eye or receiving eye indicator light does not glow after installation, check for:

- Electric power to the operator
- A short in the IR wires
- Incorrect wiring between sensors and operator
- An open wire, (wire break)

2. If both sensors are blinking, realign or remove obstruction.

3. If the sensors are damaged and cannot be repaired, the door can be closed with the manual hand chain.

CHAMBERLAIN 24 MONTH LIMITED WARRANTY

(Excluding electric motors)

Chamberlain Australia Pty Limited / Chamberlain New Zealand Limited (**Seller**) warrants to the original purchaser of the Grifco product (**Unit**) that it is free from defects in material and/or workmanship for a period of 24 months from the date of first purchase from the Seller.

If, during the limited warranty period, the Unit fails due to defects in materials or workmanship Chamberlain will, provided the defective part or Unit is returned freight and insurance prepaid and well packaged to the nearest Chamberlain office, undertake to repair or, at its option, replace any defective part or Unit and return it to the Buyer at no cost. Repairs and replacement parts are warranted for the remaining portion of the original warranty period.

Limited warranty on electric motors - 12 months

In keeping with the manufacturer's warranty, Chamberlain offer a 12 month warranty on all electric motors from the date of purchase. We will furnish a replacement motor free of charge, if it is found to be defective. Labour costs may apply.

Where the Unit has been installed by an authorised installer, Chamberlain will furnish replacement parts free of charge through the authorised installer. Warranty is based on the electric motor/operator being used in conjunction with controls supplied (or other controls authorised in writing prior to installation) by Chamberlain.

In-warranty service

During the warranty period, if the product appears as though it may be defective, call our technical department before removal of the unit. A Chamberlain technician will diagnose the problem and promptly supply you with the parts for "do-it-yourself" repairs, or provide you with shipping instructions for a factory repair or replacement.

If our service centre determines that a warranty claim has been made in respect of a failure or defect arising under or out of any exclusion set out below, we may charge you a fee to repair and/or return the unit to you.

Exclusions

This warranty does not cover any failure of the Unit due to:

1. non-compliance with the instructions regarding installation, operation, maintenance and testing of the Unit or of any product with which the Unit is used.
2. any attempt to repair, dismantle, reinstall or move the Product to another location once the Product is installed by any person other than an authorised installer.
3. tampering, neglect, abuse, wear and tear, accident, electrical storm (force majeure), excessive use or conditions other than normal commercial use.

This warranty does not cover any problems with, or relating to, the commercial door or door hardware, including but not limited to the door slats, door springs, door drum, door alignment or hinges, any problems caused by electrical faults or labour charges for reinstalling a repaired or replaced Unit.

Liability – Australia only

Under no circumstances shall the Seller be liable for consequential, incidental or special damages arising in connection with the use, or inability to use, the Unit. In no event shall the Seller's liability for damages or injury arising from breach of law or contract or for negligence, exceed the cost of repairing or replacing the Unit or refunding the purchase price of the Unit.

Under Division 2 Part V of the *Trade Practices Act, 1974*, certain warranties and conditions (**Implied Terms**) are implied into contracts for the supply of goods or services if the goods or services are of a kind ordinarily acquired for personal, domestic or household use or consumption. Liability for breach of those Implied Terms cannot be excluded or limited and the limitations and exclusions above do not apply to the Implied Terms.

Except for the Implied Terms and the warranties set out above, the Seller excludes all warranties and conditions implied by statute, at law, in fact or otherwise.

Liability – New Zealand only

Except as set out in the *Fair Trading Act 1986* and the *Consumer Guarantees Act 1993*:

- a) all other guarantees, warranties and representations in relation to the Unit or its supply are excluded to the extent that the Seller can lawfully exclude them; and
- b) under no circumstances shall the Seller be liable for consequential, incidental or special damages arising in connection with the use, or inability to use, the Unit, other than those which were reasonably foreseeable as liable to result from the failure.

Chamberlain reserves the right to change the design and specification without prior notification. Some features or accessories may not be available in certain markets or areas.