

Guarantee

This Henderson garage door is warranted for a period of two years from the date of installation (see General Conditions 2) against defective manufacture for both materials and workmanship, subject to the General Conditions stated below.

If the product has a laminated outer surface, that surface is warranted for a total period of ten years, subject to the General Conditions stated below. The door motor is warranted for a period of five years from the date of installation.

In the event that warranty service is required, you should immediately contact the retailer from whom the product was purchased.

General Conditions

1. This product must be used solely for the purpose for which it was designed and must not be modified in any way without prior written permission.

2. All claims under this guarantee must be made as soon as possible through the retailer or supplier from whom the goods were purchased and must be accompanied by an invoice or other recognised commercial document showing the date at which the guarantee commenced. The date of installation will normally be taken as the date of purchase except where a door is part of a newly built property where the guarantee will commence from the date of first occupation provided the delay between installation and occupation is of a reasonable duration.

3. All Henderson garage doors and associated products must have been installed maintained and serviced in accordance with the user care and maintenance instructions and installation instructions provided. All doors should have their surfaces maintained and/or cleaned in accordance with these instructions at regular intervals and must have adequate air circulation and drainage to allow rainwater to clear.

4. During the period of this guarantee the door must be subject to regular inspection for general wear and tear as well as correct operation by a competent person such as a trained garage door installer. Please note that repairs made by a non-competent person will invalidate this warranty.

5. Subject to these conditions Henderson will repair or replace the product or components at its discretion. Any replaced product or component will become the property of P C Henderson Ltd.

6. The maximum liability under this warranty shall be the purchase price, including Value Added Tax, prevailing when the product was purchased. It does not cover consequential damage, nor does it cover damage arising from incorrect handling, storage, installation or use, and impact or mechanical damage caused on or after delivery.

7. Corrosion, discolouration and other effects arising from elements within the building or from abnormal pollution or contact with bird droppings or aggressive fumes, chemicals or other such like environments are also excluded.

The guarantee under this warranty does not cover wear and tear on either the product or its component parts

8. It is a fundamental condition of this guarantee that the product has been installed, maintained and serviced correctly and is used solely for the purpose for which it was designed. Incorrect installation maintenance and service will invalidate this warranty, as will the use of spares not supplied by Henderson.

9. Any claim made under this guarantee relating to a garage door must be accompanied by the information shown on the information label that is normally attached to the door. This information will be needed when making a claim.

10. Henderson products are sold subject to its Standard Terms and Conditions of Sale. This guarantee shall only apply to goods sold against these Conditions and after 1st May 2002

HENDERSON GARAGE DOORS

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INVESTOR IN PEOPLE

Insulated Roller Garage Doors

Fully insulated remote controlled roller garage door designed for low headroom applications

Installation Instructions

Pre-installation Checks

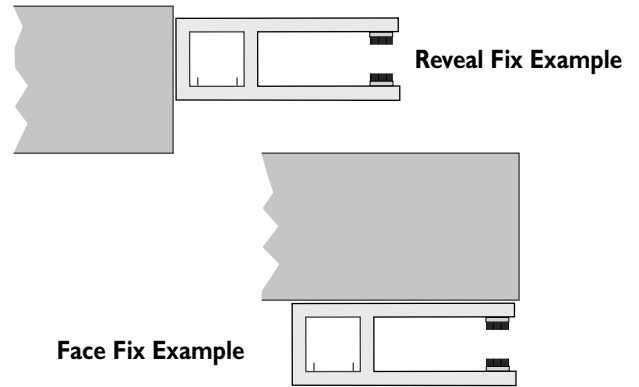
Ensure that the site is clear and that all fixing surfaces are sound and free from loose plaster or masonry. Ensure the opening has no irregularities that could damage or mark the optional back box or curtain.

Unpacking the Door

The door curtain will be fully packaged when delivered, if the optional back & front box have been ordered the head-plates will be factory fitted to the back box and will have the curtain packed and rolled inside.

The side channel sections should be unpacked and placed either side of the opening.

Fixing positions as illustrated above can also be combined. Please ensure both walls are parallel before commencing installation



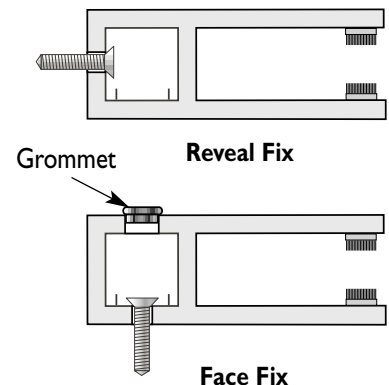
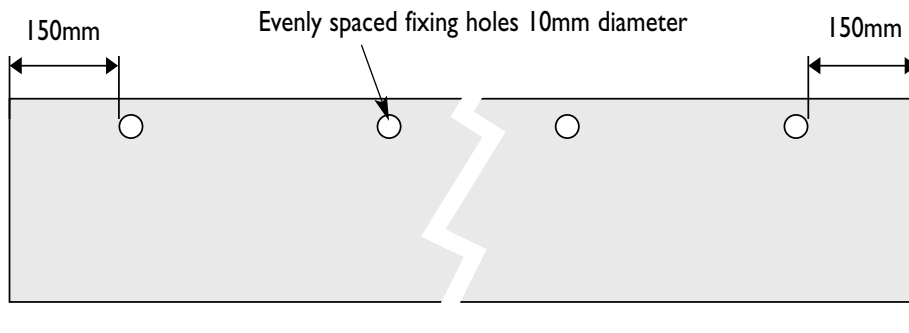
Step 1 - Setting Out Your Installation

If your door is fitted with a back box please move to step 2 as your overall size is pre-set.

If your door has not got an optional back or front box please use the following layout instructions. To determine the back plate size you must measure the width of the door curtain, not including the plastic end locks. Once you have determined this size add 72mm to give you the overall manufactured door width. Measure the garage door opening and deduct this from the overall width, whatever size is remaining is divided in two and marked on the garage wall, This is your overall door position.

Step 2 - Preparing the Guide Rails

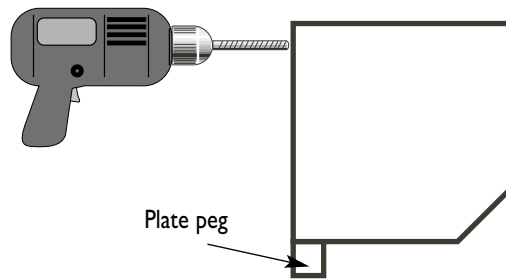
Drill fixing holes (**7mm**) through the side channel box section starting 150mm from the bottom and evenly space thereafter, your last hole should be 150mm from the top of the guide. Enlarge your fixing hole (**10mm**) on the Inside face of the guide section to accept the cover grommets.



Special colour guides will be supplied with matching metal grommets. In this instance, please drill a 11mm hole

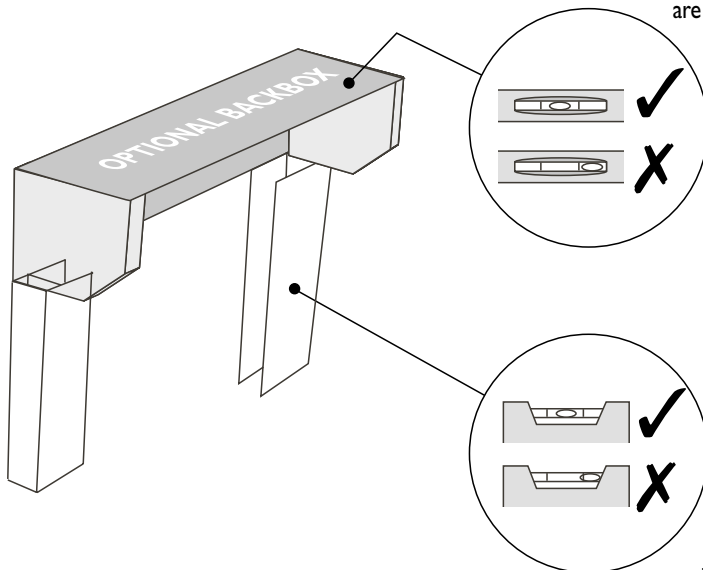
Preparing the Head Plates - Step 3

Drill a 7mm fixing hole in the top corner of each plate



Assembling & Fixing the Door Guides & Plates - Step 4

Fit the plate 'peg' into the top of the guide section box and stand the guides upright. Level the guides with the garage opening. Check the vertical guides are level on both sides as well as horizontal across the plates.



NOTE: If the optional back box has been ordered, the motor barrel will be factory fitted.

Fixing the Guide Sections - Step 5

Fix the guides into place using the fixing holes previously drilled ensuring that the guides are level. Do not over tighten the fixings to compensate for mounting surface distortions, please pack walls if required.

PLEASE ENSURE FIXINGS USED ARE SUITABLE FOR THE GARAGE WALL BUILD PROPERTIES

Fixing the Head Plates - Step 6

Fix the head-plates into position ensuring that the head-plates are level and that the locating pegs are fully located into the guide section. Where a back box is fitted it may be necessary to fix the back box to the opening header to stop any marking of the curtain during door operation. If additional fixings are required in the back box, use countersunk screws, ensuring that the screw heads do not protrude, as curtain damage could occur.

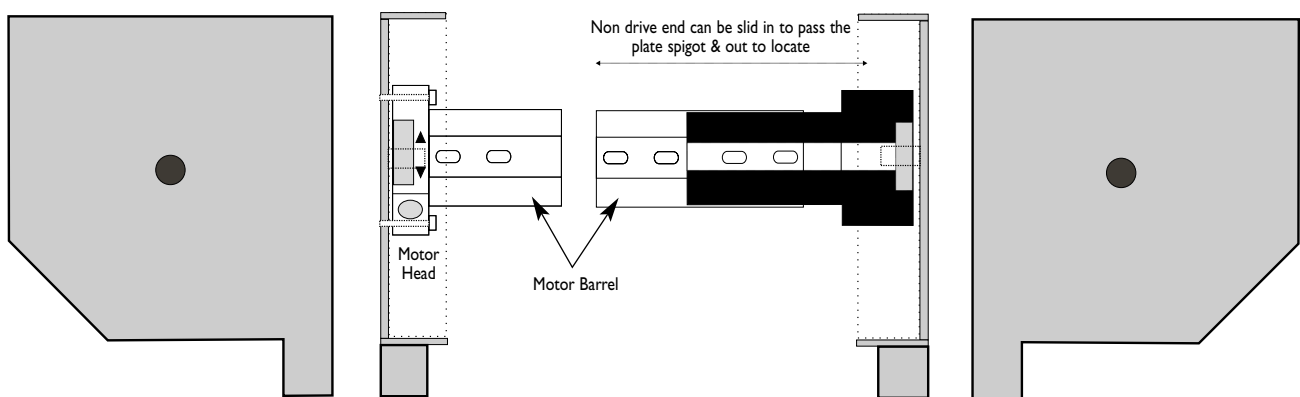
Always ensure that the back box is adequately fixed to eliminate any rubbing of the curtain on the back box during the door operation.

Step 7 - Motor Barrel Assembly

The motor barrel assembly is factory mounted when using an optional full or half box, however the barrel requires mounting if no box has been specified. The barrel is located into the cast spigots located on each end cap. The barrel non drive end has an adjustable bearing carrier which allows the barrel to be decreased in overall length to allow it to fit over the two plate spigots.

Once the barrel is in position with the non drive end bearing carrier extended out of the barrel to allow the bearing to fit onto the spigot the carrier must be held in place by a pop rivet or self tapping screw.

The diagram explains the layout, please use the following step by step bullet points to assist in the installation.



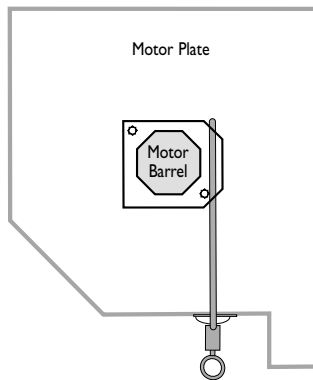
- (1) Fully extend the non drive end bearing housing onto the spigot.
- (2) Using the two allen key bolts supplied for the motor, fit the barrel into position, making sure the over-ride position is at the required point.

Please check over-ride outlet position with the diagrams on the opposite page

- (3) Fix the bearing housing to the barrel using a **4mm** rivet or a self tapping screw.

Installing the Manual Over-ride - Step 8

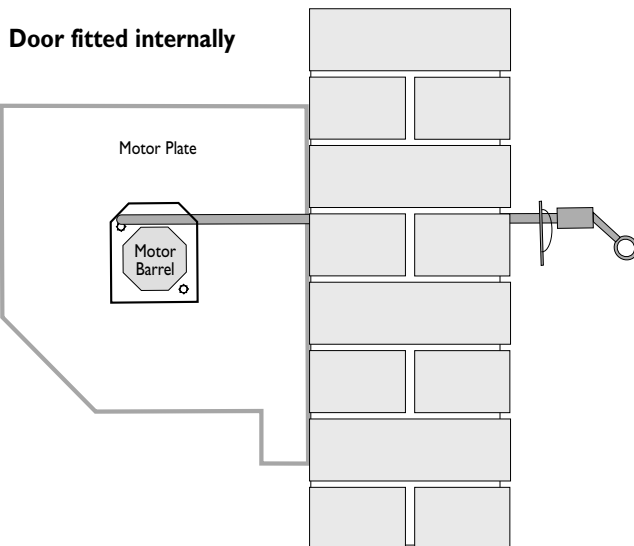
The manual over-ride eyelet and bar comes complete with a universal joint fitted, to enable the emergency winding eye to always be accessible. A notch may be required in the headplate to allow the over-ride to pass through.



Internal over-ride

Insert over-ride bar through motor unit and fasten to head plate using self tapping screws.

Note: If your door has an optional internal cover do not insert over-ride bar until internal cover has been installed. **(See step 14)**



External over-ride

The head plate has a pre-cut section on the outside face of the head plate, which will allow the over-ride bar to pass through. If a optional back box is installed and or the door installation is a face fix the garage wall will also need to be drilled.

(A) Cut Universal over-ride bar to length.

(B) Insert over-ride bar through motor unit and fasten to external wall using screws & plastic plugs.

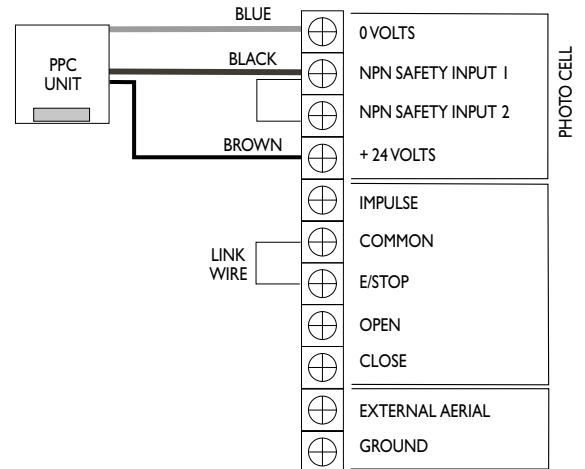
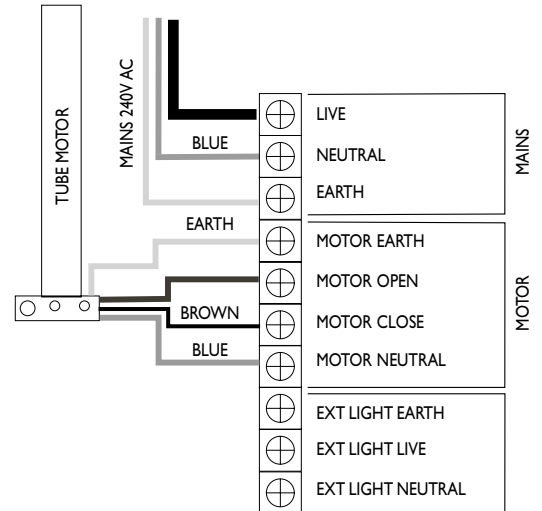
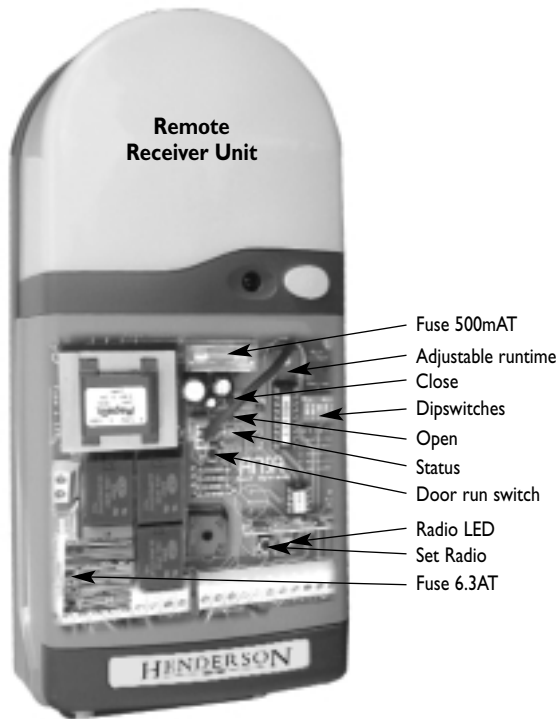
Note: When installing over-ride facility to the external elevation of the garage please ensure that the SECURITY CLOSE is activated on the remote receiver unit (See Step10).

A Low level external over-ride is also available please see installation documentation supplied with the low level over-ride kit.

Step 9 - Mounting and Connecting the Controls

The Remote Control Unit should be mounted as close to the door as possible approximately at shoulder height. This is to allow easy access to the receiver mounted control button. The remote control unit packaging incorporates a fixing hole stencil on the packaging front cover for ease of installation. Please use fixing kit as supplied with remote control unit Masonry drill size required **6mm**.

Ensure the motor direction matches the indication lights on the receiver, to reverse the motor direction, switch off the mains supply and swap the motor open and motor close connections.



Adding Transmitters

- (1) Press & hold the receiver mounted operating switch for 5 seconds & release the receiver mounted LED will go out & flash once.
- (2) Take the hand transmitter to be added and press the button once the receiver mounted LED will flash once.
- (3) Press the Receiver mounted LED once or wait thirty seconds, the new transmitter is added.

Deleting Transmitters

- (1) Isolate the mains power to the receiver unit and remove the front cover.
- (2) Move dip-switch 5 to on and re-power the unit.
- (3) Turn the mains power to the receiver unit back on.
- (4) The board mounted led (green) will flash for five seconds, the hand transmitters are know deleted.

Note:

The above procedure deletes all transmitters from the receiver. Existing transmitters must be reloaded using the 'Adding Transmitters' procedure.

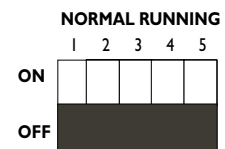


Figure 2

Remote Receiver Unit Advanced Features - Step 10

The remote receiver unit has five onboard dip-switches which control the following features.

Dip-switch 1 - WARNING

When switched to on will flash the on-built light unit three times before each operation.

Dip-switch 2 - RETRACT

Instead of the door returning to fully open when the photo-cell activated the door retracts 200mm only.

Dip-switch 3 - SECURITY

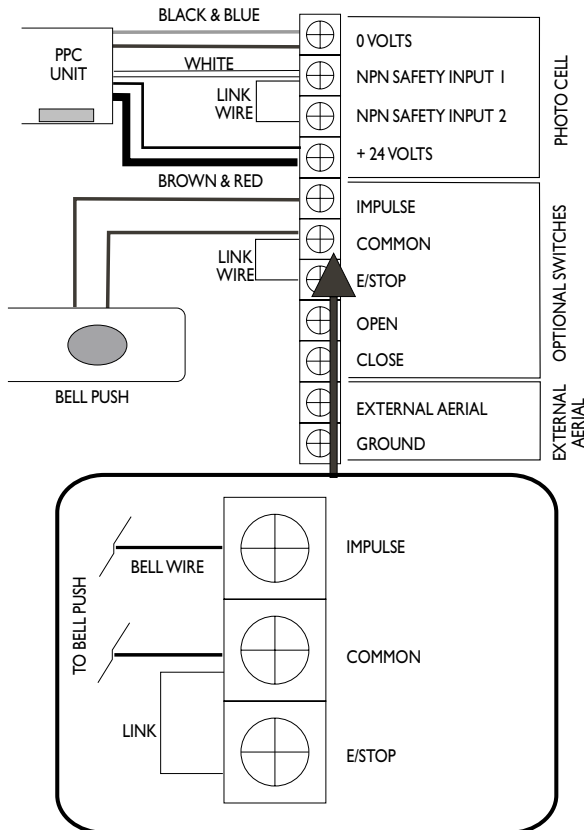
When using an external manual over-ride the door will power close every time the manual over-ride is used.

Dip-switch 4 - AUTO-CLOSE

Note: Additional safety edge system is recommended with Auto-close facility.
The door will automatically close if left in the open position. Time lapse is adjustable via the run time fine adjuster(factory set to Maximum)

Dip-switch 5 - DECODE

Used when removing lost or stolen transmitters from the receiver memory. (See deleting transmitters).



OPTIONAL EXTERNAL AERIAL

The Remote receiver has an inbuilt aerial which will enable good reception in most situations. If an external aerial is required please use terminals marked External Aerial, the raised loop on the pcb marked (A) must be snipped to enable the extended.

AUXILIARY LIGHT RELAY

The on-built courtesy light unit is pre-wired, and an additional light unit can be used in conjunction with the remote receiver. Using Connections marked **external light** a Light unit of up to **500watts** can be powered.

ADDITIONAL SWITCHES

Additional switches can be wired into the receiver unit using connections marked as Optional Switches.

To wire a remote bell push use connections **IMPULSE & COMMON** leaving the link wire in position see wiring diagram.

Step 11 - Mounting & Adjusting the Photo Electric Cell

The Photo Electric Cell or **PEC** comes complete with a wall mounting bracket to carry the photo cell unit.

The PEC can also be mounted directly to the side guide using self drilling screws provided.

Note: The correct installation height for the PEC is approximately 300mm from floor level.

(A) Once the PEC is mounted to the door and the power to the Remote Control is switched on the LED on the remote control receiver will start to flash rapidly. The Indicator lights on the PEC will show amber and green, the green light indicates power to the PEC with the amber light illuminating when the unit is activated **(See Fig 1)**

(B) To mount the reflector simply hold the reflector in-place on the opposite side guide to the PEC and move the reflector slowly until the Receiver mounted LED stops flashing, the amber beam activation light on the PEC unit will also extinguish, this indicates PEC alignment is correct. Fix the reflector in the aligned position.



PEC mounted on the guide section



Reflector Unit mounted on the guide section

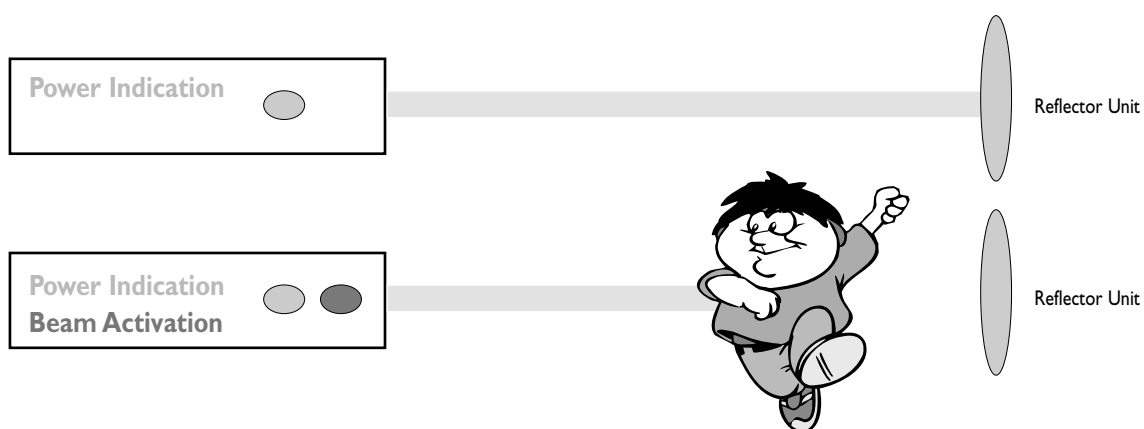


Figure 1

Installing the Door Curtain - Step 12



Figure 1



Figure 2

Slide onto the top lathe of the door curtain the curtain connection clips or Auto-locking units provided (see Fig 2). Carefully slide the door curtain down to the closed position.

(1) The Door curtain is delivered ready rolled for installation with the bottom section to the outside of the roll. To ensure the curtain does not get scratched during installation, the motor barrel metal tube should be covered by cardboard or bubble wrap.

(2) Lift the curtain rolled and feed the bottom rail over the barrel section into the guides.

(3) Feed the door into the guides approximately half way. Un-roll the remaining curtain, so the curtain is hanging over the motor barrel (see Fig 1).

Auto-locks

Slip the Auto-lock rings onto the location pegs, ensuring that all Pegs are in the same hole series. Secure In place with the self tapping screws provided (See Fig 4).

NOTE: The self tapping screws do not fix through the barrel wall (See Fig 3).

Once the auto locks are attached and fixed as explained above, wrap the self adhesive velcro as supplied around the Auto lock rings. This will help stop any marking to the internal face of the door.

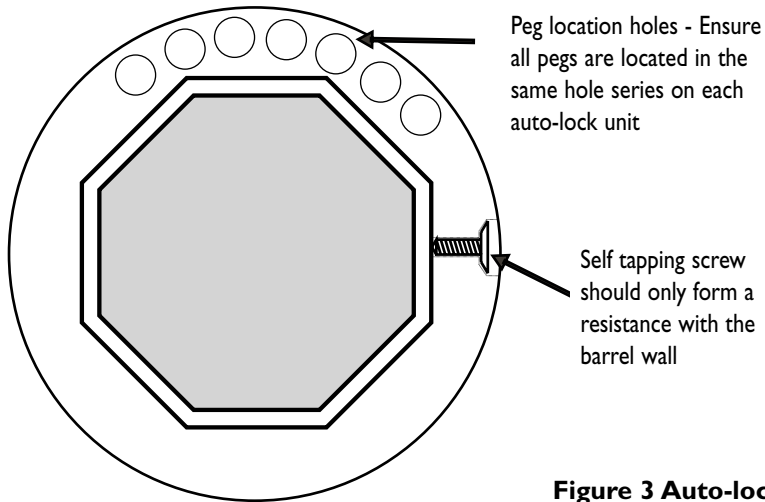
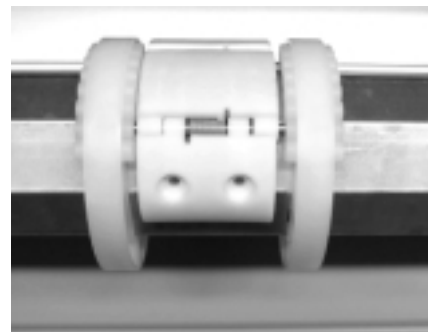


Figure 3 Auto-lock Ring



Auto-lock Unit

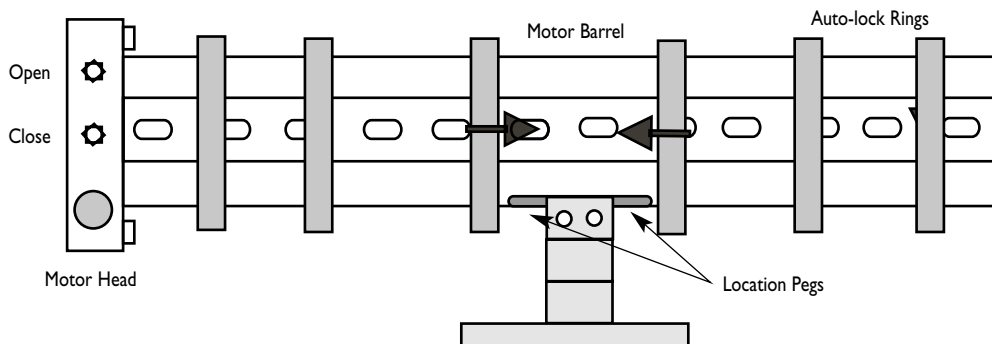


Figure 4 Auto-lock Unit

Step 13 - Setting the Motor Travel Limits

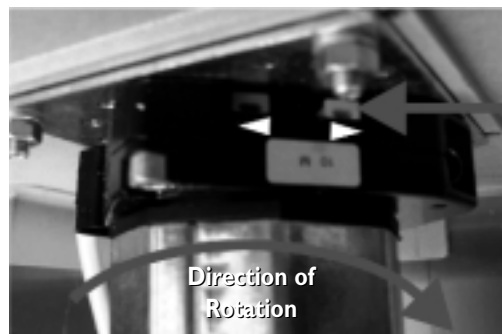
The motor limits are a push button system which need to be depressed to initiate the travel stop. The rotation direction of the barrel is relative to the limit switch (see diagrams) Please follow the steps as indicated below.

1. Remove limit cover.
2. Depress fully both limit switch buttons.
3. Ensure rotation is correct with the control unit indication lights for open and close direction.
If not correct please swap the brown and black connections for the tube motor in the control unit
4. Close the door to the desired position, the manual over-ride can be used to achieve perfect positioning.
5. Depress the corresponding limit button and release. The limit is now set.
6. Repeat the process for the top limit position, using the remaining limit button.
7. Replace the limit cover, carefully ensuring that the limit switch buttons are not depressed.

NOTE: The motor Unit has an inbuilt thermal trip Unit which will activate once the motor unit reaches a pre-determined temperature. Repetitive usage during the limit fine adjustment process can cause the motor to cut out. Please wait approximately ten minutes for the unit to return to a normal operating temperature.



Limit Cover in place



Limit Cover removed

Limit to be adjusted

Direction of Rotation

Step 14 - Fitting the Optional Internal Cover

The optional internal cover can only be installed once the limits are fully set.

- (1) Clip the internal cover into the back box top retaining lip at approximately 10 degrees (See Fig 1).
- (2) Once clipped along the entire length of the back box top lip place the internal cover tight to the head plates.
- (3) Drill and fix in place with self tapping screws or pop rivets.
- (4) Drill a hole in the front cover to allow the manual over-ride bar to pass through and locate into the motor unit. Secure the over-ride to the head plate with self tapping screws.

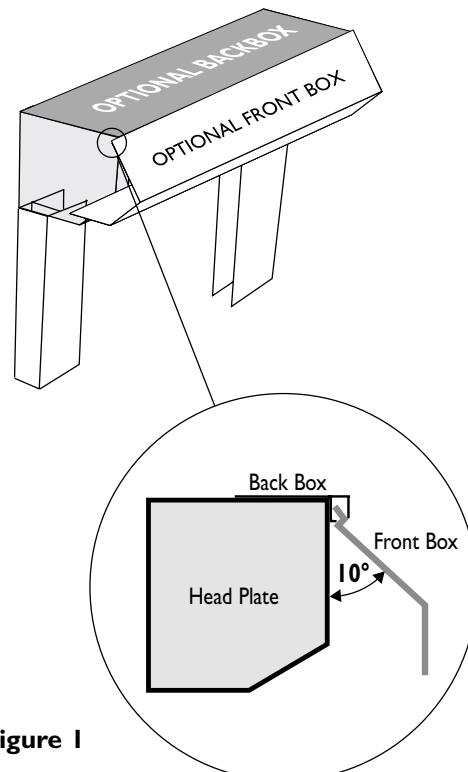


Figure 1

Declaration of Incorporation

<p>SUPPLY OF MACHINERY (SAFETY) REGULATIONS 1992 E.C. DECLARATION OF INCORPORATION GARAGE DOORS FOR POWERED OPERATION</p> <p>HENDERSON</p> <p>A company in the Cardo Group</p> <p>GARAGE DOORS • SLIDING AND FOLDING DOOR HARDWARE COMPOSITE ENTRANCE DOORS</p> <p>P.C. HENDERSON LIMITED, DURHAM ROAD, BOWBURN, DURHAM DH6 5NG.</p>

March 2007

Issue 1 (Insulated Roller Garage Doors)

DOOR TYPE	MAXIMUM WIDTH	MAXIMUM HEIGHT
INSULATED ROLLER DOOR	5400mm	3200mm
COMPACT INSULATED ROLLER DOOR	3800mm	2800mm

Samples of the above doors, at the maximum sizes and weights, have been tested/checked, with regard to suitability for power operation, using Henderson's powered door-operator types with appropriate safety devices etc., all assembled and installed in accordance with the door/operator installation instructions. These doors were found to conform with EN12453.

The types of doors shown are suitable for use with powered operation unless otherwise declared. They must, however, not be put into service as a power operated door until they have been completely and safely assembled and installed, in accordance with the door and operator manufacturers instructions, with a suitable operator and with appropriate safety devices etc., and not until the complete installation has been declared to be in conformity with the provisions of the appropriate standards.

The Technical Files to cover the PC Henderson range of garage doors are held by PC Henderson Limited, and will be made available at the request of an Enforcing Authority should the need arise.

This Declaration of Incorporation has been prepared by the garage door manufacturer to signify that the accompanying garage door operator, if installed in accordance with the manufacturer's detailed instructions will meet the requirements of EN12453.

It is the responsibility of the installer to ensure that doors and garage door operators are correctly matched prior to installation. It is also the responsibility of the installer, legally described as the Responsible Person, to ensure that a suitably nominated person will confirm that the power operated door has been installed in accordance with the instructions provided by both the door and drive unit manufacturer.

It is also the responsibility of the installing company to check after installation that the power operated door and any safety devices provided are suitable for the application and are all working satisfactorily. This will permit the nominated person to attach a CE label identifying the name of the installing company, a unique door reference number and a date of completion. The installing company should label the door and provide the documentation as specified within EN12635.

One copy of the Declaration of Conformity is to be issued to the client and one copy is to be retained by the installing company, together with the relevant two Declarations of Incorporation. In accordance with the requirements of the Machinery Directive and the UK Supply of Machinery (Safety) Regulations, these records are to be retained on file for a period of ten years.

Note.

Duplicated printed pads set out in the format of Declarations of Conformity in order to allow on site completion are available at a reasonable cost from the DSMA for both members and non-members. Alternatively, for an additional cost, a technical records file with full details of requirements and procedures for compliance, and including the necessary filing divisions, is also available.

This declaration is made by:



(V. Brockley, Managing Director)

HENDERSON
GARAGE DOORS

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