

## **Before you start your Installation**

Before you start installation of your Economy Insulated roller garage door you must ensure that the site is clear and that all fixing surfaces are free from any loose plaster or masonry. Ensure that both walls / steels are square and are have no irregularities that could damage or mark the back box (optional) or the door curtain.

## **Unpack the door**

The door curtain will be fully packaged when delivered.  
The guide channel sections should be unpacked and placed either side of the opening. The guide channel sections will have a square spacing leg to ensure that the guide is a good fit to the head plates. Always ensure that the guides are the correct way round.

## **Level 1 - Preparing your Installation**

To determine the back of endplate size you must measure the cut size of the door curtain – not including the black plastic endlocks attached to the curtain. Once you have determined the cut size dimension add 100mm to that dimension to give you your overall manufactured door width.

Measure the garage door opening and deduct this from the overall door width, the size remaining is then divided into two and marked on the garage wall, this is your overall door position.

## **Level 2 – Preparing the Guide channels**

If your guides have not been supplied pre-drilled, drill fixing holes (10mm) through the side guide channel box section starting 150mm from the bottom of the guide channel and evenly space thereafter, your last hole should be 150mm from the top of the guide.

Enlarge your outer fixing hole to 13mm on the inside face of the guide channel to accept the cover grommets.

To assist the smooth operation of the garage door a 20mm saw cut should be inserted at the top of both guide channels on the internal face, and the guide should be flared creating a feed arch below the plate mounted nylon idler wheel.

### **Level 3 – Preparing the endplates**

To prepare the end plates you need to drill a 10mm fixing hole in the top corner of each end plate.

### **Level 4 – Door guide channel and end plate assembly and fixing**

Fit the plate peg into the top of the guide channel box section, stand the guide channels upright. Level the guide channels with the garage opening. Check vertical level on both of the guide channel sections as well as horizontally level across the end plates.

### **Level 5 – Fixing the guide channels**

Fix the guide channel sections into place using the fixing holes previously drilled in level 2.

Secure each guide using a central fixing hole.

Ensure that the guides are level, then completely fix the guide channel sections but do not over tighten the fixings to compensate for mounting surface distortions, pack the walls if required.

**\*Please ensure fixings used are suitable for the garage wall build properties.**

### **Level 6 – Fixing the end plates**

Fit the end plates into position ensuring that the end plates are level and that the locating pegs are fully located into the guide channel box section.

### **Level 7 – Motor barrel assembly**

The motor barrel assembly is held in place by a “U” cup on the non-drive end of the motor barrel, and by four fixings directly mounting the motor to the end plate on the drive end.

The “U” cup will be fitted on the non drive-end plate.

The non-drive end of the barrel has an adjustable shaft, which is held in place in the “U” cup by a nut & bolt.

- Mount the barrel directly to the pre drilled end plates. Ensure that the motor head is in the correct position to allow the limits to be accessed and the over-ride to exit vertically from the bottom of the end plate..
- Using the four countersunk bolts and nuts supplied, fit the drive end of the barrel into position making sure the over-ride position is at the required point.
- When the motor over-ride position had been decided, tighten the motor into position in the end plate using a 10mm socket.
- Drop the non drive end of the barrel into the “U” cup on the end plate.
- Push the shaft in to the desired position. Inset the bolt provided through the “U” cup and the shaft , and lock it off using the nut provided.

## Level 8 – Installation of the manual over ride facility

The manual over ride eyelet and bar comes complete with a universal joint fitted, to enable the emergency winding eye to always be accessible.

The end plates are already prepared with exit points for the over ride facility, depending upon your desired exit point.

### External Over ride

- Cut Universal over ride bar to length
- Insert over ride bar through the motor unit and fasten to the external wall using screws and plastic plugs provided

\*Note: An optional lock system is available for high level external over ride, if the optional lock is used, please follow the first step as above but do not install the over ride bar. Drill a 20mm hole into the box and end plate and insert the lock body.

Secure in place with blind rivets.

When the lock body is removed the over ride bar can then be inserted.

If optional low level over ride is required then please follow the separate instructions supplied with this option.

**Important note: When installing the over ride facility to the external elevation of the garage please ensure that the SECURITY CLOSE is activated on the remote control receiver (See level 10)**

## Level 9 – Mounting and connecting the door 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 the fixing kit as supplied with the Remote Control Unit.

Masonry drill size required is 6mm.

Follow the installation instructions supplied with the control equipment.

**\*Important:** Ensure that 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**

The Remote Control Unit is supplied with the key fob unit factory coded

- 1) Press & hold the receiver mounted operating switch for 5 seconds and release, the receiver mounted LED will go out and flash once.
- 2) Take the hand held 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 the on position 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 now deleted

**\*Note:** The above procedure deletes all transmitters from the receiver. Existing transmitters must be reloaded using the adding transmitters procedure above.

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## **Level 10 – Remote Receiver Unit Advanced Features**

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The remote receiver unit has two onboard dipswitches, which control the following features: -

### **Dip-switch 1 – Security**

When switched on , extends the motor supply feed for the duration of the motor run timer which assists adjustment of screw type limit switches. Dip switch 1 is normally turned off.

Additionally for doors having an external manual over ride , switching on dip switch 3 selects a security system. If the manual override is used to force open the door , the system will power down the door to the closed position.

### **Dip-switch 2 – Decode**

Used when removing lost or stolen transmitters from the receiver memory.

### **Additional switches**

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

To wire a remote bell push use connections Impulse and Common leaving the link wire in position. See diagram with remote controls

## **Level 11 – Photocell Systems**

### **The Photoelectric cell**

The photoelectric cell comes with a wall-mounting bracket to carry the photocell unit. The photocell can also be mounted directly to the door guide channel using self drill screws provided.

**\*Note: The correct installation height for the photoelectric cell is approximately 300mm from floor level.**

\*Once the photoelectric cell 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 photoelectric cell are Amber and Green, the Green light indicates the power to the photoelectric cell with the Amber light illuminating when the unit is activated.

\*To mount the reflector simply hold the reflector in-place on the opposite guide channel to the photoelectric cell and move the reflector slowly until the Receiver mounted LED stops flashing, the Amber beam activation light on the photoelectric cell unit will also extinguish, this indicates photoelectric cell alignment is correct. Fix the reflector in the aligned position.

## Level 12 – Installing the door curtain

- 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 guide channels.
- 3) Feed the door into the guide channels approximately half way. Un-roll the remaining curtain so the curtain is hanging over the motor barrel.

Slide onto the top lath of the door curtain the Auto-locking units provided. Carefully slide the door curtain down to the closed position.

### Auto-locks

By slipping 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.

\*Important note: The self-tapping screws do not fix through the barrel wall, they should only form a resistance with the barrel wall.

## Level 13 – Setting the motor travel Limits

All Economy Insulated roller garage doors are supplied with a 240v tubular motor with screw type limits. The rotation of the barrel is relative to the limit switch.

All motors are supplied with a tool for adjusting the limits , full installation and wiring instructions, please follow the steps below.

- 1) Establish the down limit on the motor
- 2) Using the tool provided , turn the screw limit in the direction of the minus sign for approx. 4 full turns.
- 3) Press the button on the transmitter once to open the door. Press again to stop the door at approx. 300mm from the floor.
- 4) Press the button on the transmitter again to close the door. The door will stop just before reaching the floor.
- 5) Keep the button on the transmitter pressed whilst turning the down screw limit towards the plus sign until the desired position is achieved.
- 6) Repeat the process for the top limit position, using the remaining limit button.

**Note: The motor unit has an inbuilt thermal trip unit that 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.**