

## FITTING INSTRUCTIONS - NOTICE DE POSE - MONTAGE HANDLEIDING - MONTAGEANLEITUNG ISTRUZIONI DI MONTAGGIO - INSTUCCIONES DE MONTAJE



Maximum Weight = 80kg Maximum Door Width = 1100mm (to suit 1020mm clear opening)

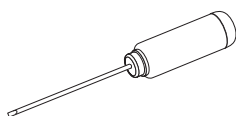
These instructions describe how to install the track & sliding door gear - for operation of the Drive unit & wiring detail for the addition of switches & or sensors please refer to the operating instructions for RolloSystem T2.

Before you commence work, please read through these instructions completely & follow all the safety instructions. Please store these instructions in a safe place and pass them on to any future owners. Damage resulting from non - compliance with these instructions and safety instructions will void the warranty. PC Henderson nor the drive unit manufacturer will assume any liability for any consequential damage.

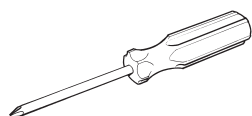
### Quick Start

For quick start installation sequence for the drive unit please refer to page 69 in the drive unit manufacturer operating instructions for RolloSystem T2

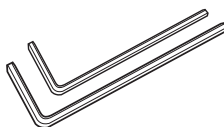
### Tools required



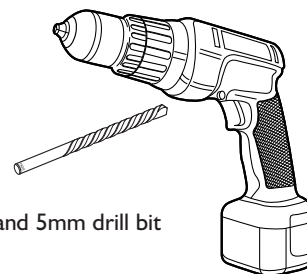
Electricians screwdriver



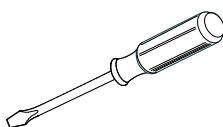
Posi screwdriver



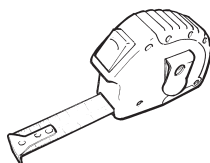
5 & 4mm Allen keys



Drill and 5mm drill bit



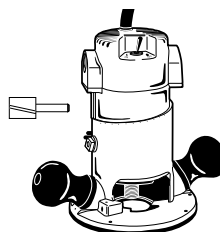
Flat head screwdriver



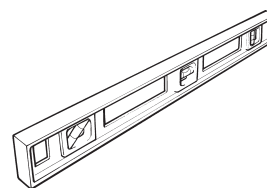
Tape measure



Scissors



Router & 7mm bit

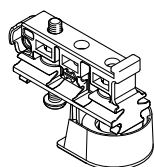


Spirit Level

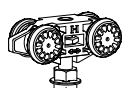
### Fixings required (not supplied by PCH)

Wall fixing screws and wall fixings (SWL 120kg)

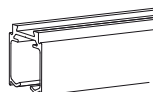
### Contents of kit



1 x Husky Clipstop Assembly



2 x Husky 100kg Hanger



1 x 2m Anodised Track



2 x 287 Stop



8 x Face Fix Spacer



6 x Husky Face Fix Bracket



2 x Jointing Bracket



2 x M6 Nut



1 x Linear Timing Belt



2 x Apron Plate



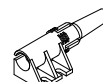
2 x M6 x 30 CSK Screw



8 x Ø4x25 Countersunk Woodscrew (Apron Plate)

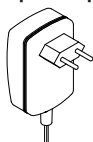


2 x Ø5 x 28 Domed Head Woodscrew (Clutch Base)



1 x Clutch Base & Release Pin

#### European Supply

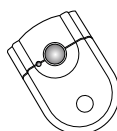


1 x 2 Pin 24Volt Transformer

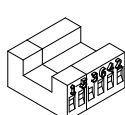
#### UK & Ireland Supply



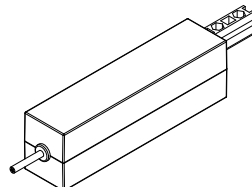
1 x 24Volt Transformer (To be hard wired in to a fuse spur) Not PCH



2 x Remote Fob



1 x Terminal Block



1 x Rollo System RS-T2 Drive Unit

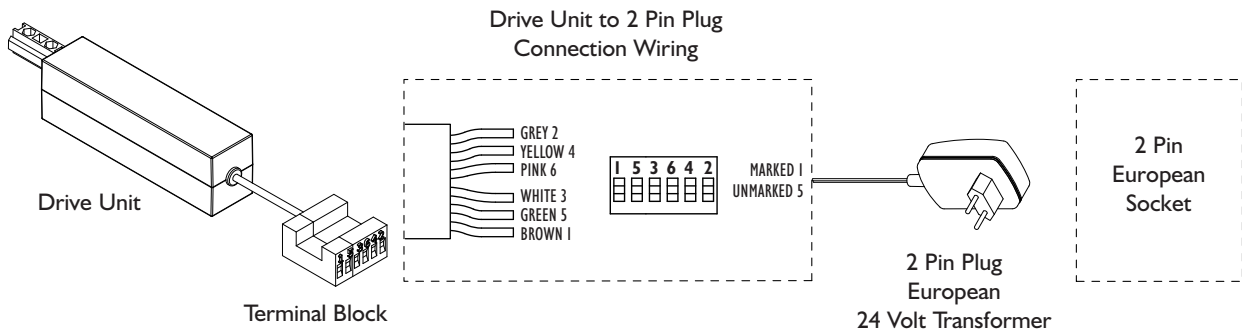


1 x 102N Floor Guide

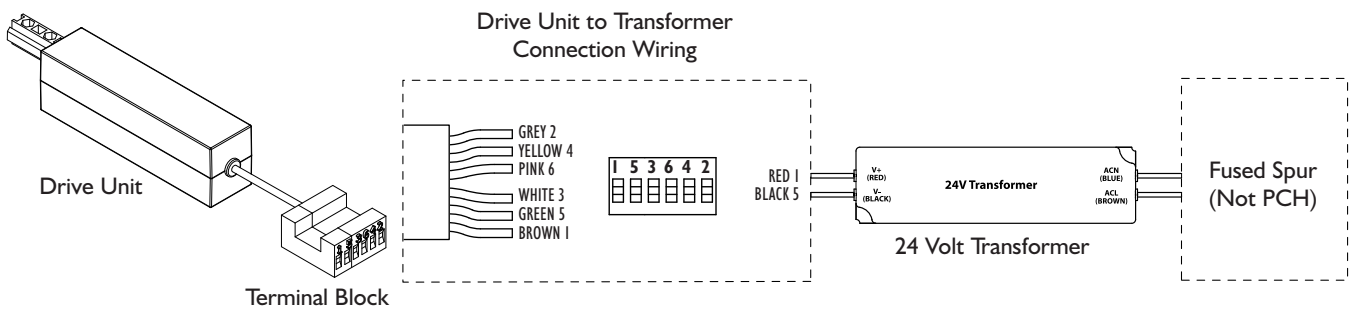


1 x Spanner 320

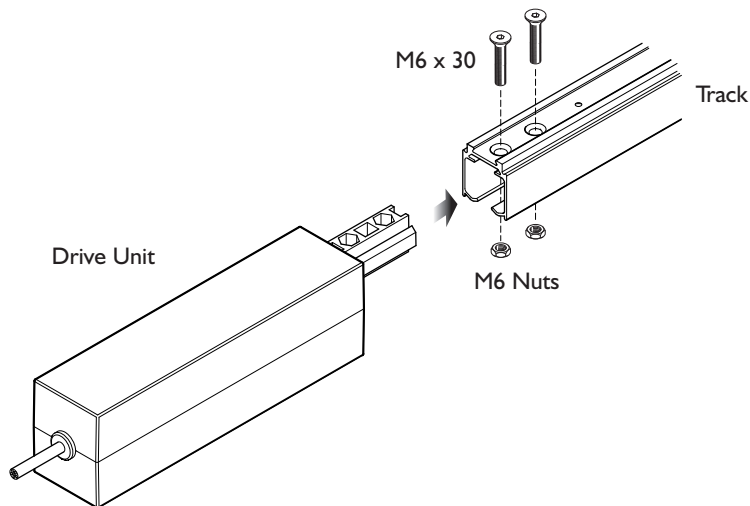
## Wiring diagram - European



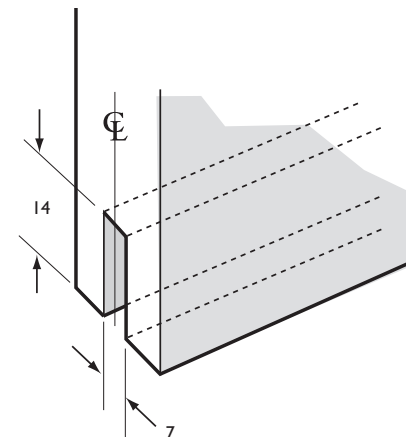
## Wiring diagram - UK and Ireland



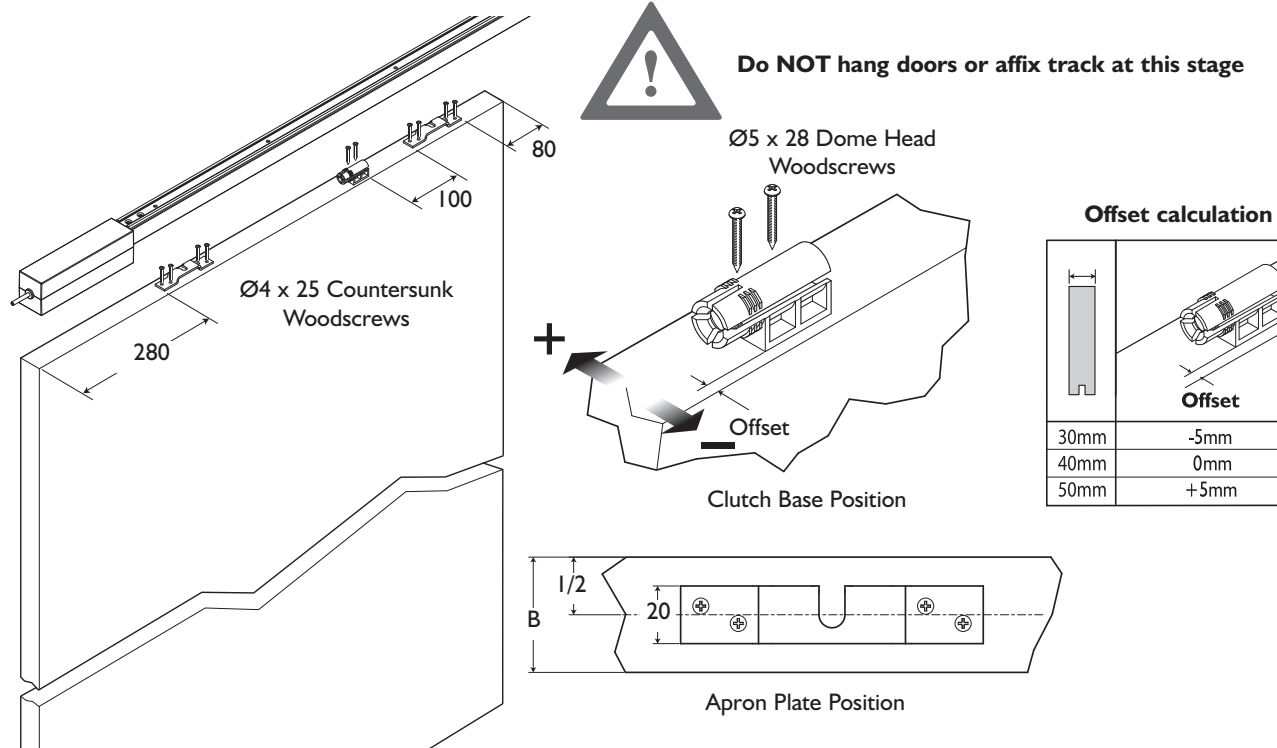
### 1 Secure drive unit to track



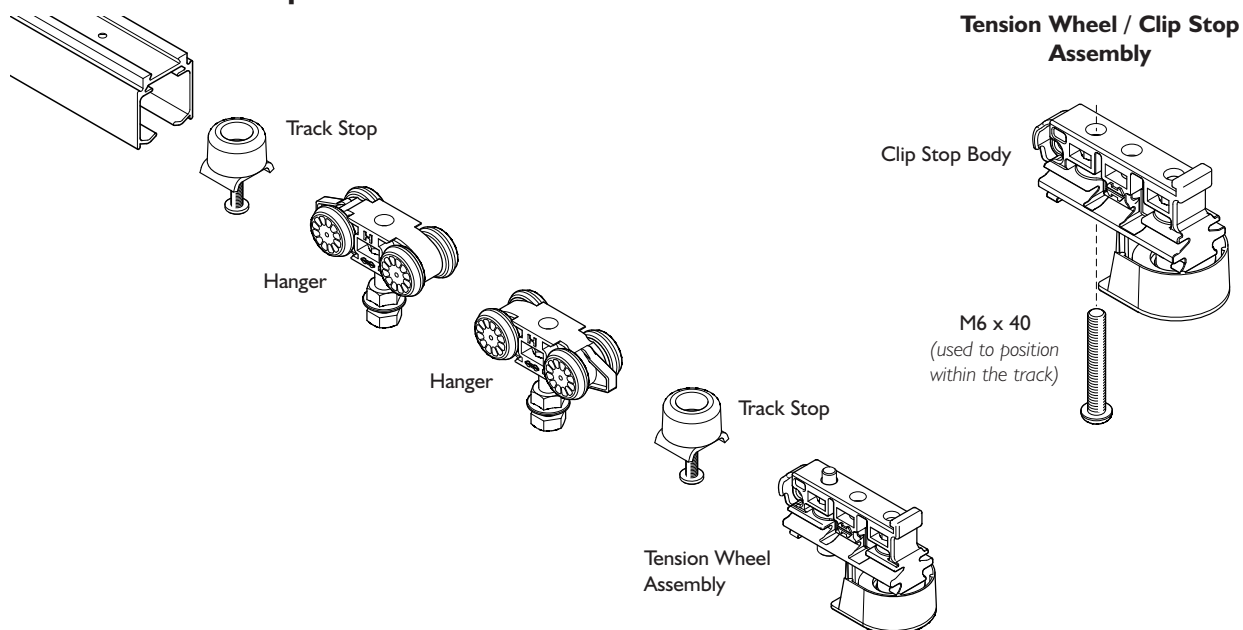
### 2 Rebate door for 102N (if guide required)



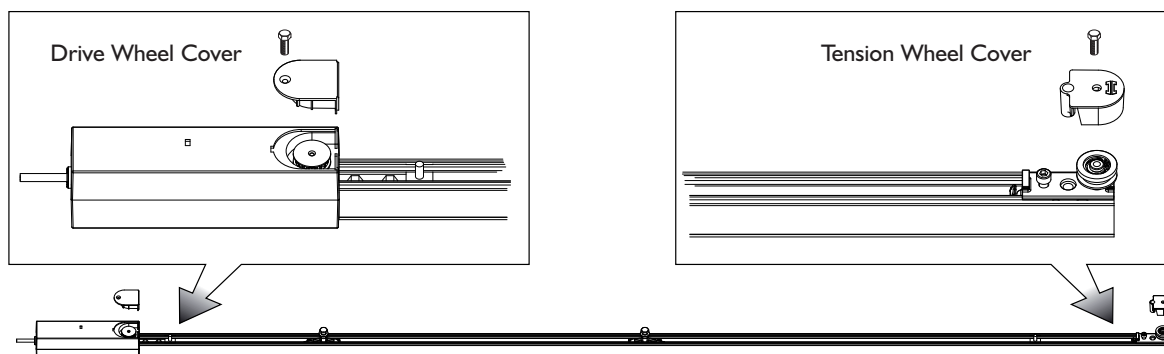
### 3 Attach hanger plates and clutch base to top of door



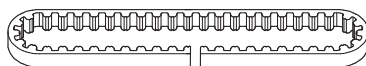
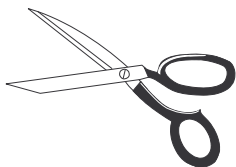
### 4 Insert track components



### 5 Remove covers to allow linear timing belt to be attached



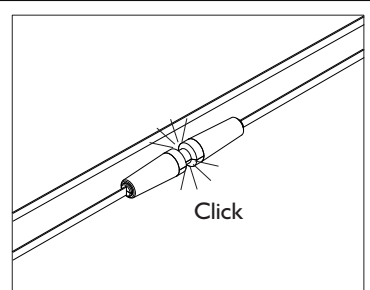
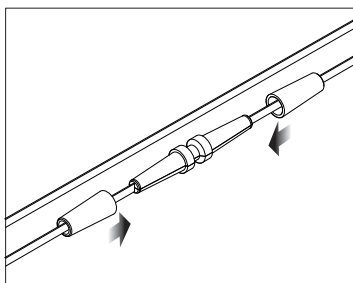
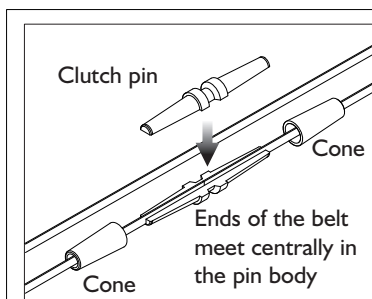
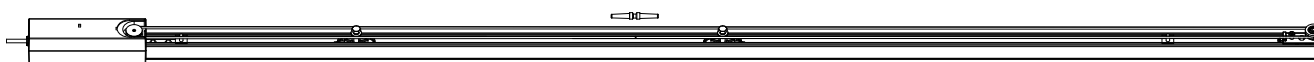
## 6 Cut linear timing belt to length (no overlap required)



Torsion wheel to be positioned at the end of the track



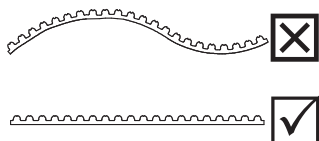
## 7 Fit clutch pin to connect both ends of the linear timing belt



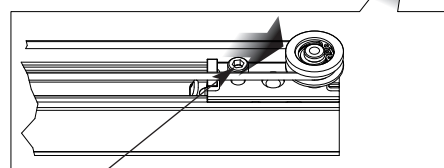
## 8 Tension linear timing belt



Tension Guide



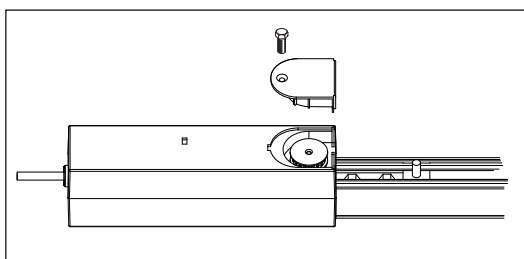
Push tension wheel assembly so the belt is torted and secure assembly in position by tightening the M6 bolt



M6 bolt

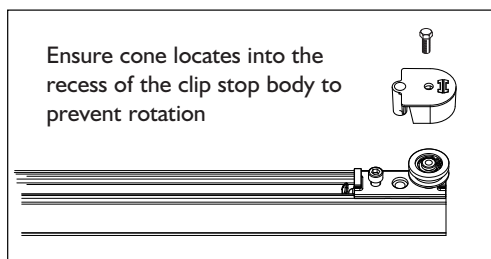
## 9 Refit drive wheel and tension wheel covers

Drive Wheel Cover



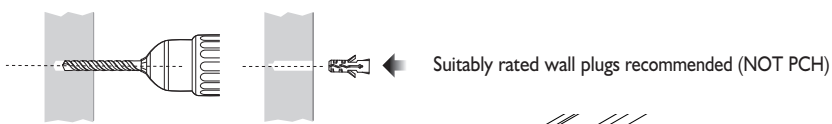
Tension Wheel Cover

Ensure cone locates into the recess of the clip stop body to prevent rotation



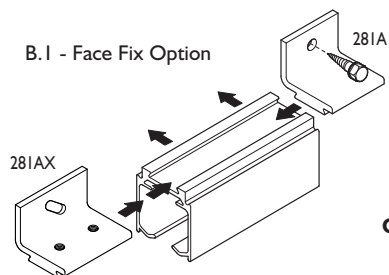
## 10 Secure track

### A - Fit suitable wall anchors (Not PCH)

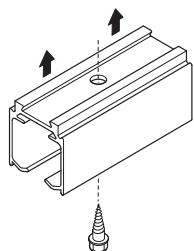


### B - Attach brackets

#### B.1 - Face Fix Option

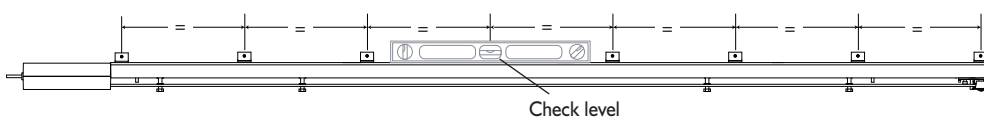


#### B.2 - Soffit Fix Option

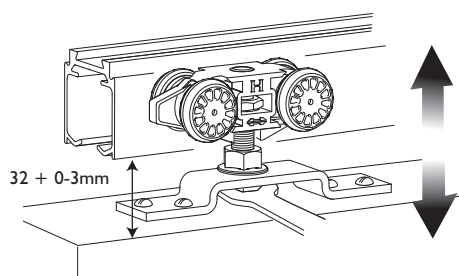
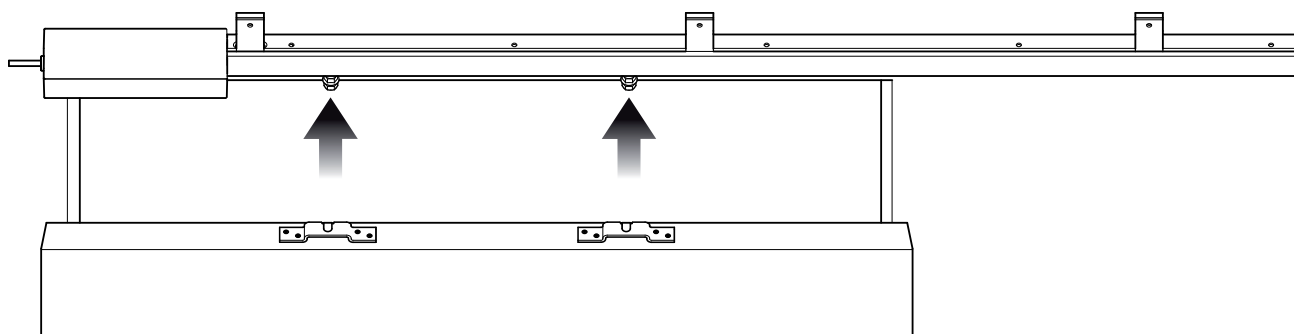


### C - Affix track to wall

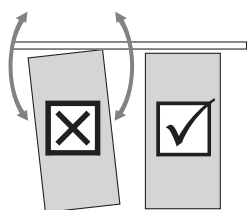
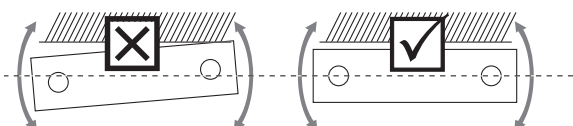
### D - Check level prior to firm fix



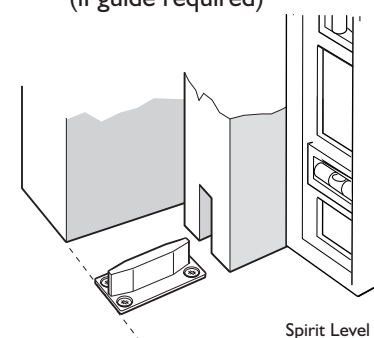
## 11 Hang door and adjust height



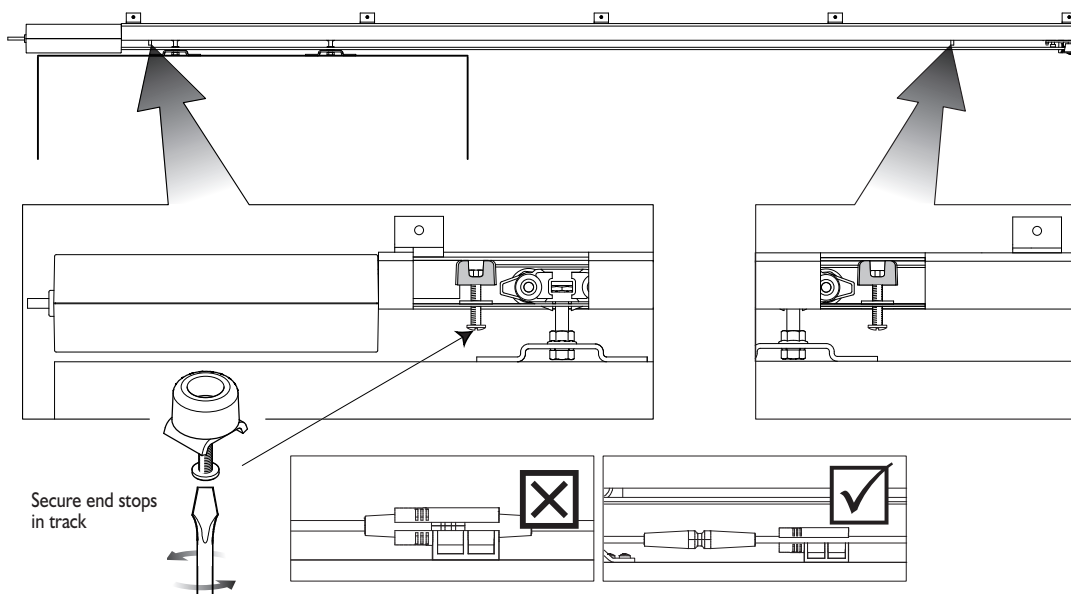
Using supplied spanner secure door to track



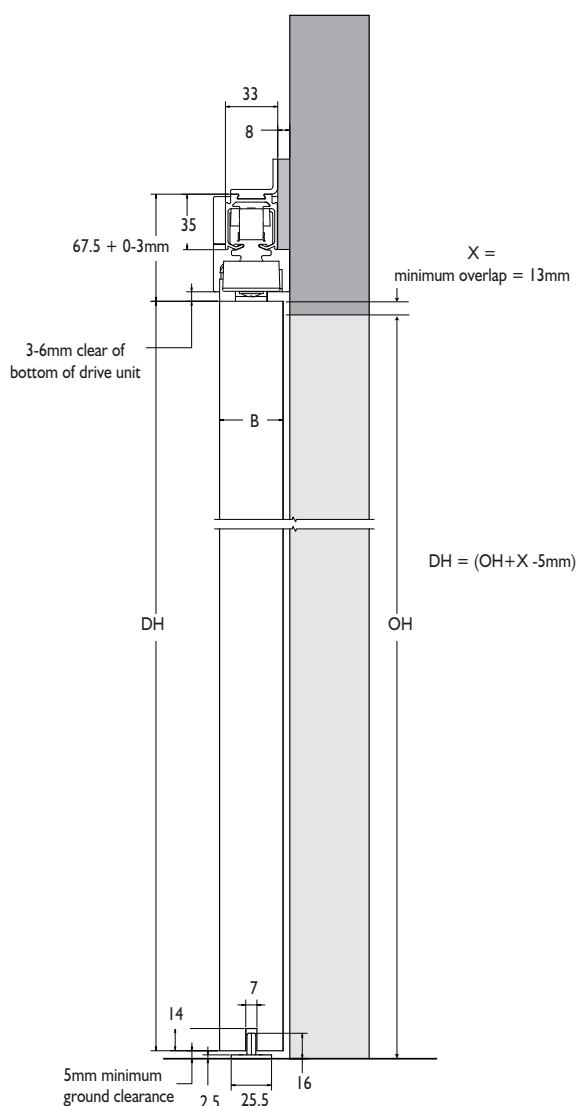
## 12 Fit door guide (if guide required)



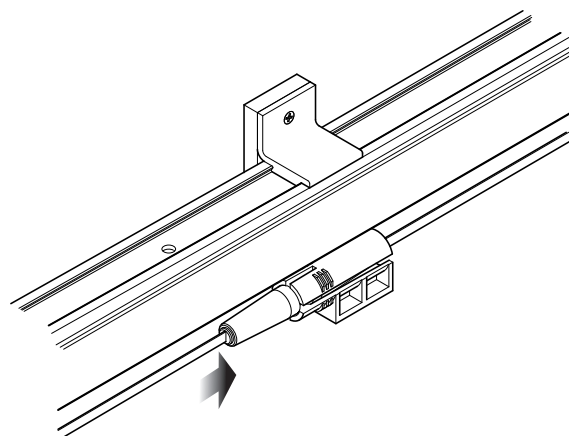
### I3 Set stops in track to suit required travel



### I4 Door height and overlap calculation



### I5 Engage the clutch pin into the base then follow drive set up instructions



**For English language operation instructions & external motion /sensor wiring please refer to the drive unit manufacturers manual from page 49.**

### **Please note**

The original languages of these instructions are English.

The airborne noise of the system under normal operating conditions does not exceed 70dB (A).

### **General safety precautions**

This installation manual is intended for professionally competent personnel only.

Installation, electrical connections and adjustments must be performed in accordance with Good Working Methods and in compliance with applicable regulations. Before installing the product, carefully read the instructions. Bad installation could be hazardous.

The packaging materials (plastic, polystyrene, etc.) should not be discarded in the environment or left within reach of children, as these are a potential source of hazard.

Before installing the product, make sure it is in perfect condition.

Do not install the product in an explosive environment and atmosphere: gas or inflammable fumes are a serious risk hazard.

Before installing the system, ensure all structural changes relating to safety clearances and protection or segregation of all areas where there is risk of being crushed, cut or dragged, and danger areas in general.

Make sure the existing structure is up to standard in terms of strength and stability.

**Each installation must clearly show the identification details of the motorized door or gate.**

**Apply hazard area notices required by applicable regulations.**

The electricity supply must be isolated at its source before attempting installation or maintenance.

### **Disclaimer**

PC Henderson nor the drive unit manufacturer take responsibility for failure to use Good Working Methods in building the frames to be motorized or for any deformation occurring during use.

PC Henderson & the drive unit manufacturer declines all responsibility in the event of component parts being fitted that are not compatible with the safe and correct operation.

For repairs or replacements of products only original spare parts must be used.

### **Installer responsibility**

The installer should provide technical documentation once the installation is complete, this should include

- EC declaration of conformity with the machinery directive
- Installation manual
- Maintenance / Trouble shooting guide (supplied in the drive unit manufacturer operation manual)

**The installer is also responsible for affixing final CE mark upon the installation.**

### **Manufacturers Declaration of Incorporation**

Manufacturer: **PC Henderson Ltd**  
Durham Road  
Bowburn  
Durham  
DH6 5NG

Telephone: 0191 377 7345

Fax: 0191 377 3116

Hereby declares that the electromechanical automatic door operating system

**Evolve 80**

**Evolve 80 SIM Kit**

**Evolve 60 Pocket Door Kit**

Are intended to be incorporated into machinery or to be assembled with other machinery to constitute machinery covered by directive 2006/42/EC

It is in conformity with the provisions of the following directives:

Electromagnetic Directive 2004/108/EC

The technical file is maintained at:

**PC Henderson Ltd**

Durham Road  
Bowburn  
Durham. DH6 5NG

The authorised representative located within the community is:

**Fergus Pickard**

**Product Development Director**

PC Henderson Ltd  
Durham Road  
Bowburn  
Durham. DH6 5NG

The above named undertakes to transmit in response to a reasoned request by national authorities, relevant information on the partly completed machinery.



Fergus Pickard, Product Development Director  
Bowburn, Durham  
25/07/12

# Operating Instructions for Evolve Automation Sliding Door system

## Release operation

In the event of malfunction or if there is no mains power supply, move the door manually.

## General Safety Precautions

The following precautions are an integral & essential part of the product and must be supplied to the end user. Read them carefully as they contain important indications for the safe installation, use and maintenance. These instructions must be kept and forwarded to all possible future users of the system. This product must be used only for that which it has been expressly designed; any other use is to be considered improper and therefore dangerous.

The manufacturer cannot be held responsible for possible damage caused by improper, erroneous or unreasonable use.

### Avoid operating in the proximity of moving mechanical parts.

Do not enter the field of danger of the motorised door while in motion.

Do not obstruct the motion of the motorised door as this may cause a situation of danger.

Do not lean against or hang on to the barrier when it is moving.

Do not allow children to play or stay within the field of action of the motorised door.

Keep remote control or any other control devices out of reach of children, in order to avoid possible involuntary activation of the motorised door.

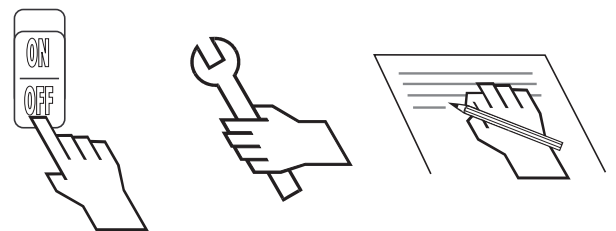
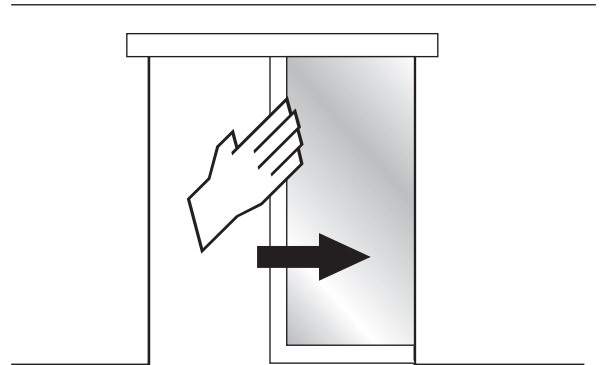
In the case of breakdown or malfunction of the product, disconnect from the mains, do not attempt to repair or intervene directly & contact only qualified personnel.

Failure to comply with the above may create a situation of danger.

All cleaning, maintenance or repair work must be carried out by qualified personnel.

In order to guarantee that the system works efficiently and correctly it is indispensable to comply with the manufacturers indications thus having periodic maintenance of the motorised door carried out by qualified personnel. In particular regular checks are recommended in order to verify that the safety devices are operating correctly.

All installation, maintained and repair work must be documented and made available to the end user.



**Installer training available upon request, please note this attracts a fee.**

INSTALLER

## EC Declaration of Conformity - Machine Directive 2006/42/CE Schedule II Part 2

Manufacturer:

PC Henderson Ltd

Address:

Durham Road, Bowburn, Durham, DH6 5NG

Name & Address of authorised installer: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Hereby Declare:

**Henderson**

- ☐ Evolve 80  
☐ Evolve 80 SIM Kit  
☐ Evolve 60 (Pocket door)

Installed at (Installation address): \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Conforms to Directive:

☐ **2006/42/CE – Machine Directive**

State that it fulfils the applicable portions of the following standard

☐  
☐  
☐  
☐

Date & location of Signature: \_\_\_\_\_

Signature of the person legally responsible: \_\_\_\_\_

**This completed document forms part of the European conformity (CE marking) – to be  
completed by installer & forwarded to end user.  
Must be kept for ten years from installation date.**

## Markings

Each installation must clearly show the identification details of the motorized door or gate. The installer should apply hazard area notices required by applicable regulations, such as that shown below.

The installer must affix & complete the data tag supplied to the final installation in a suitable prominent position.



**www.pchenderson.com**

**P C Henderson Limited**  
 Durham Road, Bowburn,  
 County Durham,  
 DH6 5NG, UK

Tel: +44(0)191 377 7345  
 e-mail: sales@pchenderson.com

INSTALLER

DATE



**The installer must affix warning signs to the installation on both sides of the door, similar to those shown.**



**Installer to complete with contact details; Address & telephone number; to be completed with legible and permanent black ink.**

## Maintenance schedule

### Turn off the power

- Clean the moving parts
- Check the belt tension
- Clean the sensors/ remote fob (where applicable)
- Check the stability of the automatic system and make sure that all screws are correctly tightened.
- Check the alignment of the door and the stop positions

### Turn on the power

- Check the stability of the door and that the movement is regular and without friction.
- Check that all command functions are operating correctly.
- Check that the doors developed powers are in accordance with the present standards.

## Critical Parts Maintenance Schedule

Part Description	Part Number	Description of function	Degradation of component indicators	Maintenance interval	Planned replacement schedule
Tension wheel assembly	668349			From new - Six months - once a year thereafter	- #
Tension wheel sub assembly	668324	Supports belt movement within machine	Cracking - excessive wear - slipping	From new - Six months - once a year thereafter	Every 10 years of service*
Wheel cover	668323	Moving part protective cover	Cracking - discolouration - slipping	From new - Six months - once a year thereafter	- #
Linear timing belt	668350 (4.5mtr); 668351(4.0 mtr); 668352 (9.0mtr)	Provides movement to doors within system	Fraying/Shearing - elongation - discolouration	From new - Six months - once a year thereafter	Every 2 years of service*
Drive unit	668320 (c/w 2 pin Euro plug) 668354(c/w 24v transformer)	Provides movement to doors within system	Repeated error messages - failure of machine	From new - Six months - once a year thereafter	- #
Toothed belt wheel	By Special request only	Provides drive to machine	Stripping of teeth - discolouration - Slipping	From new - Six months - once a year thereafter	- #
Toothed belt wheel cover	By Special request only	Moving part protective cover	Cracking - discolouration	From new - Six months - once a year thereafter	- #
Hanger	665507	Door is suspended from Hanger	Black deposits within track / on top of door	From new - Six months - once a year thereafter	- #

\* = or sooner dependent upon operating conditions. # = Replacement only recommended when apparent excessive wear affects the performance of the installation

This proof book contains technical references and records of installation, maintenance, repair and alterations carried out and must be made available for any inspection by authorised bodies. This book should be completed by the installer and forwarded to the end user.

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### Specifications of the motorised door and installation

Customer: \_\_\_\_\_

Order Number: \_\_\_\_\_

Model & description: \_\_\_\_\_

Dimensions and Weight: \_\_\_\_\_

Location: \_\_\_\_\_

### List of components installed

Motor /Drive unit \_\_\_\_\_

Switch: \_\_\_\_\_

Remote Fob: \_\_\_\_\_

Motion Sensor: \_\_\_\_\_

### Sign off check sheet:

- |  |   |
|--|---|
| <input type="checkbox"/> Declaration of conformity filled out                | <input type="checkbox"/> Henderson & the drive unit manufacturer fitting instructions |
| <input type="checkbox"/> Proof book filled out                               | <input type="checkbox"/> All documents left with end user                             |
| <input type="checkbox"/> CE label completed & installed in suitable location | <input type="checkbox"/> Signature of receipt   |
| <input type="checkbox"/> Warning signs installed in suitable location        |   |

### Warning of residual risks and of foreseeable improper use

Inform the end user of risk points regarding existing risks and foreseeable improper use.

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Description of the work

☐ Installation

Details: \_\_\_\_\_

☐ Start up

\_\_\_\_\_

☐ Adjustments

\_\_\_\_\_

☐ Maintenance

\_\_\_\_\_

☐ Repairs

\_\_\_\_\_

☐ Alterations

\_\_\_\_\_

Date: \_\_\_\_\_ Technicians Signature: \_\_\_\_\_ Customers Signature: \_\_\_\_\_

Description of the work

☐ Installation

Details: \_\_\_\_\_

☐ Start up

\_\_\_\_\_

☐ Adjustments

\_\_\_\_\_

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\_\_\_\_\_

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\_\_\_\_\_

Date: \_\_\_\_\_ Technicians Signature: \_\_\_\_\_ Customers Signature: \_\_\_\_\_

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\_\_\_\_\_

☐ Repairs

\_\_\_\_\_

☐ Alterations

\_\_\_\_\_

Date: \_\_\_\_\_ Technicians Signature: \_\_\_\_\_ Customers Signature: \_\_\_\_\_