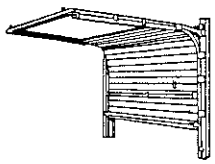
LEARNING POINTS:

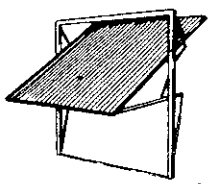
1. SITE INSPECTION TO DETERMINE THE REQUIREMENTS
   - a) Identify door types to be automated
   - b) Test the door manually
   - c) Check legal requirements
   - d) Special requirements
   - e) Remote controls - type required

TYPES OF DOORS

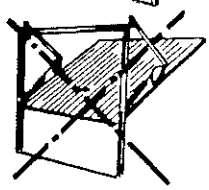
The DIGIDOOR II Garage Door Operator may be installed on the following types of Doors:



SECTIONAL DOORS
Hinged panels with rollers running in vertical and overhead horizontal track. Normally 4 or 5 sections per door. Normal Installation: Powerhead installed Below a 3 100mm Screwdrive assembly.



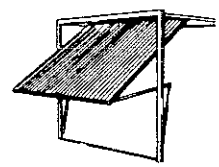
ONE-PIECE DOORS WITHOUT TRACKS.
One-piece which normally protrudes from the opening in the open position.
Normal installation:
Powerhead installed Above a 2 300mm Screwdrive assembly.



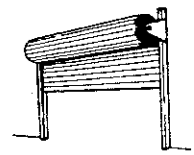
ONE-PIECE DOOR WITH VERTICAL TRACKS (COR-O-CAM).

⚠ ***Caution:***
Do not automate doors with this type of mechanism.

ONE-PIECE DOORS WITH HORIZONTAL TRACK.
One piece with rollers running in horizontal tracks. Normal installation: Powerhead installed Below a 3 100 mm Screwdrive assembly.



ROLL-UP DOOR
(Not roller-shutter)
⚠ **Note:** A specialized installation kit is needed. Corrugated metal door sliding in vertical tracks and rolling up into a cylindrical shape above the lintel.
Normal Installation: Powerhead installed above a 2 300mm Screwdrive assembly.



⚠ **Note:** *Lightweight Aluminium and steel door must be substantially reinforced for automation. If in doubt as to door type check with the door supplier as to what is required for successful automation.*

⚠ **Note:** ***Counterweight*** *doors are* ***not suitable*** *for automation; spring conversion kits are available.*

CONDITION OF DOOR:

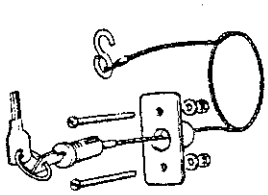
For successful automation, a door should be in good working condition, i.e. it should be possible to open and close easily with one hand, be correctly sprung and run smoothly without sticking or binding. Torsion springs should be greased. Tracks should be well secured with correct clearances and be clean and free of grime. Badly worn hinges, rollers and bushings should be repaired or replaced. Remove all unnessecary ropes, brackets, levers, etc. Thirty minutes spent on servicing a door prior to automation will pay dividends in the form of an easier and more reliable installation.

⚠ **Caution:** Garage doors, door springs, cables, pulleys, brackets and the hardware are under extreme force and can cause serious personal injury.

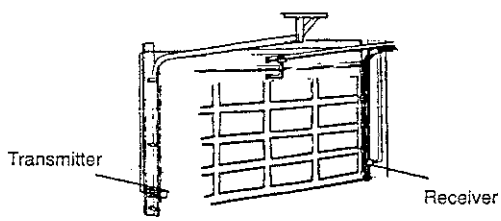
Note: *Most complaints of unsatisfactory garage door operation can be traced to problems with the door itself. DIGIDOOR II is not intended to correct any problems that are caused by an unbalanced or binding door. When operated manually, a properly balanced door will stay at any point of its travel, while being supported entirely by its springs.*

ACCESSORIES

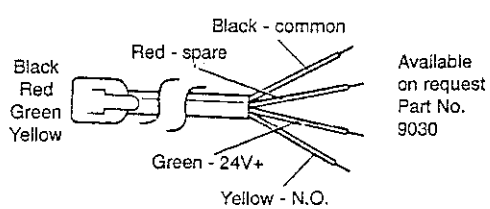
EMERGENCY KEY RELEASE
This is required where a garage has no service door, and allows the door to be manually released from outside in the case of a power failure.



SAFETY BEAMS
The photocell package comprises an Infrared Transmitter and Receiver which can be fitted across the doorway for added safety.



OPTIONAL SAFETY BEAM
⚠ **Note:** *Use 4 core stranded telephone cable and 4 P4C telephone plug (not supplied)*

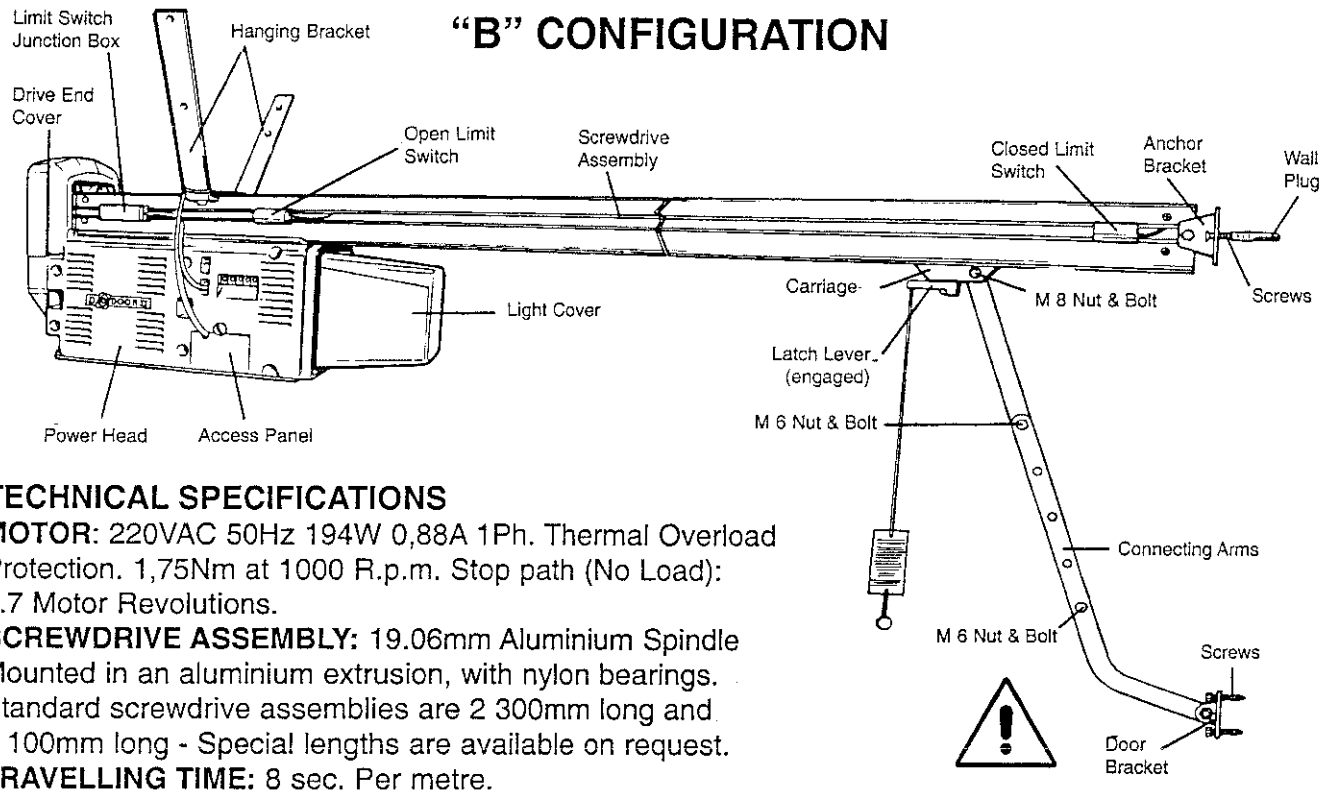


LEARNING POINTS:

2. IDENTIFY AND NAME KEY COMPONENTS

a) Features and benefits
b) Wall console
c) Sensitivity screw adjustment
d) Limit switches
e) Carriage
f) P C Boards
g) Belts

"B" CONFIGURATION

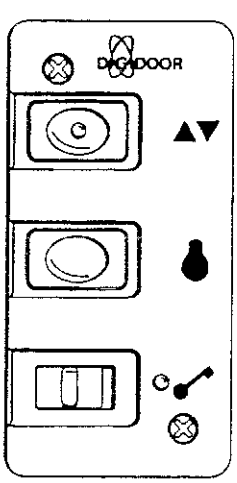


TECHNICAL SPECIFICATIONS

MOTOR: 220VAC 50Hz 194W 0,88A 1Ph. Thermal Overload Protection. 1,75Nm at 1000 R.p.m. Stop path (No Load): 5.7 Motor Revolutions.
SCREWDRIVE ASSEMBLY: 19.06mm Aluminium Spindle Mounted in an aluminium extrusion, with nylon bearings. Standard screwdrive assemblies are 2 300mm long and 3 100mm long - Special lengths are available on request.
TRAVELLING TIME: 8 sec. Per metre.
OPERATING TEMPERATURES: -20 Deg. C to +5 Deg. C.
CONTROL SYSTEM: Micro processor, solid state, low voltage controls.
TYPICAL CLEARANCE REQUIRED: 'A' configuration 240mm - 'B' configuration 100mm

Caution: *Damage may result if the connecting arm is forced backwards while only one end is attached to the carriage.*

WALL CONSOLE



For convenience and where applicable, a wall console is normally installed internally at the side door to the garage for local operation. The wall console has four features:-

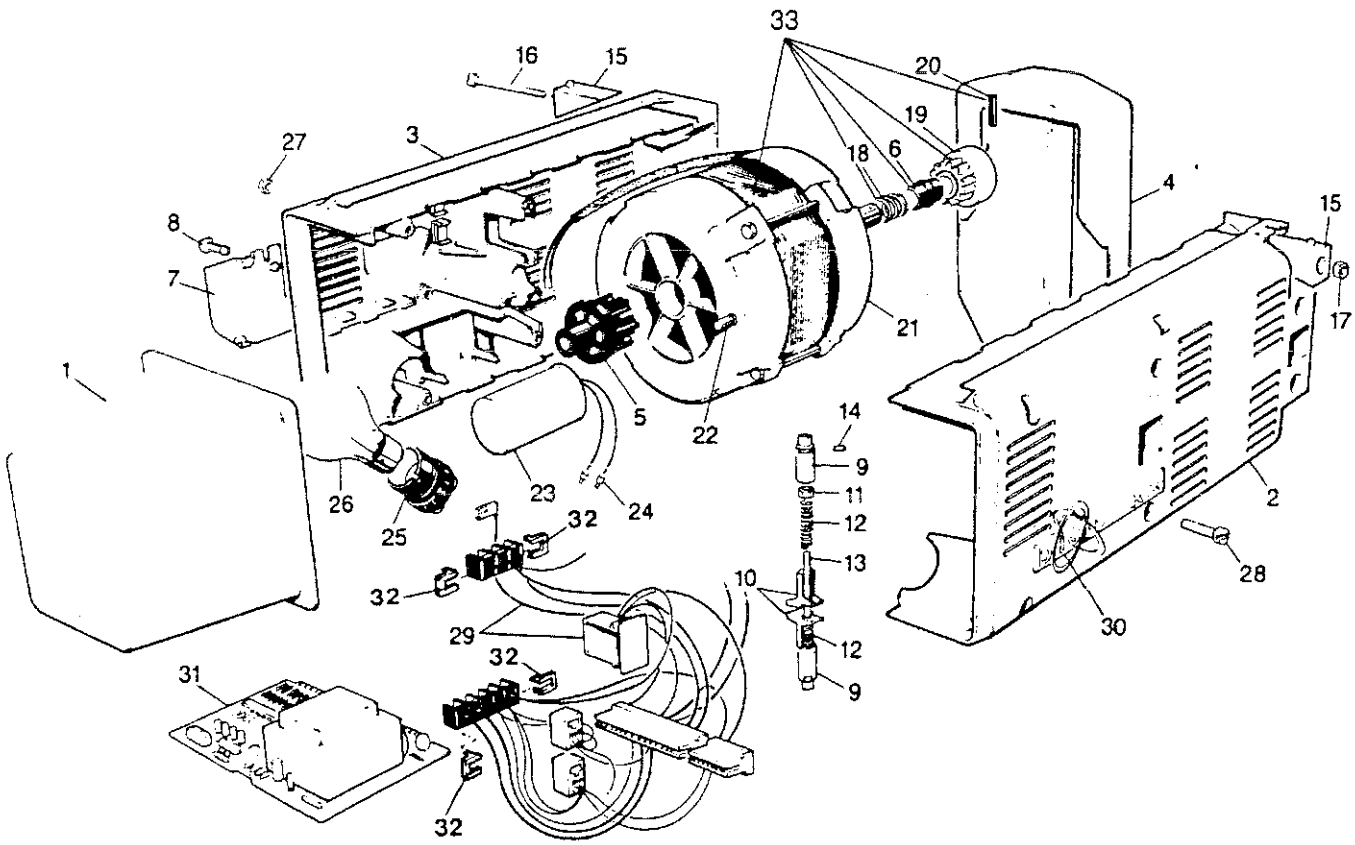
LED - this indicates that you have power on the machine and serves as a "find-me - in-the-dark" feature.

▲▼ - use this button to open, stop or close the door, similar to the use of the transmitter button. (Refer to Remote Control).

- this will switch the light "ON" and "OFF" without operating the DIGIDOOR II unit. Turned on in this way, the light will stay on.

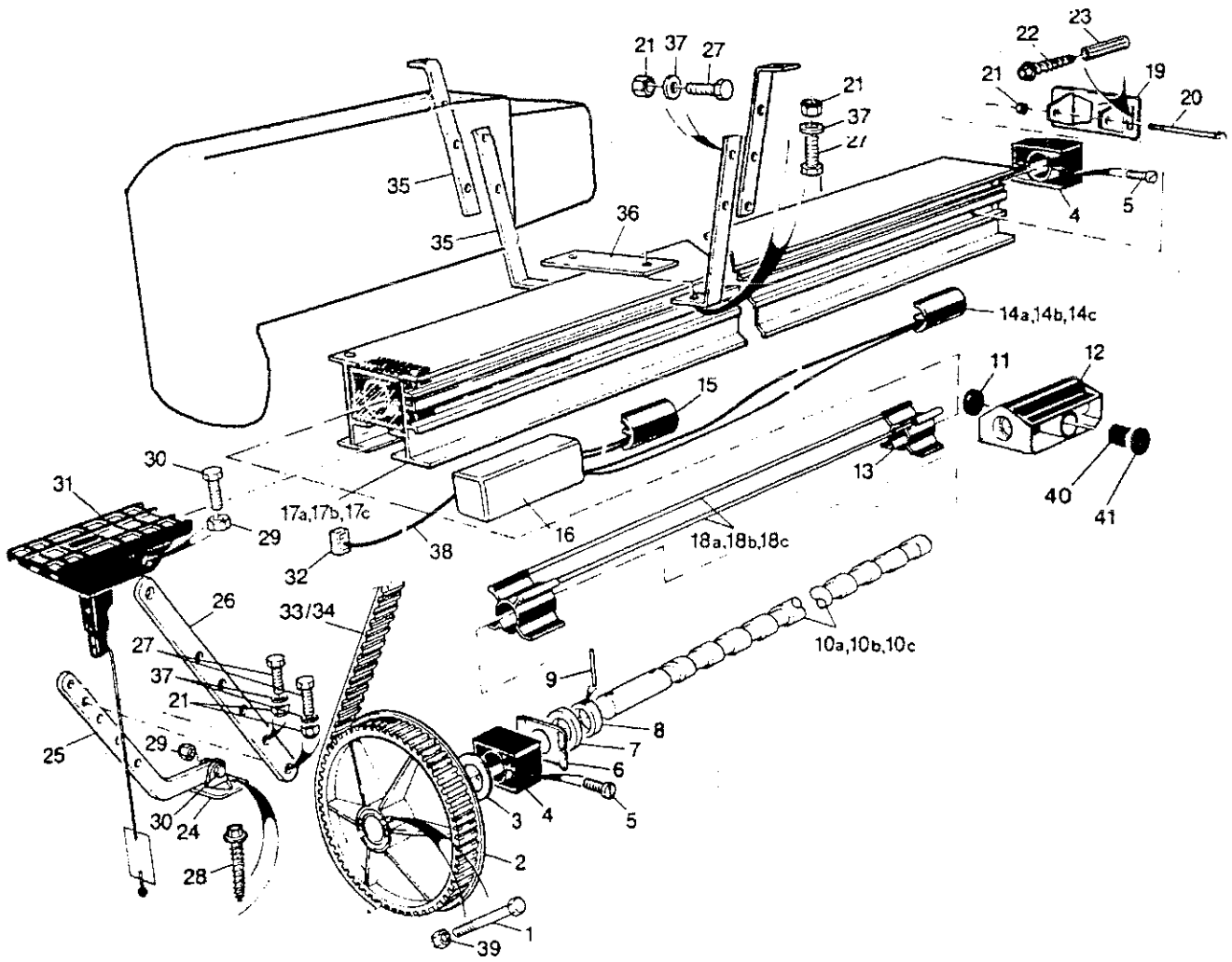
- switching to the "LOCK" position electronically disables the unit so that no further operation is possible.

POWERHEAD ASSEMBLY



No.	Part No.	Description	No.	Part No.	Description	No.	Part No.	Description
1	FP0895	Light Lens	12	FP1475	Rocker Spring	23	DP0465	Capacitor 12.5 vF
2	DP0250	Housing Left Side	13	DP0045	Rocker Rod	24	DP0585	Insulated Connector
3	DP0255	Housing Right Side	14	DP0290	Rocker Peg	25	DP0780	Light Bulb Holder II
4	DP0260	Belt Cover	15	DP0320	Wedge	26	ZZ0100	40W B/C Light Bulb
5	DP0300	Rocker CAM II	16	FP0280	Screw M5 x 65	27	FP0204	Nut M4
6	DP0315	Motor Bearing Bush	17	FP0205	Nut M5	28	FP0275	Screw M4 x 12 Pozi
7	DP0270	Hatch	18	FP1470	Motor Support Spring	29	DS0090	Wire Assembly II
8	DP0275	Hatch Retainer	19	FP0896	Pulley 16 Tooth	30	DP0330	Digidoor I Logi
9	DP0280	Rocker Adjuster II	20	FP0133	Selloc Pin 3 x 30	31	DS0015	Control Board Digidoor II
10	DP0285	Rocker Slide II	21	FP1550	Motor	32	DP0340	Connector Clip
11	FP0206	Nut M6 6	22	FP0735	Rocker Stud	33	DS0200	Digidoor II Sub-Assembly Motor

SCREWDRIVE ASSEMBLY



No.	Part No.	Description	No.	Part No.	Description	No.	Part No.	Description
1	FP0330	Screw 4 x 40	14b	DS0251	Limit Switch (EXA) 2 250mm	26	DP0115	Straight Arm
2	FP0899	Pulley	14c	DS0253	Limit Switch (EXS/EBS)	27	FP0378	Bolt 6 x 20
3	DP0035	Thrust Washer			2 250mm	28	DP0295	Screw Coach 8 x 30
4	DP0335	Bearing	16	DP0325	Junction Box	29	FP0228	Nyloc Nut M8
5	FP0285	Screw Pozi 8 x 13	17a	DP0160	Extrusion, 2 300mm (EXA)	30	FP0385	Bolt 8 x 25
6	DP0040	Washer Square	17b	DP0163	Extrusion, 3 100mm (EXB)	31	DS0060	Carriage Assembly
7	DP0030	Washer Fibre	17c	DP0165	Extrusion (EAS/EBS)	32	DP0625	Plug Tel.
8	DP0130	Collar	18a	DS0070	Rod, Travelling Steady (EXA)	33	FP1501	Belt 170 x L050
9	FP0143	Selloc Pin 4 x 30	18b	DS0071	Rod, Travelling Steady (EXB)	34	FP1502	Belt 180 x L050
10a	DP0150	Spindle (EXA) 2 307 mm	18c	DS0072	Rod, Travelling Steady (EAS/EBS	35	DP0120	Hanging Bracket, Short, Straight
10b	DP0155	Spindle (EAS/EBS) 3 500mm	19	DP0110	Anchor Bracket	36	DP0135	Straddle Plate
10c	DP0153	Spindle (EXB) 2 900 mm	20	FP0600	Bolt 6 x 75	37	FP0558	Washer Star M6
11	DP0050	Magnet	21	FP0206	Nut M6	38	DP0605	Cord 4 Way 350 mm
12	DP0450	Drive Nut	22	FP0305	Screw Coach 8 x 60	39	FP0224	Nyloc Nut M4
13	DP0205	Travelling Steady	23	FP0483	Plug 11mm	40	DP0765	Nut Spring
14a	DS0250	Limit Switch (EXB) 2 950 mm	24	DP0105	Door Bracket	41	DP0345	Spring Cap
			25	DP0116	Bent Arm			

LEARNING POINTS:

3. ON SITE ASSEMBLY OF POWERHEAD TO THE EXTRUSION

a) **Contents of box**
b) **Screw drive assembly**
c) **Which way round do you fit the extrusion**
d) **Fitting the wedges**
e) **Fitting the 120mm pulley**
f) **Fitting the belt**
g) **Connecting the limits**

FITTING POWERHEAD TO THE SCREWDRIVE ASSEMBLY

DIGIDOOR II can be assembled in 2 ways either with the powerhead **Above** or **Below** the screwdrive assembly

IMPORTANT: ***'A'*** configuration uses a **170 XL050** drivebelt
'B' configuration uses a **180 XL050** drivebelt

A standard **2 300mm** long **Screwdrive** assembly is supplied with a **170 XL050** drivebelt
A standard **3 100mm** long **Screwdrive** assembly is supplied with a **180 XL050** drivebelt
Special length Screwdrive assemblies can be ordered from the factory.
Please specify required drivebelt.

"A" for Above
Suitable for:
One-piece trackless doors
Roll-up Doors
Limited Length for operator situations
High vehicle applications

"B" for Below
Suitable for:
Sectional Doors
One Piece Doors with Tracks
Limited ceiling height situations

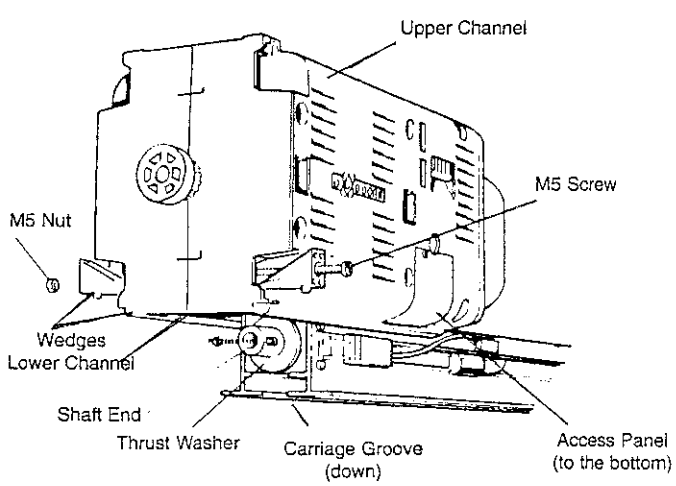
ASSEMBLY

Note: For Roll-up doors, do not assemble yet; proceed to the Roll-up section.

Important: Place the powerhead with the **access panel** to the bottom

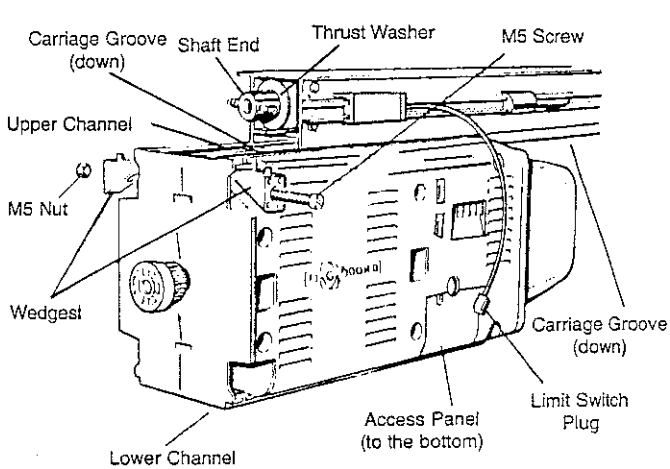
'A' CONFIGURATION

With the **carriage groove downwards**, slide the screwdrive assembly shaft-end first into the **lower channels** on the power head, re-position the thrust washer so that it is on the outside of the power-head.



'B' CONFIGURATION

With the **carriage groove downwards**, slide the screwdrive assembly shaft-end first into the **upper channels** on the power head.



FITTING THE 2 WEDGES

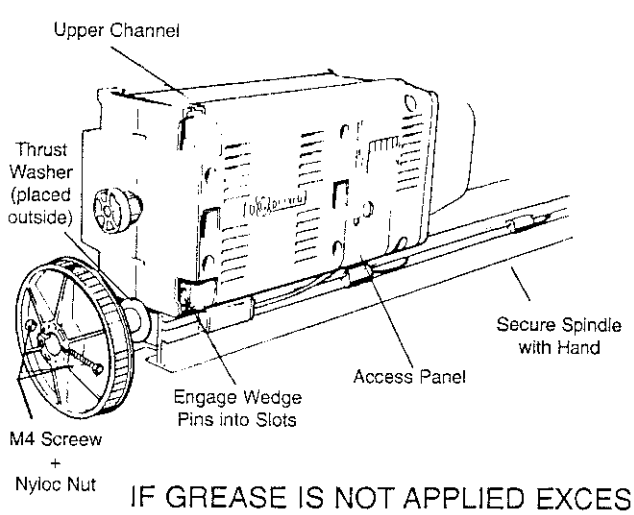
⚠ ***IMPORTANT:*** *Please note; grease should be applied to the thrust face of the pulley and both sides of the thrust washer at time of assembly (see below)*

Clip the two wedges into the slots nearest to the Screwdrive assembly and fit the M5 screw and nut which **must be left loose.** Hold the threaded spindle in position with one hand: Fit the large pulley and retain it with the M4 screw and nyloc nut.

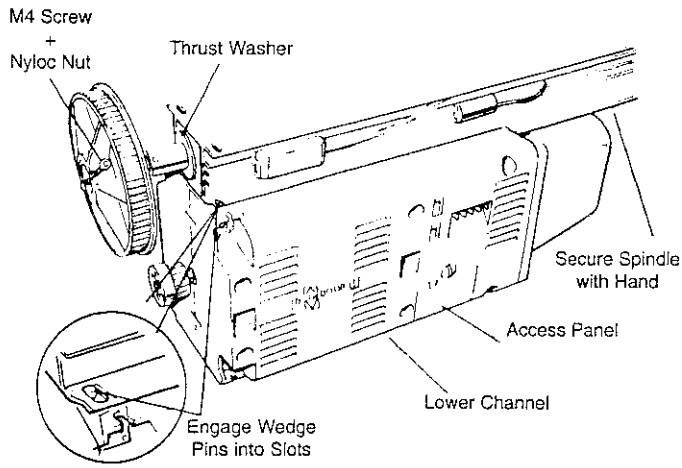
⚠ ***NOTE:*** *The wedges have 2 functions:*

1. *To secure the power-head to the screwdrive assembly*
2. *To tension the belt.*

"A" CONFIGURATION



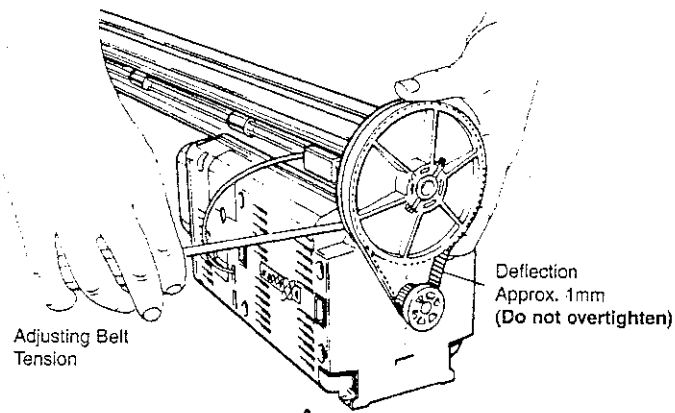
"B" CONFIGURATION



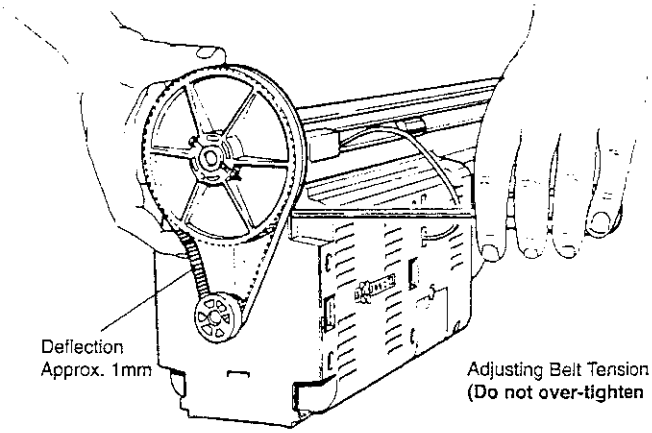
IF GREASE IS NOT APPLIED EXCESSIVE WEAR OF THE PULLEY WILL RESULT

Fit the Drive-belt to the small pulley first and ease it onto the large pulley.
Using a screwdriver, turn the screw in the centre of the wedge to engae the wedge pins in the slots at the end of the screwdrive assembly. While checking that the pins locate in the slots, slowly turn the screw until minimal deflection of the belt results from firm finger-pressure. (about 1mm defletion).

"A" CONFIGURATION



"B" CONFIGURATION



⚠ ***IMPORTANT:*** *It is very easy to over-tighten the belt*

FITTING THE BELT COVER

Ease the belt cover over the large pulley and into the slots on either side of the power-head and snap the clip into the slot near the small pulley.

⚠ ***NOTE:*** *For removal, release the clip by squeezing the sides of the drive belt cover together and tip slightly back and down*

LEARNING POINTS:

4. INSTALL THE UNIT AS IN THREE TO THE DOOR

A) Roll-up

1) **Fitting floor and wall mount brackets**
2) **fitting T-piece (right way up)**
3) **Get the extrusion plum**
4) **Fitting the cross shaft on the doors**

AUTOMATION OF ROLL-UP DOORS

Note: *This requires a special Roll-up Kit which is intended for automating single doors as well as two doors which are side-by-side. The kit suits most popular makes of roll-up doors.*

BEFORE YOU START:

Check that the shaft of the roll-up door is level.

Ensure that the side tracks are clean (free of grease and dirt) and undamaged (no bends or dents). Loosen the side tracks and move them to create ample side-clearance between the edge of the door and the inside of the track.

With the door fully closed, check that the large **springs** on the shaft over-head are **well greased.** This is **important!**

Check the balance of the door. Ideally, when the door is moved by hand and left at any point, it should not rise or fall. Adjust the springs if necessary.

Caution: *Spring adjustment can be dangerous! If unsure how to proceed, consult the door supplier or a professional door installer.*

ASSEMBLING THE ROLL-UP KIT

The Roll-up kit consists of a wall-mount bracket, a "T" -piece, a cross-bar, four door- mount brackets and a pack of "Pop" rivets.

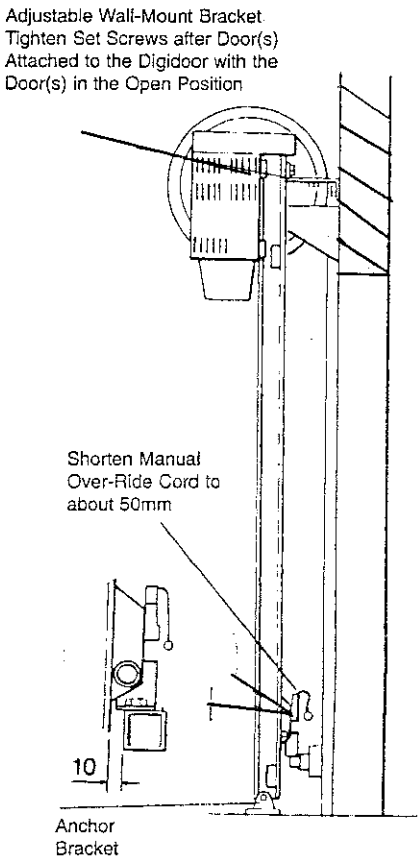
With the screwdrive unwrapped, but before the powerhead is fitted, lie the screwdrive down with the carriage slot upper-most.

Slide in the carriage with the large hole away from the shaft end and engage it with the drive-nut. With the small flange to the same side as the limit switch channel, fit the anchor bracket to the screw-drive with the M6 x 75mm bolt, lock-washer and nut provided. Secure the wall-mount bracket to the other end of the screwdrive using the M6x15mm bolts provided. (As per diagram.) Loosen the set-screws slightly so that half the bracket is free to slide.

Mark a line (about 250mm long) on the floor perpendicular to the column and mid- way between the doors, or about 100mm from the edge of the track of a single door (on the side where the Digidoor II is to stand).

Fit the flat bar of the 'T'-piece to the carriage such that the space between the square tube of the 'T'-piece and the face of the screw-drive is about 10mm. Secure it with-~e M8x40mm bolt and nyloc nut provided. Tighten the nut and bolt.

Slide the cross-bar through the 7' piece and place a door-mount bracket on each end of the cross-bar, or two door-mount brackets in the case of a single door, one near the edge of the door and the other at the end of the cross-bar.



ASSEMBLING THE ROLL-UP KIT continued

Stand the unit up between the two doors and lean it against the wall, Position the doors at the same level as the cross-bar.

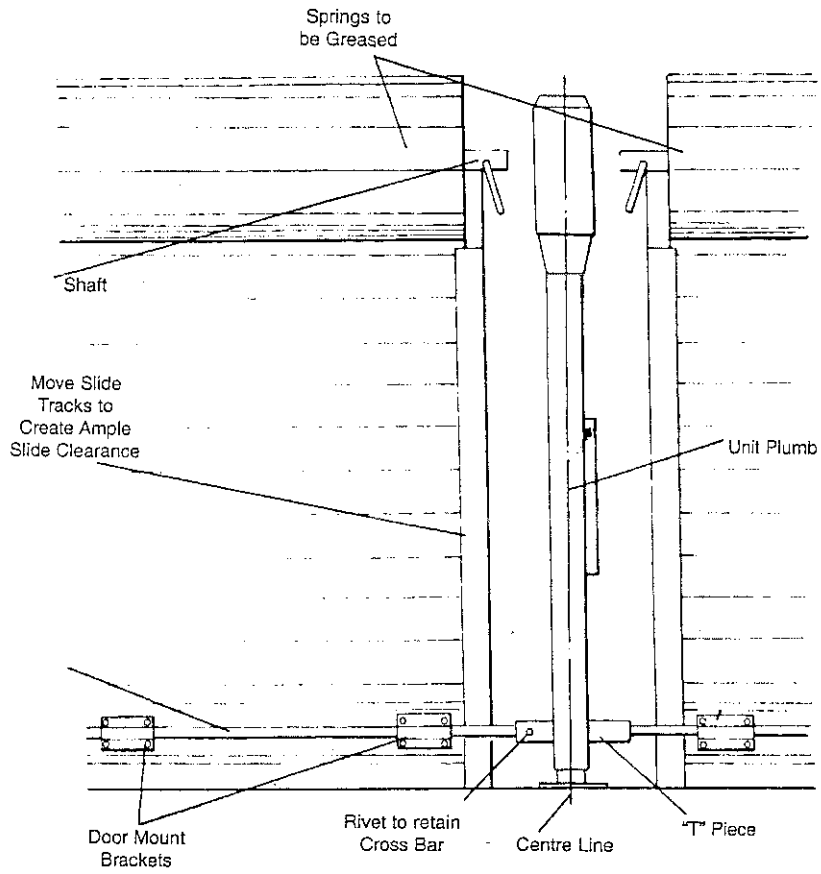
With the notches of the anchor bracket centred on the line on the floor, move the unit towards the wall until the door-mounts touch tke doors. Using a spirit level, move the unit left and right until plumb. Now mark where to drill for the anchor bracket and the wall-mount bracket. Take down the unit and drill the 4 holes. (11mm masonry drill).

Assemble the powerhead on the screwdrive in the "A" configuration as per the instructions, and then continue from this point.

Stand the unit up and bolt it in position using the plugs and screws provided. Position the door-mount brackets, one near the edge of the door and one at the end of the crossbar, and rivet them to the bottom member of the doors. (5.0mm drill).

Pull the manual release cord (which should be shortened to about 50mm) and open the doors fully by hand. With the doors open, tighten the set-screws of the wall-mount bracket.

Continue on to the section "Setting Limit Switches"



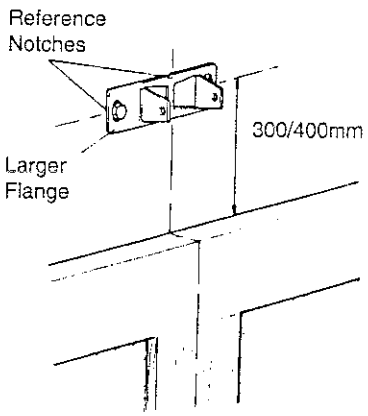
B) Tip-up

1) **Fitting the wall mount bracket**
2) **Hanging the powerhead and extrusion**
3) **Fitting the door mount bracket and arms**

AUTOMATION OF TRACKLESS ONE-PIECE DOORS

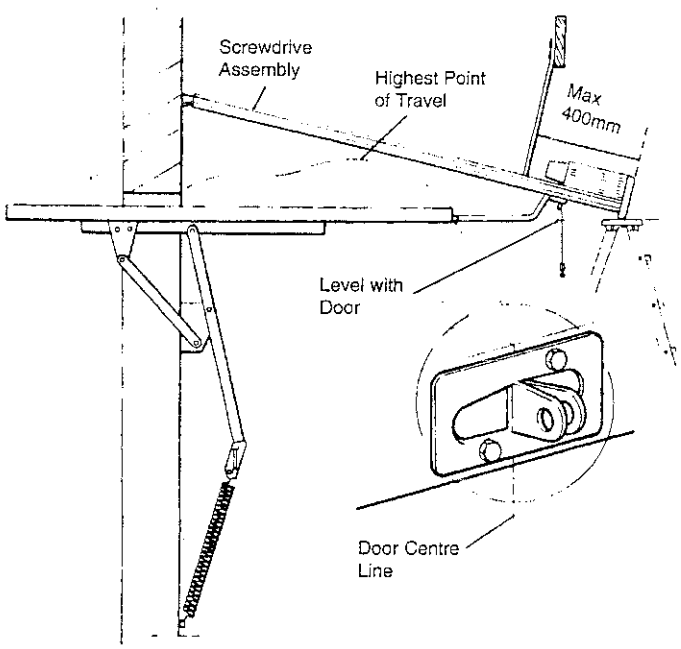
Extend and mark the centre line of the door on the wall above the door. Make a mark on the wall between 300mm and 400mm above the door on the centre line.

With the larger flange to the left, place the Anchor Bracket on the wall and align the cross lines with the reference notches in the bracket. Mark the position of the mounting holes and drill and secure the bracket to the wall with the plugs and screws provided. (11mm masonry drill)



Important: *This bracket handles all the operating forces.*

Ensure that the carriage is fitted with the large hole away from the powerhead. Secure the screwdrive assembly to the anchor bracket with the M6 x 75mm bolt provided while supporting the motor end.



Open the door and using the door centreline to vertically align the screwdrive assembly, prop the unit up such that the drive end cover is level with the door. Ensure that the door's highest point of travel clears the screwdrive assembly.

Determine the length of the hanging bracket needed to make triangular fixing. Refer to 'Hanging Bracket Section'. Fit and slide the hanging brackets along the screwdrive to align with a joist, batten or concrete member, as close to the powerhead as is conveniently possible.

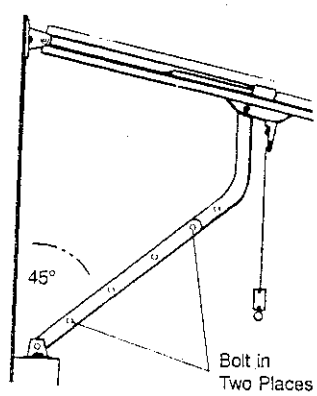
Note: *Not further than 400mm from the drive belt end.*

With the door closed, pull the carriage release cord down so that the lever points straight down. Mount the door bracket securely to the top edge of the door on the centre line. Connect the curved door arm to the carriage and the straight door arm to the door bracket with the M8 bolts and Nyloc nuts provided. Take up the play but do not tighten.

Caution: *If the arm which is connected to the carriage is forced backwards damage to the carriage may result.*

With the door in the closed position, slide the carriage towards the door and overlap the door arms such that the door arms form roughly a 45 degree angle to the door, secure the arms to each other with the M6 bolts, lock washers and nuts provided.

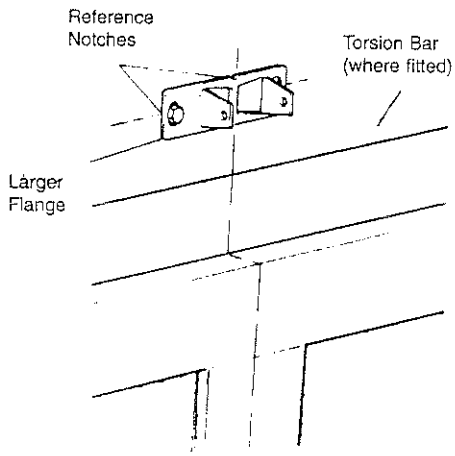
Continue onto the Section "Setting Limit Switches".



C) Sectional

1) **Fitting the wall mount bracket**
2) **Hanging the powerhead and extrusion**
3) **Fitting the door mount bracket and connecting arms**

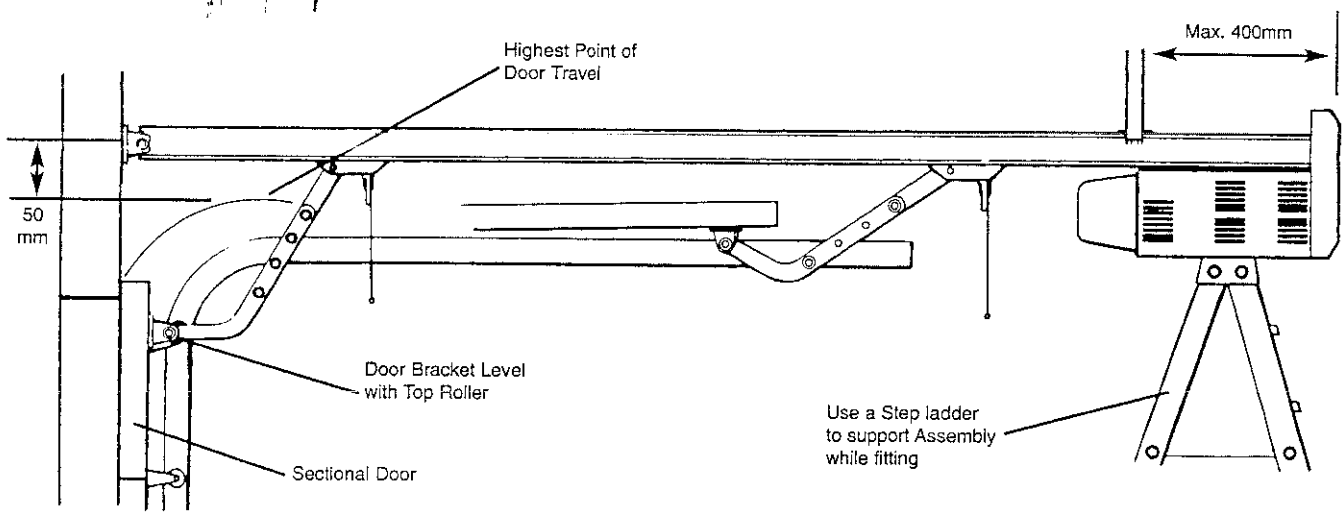
AUTOMATION OF SECTIONAL AND TRACK-TYPE ONE-PIECE DOORS



With the door closed, extend and mark the **centre line** of the door on the wall above the door. Mark the cross line **50mm above** the **highest point** of the top edge of the door in it's travel.

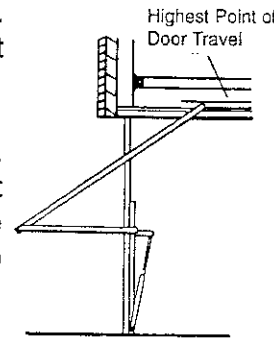
With the **larger flange** to the **left,** place the anchor bracket on the wall and align the cross lines with the reference notches in the bracket. Mark the position of the mounting holes and drill and secure the bracket to the wall with the plugs andscrews provided.
(11mm masonry drill)

Important: *This bracket handles all the operating forces.*

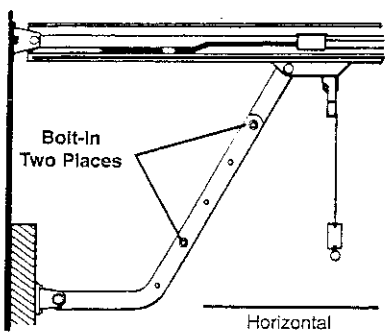


Ensure that the **carriage** is **fitted** with the large hole away from the powerhead. Secure the screwdrive assembly to the anchor bracket with the M6 x 75mm bolt provided while supporting the motor end.

Open the door and **vertically align** the screwdrive assembly to the door centre line. Prop the unit up to a horizontal position. Determine length of the hanging bracket needed to make triangular fixing. Refer to 'Hanging bracket section'. Fit and slide the hanging brackets to align with a joist, batten or concrete member, as close to the Powerhead as is conveniently possible.



One-PieceTrack-Type Door



Note: *Not further than 400mm from the drive belt end.*

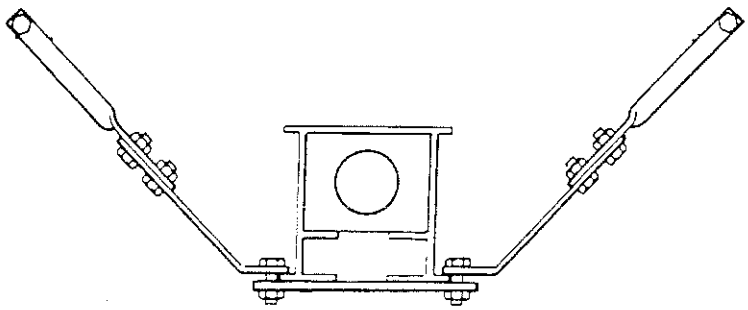
With the door closed, pull the carriage release cord so that the lever points straight down. Mount the door bracket to the inside face of the door level with the top roller of the door. Use the M8 bolts and nyloc nuts provided to fit the curved door arm to the bracket and the straight Arm to the carriage. Take up play but do not tighten. Caution: If the arm which is connected to the carriage is forced backwards damage may result. Overlap the arms so that the short section of the curved arm is horizontal and secure with two M8 x 20mm bolts, lock-washers and nuts provided.

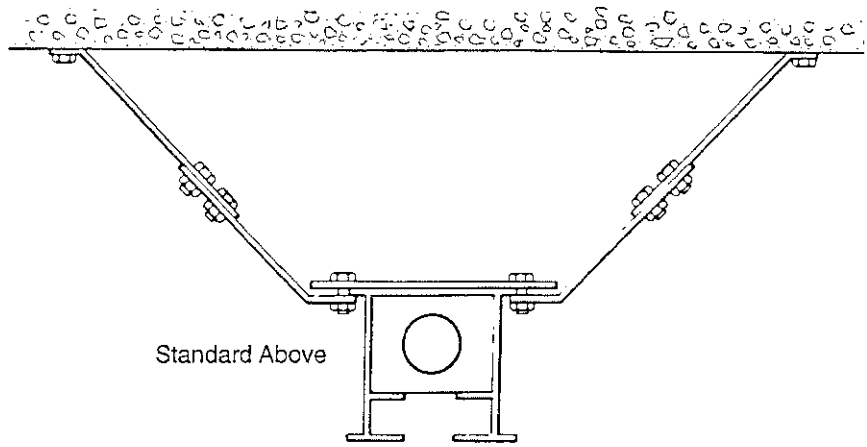
Continue onto the section 'Setting Limit Switches'.

HANGING BRACKETS

WIth the straddle plate and 4 struts provided, a variety of fixing methods may be achieved, for rigidity always join the struts by over-lapping and bolting at two points.Where greater length is required extend the struts with suitable material.

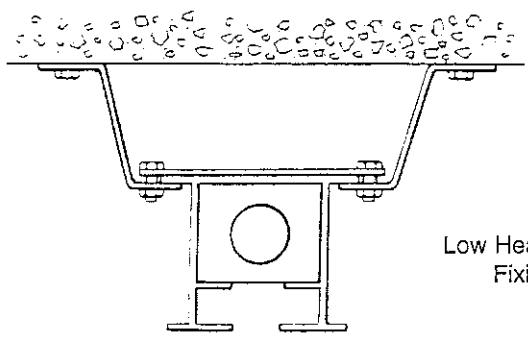
Note: *This fixing must be able to withstand the torque reaction of the machine when stalled, and give the screwdrive rigidity.*





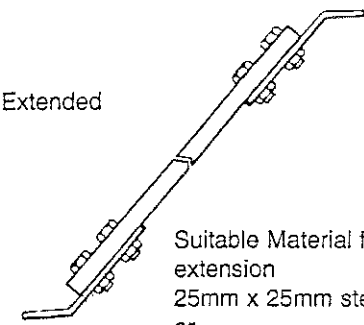
Standard Above

Caution: *Check that the hanging bracket does not clash with the carriage travel when fitted below the Screwdrive Assembly.*



Low Headroom Fixing

Extended



Suitable Material for extension
25mm x 25mm steel tube
or
38mm x 38mm timber

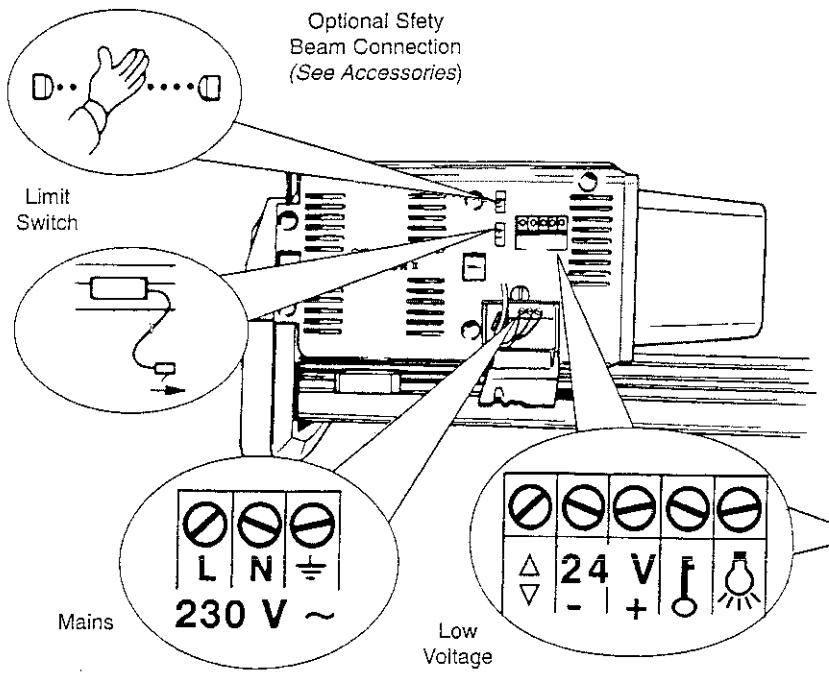
LEARNING POINTS:

5. COMMISSIONING

A) Connect to power supply
B) Wall console
C) 220V Supply - Power up
D) Transmitters
E) Infra red safety beam
F) Adjusting the limit and obstacle switches

ELECTRICAL CONNECTIONS

Connect the limit switches by inserting the mini plug on the short cable from the screwdrive assembly into the lower socket above the access panel. The upper socket is for the optional safety beam connection.



MAINS

Open the access panel and connect 220VAC mains supply as follows:

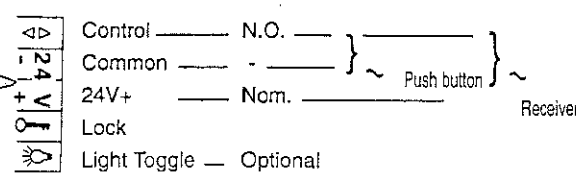
Line to 'L'
Neutral to 'N'
Earth to ⏚

Important: *Make electrical connection to mains in accordance with local regulations.*

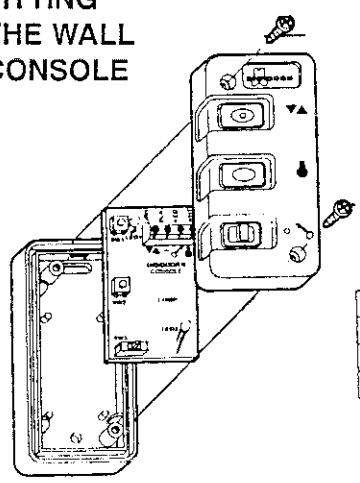
DO NOT POWER-UP YET!

LOW VOLTAGE

The numbered terminals above the access panel are all low voltage and are utilized as follows:



FITTING THE WALL CONSOLE



Important:
Fit the console in a position from which the garage door is visible at a height that is out of reach of children (approx 1,5 metres).

1) Remove the 2 cover screws, the cover and the circuit board.
2) With the slot at the top, hold the base vertically in the chosen position on the wall and mark the fixing-screw holes.
3) Using a 5mm drill, mount the base with the plugs and screws provided.
4) Thread the 4-core cable through the cable entry at the top and attach the wires as follows:

- GRN ▼▲ (Push to open, close or stop)
- 24V - BLK (Common connection)
- RED (Lock slide switch. Red light shows when locked)
- WHT (Light toggle)

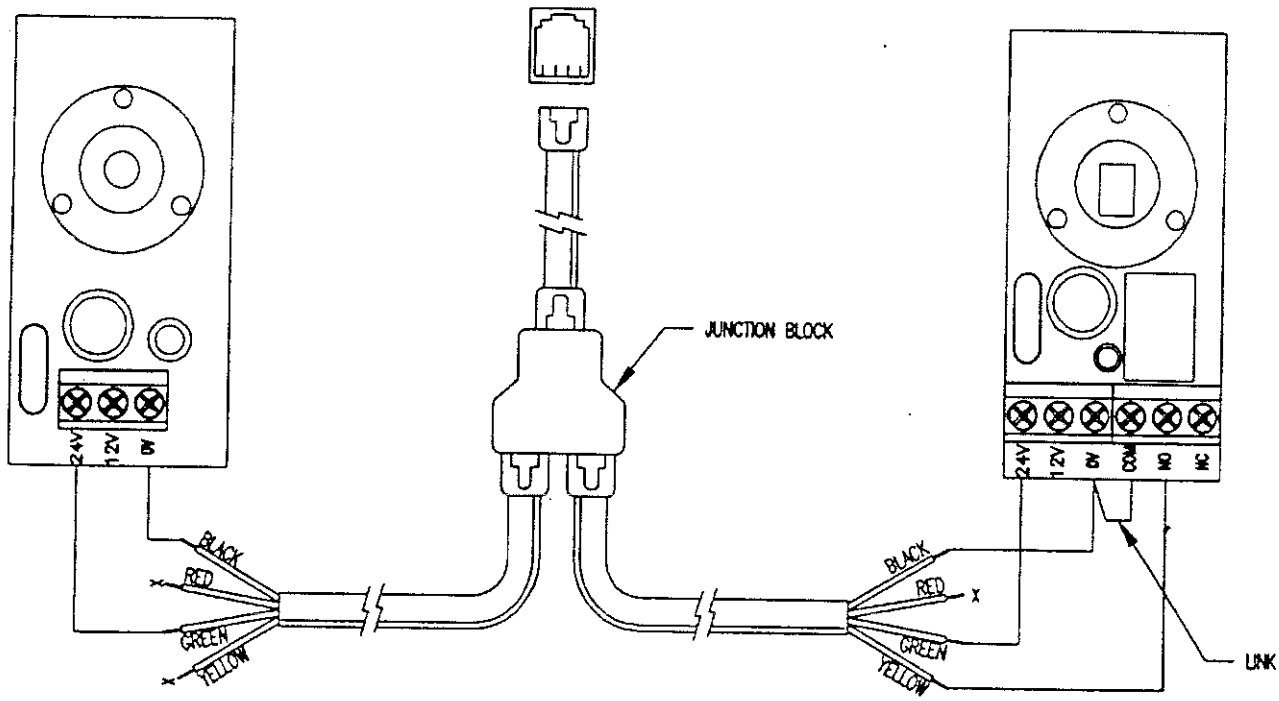
5) Ensuring the slide switch is in place, fit the circuit board, the cover and the cover screws.

DIGIDOOR SAFETY BEAM

MOUNTING

The Digitronic safety beam comprises two units, which are mounted on either side of the gate or doorway. Alternatively, the units may be fitted to suitably mounted brackets or stanchions. The opposing faces to which the units are to be mounted should be reasonably parallel.

Important: Choose a suitable mounting height on the pillars of the gate or doorway, low enough to protect toddlers an pets, but not lower than the under-side of a motor vehicle.



1. Remove the 2 cover screws, the cover and the circuit board from one unit.
2. Withthe slot and the cable entry at the bottom, hold the base vertically in the chosen position and mark the fixing-screw holes. If rear cable entry is to be used, also mark and dirll the cable entry point.
3. Using a 5mm drill, mount the base with the plugs and screws provided.
4. Thread the cable through the base and attach the wires according to the wiring diagram.
5. Fit the circuit board, the baffle tube, the cover and the cover screws, ensuring that the small "O" rings are under the heads of the cover screws.
6. Repeat steps 1 to 5 to mount the other unit on the opposite side.

DIGIDOOR II WITH "ON-BOARD" DIGI E-KEY RADIO RECEIVER

The Digi e-key receiver is incorporated into the Digidoor II control board. No code switches need to be set. Each ***Digi e-key*** transmitter has a unique identity, which, together with the hopping code, must be learnt by the on-board receiver before the system will function. This is a simple procedure, which will also identify which transmitter button the **Digidoor II** will respond to.

Coding the Digidoor II with "On-Board" Receiver (On initial coding it is advisable to start with "Erase All")

The Learning Function. (Via the Digidoor II Wall Console) With power on, turn the light on the Digidoor II off using the light toggle button.

1. Press and hold the Light Toggle button in for about 5 seconds.
The light on the Digidoor will come on and after 5 seconds go off. Release the button and the light will come on.

2. Within 30 sec., press the required button on the *Digi e-key* transmitter. The light on the Digidoor will go off.

3. Press the same button on the transmitter again.
The light on the Digidoor will flash repeatedly. **The *Digi e-key* is now ready for use.**
If, during step 2, the light comes on solidly, then the learning procedure has failed. Repeat steps 1 to 3.
Repeat steps 1 to 3 above for each extra ***Digi e-key*** transmitter that is required. Up to 33 transmitters may be added per receiver. Different buttons may be used on each transmitter. See Notes.

The "Erase All" Function.
With power on, and the light on the Digidoor II off:

1. Press and hold the Light Toggle button in for about 10 seconds.
The light will come on, go off after 5 seconds, and 5 seconds later will flash to indicate that memory has been erased.

Coding the "On-Board" Receiver when the Wall Console is not fitted
If the wall console is not fitted, when the "Light Toggle button" is referred to above, use a short length of wire to short together the terminals marked with the light symbol and 24V- on the right hand side of the Digidoor II power head.

Tip: If the light on the Digidoor II is not fitted or faulty, listen for the clicking of the light relay.

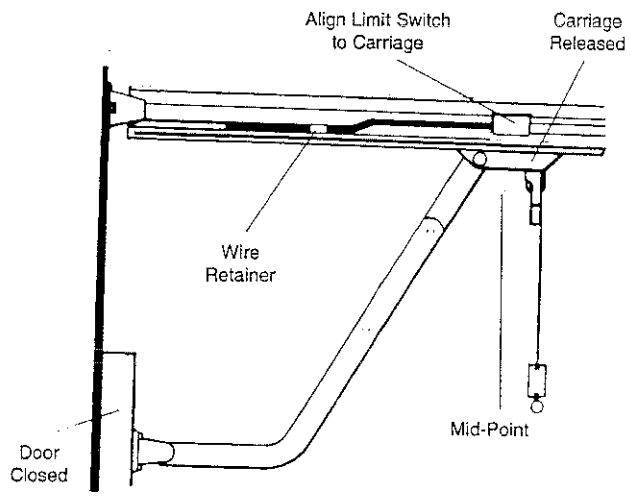
Maintenance
The ***Digitronic e-key*** transmitter codes are stored in a plug-in memory module, located between the I.C. and the 3 screw terminals. Should it become necessary to replace the control board (with on-board receiver), carefully unplug the module from the old board and plug it into the new one, ensuring that the locating pin goes through the hole in the module. This will save having to re-learn the codes of all the transmitters in use at that site.

External Receivers
If an external receiver is to be used on the Digidoor, it may be connected to the screw terminals on the front edge of the control board or on the side of the motor as shown above. To avoid interference between the on-board and external receivers, the on-board receiver may be disabled as follows:
1. Switch off the power, remove the light and remove the control board by pulling it forward.
2. On the underside of the board, locate the small circle marked "TDR LINK".
3. Using about a 3mm-drill bit between forefinger and thumb, drill out the circle. ***Note:*** Should it become necessary to re-enable the on-board receiver, link the solder pads on either side of the circle.
4. Replace the control board.

Notes
1. If a transmitter is lost, it is important that the "Erase All" function is carried out to clear the receiver memory. The replaced and original transmitters must be re-learned by the receiver.
2. If the receiver learns a 34th transmitter, it will take the place of the 33rd transmitter.
3. When learning, press the transmitter within 30s or the light will turn off and revert to normal operation.
4. If a transmitter battery is low, the LED on the transmitter will flash and the light on the Digidoor II will flash briefly once a second during the 3-minute time-out period after the door has opened or closed.The battery of that transmitter should be replaced soon. (Battery type: L1028 or 23A (12V Lighter).)
5. The receiver will respond to a single button or a combination of up to four buttons.
6. If a different button or combination is re-learned by the receiver, this will replace the previous one.

SETTING LIMIT SWITCHES

Ensure that the manual release lever is pulled down. Close the door fully and set the closed limit switch by removing the wire retainers to create slack in the wire and slide the closed limit switch to the mid-point of the carriage. Replace the wire retainers. Set the open limit switch by moving the door to the open position and repeat the procedure as for the closed limit switch.



⚠ **Note:** *Minor adjustment of the Limit Switch positions must be made on testing.*
Restore the Carriage Release Lever to the horizontal position.

⚠ **Important:** *Make sure the door locks are disengaged permanently.*

ADJUSTMENTS

LIMITS
Clear away obstacles such as ladders and tool-boxes.

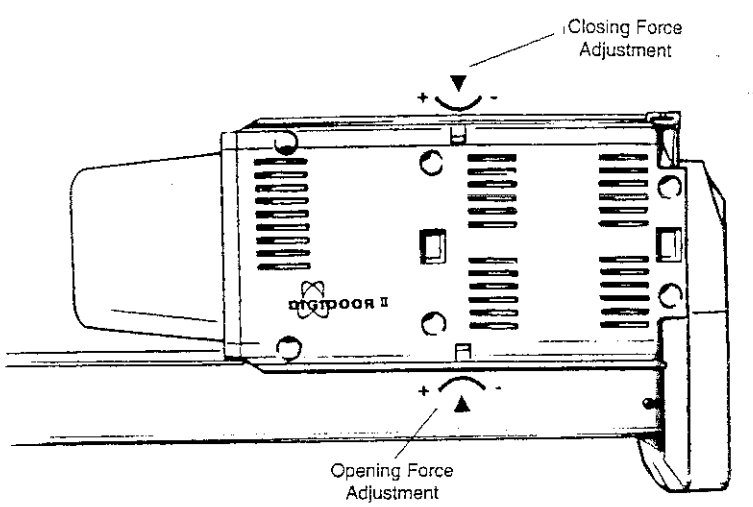
Power-up the DIGIDOOR II.
The light should come on. Run the unit until it is heard to stop. With the door mid-way, re-engage the carriage. Run the unit again and the door will connect. Make fine limit switch adjustments, such that in the closed position the rubber weather seal is slightly compressed, and in the open position the door has opened fully.

OBSTACLE SENSING
Up and Down Obstacle Sensing adjustments are on the left side of the powerhead. For initial setting, use a 5mm Allen Key, adjust fully anti-clockwise, then 6 full turns in.

⚠ **Note:** When Turning the adjusters becomes stiff, do not force them any further. To increase the opening force, turn the lower adjustment clockwise. To increase the closing force, turn the upper adjustment clockwise. Impede the door while running with shoulder or hand to test the force required to stop the door and make final adjustment. Check that the Digidoor reverses when the door contacts a 30mm high object placed on the floor.

⚠ **Note:** The door Stops in the Up direction and Reverses in the Down direction. If these adjustments are set too lightly, unwanted reversals on closing and stops on opening may occur. Age and weather can affect door operation and obstacle sensing requires periodical checking and adjustment.

⚠ **Important:**
THIS FEATURE IS A SAFETY FEATURE AND MUST NOT BE USED TO OVERCOME BINDING OR UNBALANCED DOORS.



LEARNING POINTS:

6. TROUBLE SHOOTING

POSSIBILITY	SOLUTION
Nothing works:	1. Switch the power off and on again. The light should come on. (Reset the motor). 2. check that the lock feature is in the off position. 3. If the motor still doesn't respond, replace the PC board.
The Digidoor II motor only operates from the wall console:	1. Is the light on the remote working, if not replace the battery. 2. Recode remote - see section 5
If the motor hums and doesn't lift the door:	1. Pull the manual release cord and ensure that the door operates smoothly by hand. 2. If it still hums, replace the PC board.
The door reverses on closing or stops on opening:	1. Set obstacle adjustments - see section 5. 2. Pull manual release cord and check operation of the unit. 3. Check the limit settings.
The light flashes once a second during the 3-minute time out period:	1. The battery of that transmitter should be replaced

LEARNING POINTS:

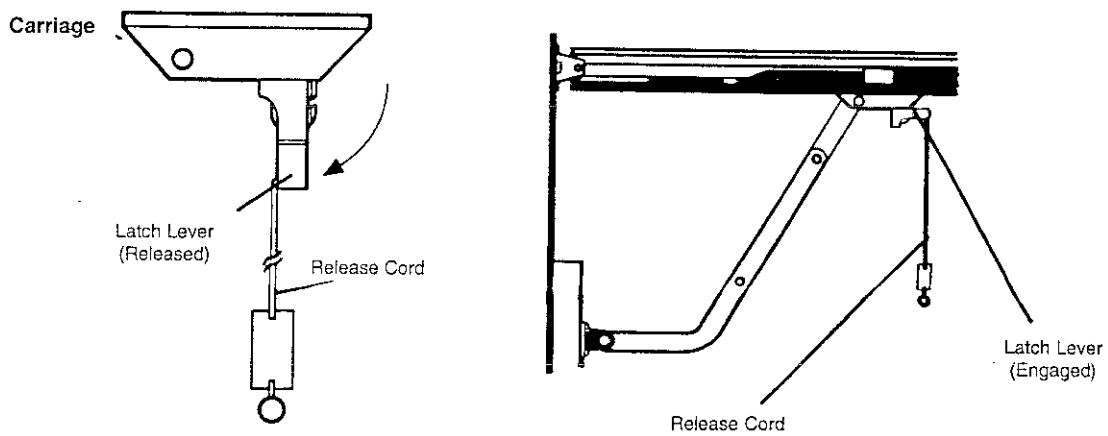
7. FINAL CHECK AND HANDOVER

A) Manual release
B) Safety features
C) Transmitters - flashing light
D) Wall console
E) Courtesy light
F) Warranty
G) Maintenance

MANUAL OPERATION

The DIGIDOOR II operator may be disengaged so that the garage door may be operated manually. To do this, simply pull the cord on the carriage until the latch lever snaps down. To re-engage the DIGIDOOR II unit, simply restore the latch lever to its original position and operate the unit which will then automatically re-engage with the door.

Note: *When using the door in the manual mode, it is advisable to lock the door with the original door locks.*



"IMPORTANT SAFETY INSTRUCTIONS"

After Installation attach these instructions to the inside of tke garage door.

• Use caution when operating the manual release with the door open since it may fall rapidly.
• Frequently examine the door and operator for wear, damage and improper balance. Rectify as required.
• The obstacle sensing adjustment is extremely important and should be tested quarterly. Refer to the section "Adjustments - Obstacle Sensing".

Operate the door only while in view, free of obstuctions and properly adjusted.

Keep people and children clear of the moving door.

Keep Remote Controls away from children.

WARNING: Incorrect installation can lead to serious injury.

Before you proceed, please read these instructions carefully and refer to the section

"IMPORTANT SAFETY INSTRUCTIONS"

The safety alert symbol means:

NOTE

IMPORTANT

CAUTION

USING THE DIGIDOOR II

REMOTE CONTROL

A single momentary push of the button on the radio transmitter will cause the garage door to open or close and stop automatically once the open or closed position is reached. The door may be stopped while moving by pushing the transmitter button again (wait one-second between pushes). A further posh of the transmitter button will cause the door to then travel in the opposite direction.

BACK UP SAFETY

As a further safety measure the DIGIDOOR II will only operate for 30 seconds in either direction, thus if either limit switch is not reached, for whatever reason, the unit will stall and attempt to re-open if it was closing or switch off if it was opening.

COURTESY LIGHT

When the DIGIDOOR II is operated, a light on the unit is turned on. The light switches off automatically approximately three minutes after the unit's last operation. This light can easily be replaced by squeezing and removing the lens, inserting a normal bayonet mount lamp.

Note: *(40w, 220V)*

OBSTACLE SENSING

A properly installed and adjusted DIGIDOOR II unit will sense when an obstacle is impeding the motion of the door. If the door is closing, it will stop and return to the open position. If the door is opening, it will simply stop.

Note: *This feature should be checked quarterly.*

ONE YEAR MANUFACTURER'S WARRANTY

Hydro Doors warrants to the first retail purchaser of Digidoor II that the product shall be free of any defects in materials and/or workmanship for a period of 12 months (One Year) from the verifiable date of purchase. Upon receipt of the product, the first retail purchaser is under obligation to check the product for any visible defects.

Conditions

- The warranty shall constitute the sole remedy available under law to the purchaser for any damages related to or resulting from a defective part and/or product. The warranty is strictly limited to the reparation or replacement of the parts of this product which are found to be defective.
- The warranty does not cover non-defect damage caused by unreasonable use (including use not in complete accordance with Digidoor II installation and owners instructions) or labour charges for removal or re-installation of a repaired or replaced unit.
- The warrantor will repair, or at its option replace, any device, which is determined to be defective in materials and/or workmanship at no cost to the owner for the repair and/or replacement part.
- Defective parts will be repaired or replaced with new or factory rebuilt parts at Hydro Door's option.
- The warrantor shall not be liable for consequential or incidental damage to property or person.
- No representative or person is authorised to assume for Hydro Doors any other liability in connection with the sale of this product.
- For warranty service and shipping instructions contact Hydro Doors at the address shown below. All items must be sent to Hydro Doors for service at owner's expense.