

MultiDrive™

Installation instructions



WARNING :-

The user of MULTIDRIVE devices must be disconnected from the source of supply before attempting the installation of the accessory

" PEDESTRIAN DOOR FOR RESIDENTIAL USE "

The switch is to be install in a location from which operation of the door can be observed by the person operating the switch

The glazing material employed is to comply with the requirement in UL30.5.1. The glazing material in both fixed and sliding panels of all sliding doors and in all unframed swinging doors shall comply with the requirements in the Performance Specifications and Methods of Test for Safety Glazing Material Used in Buildings, referenced in Annex A. Ref. No 27. Glazing material for other pedestrian doors shall also comply with the same standard, except that single strength or heavier glass may be used for those portions of doors involving a glazed area of less than 0.9m² (1 ft²) and having no dimension greater than 457mm (18 in).

The pedestrian door operator that is intended for connection to the source of supply by a flexible is to be cautious/warn, against risks of associated with allowing the cord to become entrapped in moving parts of the operator, door, or system

Maximum size of door ; Bi-parting sliding door : (2.3 metre height x 4 metre width)

Weight :

singe slide : 150kg mobile leaf,

Bi-parting : 75kg per mobile leaf

The weight is the most concern, if the door is make of light material, door can be made bigger than 4m for bi-parting. As long as the total weight for mobile panel (total mobile panels weight) does not exceed 150 kg.

The installer shall fix a 3 pin wall socket nearest to the left side of the operator, where the 3 pin AC power supply will be then plug into this socket. Any access wire has to be well tied/ or dressed, preventing tangling wire .

Note the cord should not be :-

1. Routed through doorways, window openings, walls , ceilings, floors or the like;
2. Attached or otherwise secured to the building structure ; or
3. Concealed behind walls and the like.

As per 60.1.7 For equipment having a grounding-type attachment plug, the following instructions, or the equivalent, shall be provided. " To reduce the risk of electric shock, this equipment has a grounding type plug, that has a third (grounding) pin. This plug will only fit into a grounding type outlet. If the plug does not fit into the outlet, contact a qualified electrician to install the proper outlet. Do not change the plug in any way. "

Detachable Power Supply Cord Marking- "**WARNING** : USE ONLY ADAPTOR PROVIDED FOR USE WITH OPERATOR, OTHER ADAPTOR MAY RESULT IN RISK OF FIRE. SEE INSTALLATION INSTRUCTIONS FOR DETAIL" or equivalent.

Manufacturer's Name	AUTOSLIDE PTY LTD
Trademark	MULTIDRIVE
Catalogue number	AS8
Voltage	100VAC-240VAC, OUTPUT: 24VDC , 2.7A
Frequency	50Hz, 60 Hz
Adaptor maximum input current	2.7A

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The MultiDrive

This document explains how to assemble the MultiDrive automatic door opening system. It is important to follow these instructions as stated for a correct installation and full warranty coverage.

Repairs and returns

Email: support@autoslide.com

Web: www.autoslide.com

Phone:

- 833- 337-5433 (North America)
- 1 800 600 602 (Australia)

Questions and comments

If you have questions about installation, programming, or operation of your MultiDrive or about any parts or accessories, email us at support@autoslide.com or visit us online at autoslide.com.

Warranty

The MultiDrive is produced by Autoslide Pty or Autoslide LLC and is subject to the following warranty and conditions of operation. The product is warranted against failure due to faulty material or workmanship for a period of 24 months from date of supply. . This warranty will cover the repair or replacement of any defective parts at an authorized Autoslide Pty or Autoslide LLC facility and is subject to the following conditions, provided that:

- The MultiDrive is installed by an authorized Autoslide Pty or Autoslide LLC distributor or installation company, and
- The MultiDrive is fitted to a sliding door strictly following the supplied instructions, and
- The sliding door slides within the friction limits specified in the instructions, and
- The MultiDrive is installed in residential and light traffic commercial applications (ie. doctor's office, hotel room, etc.), and
- The warranty is limited to an amount totaling no more than the unit cost price.

This warranty shall be null and void and to no effect if:

- The MultiDrive is abused or in any way used outside the limits of the specification and design, or
- The electric wiring has been interfered with and is not wired in accordance with the original factory settings, or
- Defects are not caused by normal wear and tear, or

- The purchaser in any way alters the MultiDrive, or adds or removes parts or materials of the MultiDrive, or
- The purchaser fails to notify Autoslide Pty or Autoslide LLC immediately if there is a failure of any component.

Conditions:

- Delivery costs of all warranty items will be covered by Autoslide Pty or Autoslide LLC for the first 90 days from purchase. After 90 days, delivery costs of warranty items will be at the purchaser's expense.
- The purchaser will be responsible for inspecting the MultiDrive package to ensure that the package is complete and not damaged and that all parts are present. If there is damage or missing pieces, the purchaser must alert Autoslide Pty or Autoslide LLC within 3 business days of receipt of order.
- Upon installation of the MultiDrive, the buyer shall immediately notify Autoslide Pty or Autoslide LLC in writing or by phone about any defect in the goods to obtain a replacement under warranty.
- In the event a MultiDrive unit is returned to Autoslide Pty or Autoslide LLC for a warranty claim, the MultiDrive unit must be received free from damage. It is highly recommended that the purchaser takes pictures of the MultiDrive system prior to shipping it back to Autoslide Pty or Autoslide LLC.
- The purchaser expressly acknowledges and agrees that Autoslide Pty or Autoslide LLC is not liable for any advice given by its agents in relation to the suitability of the product or its application to certain doors and such advice is relied upon at the purchaser's risk.
- The buyer shall not carry out any remedial work on the alleged defective goods without first obtaining the written consent and instruction from Autoslide Pty or Autoslide LLC.
- The warranty on any battery is subject to the warranty provided by the original manufacturer of the battery. Thus said warranty is two years from date of purchase.

About the MultiDrive

The MultiDrive is an automatic door opening system designed for **residential and light-use commercial** sliding doors.

Once installed, the MultiDrive mechanism is hidden discretely behind an aluminum cover which blends in with the sliding door frame. This cover comes in a mill finish and will need to be powder coated to match the door and/or frame.

The MultiDrive can be retro-fitted to any sliding door, including biparting doors (Figure 1) and non-bi-parting doors (Figure 2).

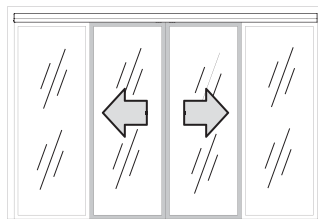


Figure 1: Bi-parting doors with the MultiDrive.

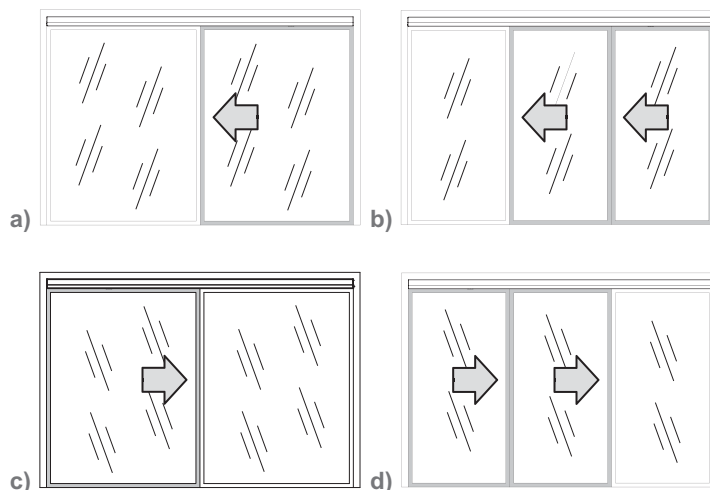
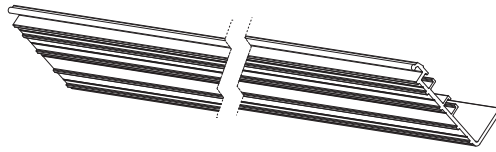


Figure 2: Non-bi-parting doors with the MultiDrive: a) single leftsliding door, b) telescopic left-sliding door, c) single right-sliding door, and d) telescopic right-sliding door.

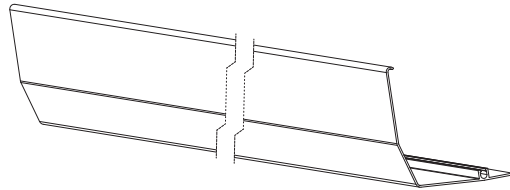
Warnings

- Any manual lock on the sliding door should be removed or deactivated, otherwise the MultiDrive and/or sliding door may be damaged if activated while the lock is closed.
- The MultiDrive should not be used in high-traffic environments such as large office building entrances or bigbox stores.
- The MultiDrive may be used in light commercial environments. Speak with an authorized Autoslide Pty or Autoslide LLC representative about your application prior to purchase.

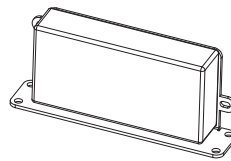
MultiDrive Standard Parts



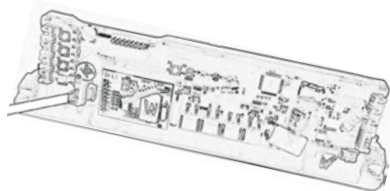
Base x 1



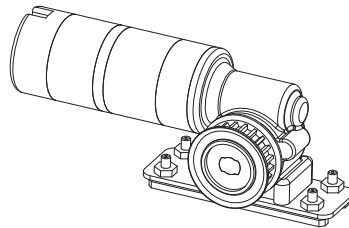
Cover x 1



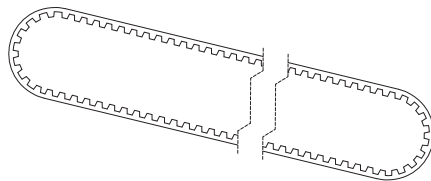
AC adapter x 1



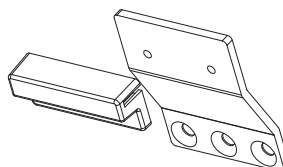
Controller x 1



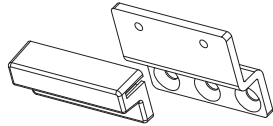
Motor x 1



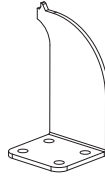
Belt x 1



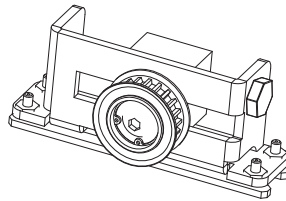
Top bracket x 1



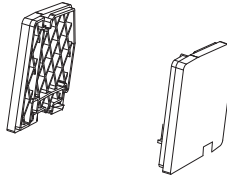
Bottom bracket x 1



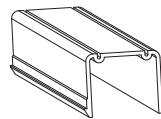
Cover clip x 2



Belt tensioner x 1



End cap x 2



Cable cover x 3



Mode pad x 1



Screws x 13



Tool Packet x 1

Door requirements

Sliding door friction

The MultiDrive should only be installed on a door that slides smoothly. If the door system does not, it is recommended to have the door system maintenance prior to the installation of the MultiDrive System.

The sliding friction should be low enough that the door opens and closes with a force less than 35 pound-force plus (155 newtons) at a steady sliding speed of about 4"/second (100 mm/second). Use a digital scale with a hook to measure the force to open and close the door. If the force is greater than 35 pound-force, speak with an authorized Autoslide Pty representative on how to proceed.

Space under the head jamb

The MultiDrive system sits directly below the head space of a sliding door and requires a vertical space of 3.15" (80 mm) – see Figure 3.

The MultiDrive may also be mounted in a flush mount, if the situation arises.

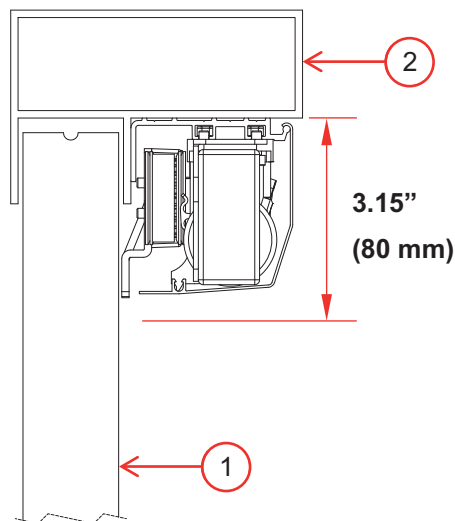
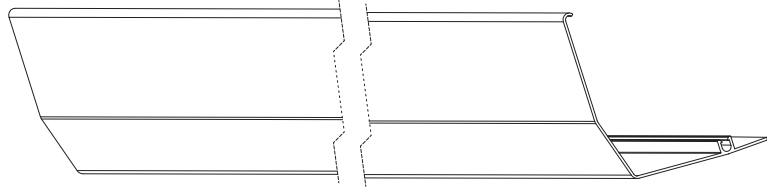


Figure 3: Cross-section of a sliding door (1) with the MultiDrive below the head jamb (2). The MultiDrive requires a 3.15-inch (80-mm) clearance below the head jamb.

Coating the cover

The MultiDrive includes a cover to conceal the motor and other mechanisms.



The cover has an **uncoated** aluminum mill finish. To make the cover match the sliding door, use a color sample from the door and/or door trim to match the cover with the door system. The painting of the cover should be powder coated for optimal durability and finish.

Installation instructions

1. Cut parts to size

(a) Cut the cover to the correct length

Steps

Cut the cover to a length (L) which is **0.51" to 0.59"** (13 to 15 mm) shorter than the inside width (W) of the sliding door frame (see Figure 4).

Cut off any pins or clips used to hold the cover during the coating process.

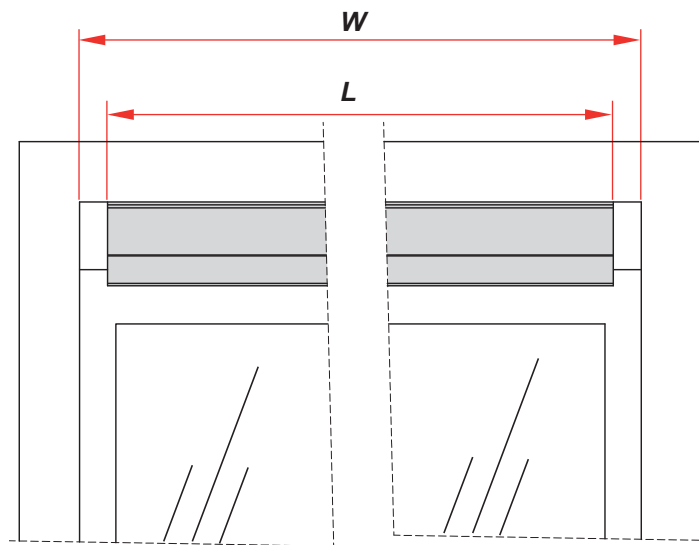


Figure 4: Cut the cover (shown in grey) to a length L which is 0.51" to 0.59" (13-15 mm) shorter than W .

(b) Cut the base to the same length

Cut the base to the **same length L** as the cover (0.51" to 0.59" or 13 to 15 mm shorter than W).

2. Attach Parts to the Base Prior to Mounting

The base holds the belt tensioner, motor, controller, AC adapter, cover clips, Wi-Fi Module, and back up battery (optional accessory). It is important to place these parts in the correct positions described below.

(a) Preparation

The layout of parts depends on whether the door is bi-parting, right handed, or left handed.

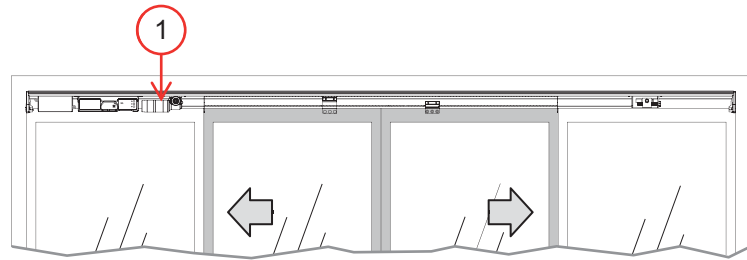


Figure 5: Bi-parting doors: motor (1) is on the left.

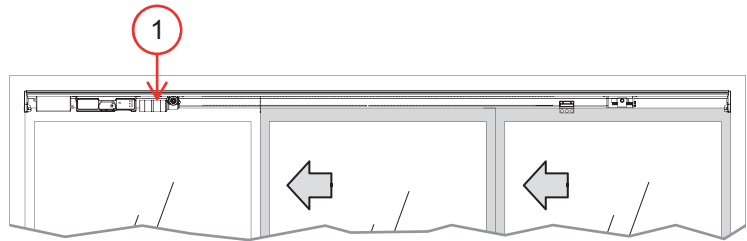


Figure 6: Right handed door: motor (1) is on the left.

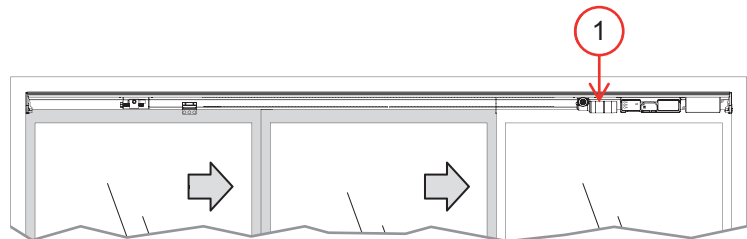


Figure 7: Left handed door: motor (1) is on the right.

Steps

1. Lay the base on the floor directly in front of the door frame. Align the center of the base with the center of the door frame.
2. Each part attaches to the base with one or two “sliders” (Figure 8), which fit into the tracks on the base. **Remove the nuts from all sliders.**
3. If you are installing optional wired sensors, lay the sensor cable(s) on the base between the two tracks. The sensor cable(s) will pass **underneath** the cover clips and motor.

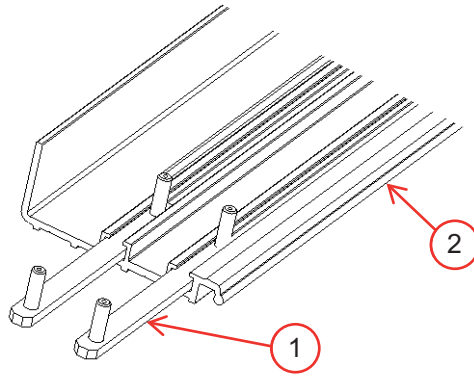


Figure 8: Sliders (1) in the two tracks on the base (2).

4. Use the following steps to set the position of each part on the base.

(a) Cover clips

Guidelines for using cover clips

- **Don't** use cover clips over the **door opening** because they will be visible from the opposite side of some doors.
- Clips are not needed at the ends of the base because the end caps support the cover there.

Steps

1. Use a cover clip behind the door frame of each **fixed** (nonsliding) door (Figure 9). The door frame of the fixed door hides the clip from view on the other side of the door.

Slide each cover clip onto the base as in Figure 11. Make sure the other end of each cover clip (without sliders) **points towards the door**.

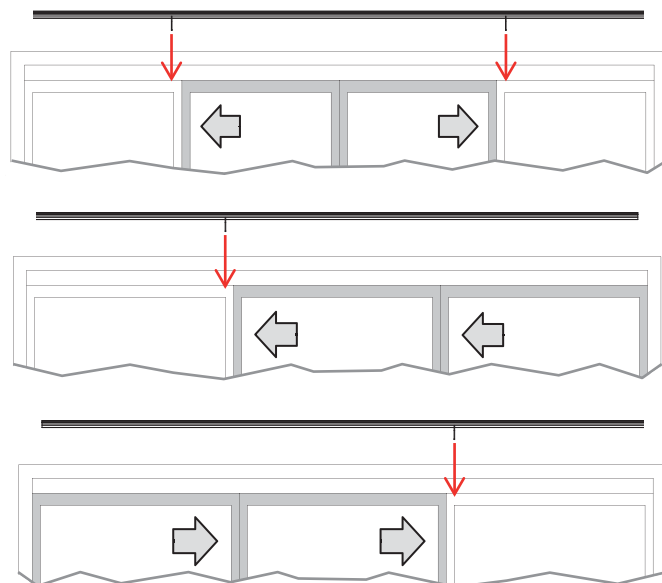
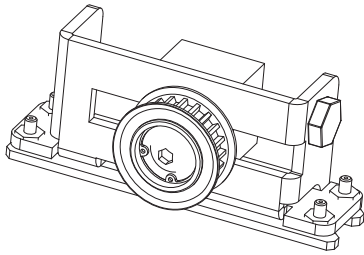


Figure 9: Place a cover clip behind the door frame of each fixed door.

(c) Belt tensioner

For bi-parting doors:



For bi-parting doors, the belt tensioner sits on the **right** side of the door frame (viewed from the inside of the door).

1. **Open** the doors **fully**.
2. Slide the belt tensioner along the base until it is in front of the **left-hand door** as shown in Figure 10, where:

A = 20-30% of the width **B** of that door

C = 2" (50 mm).

3. Tighten the slider nuts to hold the belt tensioner in place.
4. Mark the position of the bottom bracket on both the **base** and the **door** as in Figure 12.

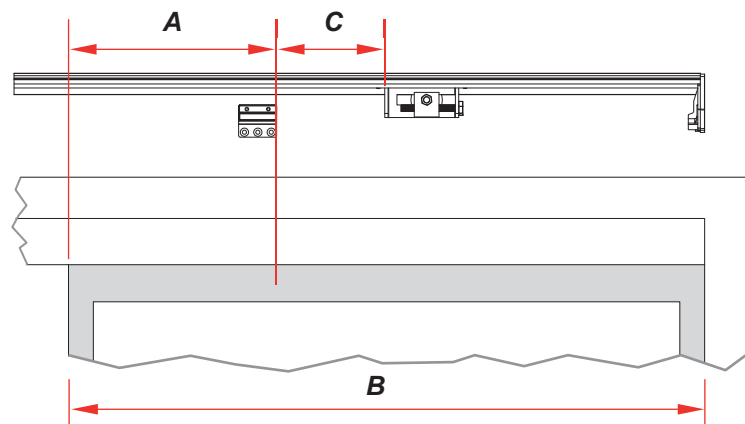


Figure 10: Bi-parting doors: belt tensioner and bottom bracket. The right side is shown with the right door open.

For right handed doors (non-bi-parting):

For left-opening doors, the belt tensioner sits on the **right** side of the door frame (viewed from the inside of the door).

1. Close the door **fully**.
2. Slide the belt tensioner along the base until it is in front of **closed sliding door** as shown in Figure 11, where:

A = 20-30% of the width **B** of that door

C = 2" (50 mm).

3. Tighten the slider nuts to hold the belt tensioner in place.
4. Mark the position of the bottom bracket on both the **base** and the **door** as in Figure 11.

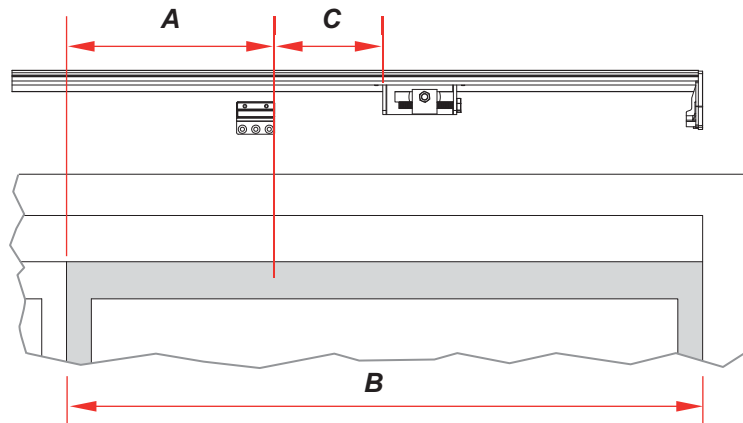


Figure 11: Left-opening sliding door: belt tensioner and bottom bracket. The right side is shown with sliding door closed.

For left handed doors (non-bi-parting):

For right-opening doors, the belt tensioner sits on the **left** side of the door frame (viewed from the inside of the door).

1. **Close** the door **fully**.
2. Slide the belt tensioner along the base until it is in front of **closed sliding door** as shown in Figure 12, where:

$A = 20\text{-}30\%$ of the width B of that door

$C = 2''$ (50 mm).

3. Tighten the slider nuts to hold the belt tensioner in place.
4. Mark the position of the bottom bracket on both the **base** and the **door** as in Figure 14.

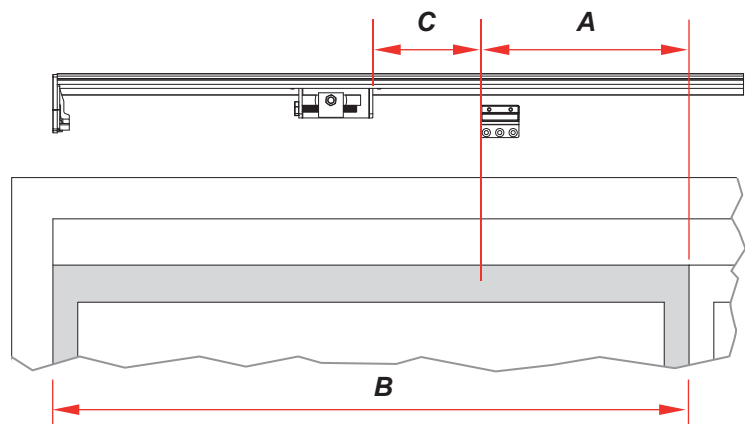
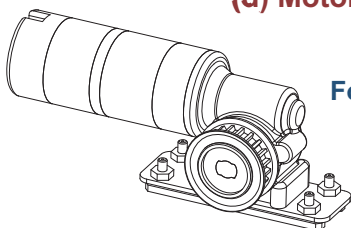


Figure 12: Right-opening sliding door: belt tensioner and bottom bracket. The left side is shown with sliding door closed.

(d) Motor



The motor sits at the opposite end of the base to the belt tensioner.

For bi-parting doors:

Bi-parting doors use a top bracket (unlike other types of doors).

1. **Open** the doors **fully**.

- Slide the motor along the base until it is in front of **left-hand sliding door** as shown in Figure 15, where:

A = 20-30% of the width **B** of that door

C = 2" (50 mm).

Note: If the top bracket does not fit in this position (Figure 15), contact your MultiDrive supplier about obtaining a different style of bracket that fits onto the right edge of the door.

- Tighten the slider nuts to hold the motor in place.
- Mark the position of the top bracket on both the **base** and the **left-hand** sliding door as in Figure 13.

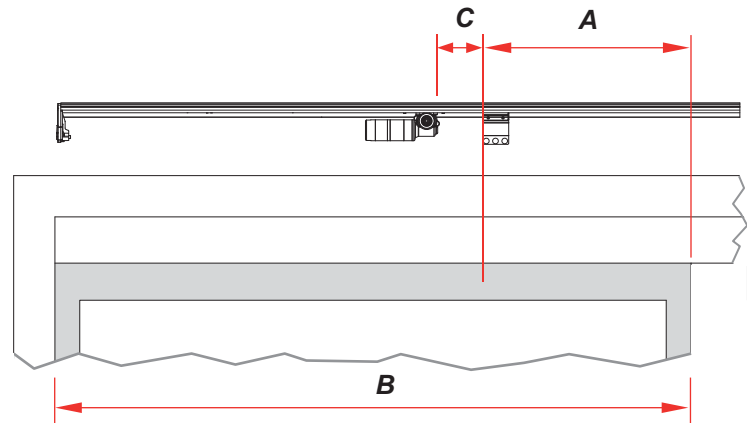


Figure 13: Bi-parting doors: motor and top bracket. The left side is shown with left door open.

For left-opening doors (non-bi-parting):

- Open** the door **fully**.
- Slide the motor along the base until it is **2"** (50 mm) from the mark you made on the **door** for the bottom bracket position (Figure 13 and Figure 14, where **C** = 2" or 50 mm).
- Tighten the slider nuts to hold the motor in place.

Note: Non-bi-parting doors do **not** use a top bracket.

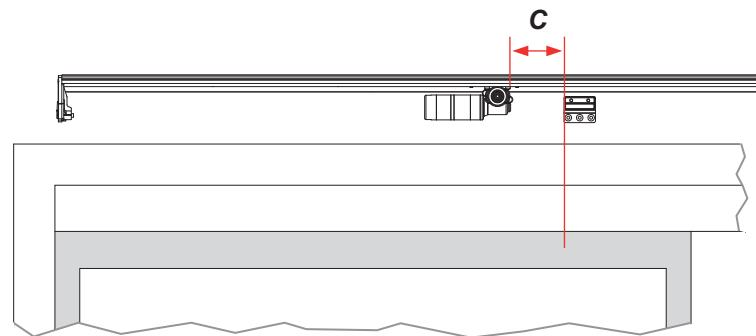


Figure 14: Left-opening sliding door with motor and bottom bracket. The left side is shown with the sliding door open.

For right-opening doors (non-bi-parting):

- Open** the door **fully**.

- Slide the motor along the base until it is **2"** (50 mm) from the mark you made on the **door** for the bottom bracket position (Figure 14 and Figure 15, where **C** = 2" or 50 mm).
- Tighten the slider nuts to hold the motor in place.

Note: Non-bi-parting doors do **not** use a top bracket.

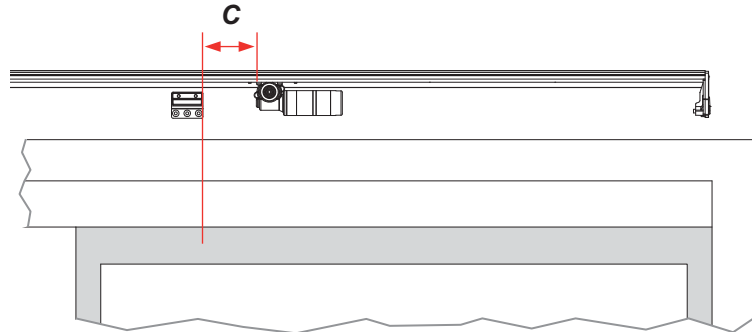
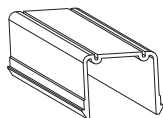
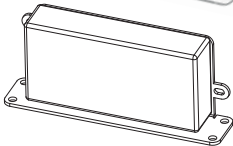


Figure 15: Right-opening sliding door: motor and bottom bracket. The right side is shown with the sliding door open.

(e) Controller and AC adapter

The controller and AC adapter sit next to the motor.

Steps:



- Lay the motor cable on the base in between the two tracks.
- Slide the controller along the base (over the motor cable) until it is **2"** (50 mm) from the motor (see Figures to 16 to 18, depending on the type of door, where **D** = 2" or 50 mm). The slider should be in the track **furthest** from the door.
- Slide the AC adapter along the base (over the motor cable) until it is **2"** (50 mm) from the controller (Figures to 18 to 20 where **D** = 2" or 50 mm). The slider should be in the track **furthest** from the door.
- If you are installing a mode pad on the door jam, lay the cable connected to the mode pad on the base between the two tracks and **underneath** the AC adapter.
- Clip the cable cover (cut it if necessary) over exposed cables on the base to prevent cables touching the belt.

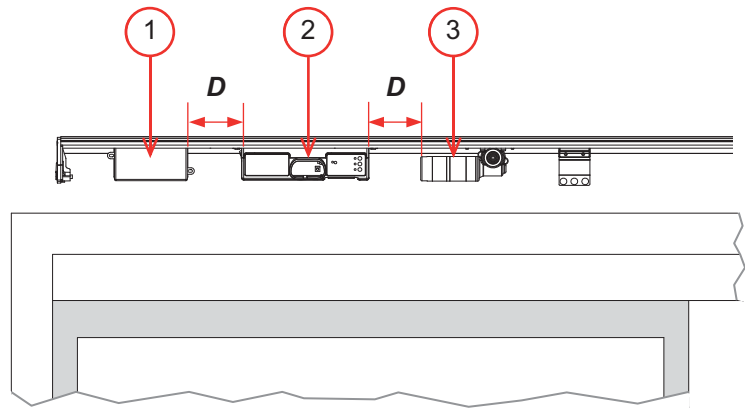


Figure 16: Bi-parting doors: AC adapter (1), controller (2), and motor (3).

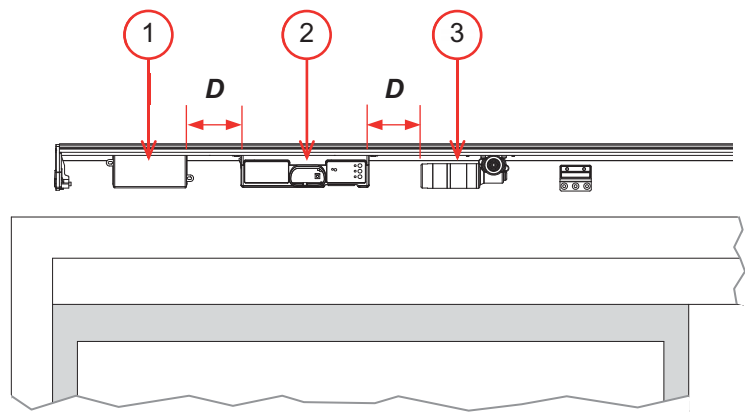


Figure 17: Right-opening door: AC adapter (1), controller (2), and motor (3).

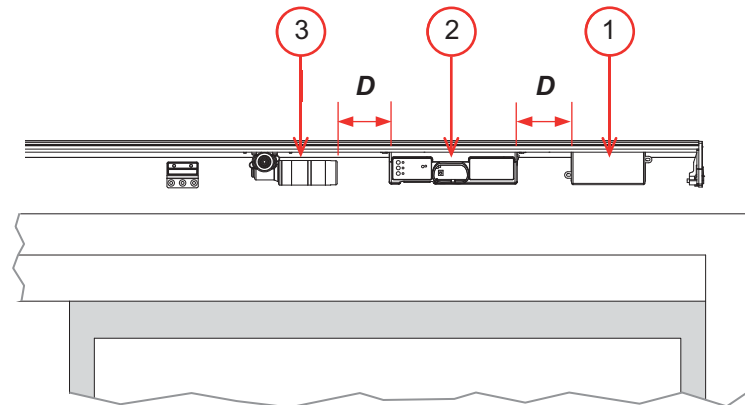


Figure 18: Left-opening door: AC adapter (1), controller (2), and motor (3).

6. Tighten the slider nuts to hold the AC adapter and controller in place.
7. Plug the motor cable into the controller (Figure 19) in a port labeled **Motor**.
8. Plug the AC adapter cable into the controller (Figure 19) in a port labeled **Power**.

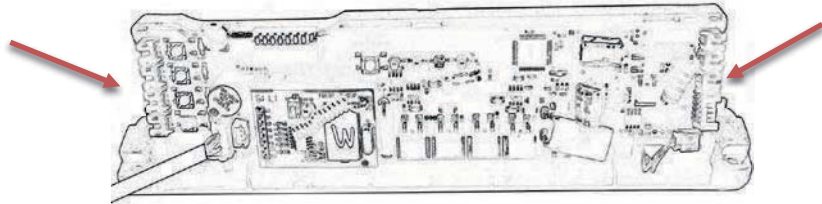


Figure 19: Plug the cables into the controller.

9. Fold up any spare cable from the AC adapter and fit it between the AC adapter and base.

(f) Belt

Steps:

1. Take a length of belt and pass it around the motor pulley and the belt tensioner pulley to form a loop.
One side of the loop will be closer to the base than the other side. Keep the **unconnected** side **furthest** from the base.
2. Use your hands to gently pull the belt tight. Cut the belt so that the two ends can touch without overlapping (Figure 20).

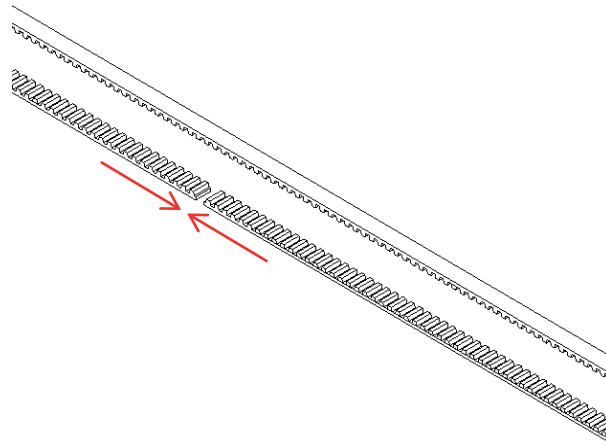
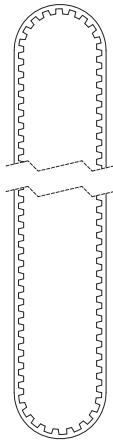


Figure 20: Cut the belt so that the two ends touch without overlapping.

3. Keep two ends of the belt as close as possible to each other and insert them into the bottom bracket (Figure 21).

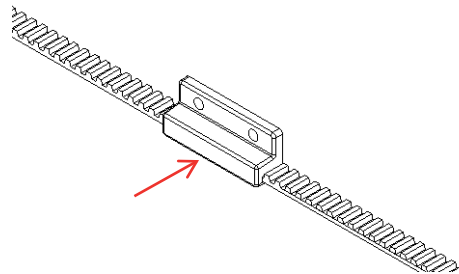


Figure 21: Insert the two ends of the belt into the bottom bracket.

4. Bolt together the two parts of the bottom bracket (Figure 22).

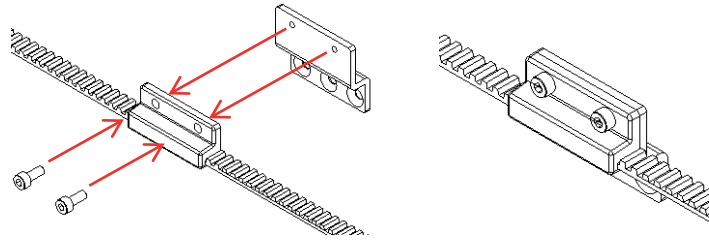


Figure 22: Bolt together the two parts of the bottom bracket.

5. On the belt tensioner, loosen the locking nut using the enclosed wrench (located on the long tensioning bolt – see Figure 23).

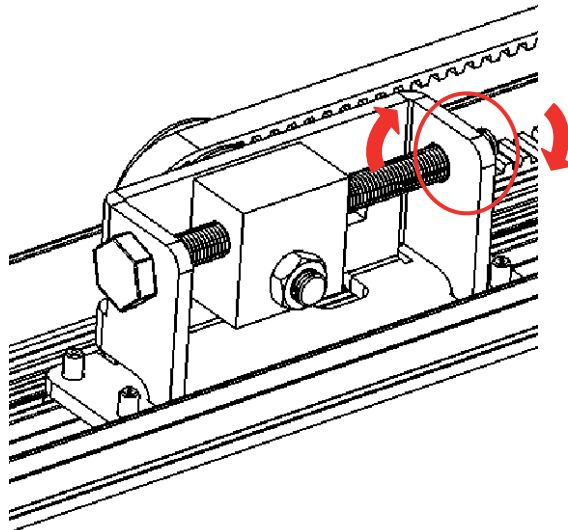


Figure 23: Loosen the locking nut.

6. Turn the tensioning bolt **clockwise** (Figure 24) to put tension on the belt. **Stop when the belt is pulled straight** and does not sag and is taut.

Do not over tighten the belt or the motor may get damaged.

Note: If the belt **loosens** when the tensioning bolt is turned clockwise, then follow these steps:

1. Completely unscrew the tensioning bolt until it is removed from the tensioning pulley.
2. Insert the tensioning bolt into the **opposite** end of the tensioning pulley (where the locking nut was previously) and screw it into place.
3. Screw the locking nut back onto the tensioning bolt.

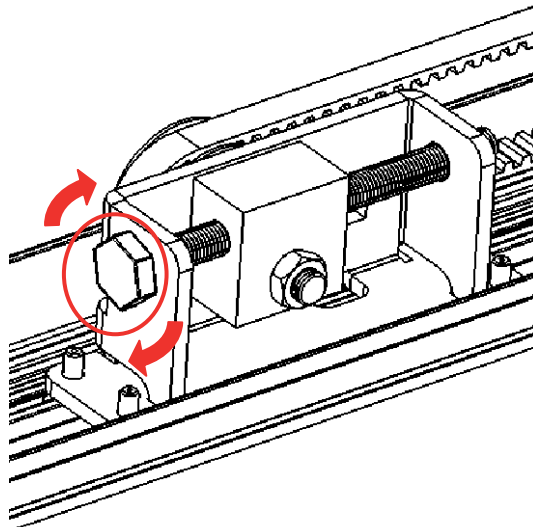


Figure 24: Tighten the belt with the tensioning bolt.

7. Tighten the locking nut (Figure 25).

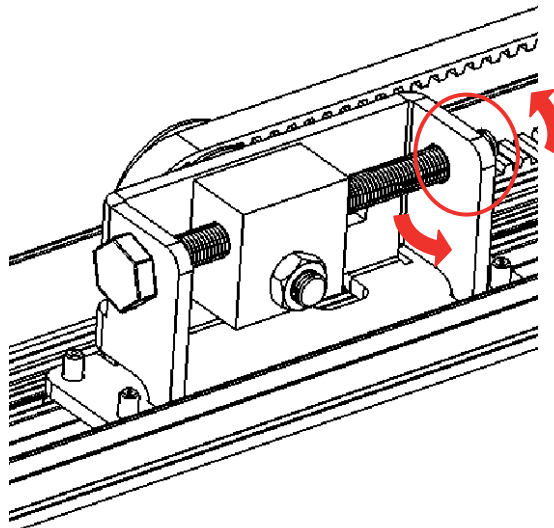


Figure 25: Tighten the locking nut.

(g) End caps

Steps:

1. Each end cap has two sliders. If you are running wires out the side of the MultiDrive, feed the wires through the end cap(s) before inserting the endcaps onto the base.
2. To insert, loosen the nuts and push the sliders into the two tracks in the base (Figure 26). You may need to use a hammer to gently tap the end caps into position.
3. Tighten the nuts on both sliders.

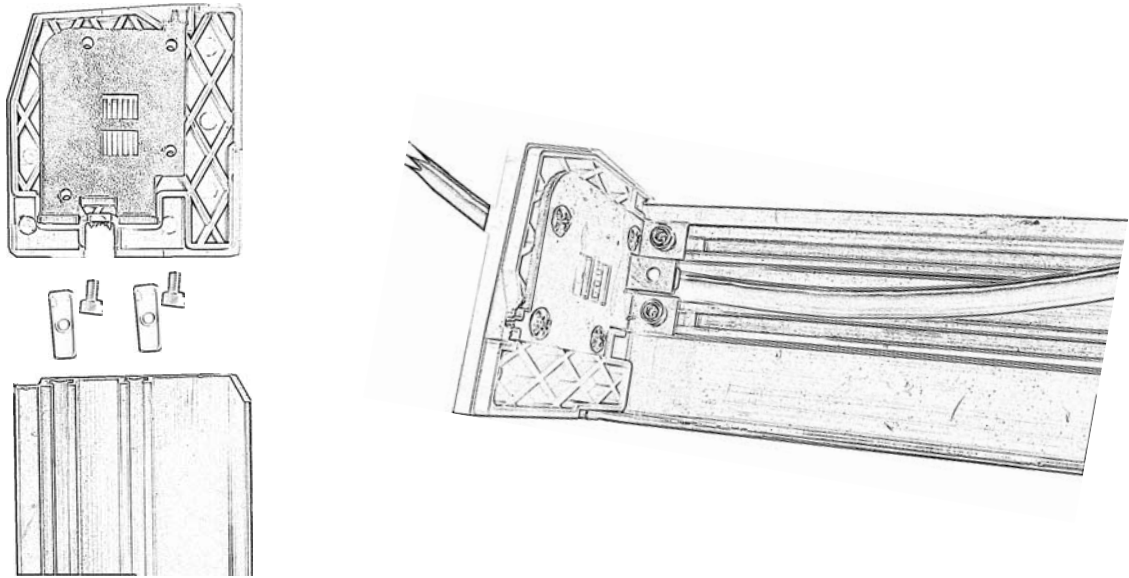


Figure 26: Secure AC cable on end cap and track

3. Attach the base to the door

Steps:

Place the base against the head jamb and measure distance H (Figure 27). H is the distance between the base and the vertical surface below the head jamb.

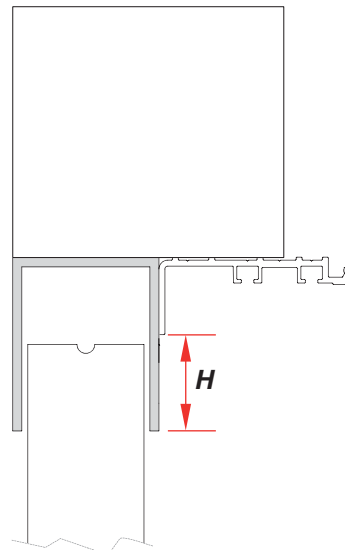


Figure 27: Place the base against the head jamb and measure H .

If $H < 1''$ (25 mm):

If H is less than 1" (25 mm), screw the base to the head jamb (Figure 28) as described below.

Otherwise, see the steps for $H \geq 1''$ (25 mm).

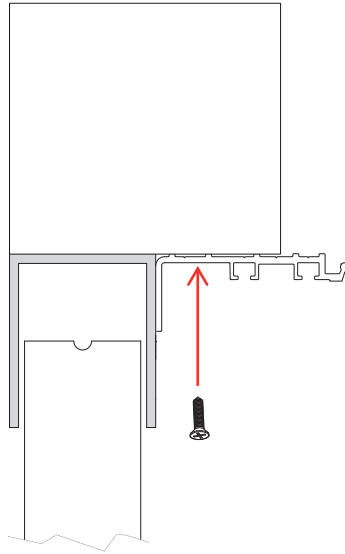


Figure 28: If $H < 0.99''$ (25 mm), screw the base to the head jamb.

1. Drill holes for 0.25" (6 mm) screws in the base (Figure 31) in seven places:
 - at both ends of the motor, no more than 0.75" (20 mm) away, between the two tracks
 - at both ends of the belt tensioner, no more than 0.75" (20 mm) away, between the two tracks
 - near each end cap, in the flat area outside the two tracks
 - in the middle of the base, in the flat area outside the two tracks.

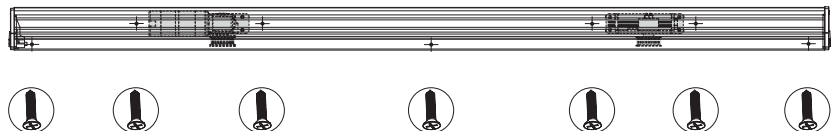


Figure 29: Screw positions in the base if $H < 0.99''$ (25 mm).

2. Put the base into position under the head jamb. Leave a gap of **0.1" to 0.2"** (3 to 5 mm) between the back of the base and the vertical frames of the doors.
3. Using the 0.25" (6 mm) holes in the base as a drill guide, drill 0.25" (6 mm) holes in the head jamb. You may need to clamp the base in position while doing this.
4. Use seven screws to hold the base in place for a 12' length. Additional screws are needed for bases longer than 12'.
5. If the belt sags, increase the belt tension as described above.

If $H \geq 1"$ (25 mm):

If H is 1" (25 mm) or more, screw the base to the **vertical** surface below the head jamb (Figure 30), as described below.

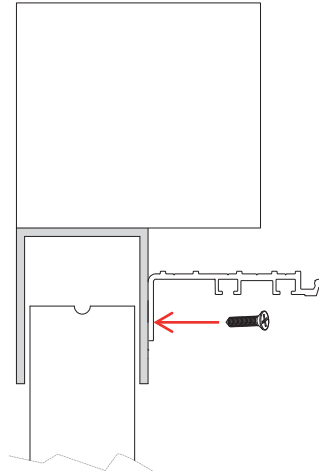


Figure 30: If $H \geq 1"$ (25 mm), screw the base to the vertical surface below the head jamb.

1. As shown in Figure 31, drill holes for 0.25" (6 mm) screws into the base in seven places:
 - at both ends of the motor, no more than 0.75" (20 mm) away
 - at both ends of the belt tensioner, no more than 0.75" (20 mm) away
 - near each end cap
 - in the middle of the base.

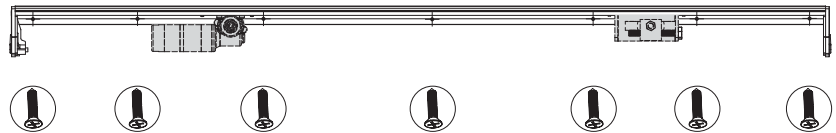


Figure 31: Screw positions in the base if $H \geq 1"$ (25 mm).

2. Put the base into position under the head jamb so that:
 - H is **less** than 1" (25 mm), and
 - the holes in the base are **clear of the sliding doors**.
3. Using the 0.25" (6 mm) holes in the base as a drill guide, drill 0.25" (6 mm) holes into the vertical surface behind the base. You may need to clamp the base in position while doing this.
4. Use seven screws to hold the base in place for a 12' length (30mm). Additional screws are needed for bases longer than 12' (30mm).
5. If the belt sags, increase the belt tension as described above.

4. Attach the brackets and cover

(a) Bottom bracket

For bi-parting doors:

1. Open the doors fully.
2. Rotate the belt so that the **bottom bracket** reaches the position you marked on the right-hand door earlier.

For non-bi-parting doors:

1. **Close** the door fully.
2. Rotate the belt so that the **bottom bracket** reaches the position you marked on the sliding door earlier.

Then, for all door types:

3. Use the three holes in the **bottom bracket** to mark the positions of those holes on the door (Figure 32).
Note: Keep the holes above the glass in the sliding door to avoid damaging the glass. If necessary, push the belt up to 0.1" to avoid the glass.
4. Drill 0.25" (6 mm) holes in the door at those three positions (Figure 32).

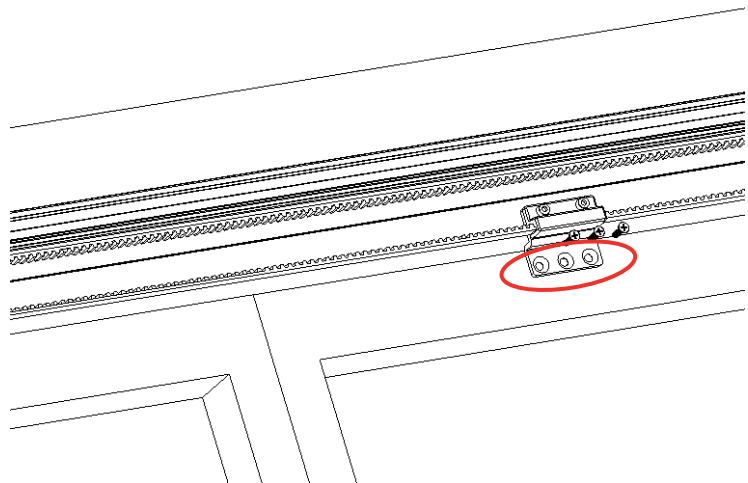


Figure 32: Drill three holes in the door for the bottom bracket. Be sure the holes are above the door's glass line to prevent damage to the glass.

5. Hold the bottom bracket against the door. The bracket **must not bend the belt sideways**. If space remains between the bracket and the door, use included clear spacers or a shim to obtain the extra thickness needed. The belt should run parallel with the door.
6. Screw the bottom bracket along with shim/spacers to the door.

(b) Top bracket (bi-parting doors only)

Steps:

1. **Open** both doors fully. Fit the top bracket onto the top loop of the belt (Figure 33) at the position you marked on the left-hand door earlier.
2. **Note:** If the door does not fit the bracket in this position, contact your MultiDrive supplier about obtaining a different style of bracket that fits onto the right edge of the door.

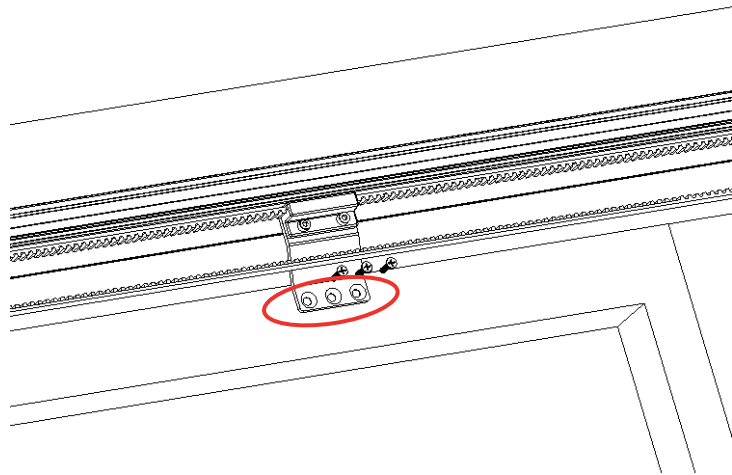


Figure 33: The top bracket position.

3. Bolt the belt clamp to the top loop of the belt (Figure 34).

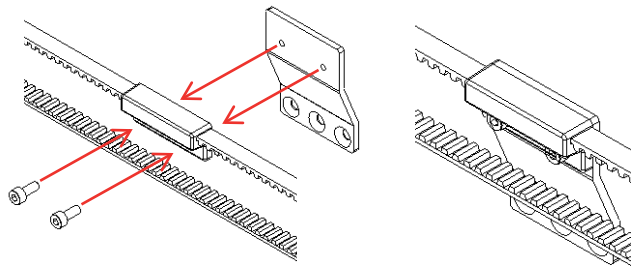


Figure 34: Bolt the top bracket onto the top loop of the belt.

4. Mark the three bracket holes on the door (Figure 35) then drill 0.25" (6 mm) holes in the door at those positions.

Note: Keep the holes above the glass in the sliding door to avoid damaging the glass. If necessary, you can push the belt up 0.1" to avoid the glass.

5. Hold the bottom bracket against the door. The bracket **must not bend the belt sideways**. If space remains between the bracket and the door, use included clear spacers or a shim to obtain the extra thickness needed. The belt should run parallel with the door.
6. Screw the bottom bracket along with shim/spacers to the door.

(h) Cover

Clip the cover over the base to cover the MultiDrive mechanism (Figure 35).

Note:

- Make sure the end of the cover clips sits in the track at the edge of the cover.
- If a cover clip does not fit into the track, use a screwdriver to slightly expand the track until the clip fits.

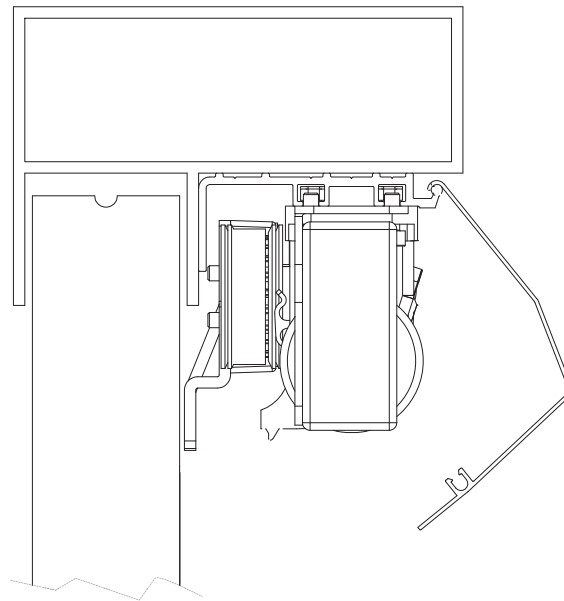


Figure 35: Clip the cover over the base.

5. Install the mode pad

The mode pad (Figure 36) allows users to cycle between the four different modes of operation by pressing the mode button (1). The four modes displayed on the mode pad are:

- **Unsecured Mode** (2): The door opens automatically, the locking function is disabled, & sensors for Indoor and Outdoor work.
- **Stack/Hold Open Mode** (3): In Hold Open Mode, the door stays open until the mode is changed. In Stack Mode, the door operates on a click-to-move setting. Push a button to open the doors and then push a button to close the doors. Place DIP switch #4 in the 'On' position to activate Stack Mode.
- **Secured Mode** (4): The door opens only when it is activated by a sensor or remote programmed for the Inside Sensor setting. The automatic locking function is enabled.
- **Pet Mode** (5): The door can be open to the Pet Width using a programmed pet sensor. The door also opens to the normal width when it is activated by a sensor or remote programmed for the Inside Sensor setting. The automatic locking function is enabled. door is locked with an electric lock (if fitted).

The back of the mode pad has a 7-pin electrical connector (6).

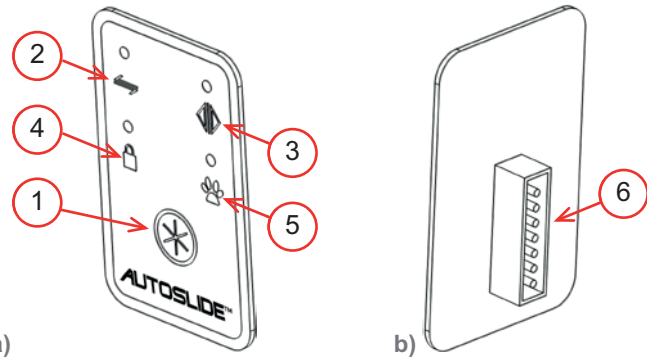


Figure 36: (a) The front of the mode pad, and (b) back of the mode pad with 7-pin connector.

Steps

1. Mark the position of the mode pad on a surface near the door.
2. Plug one end of the cable connected to the mode pad into the port of the controller. The cable should pass underneath the AC adapter. Feed the other end of the cable into the cavity behind the door jamb.
3. Cut a hole for the Mode Pad to recess for a flush mount. Feed the cable through the hole to fit the 7-pin connector (Figure 37).

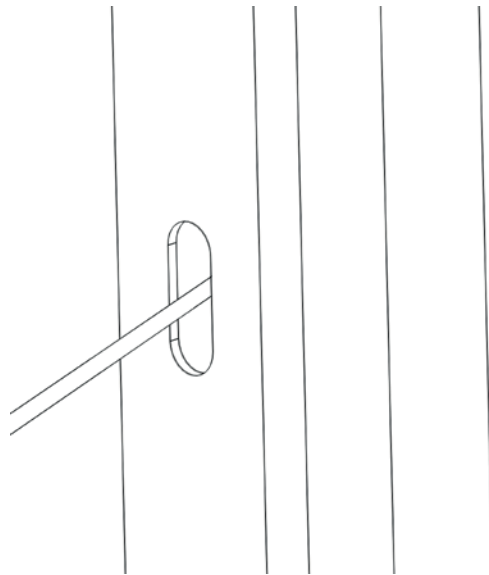


Figure 37: This example shows mounting on the door jamb. Feed the cable through the hole.

4. Peel backing paper from one side of the double-sided foam. Press the sticky side of the foam onto the back of the mode pad (Figure 38).

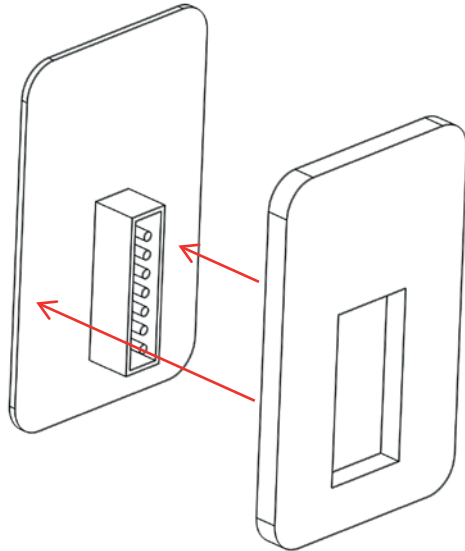


Figure 38: Press the sticky side of the foam onto the back of the mode pad.

5. Remove any dust, grease or moisture from the marked position on the door jamb.
6. Peel the backing paper from the other side of the double-sided foam. Connect the cable to the 7-pin connector (Figure 41), then firmly press the sticky side of the foam onto the door jamb (Figure 39).
7. If you are unable to feed the cable through the wall or jamb, use cord cover or wire jamb to hide the cable.

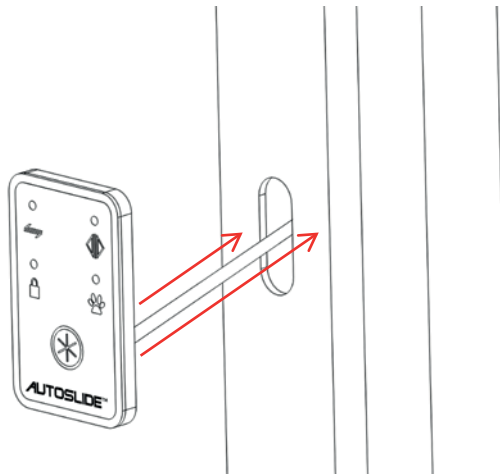


Figure 39: Remove the backing paper, connect the cable and press the sticky foam onto the door jamb.

Programming the controller

The controller (Figure 40) includes:

- **Dial (1)**: for adjusting the length of time the door stays open when in auto mode and pet mode.
- **DIP switches (2)**: eight DIP switches for programming the controller
- **Power Switch (3)**: for switching off power to the controller
- **Sensor-Learn Button (4)**: for triggering the controller to calibrate input from wireless inputs such as motion sensors
- **Red LED (5)**: for indicating status when calibrating input from a motion sensor.

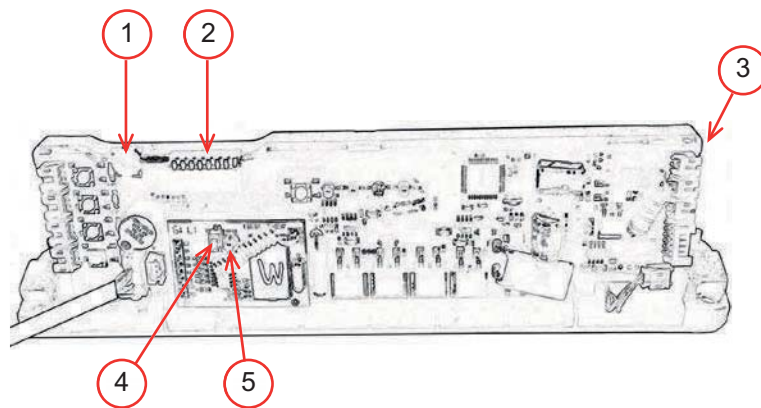


Figure 40: The controller.

1. Learn wireless inputs

These steps enable the MultiDrive to detect all wireless inputs, such as motion sensors, remote controls and pet sensors.

1. Power up the controller:
 - Take the power cable for the AC adapter and plug it into a general power outlet. Switch **on** the power at the outlet.
 - Switch on the power switch (3) on the controller.
2. Press the sensor-learn button (4) and release it. The red LED (5) lights up.
3. Activate all wireless inputs. For example, wave your hand in front of each motion sensor and push the button on any remote control to be used. The red LED (5) will turn off when all wireless inputs have been learnt by the controller.

If you wish to remove all learnt sensors and start again, press and hold the sensor-learn button (4) for five seconds. The red LED (5) should light up before the sensor-learn button (4) is released.

2. Set DIP switches

- #1 **Distance Learn/Open Direction** – This dip switch has two functions, programming of door width and direction by which the gear rotates.
- Leaving this dip switch in the forward (Off) position, will cause the gear to rotate for a right-handed door. Flipping this dip switch away from you (On), will cause the gear to rotate for a left-handed door. **Note: If your system has been handed properly for the door it is being used on, keep Dip Switch #1 in forward position (Off).**
 - To program the door width, toggle this dip switch from current position, to opposite position, and back to current position to send the system into Learn Mode. The door will begin to open slowly. Let the door run to its stop point or stop it yourself by applying reverse pressure on the door at the position you want the door to open to for its maximum distance. **Note: This must be done while the power is turned ‘On.’**
- #2 **Slam Shut** – This dip switch provides extra power during the closing of the door at the end. It is needed when the door is entering a tight jamb or a jamb with weather seals on it. To activate, flip this dip switch away from you (On position). **Note: This setting cannot be used/turned ‘On’ when using system in Pet Mode.**
- #3 **Pet Distance Learn** – This dip switch allows you to program the door open distance for the Pet Mode. To program the pet distance, toggle this dip switch away from you (On position) and then forward (Off position). The door will start to open slowly. Stop the door by applying reverse pressure on the door at the maximum position you want the door to open to for your pets.
- #4 **Stay Open/Stacker Mode** – This dip switch determines how **Blue Mode** will operate. If the dip switch is left in the forward (Off) position, the door(s) will open and stay open when put in **Blue Mode** until the mode is changed to another mode. If the dip switch is flipped away from you (On position), the system will go into Stack Mode when placed in **Blue Mode**. In Stack Mode, you can activate the door(s) to open and close while staying in **Blue Mode**. You can also stop and start the travel of the door(s) at any time in this mode.
- #5 **75% Power** – This dip switch allows you to reduce the power of the motor in the MultiDrive system. To activate, flip the dip switch away from you (On position). This setting is good if you are using the system on a door with a light drag weight (ie. hollow core pocket door).
- #6 **50% Power** – This dip switch allows you to reduce the power of the motor in the MultiDrive system. To activate, flip the dip switch away from you (On position).
- #7 **Extra Power** – This dip switch will provide extra power for heavier door systems. To activate, flip the dip switch away from you (On position). This will double the normal force the motor uses to operate the MultiDrive system.
- #8 **Beep Alert** – This dip switch will provide an audible beep when the system is activated to open your door and close your door. To activate, flip the dip switch away from you (On position). **Note: The decibel of the audible beep has not been tested or approved by any lab to act as an approved alert device for safety. It is only for general alert knowledge.**

3. Programming the Modes

Stand clear of the door and switch on the power switch (3) on the controller. **Caution: the door may start moving without warning.**

Green Mode (Unsecured Mode)

The green light on the MultiDrive system indicates it is in the Unsecured Mode. This means the MultiDrive will not lock your doors and allows for an auto-assist opening when the door is manually opened. All sensors and devices programmed to the Inside Sensor and Outside Sensor will activate your door.

This mode is used for a single door system, the first panel of a telescoping door system, or to create a smaller unsecured opening for a bi-parting door system.

To program, toggle Dip Switch #1 'On' and then 'Off' to send the system into Learn Mode. The door will then open slowly. Stop the door at the max open distance you desire. The system will automatically finish its distance programming from this point. After the door completes two open and close cycles, the door will remain closed and is now programmed.

Blue Mode (Stay Open & Stacker Modes)

The blue light on the MultiDrive system indicates it is either in the Stay Open Mode or the Stacker Mode. This is determined by the position of Dip Switch #4.

If Dip Switch #4 is in the 'Off' position, the mode will act as Stay Open Mode. When the system is placed into Blue Mode, the door(s) will open and stay open until the system is changed out of Blue Mode.

If Dip Switch #4 is in the 'On' position, the mode will act as Stacker Mode. This mode is designed to allow the MultiDrive system to open multiple panels (telescoping and biparting doors). It also can operate as a Toggle Mode for a single panel system. The door(s) can be activated to open and close while remaining in **Blue Mode**. The doors can also be stopped and restarted at any time during travel in the **Blue Mode** as well.

To program, toggle Dip Switch #1 'On' and then 'Off' to send the system into Learn Mode. The door will then open slowly. Stop the door at the max open distance you desire. The system will automatically finish its distance programming from this point. After the door completes two open and close cycles, the door will remain closed and is now programmed. **Note: The distance for each mode in the MultiDrive system must be programmed individually.**

The iLock feature is enabled in this mode providing a secure and locked door system when the doors are fully closed. All devices programmed to the Outside Sensor Setting will not work in this mode.

Red Mode (Secured Mode)

The red light on the MultiDrive system indicates it is in the Secure Mode. The iLock feature is enabled in this mode providing a secure and locked door system when the doors are fully closed. All devices programmed to the Outside Sensor Setting will not work in this mode. The auto-assist function is disabled in the **Red Mode**.

This mode is used for a single door system, the first panel of a telescoping door system, or to create a smaller secure opening for a bi-parting door system.

To program, toggle Dip Switch #1 'On' and then 'Off' to send the system into Learn

Mode. The door will then open slowly. Stop the door at the max open distance you desire. The system will automatically finish its distance programming from this point. After the door completes two open and close cycles, the door will remain closed and is now programmed. **Note: The distance for each mode in the MultiDrive system must be programmed individually.**

Orange Mode (Pet Mode)

The orange light on the MultiDrive system indicates it is in the Pet Mode. The iLock feature is enabled in this mode providing a secure and locked door system when the doors are fully closed. All devices programmed to the Outside Sensor Setting will not work in this mode. The auto-assist function is disabled in the **Orange Mode**.

The Pet Mode will allow your pets to use any device programmed to the Pet Sensor Setting to activate the door. **Note: Devices programmed to the Pet Sensor Setting cannot be used in Green, Blue, or Red Modes.**

This mode is used for a single door system, the first panel of a telescoping door system, or to create a pet opening for a bi-parting door system. When the door opens in Pet Mode, the door will lock at its open position. This will help prevent the door from being forced open by a possible intruder. **Note: This mode cannot be used if Slam Shut (Dip Switch #2) is activated.**

To program the pet distance, toggle Dip Switch #3 'On' and then 'Off' to send the system into Learn Mode. The door will then open slowly. Stop the door at the max open distance you desire for your pet. The system will automatically finish its distance programming from this point. After the door closes, the door will remain closed and is now programmed for your pet. **Note: The distance for each mode in the MultiDrive system must be programmed individually.**

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FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.