

SDO4 SMART INSTALLATION MANUAL



Company Profile



**In-house
R&D
development
team**

**Manufactures to
international
quality standard
ISO 9001:2015**



**100%
testing of
products**

**After-sales
multi-language
Technical Support**



**Sales and technical support
to Africa, Europe, Asia,
the Americas, Australia
and the Pacific**

**Technical Support
Operating Times**

**Monday to Friday
08h00 to 16h30 GMT+2**

**Saturdays
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Icons used in this manual



This icon indicates tips and other information that could be useful during the installation.



This icon denotes variations and other aspects that should be considered during installation.



This icon indicates warning, caution or attention! Please take special note of critical aspects that **MUST be adhered to in order to prevent injury.**

1. Introduction

The **SDO4 SMART** has been designed to automate domestic garage doors safely, quietly and reliably. The product's belt-driven system allows for whisper-quiet operation, while reliable battery-driven technology ensures that the **SDO4 SMART** will continue working even during lengthy power outages.

In addition, the **SDO4 SMART's** built-in collision sensing circuitry makes it a very safe automation solution. Kits are available for both sectional and Tip up garage doors.

Advanced features of the SDO4 SMART logic controller include:

- Interactive graphic user interface via a smartphone application
- Automated setup of garage door endpoints (limits)
- Independently-adjustable motor speed in both opening and closing directions¹
- Fail-safe collision detection and auto-reverse (adjustable sensitivity)
- Smooth, adjustable short and long stop
- Multiple operational modes
- Selectable, adjustable Autoclose
- Independent safety input for opening and closing beams
- Onboard NOVA code-hopping radio receiver with full channel-mapping capability (limited to 20 4-button remotes)

1. Tip up Doors Only.

1.1. Important Safety Information



WARNING! IMPORTANT SAFETY INSTRUCTIONS

To ensure the safety of people and possessions, it is important that you read all the following instructions.

Follow all instructions since incorrect installation can lead to severe injury. Incorrect installation or incorrect use of the product could cause serious harm to people and / or property.

The installer, being either professional or DIY, is the last person on the site who can ensure that the operator is safely installed, and that the whole system can be operated safely.

Warnings for the installer

CAREFULLY READ AND FOLLOW ALL INSTRUCTIONS before beginning to install the product.

- The installation of your new **SDO4 SMART** must be carried out by a technically qualified or licensed person. Attempting to install or repair the **SDO4 SMART** without suitable technical qualification may result in severe personal injury, death and / or property damage
- Before installing the drive, check that the door is in good mechanical condition, correctly balanced and opens and closes properly. The **SDO4 SMART** must only be installed on a properly-balanced, well-functioning garage door. The garage door is deemed to be well-balanced and aligned if it:
 - Requires an equivalent amount of applied force to either manually open or close. The applied force should not exceed 100N (10kg)
 - Does not rise or fall more than 100mm when released at any point between the fully-open and fully-closed positions
 - Does not rub on or incorrectly make contact with any supporting or surrounding structures
 - The horizontal tracks have been installed level, and
 - The door panels have been installed level, and
 - The vertical tracks have been installed plumb, and
 - The junction between the curved horizontal track and the vertical track does not cause the door to 'jump'
- The counterbalance springs on sectional type garage doors must be properly lubricated between all of the coils with heavy automotive bearing grease
- Failure to adequately lubricate the springs may result in one or more of the following:
 - Counterbalance springs may become rusty over time, resulting in additional operating friction between the coils which may cause the **SDO4 SMART** to malfunction
 - Seasonal temperature changes may cause the garage door springs to expand and / or contract. The resultant increase and / or decrease in operating friction may cause the **SDO4 SMART** to malfunction. Properly lubricating the springs will help to minimise changes in operating friction due to the effects of seasonal temperature change

- Repairs to the garage door must be carried out by technically qualified persons. Attempting to repair the garage door without suitable technical qualification may result in severe personal injury, death and / or property damage
- Where possible, install the **SDO4 SMART** at least two meters or more above the ground. Adjust the engage / disengage cord so that it hangs approximately 1.8 meters from the ground
- The header bracket carries ALL of the opening and closing thrust of the **SDO4 SMART** and as such must be securely fastened to a rigid, structural member of the garage wall or ceiling. It is entirely up to the installer to determine the fixing method and the structural suitability of the fixing points
- The engage / disengage instruction tag must remain attached to the engage / disengage cord
- Locate the wall switch;
 - Within site of the garage door, and
 - At a minimum height of 1.5 meters above the ground so that it remains out of the reach of small children, and
 - Away from all moving parts of the garage door
- The entrapment warning label must be secured in a prominent position adjacent to the wall switch
- Do not connect the **SDO4 SMART** to the power outlet until this manual instructs you to do so
- Subsequent to installation and adjustment, the **SDO4 SMART** must stop and reverse direction when it comes into contact with a 40mm high solid object placed on the floor under the garage door
- The correct function of the safety obstruction force system should be checked on a monthly basis
- Never use the **SDO4 SMART** unless the garage door is in full view and free from any object which may impede the movement of the garage door such as cars, children and / or adults
- Never allow children to operate the **SDO4 SMART**
- Never operate the **SDO4 SMART** when any persons are under or near the path of the garage door. Children must be supervised at all times when near the garage door and when the **SDO4 SMART** is in use
- Never attempt to disengage the **SDO4 SMART** to manual operation when there are children/ persons and / or solid objects including motor vehicles under or near the path of the garage door as the garage door may fall sharply upon Manual Release from the **SDO4 SMART**
- Never attempt to open or close the garage door by pulling on the engage / disengage cord
- Never attempt to make any repairs or remove covers from the **SDO4 SMART** without first disconnecting the power supply cord from the main power supply
- Removal of the **SDO4 SMART**'s protective covers must only be performed by a technically qualified person. Attempting to remove the protective covers or repair the **SDO4 SMART** without suitable technical qualification may result in severe personal injury, death and/or property damage
- Install the actuating member for the manual release at a height less than 1,8m
- Install any fixed control at a height of at least 1,5m and within sight of the door but away from moving parts

- For additional safety, we strongly recommend the inclusion of safety beams. Although the **SDO4 SMART** incorporates a pressure sensitive safety obstruction force system, the addition of safety beams will greatly enhance the operating safety of an automatic garage door and provide additional peace of mind. In some countries, it is a mandate of law to fit safety beams. It is the sole responsibility of the owner / installer to fit safety beams in those countries that so require
- Always ensure that the garage door is fully-open and stationary before driving in or out of the garage
- Always ensure the garage door is fully-closed and stationary before moving out of its view
- Adjustments to the safety stop / reverse force settings must only be carried out by a technically qualified person. Attempting to adjust the settings without suitable technical qualification may result in severe personal injury, death and / or property damage
- Keep hands and loose clothing clear of the **SDO4 SMART** and garage door at all times
- In order for the safety obstruction force system to function, it must first encounter an obstruction in the form of an object / person onto which some force **MUST** be exerted. As a result, the object / person / garage door may suffer **DAMAGE AND / OR INJURY**
- The safety obstruction system is designed to work on **STATIONARY** objects only. Serious personal injury, death and / or property damage may occur if the garage door comes into contact with a moving object during an open or close cycle
- Keep remote controls away from children
- Take care when operating the manual release since an open door may fall rapidly due to weak or broken springs or being out of balance
- Each month check that the drive reverses when the door contacts a 40 mm high object placed on the floor. Adjust if necessary and recheck since an incorrect adjustment may present a hazard
- Permanently fix the labels warning against entrapment in a prominent place or near any fixed controls
- Permanently fix the label concerning the manual release adjacent to its actuating member
- After installation, ensure that the mechanism is properly adjusted and that the drive reverses when the door contacts a 40mm high object placed on the floor
- The drive must not be used with a door incorporating a wicket door (unless the drive cannot be operated with the wicket door open)
- After installation, ensure that parts of the door do not extend over public foot paths or roads

1.2. Safe Disposal of Batteries



ATTENTION!

- Do not incinerate
- Do not short the battery terminals
- Do not charge in a gas-tight container
- Do not open
- Recharge after use
- Flush with water at once if contact is made with electrolyte (acid)



WARNING! WARNING! WARNING! WARNING! WARNING!

**SAFETY
FIRST**

**KEEP CLEAR!
DOOR MAY MOVE AT ANY TIME!**



**A MOVING GARAGE DOOR CAN CAUSE SERIOUS
INJURY OR DEATH
KEEP CLEAR! DOOR MAY MOVE AT ANY TIME!
DO NOT ALLOW CHILDREN TO PLAY IN THE AREA
OR OPERATE THE DOOR.**



Please note that images in this installation manual are not to scale.

2. Specifications

2.1. Physical Dimensions

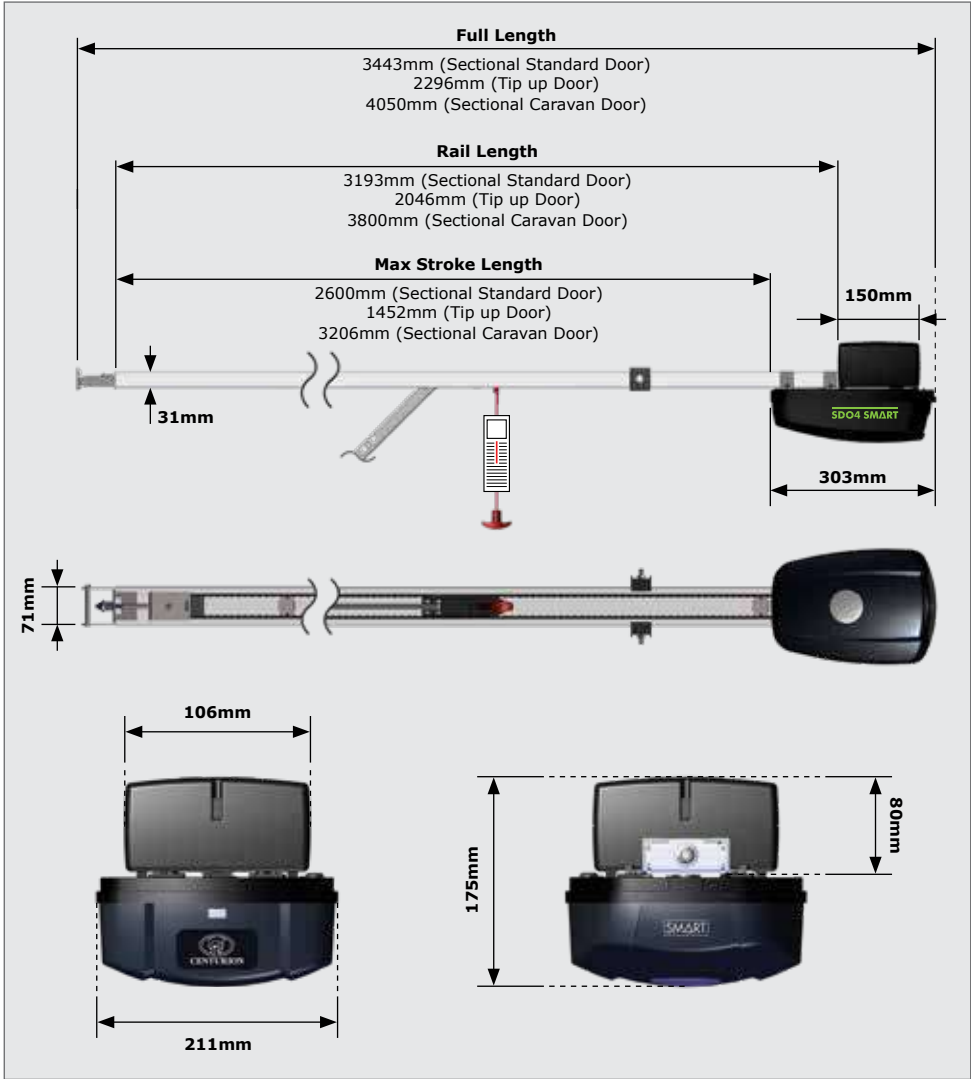


FIGURE 1. OVERALL DIMENSIONS FOR THE SDO4 SMART

2.2. Technical Specifications

	T10	T12
Input voltage	230V AC @ 50/60Hz ¹	
Motor voltage	24V DC	
Motor power - rated	80W DC	100W DC
Motor supply	Battery supply 2x 12V 3.4Ah	Battery supply 2x 12V 3.4Ah
Max door width	6500mm	
Max door area	12 square metres	15 square metres
Max holding capacity	1000N	1200N
Maximum push/pull force	40kgf	50kgf
Operations in standby mode	Up to 90 depending on the door size / weight / height / duration of power failure / condition of batteries	
Operator travel speed ³	9m/min	
Door travel adjustment	Physical Endstops (Automatic limit set)	
Safety obstruction force system	Built-in menu	
Light	LED 2W	
Autoclose ²	Menu Selectable	
Infrared safety beams	Menu Selectable (Optional, but recommended)	
Radio receiver	Code-hopping 433MHz	
Degree of protection	IPX0 (For interior use only)	
Receiver code storage capacity	20x 4-Button NOVA transmitters	

TABLE 1

1. Can operate off a solar supply, please consult Centurion Systems (Pty) Ltd for assistance.
2. Requires infrared safety beams to be fitted.
3. Speed varies with load.

2.3. Maximum Door Size

	Sectional Standard Door	Sectional Caravan Door	Tip up Door
Max door width	6500mm		
Max door height	2600mm	3206mm	2135mm

TABLE 2

2.4. Fuse Protection

The following protection fuses are provided on the system:

Item	Type	Rating
Main controller		
Motor circuit	ATO	15A

TABLE 3

3. Product Identification

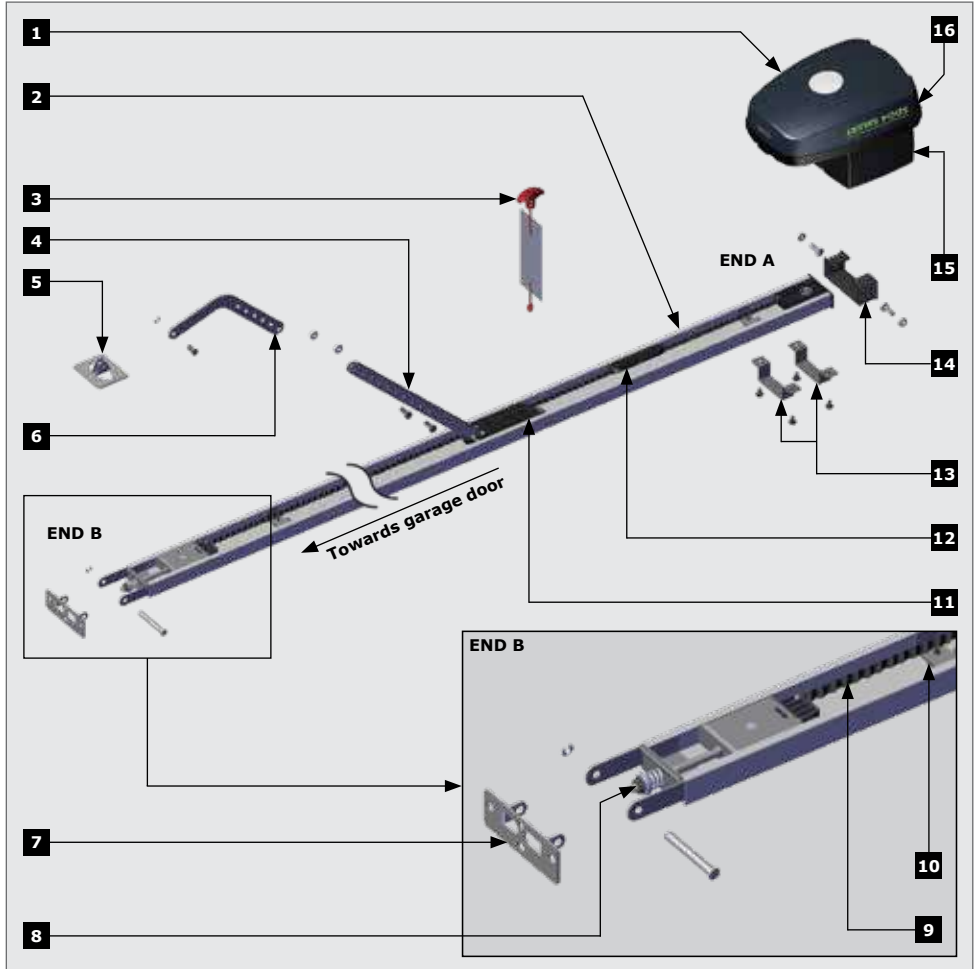


FIGURE 2. PRODUCT IDENTIFICATION

- | | |
|--------------------------------------|--|
| 1. Control head unit | 9. Drive Belt |
| 2. Rail | 10. End-stop |
| 3. Release handle with warning label | 11. Carriage |
| 4. Straight towing arm | 12. Belt bullet |
| 5. Towing bracket | 13. Head unit brackets |
| 6. Bent towing arm | 14. Rail hanger |
| 7. Header bracket | 15. Battery housing |
| 8. Tensioning nut and spring | 16. Screw to remove the Control Head Cover |

3.1. Fasteners List and Spares

Description	QTY
ST5.5 x 50 Self-tapping Coach Screws	4
ST8 x 60 Self-tapping Screws	3
ST6.3 x 25 Self-tapping Screws - Hex Flange Head	3
M6 x 8 Black Cross Pan Head Screws	2
M8 x 20 Hexagon Head Bolts	6
M6 x 12 Black Wizzlock Bolts	4

Description	QTY
M8 Wizzlock Nuts	8
Ø8 x 71 Clevice Pin	1
Ø8 x 18 Black Clevice Pin	1
Ø2 Hairpin Clips	2
12 x 60mm Fischer Plugs	3
M8 x 25(Pitch 1.25) Black Gutter Bolts	2

TABLE 4

4. Required Tools and Equipment

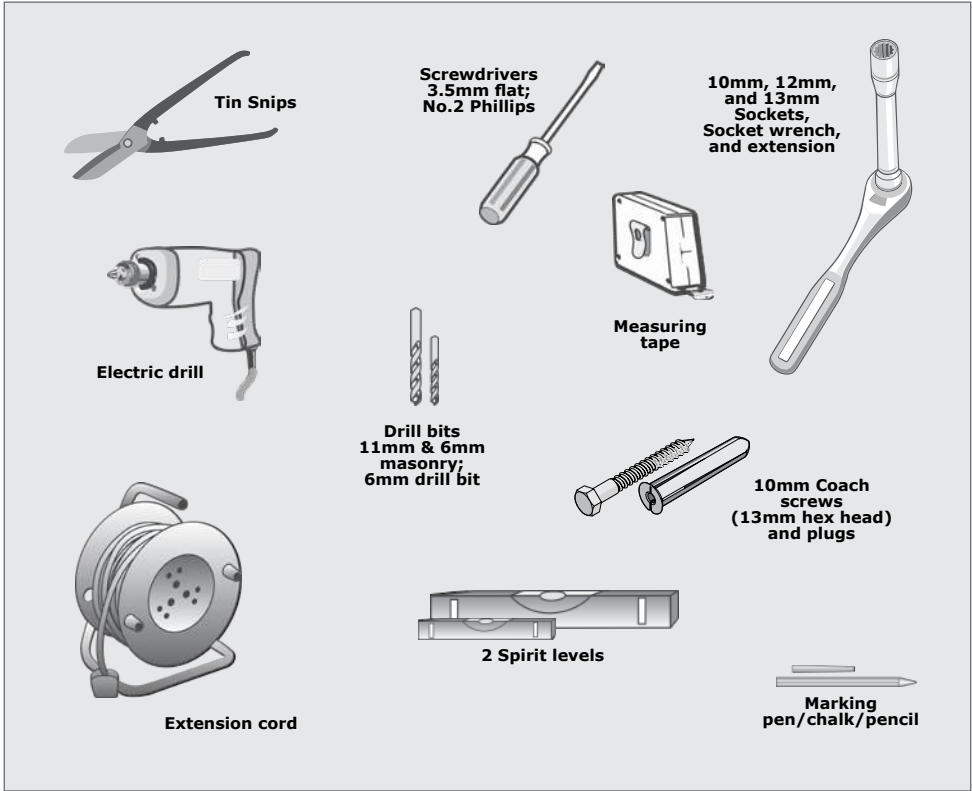


FIGURE 3. REQUIRED TOOLS AND EQUIPMENT

5. Preparation of Site

5.1. General Considerations for the Installation

Always recommend the fitment of additional safety equipment such as safety edges and safety beams, for additional protection against entrapment or other mechanical risks.

Ensure that no pipes or electrical cables are in the way of the intended installation.

Install the garage operator only if:

- It will not pose a hazard to the public
- The installation will meet all municipal and/or local authority requirements once completed
- The door mass and application is within the operator specifications
- There is a properly-earthed general purpose 220-240V AC power outlet that has been installed by a qualified electrical contractor
- All locks, ropes and / or securing mechanisms have been removed
- The ceiling structure is adequate enough to support the weight of the **SDO4 SMART**
- The garage door is in good working order, meaning:
 - it opens freely;
 - it is well-balanced;



An improperly-balanced or malfunctioning garage door could cause serious personal injury, death and / or property damage. Have a qualified person check and, if required, make repairs to the garage door before installing the **SDO4 SMART**.

- it does not move on its own if left in any position for more than 100mm;
- it can be installed to have sufficient clearance between moving parts when opening or closing to reduce the risk of personal injury and / or entrapment



Any repairs to the garage door that need to be done due to any of the above requirements not being in place, must be carried out by technically qualified persons.



Attempting to repair the garage door without suitable technical qualifications, may result in severe personal injury, death, and / or property damage.

6. Operator Installation

6.1. Assembly Instructions

6.1.1. Identify the garage door type

Identify the garage door type and then select the preferred installation method and assembly type that is best-suited to the application.

Sectional Standard Doors

- Use a 3193mm one-piece drive rail
- The standard 3193mm drive rail will lift a door up to 2600mm high
- The **SDO4 SMART** is supported by the drive rail hanger which is hung from the ceiling using appropriate hanging material
- The drive rail must be perpendicular to the door as shown in Figure 4
- The header bracket may be mounted on the front wall of the garage or on the ceiling adjacent to the front wall

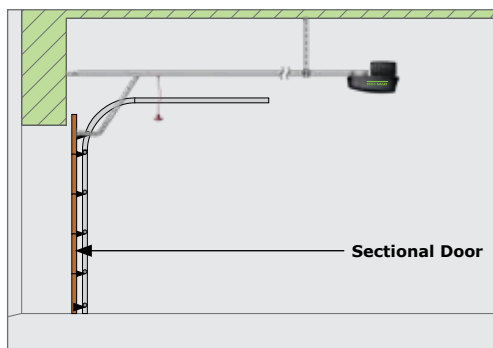


FIGURE 4

Sectional Caravan Doors

- Use a 3800mm one-piece drive rail
- The 3800mm drive rail will lift a door up to 3206mm high
- The **SDO4 SMART** is supported by the drive rail hanger which is hung from the ceiling using appropriate hanging material
- The drive rail must be perpendicular to the door as shown in Figure 5
- The header bracket may be mounted on the front wall of the garage or on the ceiling adjacent to the front wall

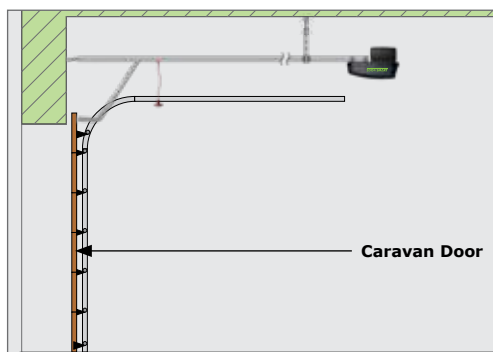


FIGURE 5

Tip up doors

- Use a 2046mm one-piece drive rail
- The **SDO4 SMART** is supported by the drive rail hanger which is hung from the ceiling using appropriate hanging material
- The drive rail must be angled, so that the pivot points at each end of the connecting arm should be as close to horizontal as possible when the door is in the fully-open position
- The header bracket may be mounted on the front wall of the garage or on the ceiling adjacent to the front wall

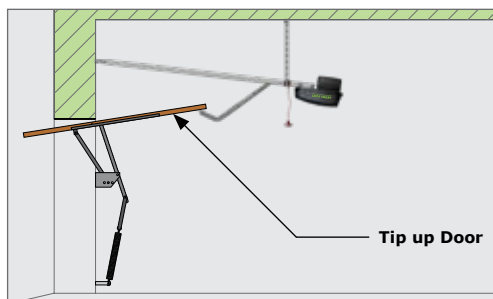


FIGURE 6

6.1.2. General assembly

Open the packing carton and expose the **SDO4 SMART** components.

Orientate the drive rail so that the terminal bracket faces towards the garage door

1. Fit the M8 black gutter bolts onto the drive rail hanger. Secure them using the supplied M8 nuts. This must be done before fitting the drive rail hanger onto the Drive Rail.
Fit the Drive Rail hanger and slide it down the Drive Rail starting from 'End A' (Figure 7).

It is important at this point of the installation to open the battery housing (Refer back to Figure 2), and connect the batteries before continuing with the installation.

2. Orientate the Drive Rail as shown in Figure 8, and fit 'End A' over the motor coupling found on the motor.

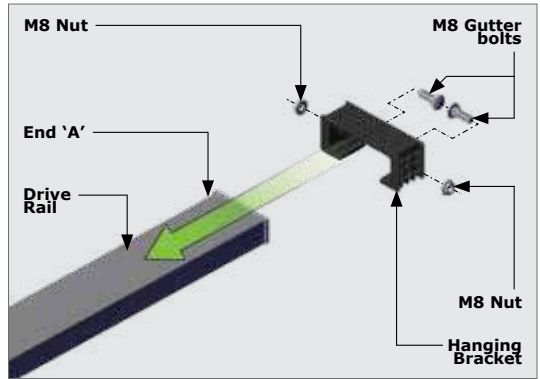


FIGURE 7

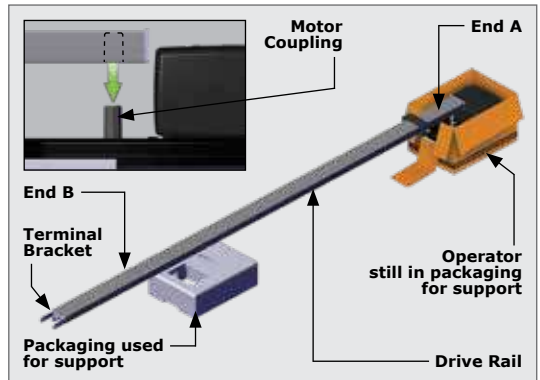


FIGURE 8

Keep the operator in its packaging for support, and use the other half of the packaging to support the other end of the Drive Rail.



FIGURE 9

3. Swing the track from side to side should the motor coupling struggle to engage with the shaft. DO NOT exceed 25° in either direction.



It is highly recommended to complete Steps 4 and 5 with the head unit still inside its packaging. This is to protect it from possible damage and scratching.

4. Place the two U-Brackets into position over the four holes found on the head unit (Figure 10).
5. Secure the U-Brackets into position using 4x black M6x12mm screws (Figure 11).

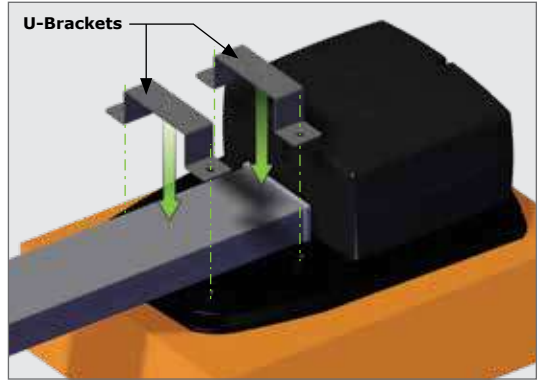


FIGURE 10

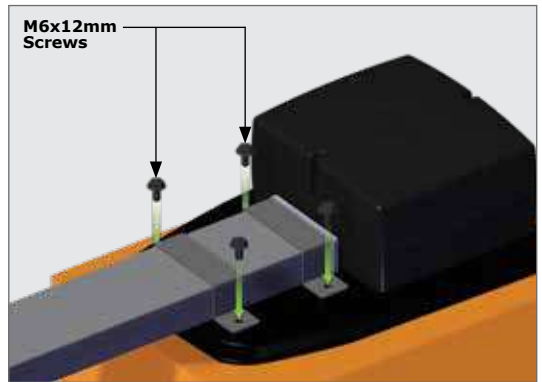


FIGURE 11

6.1.3. Tensioning the belt

The belt comes pre-tensioned from the factory; however, ensure that the spaces between the spring windings are 0.5-1mm. Use a 13mm socket and wrench to tighten the drive should there, for whatever reason, be a deviation from these values.

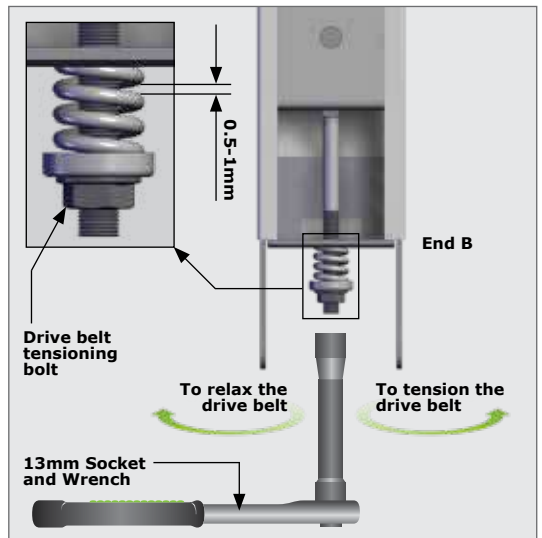


FIGURE 12

6.2. Installation Instructions

6.2.1. Sectional Standard doors and Sectional Caravan doors

(For Tip up Doors skip to Section 6.2.2)



Before commencing the installation, ensure that you have carefully read and understood all safety recommendations. In particular, ensure that the installation of the garage door complies with the requirements specified. Make any necessary adjustments to the garage door BEFORE commencing the installation!

Important considerations to note before commencing installation



- Sectional Standard Doors;
The opening heights are **2600mm** for standard Sectional doors
- Sectional Caravan Doors;
The opening heights are **3206mm** for Caravan-height Sectional doors
- The structure is level, square and plumb
- For sectional doors, the door panel overlaps the opening by no more than 30mm at the top, and sides.

Door traveling path

The travel path of a garage door is determined by the path the top section of the garage door takes as the door is being opened or closed.

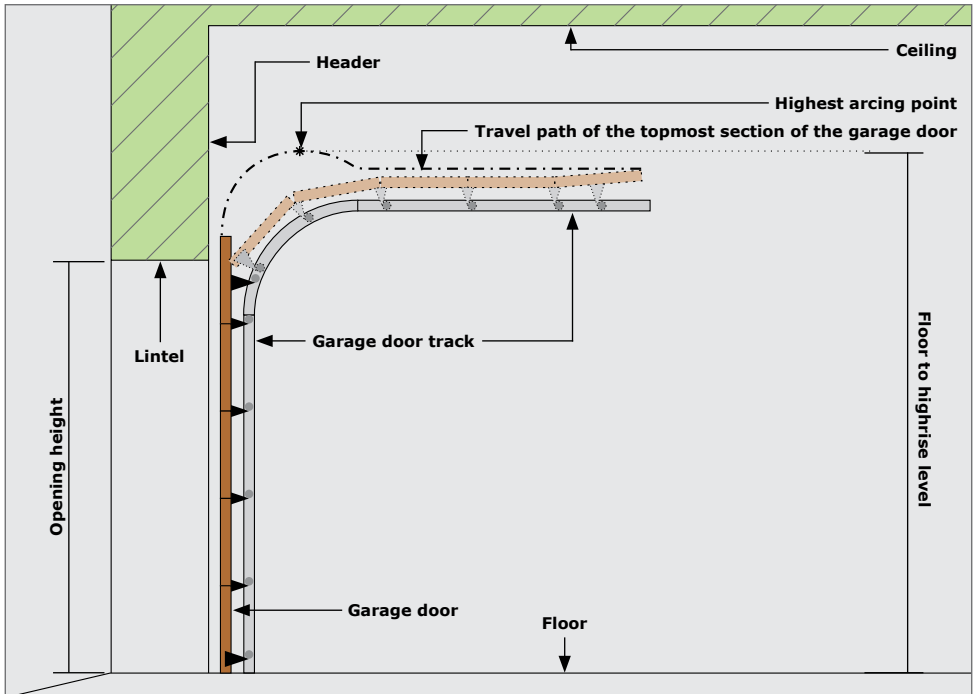


FIGURE 13

6.2.1.1. Mounting the header bracket



The header bracket carries ALL of the opening and closing thrust of the SDO4 SMART and, as such, must be securely fastened to a rigid, structural member of the garage. It is entirely up to the installer to determine the fixing method and the structural suitability of the fixing points.



When marking important lines needed for mounting the header bracket, ensure that a spirit level is used, as it is imperative that these lines are as level and straight as possible.

Determine the highest arcing point of the garage door and mark this as a horizontal line on the header above the top edge of the garage door.

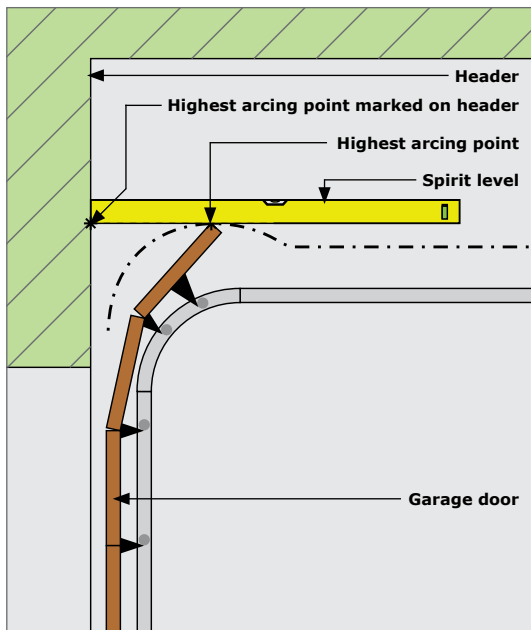


FIGURE 14

Close the garage door, and determine the garage door center-line and mark a vertical line on the header above the door.

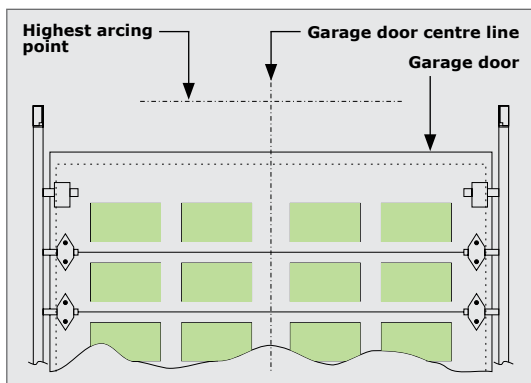


FIGURE 15

Place the header bracket on the wall as shown in Figure 16. Ensure that the **bottom edge** of the bracket is level, and **no more than 50mm above** the highest arcing point of the garage door. Mark the location of the four screw holes (Hole A, B, C and D[optional]).



Note the orientation of the header bracket.



Mounting the drive rail more than 50mm above the highest arcing point of the garage door may cause the drive rail to flex excessively.

Drill four 11mm diameter holes in position of 'Hole A', 'Hole B', 'Hole C' and 'Hole D'(optional), at least 50mm deep.

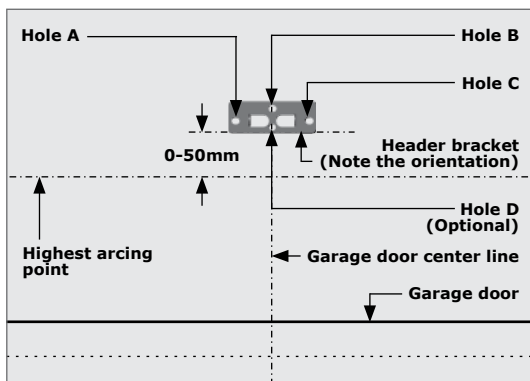


FIGURE 16

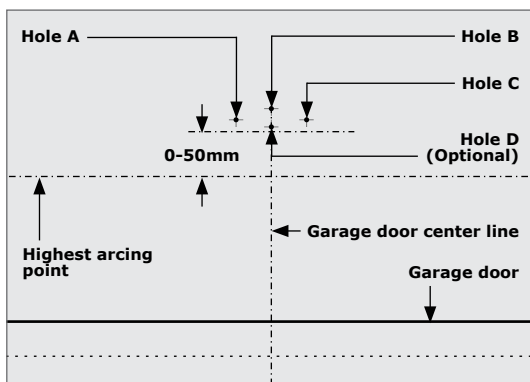


FIGURE 17

Place a fischer plug in each hole, followed by the header bracket. Secure it in position with at least three coach screws (supplied) (13mm hexagonal head).

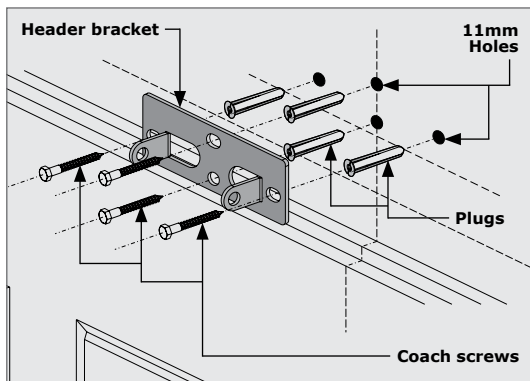


FIGURE 18



If, after securing the header bracket, it is slightly out (not level), use a hammer to knock the tabs gently up or down with a small spirit level placed on top of them. This will ensure a perfectly level installation (Figure 19).

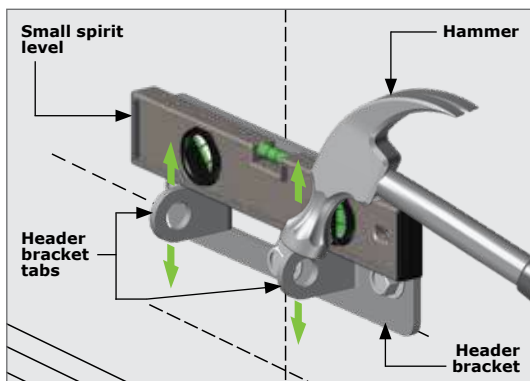


FIGURE 19

6.2.1.2. Mounting the SDO4 SMART to the header bracket



It is important at this point of the installation to ensure that the batteries are connected before continuing with the installation.

Position the **SDO4 SMART** in place, with the open end of the drive rail facing the floor, and the tensioning bracket towards the garage door. You will need a second person to assist you with this.



If you are on your own, use a ladder to support the control unit end of the **SDO4 SMART** while you are positioning it for the next step (Figure 20).

Align the holes on the side of the tensioning bracket with the holes of the header bracket.

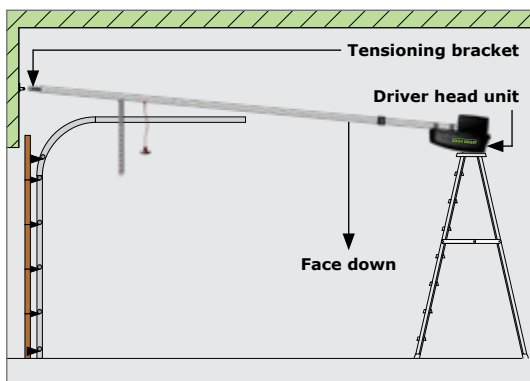


FIGURE 20

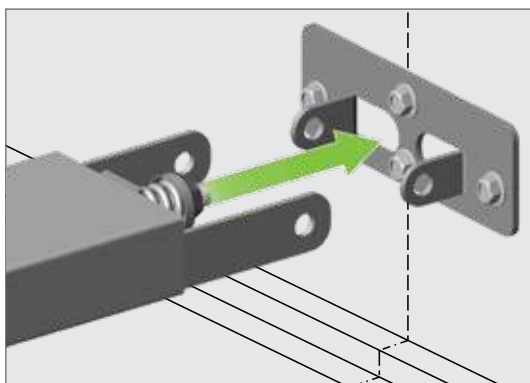


FIGURE 21

Locate the long clevis pin through the holes and secure it into position with a supplied E-Clip on the other end of the clevis pin.



Split Pins have also been supplied should they be preferred over the use of the circle pin clips.

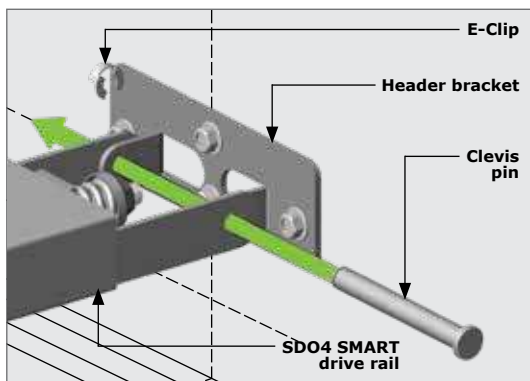


FIGURE 22

6.2.1.3. Mounting the SDO4 SMART drive rail to the ceiling

Open the garage door, and gently rest the **SDO4 SMART** on top of the open door.



If your ladder is high enough, we recommend resting it on top of the ladder.

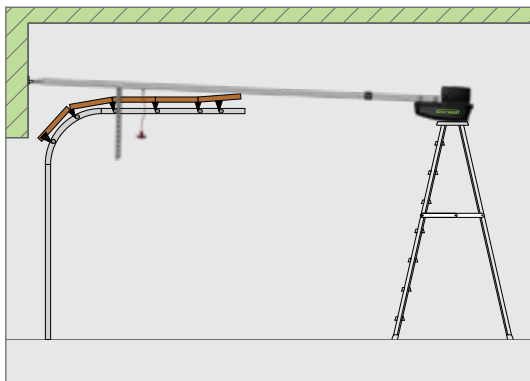


FIGURE 23

Find the centre line of the garage door, and mark it on the ceiling above the location of the drive rail hanger.



You can use the **SDO4 SMART** drive rail as a gauge to assist you if needed.

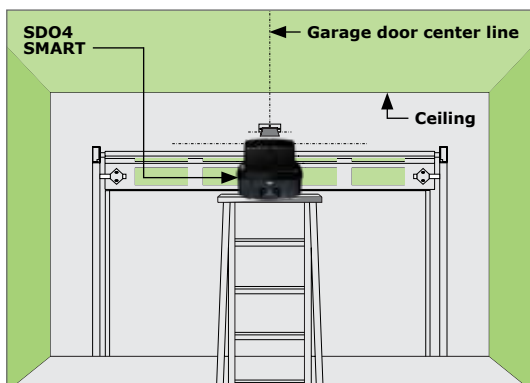


FIGURE 24

Use a long spirit level along the length of the **SDO4 SMART** drive rail, and level out the **SDO4 SMART**, so that it is running parallel to the ceiling.

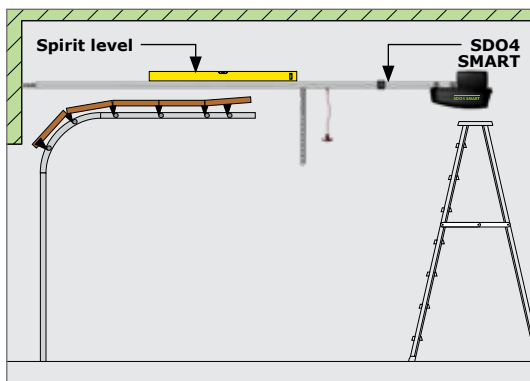


FIGURE 25

Place another spirit level perpendicular to the ceiling, and line it up with the center of the drive rail hanger bolt on the side of the drive rail hanger. Make a mark on the ceiling, and repeat this for the other side of the drive rail hanger.

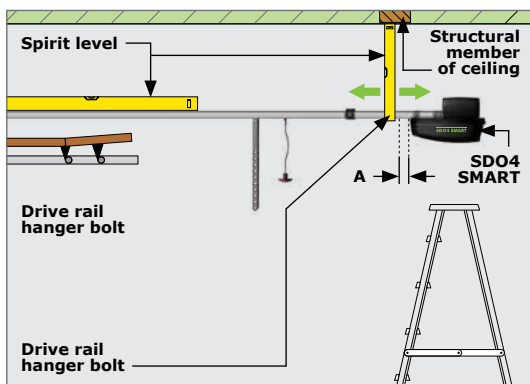


FIGURE 26

Ensure that the drive rail hanger bracket is positioned directly under a **strong** structural member of the ceiling. If it is not, move it along the drive rail to a suitable position before marking it off on the ceiling.

We recommend that the maximum cantilever distance between the hanger bracket and the front edge of the control unit should not exceed 300mm. (Marked as 'A' in Figure 26)

Draw a line on the ceiling joining these two marks, perpendicular to the garage door center line made earlier.

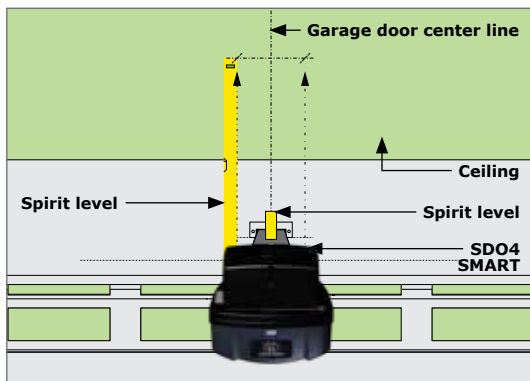


FIGURE 27

Measure and cut a 150mm length of punched angle iron with a pair of tin snips.



Snip off the four corners of the punched angle iron to add a degree of safety and neatness to the installation.

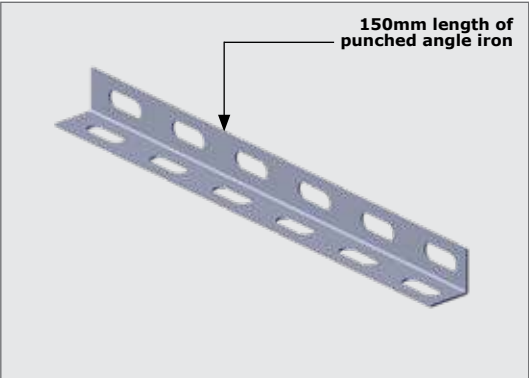


FIGURE 28

Align the punched angle iron centered onto the garage door centre line, and the perpendicular line running along the center of the horizontal face holes. The horizontal face must face the back of the garage. Secure the punched angle iron to the ceiling with suitable screws (depending on the structural member of the ceiling).



Ensure that the punched angle iron is mounted to a strong structural member in the ceiling.

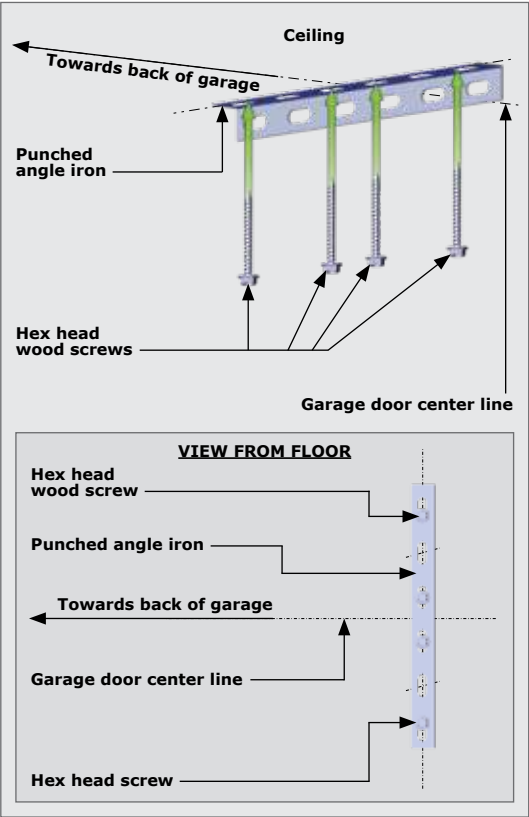


FIGURE 29

Level the **SDO4 SMART** again, and measure the length needed from the ceiling to the underside of the drive rail, marked as 'Value Xmm' in Figure 30.

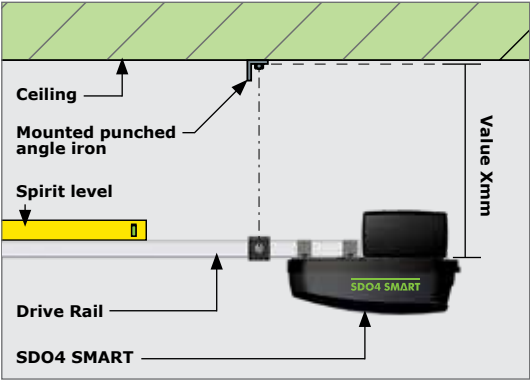


FIGURE 30

Using an angle grinder or hack saw, cut two lengths of punched angle iron to the measurement taken for 'Value Xmm'.



Snip off the four corners of the punched angle iron to add a degree of safety and neatness to the installation.

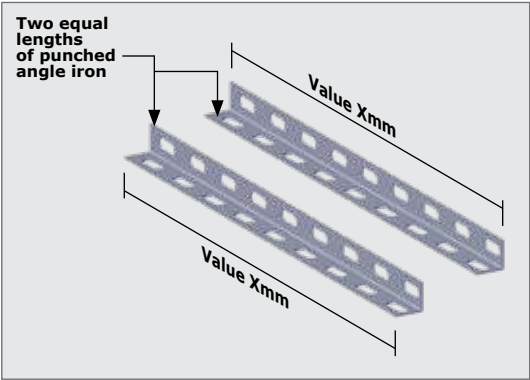


FIGURE 31

Remove the two drive rail hanger nuts from the bolts, and locate the two lengths of punched angle iron into position as shown in Figure 32. Secure them in position with the two drive rail hanger nuts.



Ensure that the punched angle iron does not protrude further than the SDO4 SMART drive rail base, as this will interfere with the operation of the motor!

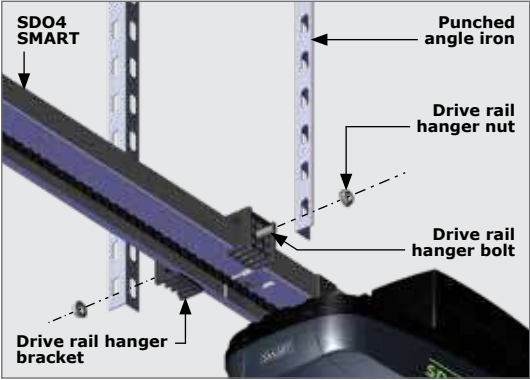


FIGURE 32

Use a spirit level to ensure that the **SDO4 SMART** is still level and parallel to the ceiling. Align the holes of the punched angle iron mounted to the ceiling, with the holes on the punched angle iron mounted to the drive rail hanger. Secure it into position using two supplied M8 flange bolts and nuts using a 13mm socket.

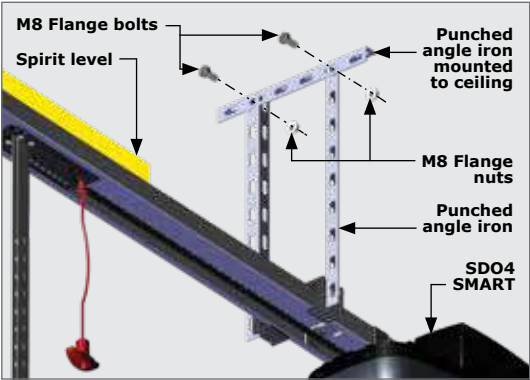


FIGURE 33



Using a spirit level, ensure that the **SDO4 SMART** is level on both the X-Axis and Z-Axis of the horizontal plain. If it is not, it may cause the motor to stress, or the drive rail to twist.

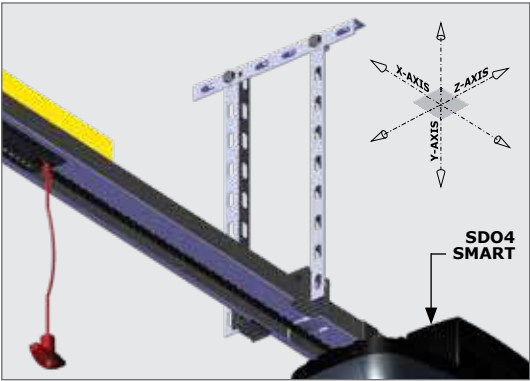


FIGURE 34

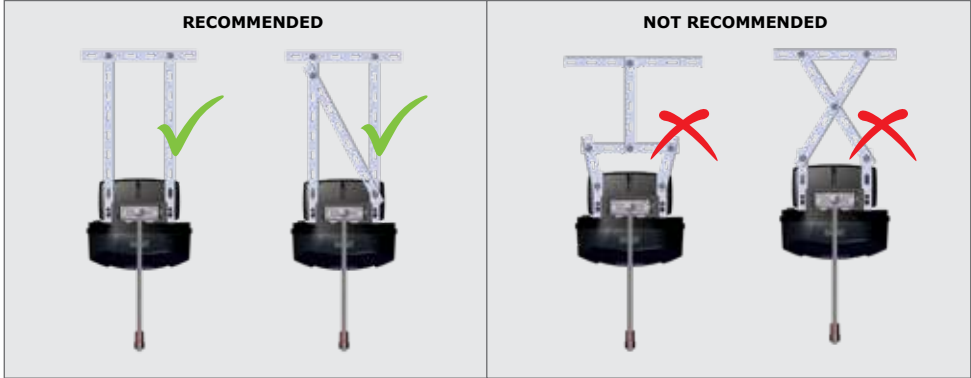


FIGURE 35. CORRECT AND INCORRECT MOUNTING CONFIGURATIONS

6.2.1.4. Mounting the towing bracket to the garage door.

Close the garage door, and find its center line. Make a level mark perpendicular to the garage door center line, and in line with the top edge of the top roller of the garage door.

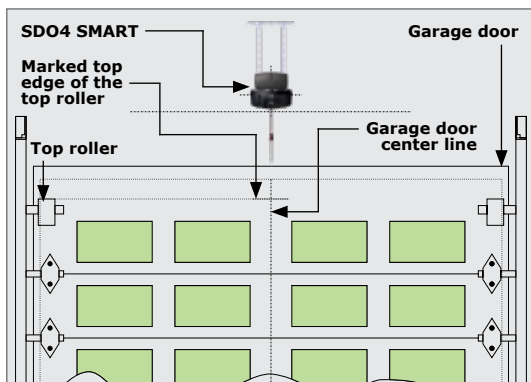


FIGURE 36

Center the towing bracket on the garage door center line and so that the center of the two holes on the protruding tabs are in line with the top edge of the top roller.



Place a small spirit level on the top edge of the towing bracket, to ensure that it is level when drilling holes.

Secure the towing bracket into position using the three hexagonal head self-tapping screws supplied.

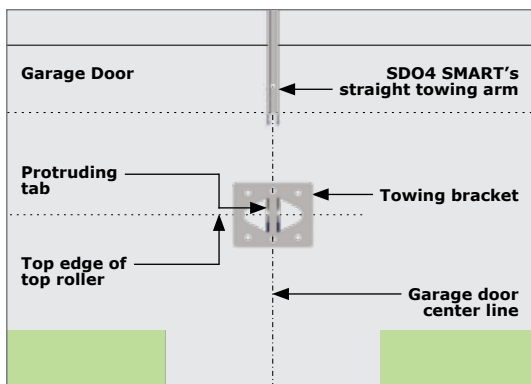


FIGURE 37



If the garage door is heavier than average, more screws can be used to fix the bracket to the garage door.



Ensure that the length of the screws do not exceed the depth of the garage door.



The above method is for the purpose of wooden garage doors. Should you have a garage door that is not constructed from wood, such as a steel garage door, we recommend the use of high-quality Tek screws to secure the towing bracket to the garage door.

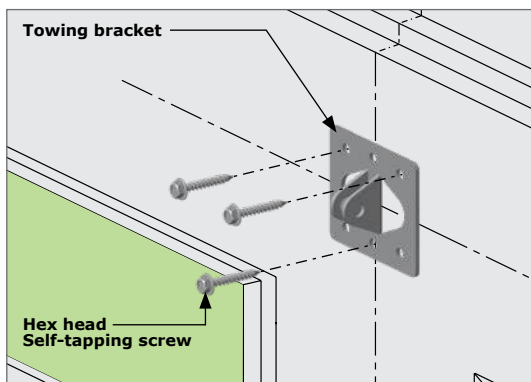


FIGURE 38

6.2.1.4. Fitting the bent towing arm to the towing bracket and straight towing arm.

Slot the bent towing arm between the two protruding tabs of the towing bracket, and align the holes. Note the orientation of the bent towing arm.

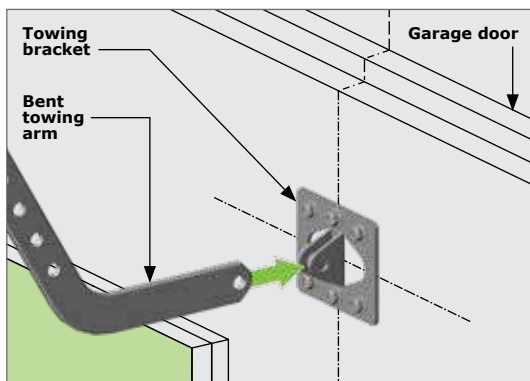


FIGURE 39

Locate the short clevis pin through the holes and secure it into position with a supplied E-Clip on the other end of the clevis pin.



Split Pins have also been supplied should they be preferred over the use of the circle pin clips.

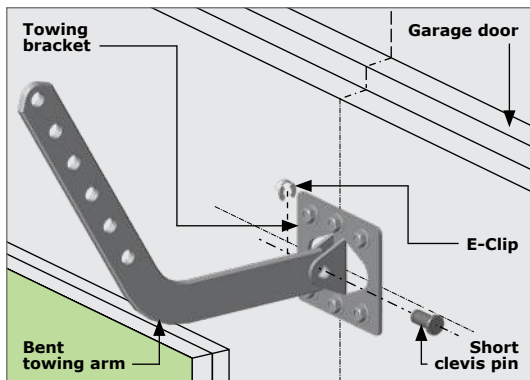


FIGURE 40

Slot the bent towing arm into the straight towing arm, and align the holes. If they do not align, move the carriage up or down the drive rail in order to align the holes of the bent and straight towing arms.



Ensure that the two towing arms overlap by at least two holes. This will ensure a strong join, and prevent the arm from swiveling whilst the motor is in operation.

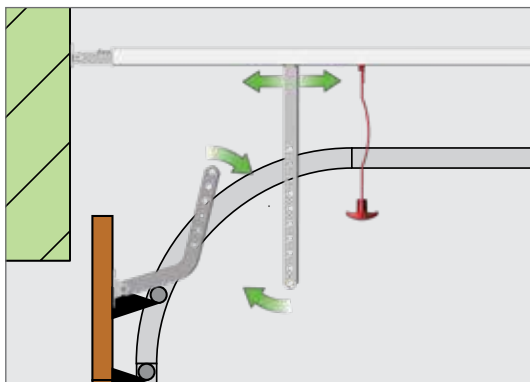


FIGURE 41

The two towing arms must be joined in such a way that they are just short of parallel to the garage door and the ceiling. Angle 'Z' should be $\pm 80^\circ$ when the garage door is in the closed position, as shown in Figure 42. This will put less strain on the motor on start-up and, furthermore, aid in preventing the garage door from being forced open by hand.

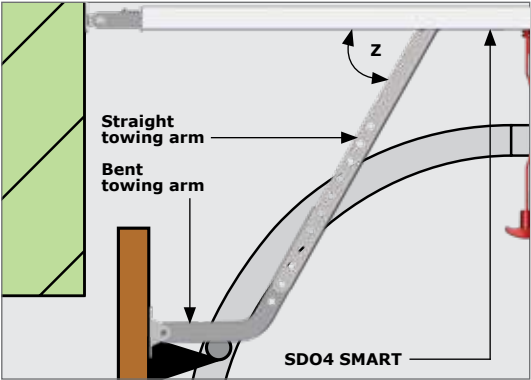


FIGURE 42

Once aligned, secure the towing arms into position using the two supplied hexagonal head flange nuts and bolts: one set through the bottom hole of the straight towing arm, and the other through the top hole of the bent towing arm.

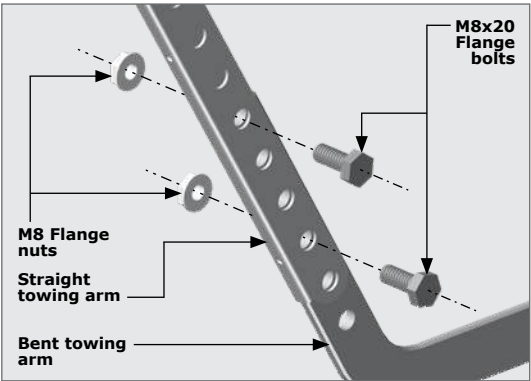


FIGURE 43

Please do not forget to affix the safety sticker and tag.

The **SDO4 SMART** is now installed and ready for programming.

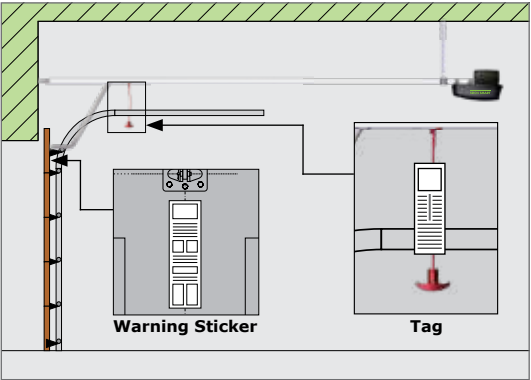


FIGURE 44

6.2.2. Tip up doors



Before commencing the installation, ensure that you have carefully read and understood all safety recommendations. In particular, ensure that the installation of the garage door complies with the requirements specified. Make any necessary adjustments to the garage door BEFORE commencing the installation!



Important considerations to note before commencing installation

- The opening heights are **2135mm** for standard doors
- The structure is level, square and plumb

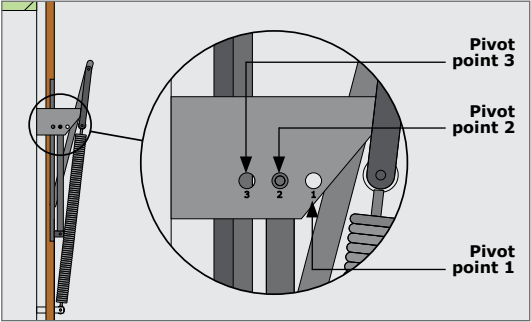


FIGURE 45

- Pivot position No. 1 or 2 (140mm or more head room) is recommended for automation. If insufficient headroom is available, contact an approved garage door installer to assist with possible modifications

Door traveling path

The travel path of a garage door is determined by the path that the top section of the garage door takes as the door is being opened or closed.

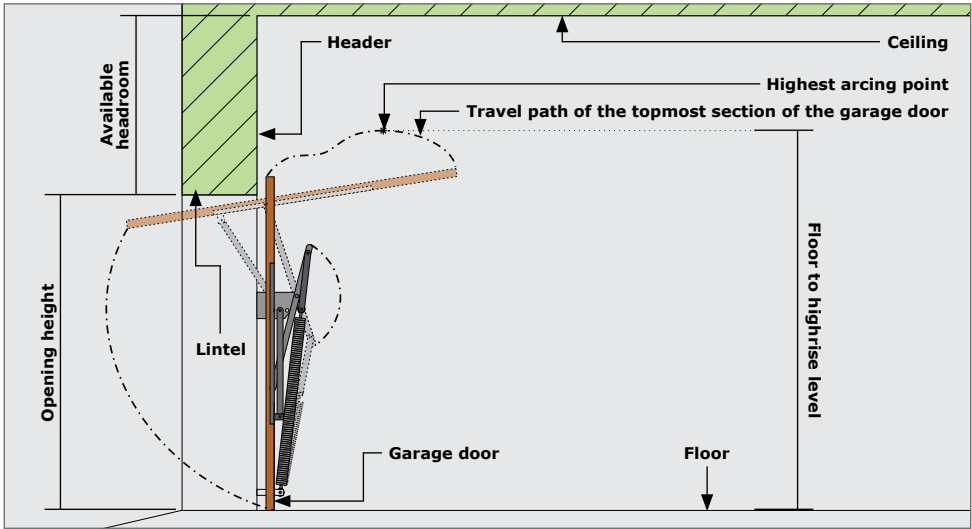


FIGURE 46

6.2.2.1. Mounting the header bracket



The header bracket carries **ALL** of the opening and closing thrust of the SDO4 SMART and as such must be securely fastened to a rigid, structural member of the garage. It is entirely up to the installer to determine the fixing method and the structural suitability of the fixing points.



When marking important lines needed for mounting the header bracket, ensure that a spirit level is used, as it is imperative that these lines are as level and straight as possible.

Determine the highest arcing point of the garage door and mark this as a horizontal line on the header above the top edge of the garage door.

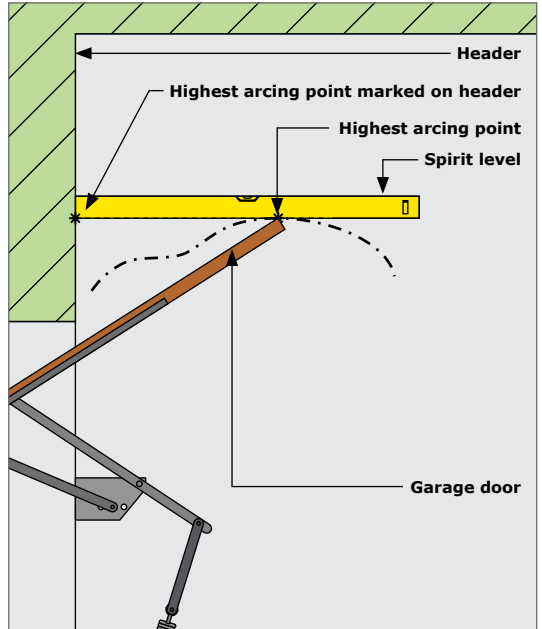


FIGURE 47

Close the garage door, and determine the garage door center line and mark a vertical line on the header above the door.

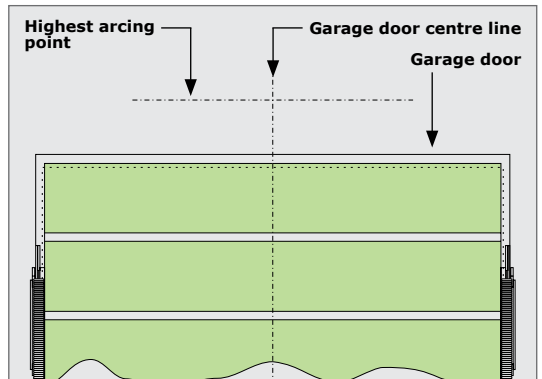


FIGURE 48

Place the header bracket on the wall as shown in Figure 49. Ensure that the **bottom edge** of the bracket is level, and between 20mm - 50mm, but **no more than 50mm above** the highest arcing point of the garage door. Mark the location of the three screw holes (Hole A, B, C and D[optional]).



Note the orientation of the header bracket.



Mounting the drive rail more than 50mm above the highest arcing point of the garage door may cause the drive rail to flex excessively.

Drill four 11mm diameter holes in position of 'Hole A', 'Hole B', 'Hole C' and 'Hole D'(optional), at least 50mm deep.

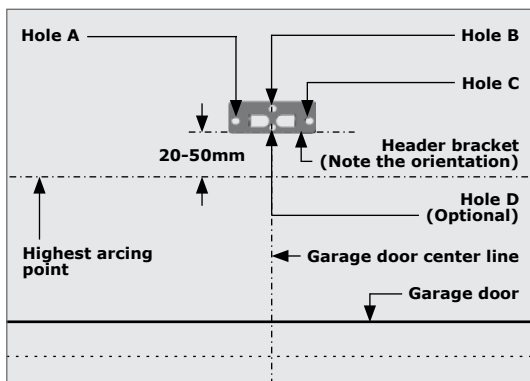


FIGURE 49

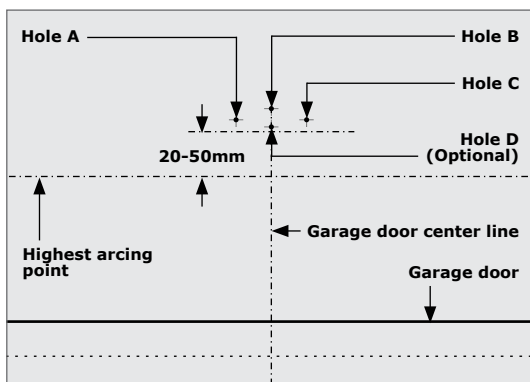


FIGURE 50

Place a fischer plug in each hole, followed by the header bracket. Secure it in position with at least three coach screws (supplied) (13mm hexagonal head).

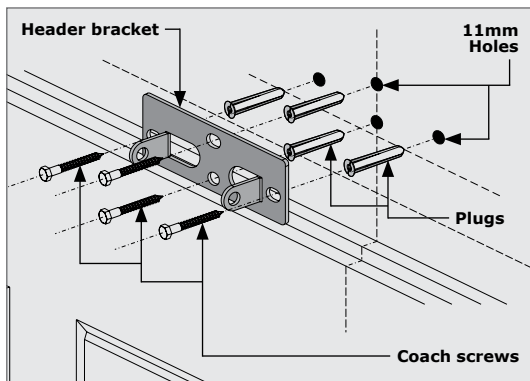


FIGURE 51



If, after securing the header bracket, it is slightly out (not level), use a hammer to knock the tabs gently up or down with a small spirit level placed on top of them. This will ensure a perfectly level installation.

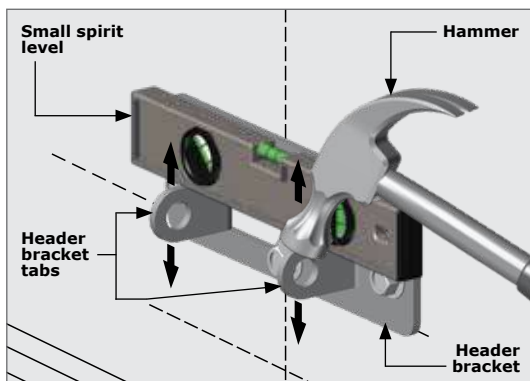


FIGURE 52

6.2.2.2. Mounting the SDO4 SMART to the header bracket



It is important at this point of the installation to ensure that the batteries are connected before continuing with the installation.

Position the **SDO4 SMART** in place, with the open end of the drive rail facing the floor, and the tensioning bracket towards the garage door. You will need a second person to assist you with this.

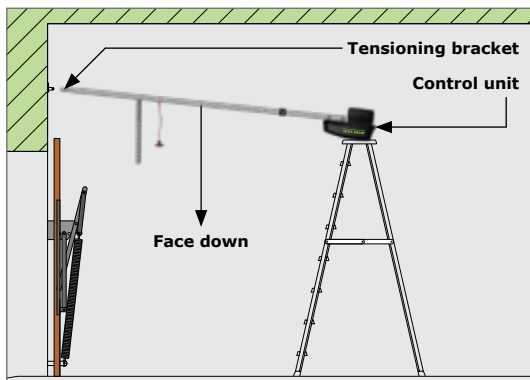


FIGURE 53

If you are on your own, use a ladder to support the control unit end of the **SDO4 SMART** while you are positioning it for the next step (Figure 53).

Align the holes on the side of the tensioning bracket with the holes of the header bracket.

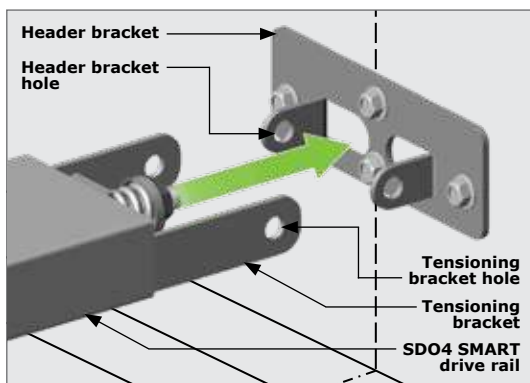


FIGURE 54

Locate the long clevis pin through the holes and secure it into position with a supplied E-Clip on the other end of the clevis pin.



Split Pins have also been supplied should they be preferred over the use of the circle pin clips.

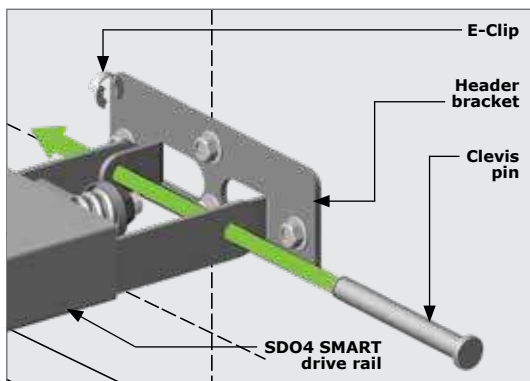


FIGURE 55

6.2.2.3. Mounting the SDO4 SMART drive rail to the ceiling

Open the garage door, and gently rest the **SDO4 SMART** on top of the open door.



If your ladder is high enough, we recommend resting it on top of the ladder.

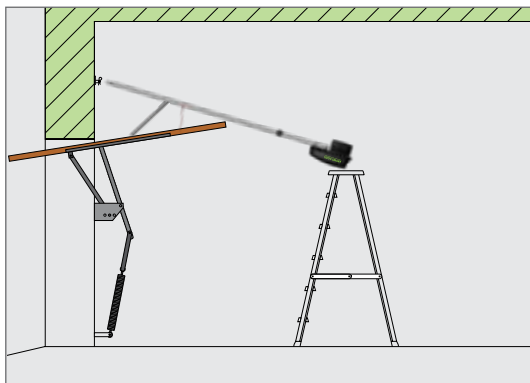


FIGURE 56

Find the center line of the garage door, and mark it on the ceiling above the location of the drive rail hanger.



You can use the **SDO4 SMART** drive rail as a gauge to assist you if necessary.

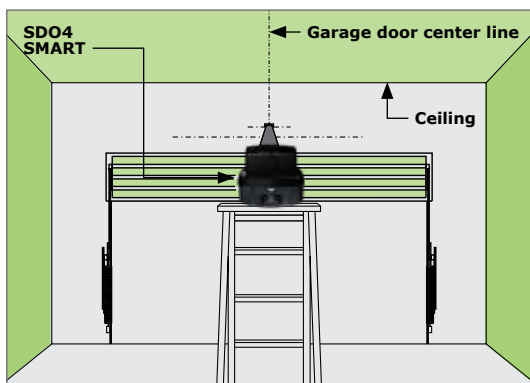


FIGURE 57

Lift the **SDO4 SMART** to a point where the control unit (Point B) is in line with the top of the open garage door (Point A).

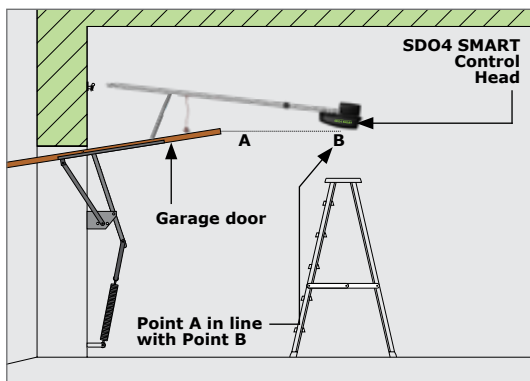


FIGURE 58

Keeping the control unit in line with the top of the garage door, place a spirit level perpendicular to the ceiling, and line it up with the center of the drive rail hanger bolt on the side of the drive rail hanger. Make a mark on the ceiling, and repeat this for the other side of the drive rail hanger.

Ensure that the drive rail hanger bracket is positioned directly under a **strong** structural member of the ceiling. If it is not, move it along the drive rail to a suitable position before marking it off on the ceiling.

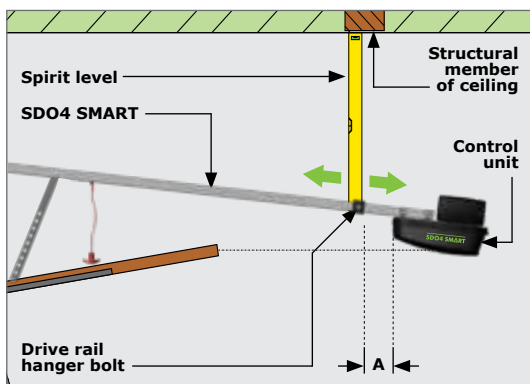


FIGURE 59

We recommend that the maximum cantilever distance between the hanger bracket and the front edge of the control unit does not exceed 300mm. (Marked as 'A' in Figure 59)

Draw a line on the ceiling joining these two marks, perpendicular to the garage door center line made earlier.

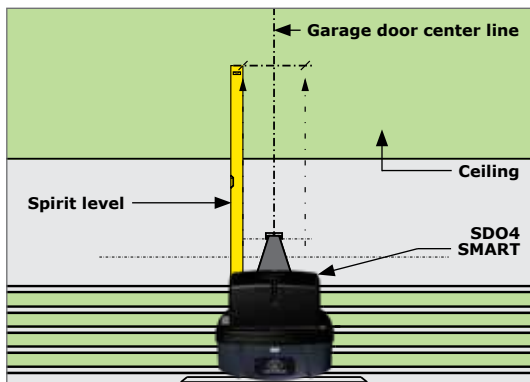


FIGURE 60

Measure and cut a 150mm length of punched angle iron with a pair of tin snips.



Snip off the four corners of the punched angle iron to add a degree of safety and neatness to the installation.

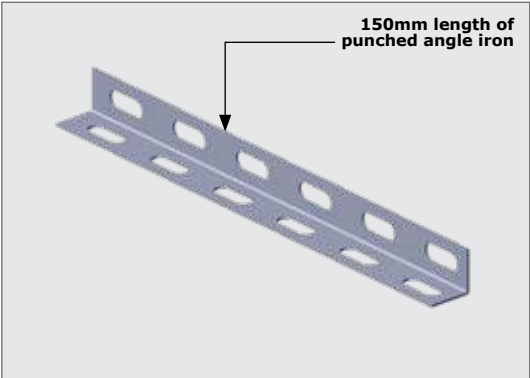


FIGURE 61

Align the punched angle iron centered onto the garage door center line, and the perpendicular line running along the centre of the horizontal face holes. The horizontal face must face the back of the garage. Secure the punched angle iron to the ceiling with suitable screws (depending on the structural member of the ceiling).



Ensure that the punched angle iron is mounted to a strong structural member in the ceiling.

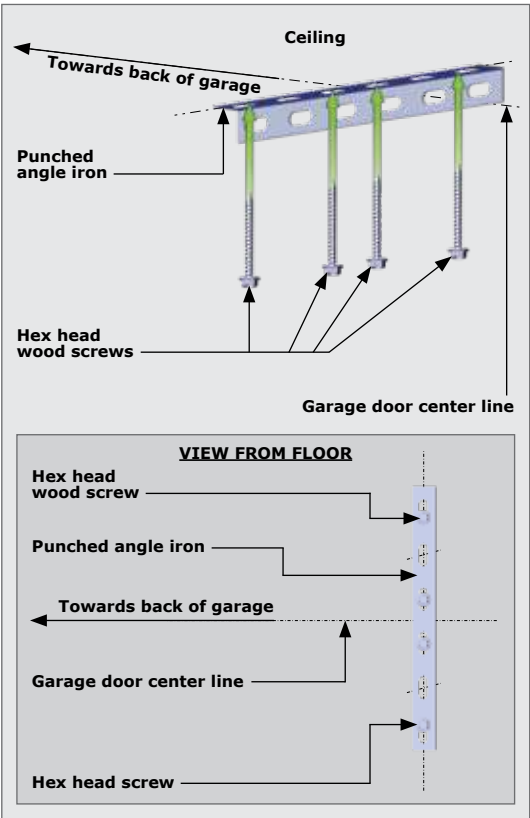


FIGURE 62

Position the **SDO4 SMART** again, as shown in Figure 58, and measure the length needed from the ceiling to the underside of the drive rail, marked as 'Value Xmm' in Figure 63.

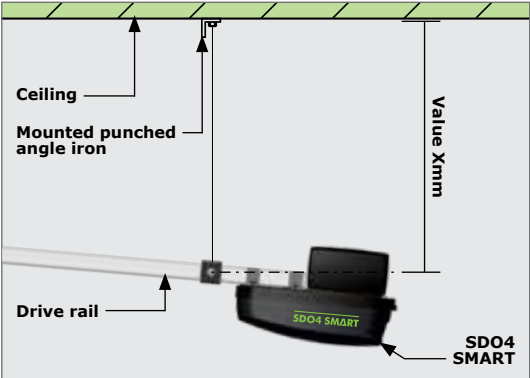


FIGURE 63

Using an angle grinder or hack saw, cut two lengths of punched angle iron to the measurement taken for 'Value Xmm'.



Snip off the four corners of the punched angle iron to add a degree of safety and neatness to the installation.

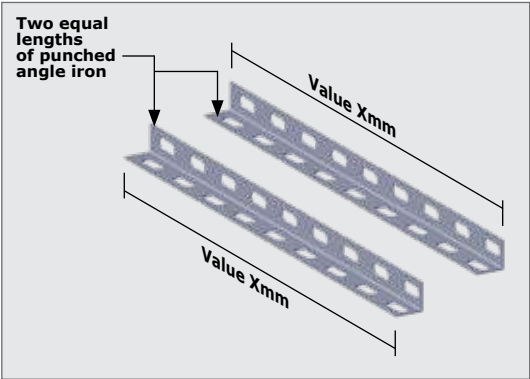


FIGURE 64

Remove the two drive rail hanger nuts from the gutter bolts, and locate the two lengths of punched angle iron into position as shown in Figure 65. Secure them in position with the two drive rail hanger nuts.

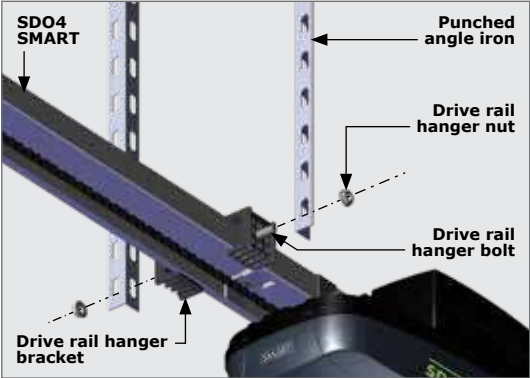


FIGURE 65

Align the holes of the punched angle iron mounted to the ceiling, with the holes on the punched angle iron mounted to the drive rail hanger. Secure it into position using two supplied M8 flange bolts and nuts with a 13mm socket.



Ensure that the **SDO4 SMART** control unit is in line with the top edge of the open garage door before tightening the bolts in their final position.

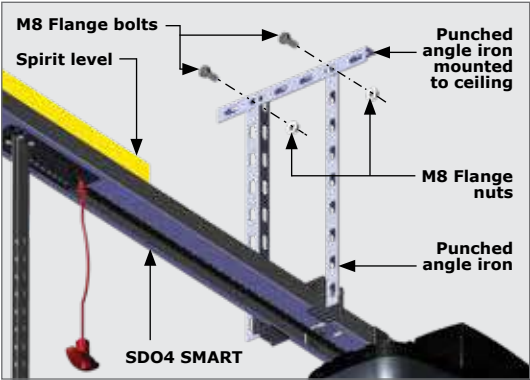


FIGURE 66

Correct and incorrect configurations for mounting the **SDO4 SMART** to the ceiling.

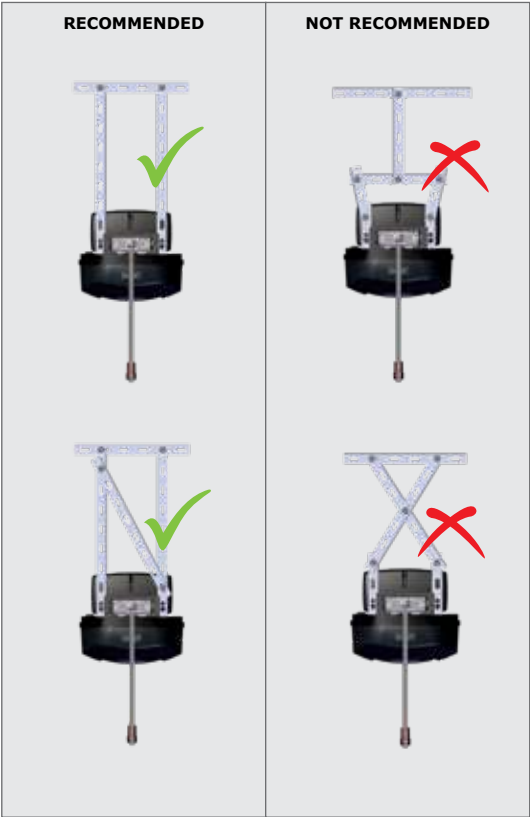


FIGURE 67

6.2.2.4. Mounting the towing bracket to the garage door

Close the garage door, and find its center line.

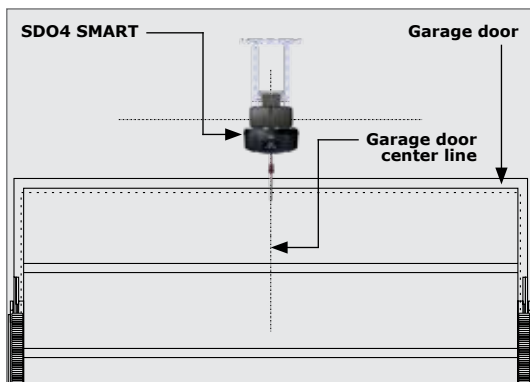


FIGURE 68

Center the towing bracket on the garage door center line and so that the top edge of the towing bracket is as close to the top edge of the garage door as possible.



Place a small spirit level on the top edge of the towing bracket, to ensure that it is level when drilling holes.

Secure the towing bracket into position using the three hexagonal head self-tapping screws supplied.

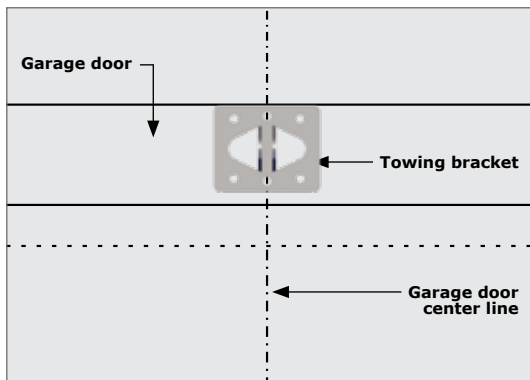


FIGURE 69



If the garage door is heavier than average, more screws can be used to fix the bracket to the garage door.



Ensure that the length of the screws does not exceed the depth of the garage door.



The above method is for the purpose of wooden garage doors. Should you have a garage door that is not constructed from wood, such as a steel garage door, we recommend the use of high-quality Tek screws to secure the towing bracket to the garage door.

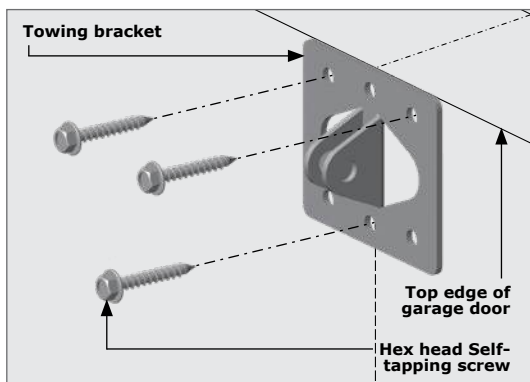


FIGURE 70

6.2.2.5. Fitting the bent towing arm to the towing bracket and straight towing arm

Slot the bent towing arm between the two protruding tabs of the towing bracket, and align the holes. Note the orientation of the bent towing arm.

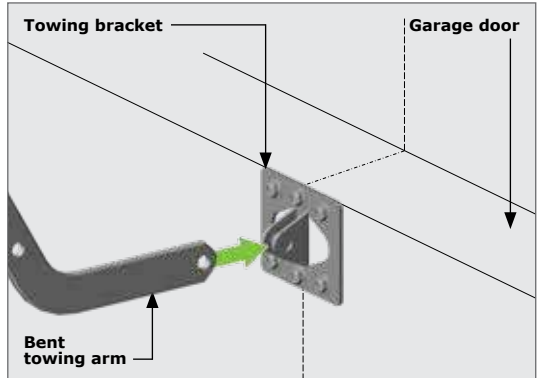


FIGURE 71

Locate the short clevis pin through the holes and secure it into position with a supplied E-Clip on the other end of the clevis pin.



Split Pins have also been supplied should they be preferred over the use of the circle pin clips.

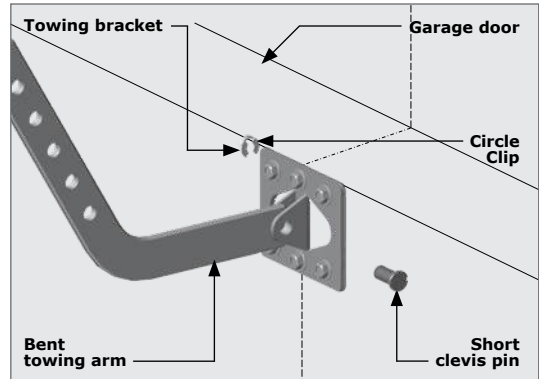


FIGURE 72

Slot the bent towing arm into the straight towing arm, and align the holes. If they do not align, move the carriage up or down the drive rail in order to align the holes of the bent and straight towing arms.



Ensure that the two towing arms overlap by at least two holes. This will ensure a strong join, and prevent the arm from swiveling whilst the motor is in operation.

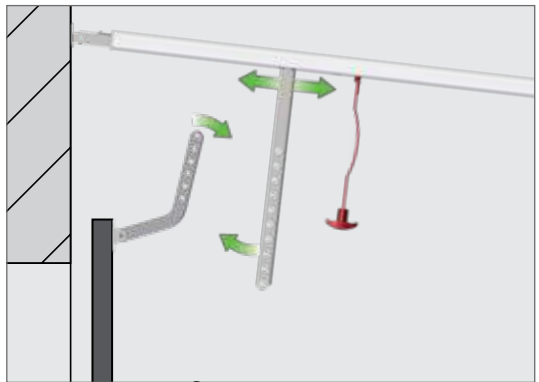


FIGURE 73

The two towing arms must be joined in such a way that they are just short of parallel to the garage door and the ceiling.

Angle 'Z' should be $\pm 80^\circ$ when the garage door is in the closed position, as shown in Figure 74. This will put less strain on the motor on start-up and, furthermore, aid in preventing the garage door from being forced open by hand.

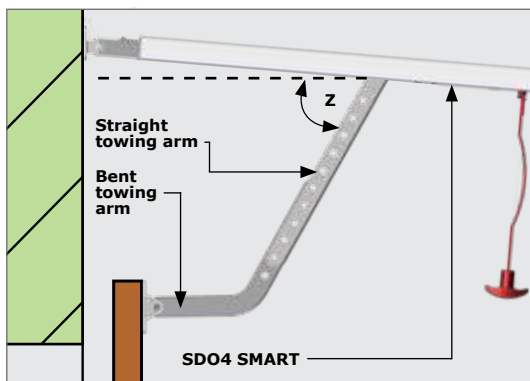


FIGURE 74

Once aligned, secure them into position using two supplied hexagonal head flange nuts and bolts: one set through the bottom hole of the straight towing arm, and the other through the top hole of the bent towing arm.

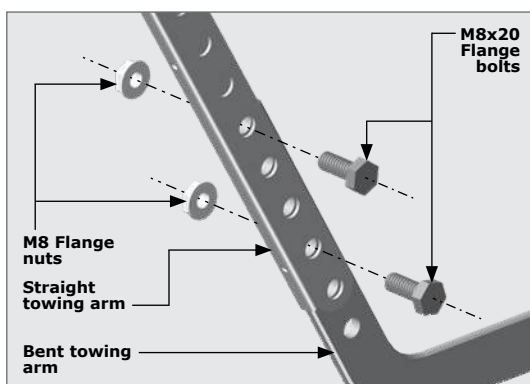


FIGURE 75

Please do not forget to affix the safety sticker and tag.

The **SDO4 SMART** is now installed and ready for programming.

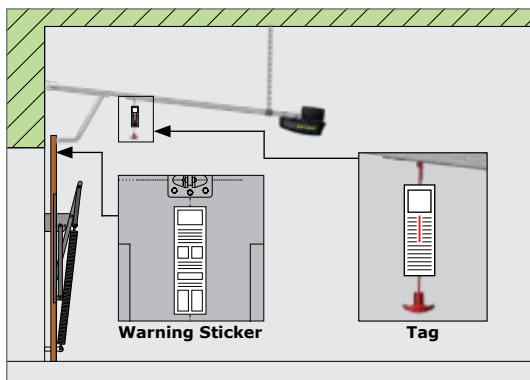


FIGURE 76

6.3. Engaging and Disengaging the Motor

Functionality

- TO DISENGAGE - pull down on the release handle until you hear a 'click'
- TO ENGAGE - Pull the release handle back towards the control head until you hear a 'click', and move the carriage until it engages with the belt bullet (Figure 76)
- **Never attempt to open or close the garage door by pulling on the release handle. Doing so may result in SERIOUS PERSONAL INJURY and / or PROPERTY DAMAGE**
- **Always disengage the SDO4 SMART with the garage door in the fully-closed position**
- **If attempting to disengage the SDO4 SMART from any position other than with the garage door fully-closed, ensure that there are no persons and / or property near or directly under the path of the door**

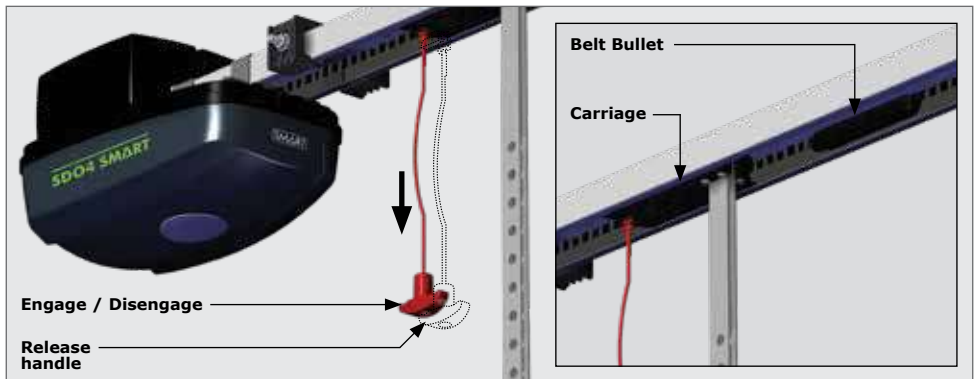


FIGURE 77

6.4. Emergency Lock Functionality

In the event of a system malfunction with the door in any position other than fully-closed, the **SDO4 SMART** offers an emergency lock system that can be used to secure the door in the fully-closed position.

In order to close and lock the door in the fully-closed position, the user will need to disengage the operator using the manual release feature (see Section 6.3.).



If attempting to disengage the SDO4 SMART from any position other than with the garage door fully-closed, ensure that there are no persons, pets and / or property near or directly under the path of the door.

1. Lower the door slightly by hand and re-engage the operator by pulling the manual release handle back towards the control head until you hear a 'click'.
2. Lower the door to the fully-closed position.
3. Test that the door has locked in place by attempting to lift it by hand.
4. Once the system malfunction has been rectified, the system can be returned to automatic operation by disengaging the operator using the manual release feature (see Section 6.3.).

5. Open the door slightly by hand and re-engage the operator by pulling the manual release handle back towards the control head until you hear a 'click'.
6. Raise the door slowly to the fully-open position until it engages with the bullet. A click will be heard as it engages.
7. The door is now ready for normal operation.

6.5. Positioning the Opening and Closing End-stops

The drive rail-mounted end-stops provide a one-to-one ratio between end-stop movement and garage door movement, thereby ensuring 100% accuracy and ease of adjustment. Fully-open and fully-closed positions of the garage door can be easily adjusted by moving the end-stops to the desired location in order to increase or decrease garage door travel.



Tighten the grub screws into position so that the flat-face of the screw butts firmly against the surface of the endstop. Note that the screws will indent the top of the rail.



If grub screws are not securely tightened, the end-stops will fail during setup.

6.5.1. Positioning the closing end-stop

- Ensure that the motor is disengaged
- Close the garage door fully
- Locate the closing end-stop within the drive rail - nearest to the front wall of the garage
- Position the end-stop 10mm away from the carriage, then tighten the two grub screws

6.5.2. Positioning the opening end-stop

- Ensure that the motor is disengaged
- Open the garage door fully
- Locate the opening end-stop within the drive rail - nearest to the back wall of the garage
- Position the end-stop 10mm away from the carriage, then tighten the two grub screws
- Re-engage the motor

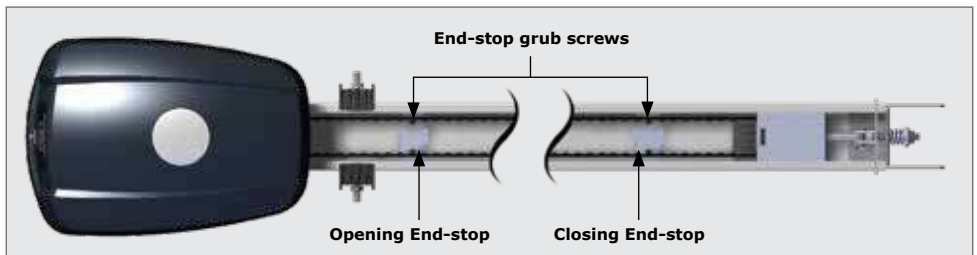


FIGURE 78



The closing and opening end-stops work on a one-to-one ratio with the garage door, meaning that, if the limit prong is moved by 10mm, then the garage door will also move by 10mm.

6.6. The Wireless Wall Switch

The Wireless Wall Switch provided with the **SDO4 SMART** kit (T12 Model only) provides ease of installation, obviating the need for running hard wires to the switch. It can be mounted in a convenient location such as adjacent to a side entry door into the garage. The four buttons provided on the Wireless Wall Switch are for independently operating from one Wireless Wall Switch, the two openers of a double garage door installation. The buttons can be used for activating the various functions provided by the system.

Each individual button of the Wireless Wall Switch has been marked with a number, from one to four, to help the user identify which function each button operates. The buttons can be learned in any configuration.



The Wireless Wall Switch must be mounted within sight of the garage door and a reasonable distance away from moving parts. It should be mounted at least 1500mm above the ground and the entrapment warning label provided, must be attached adjacent to the switch.

Mounting

- The switch can be permanently screwed to the wall through the mounting holes provided or, alternatively, 'hooked' on the wall, providing the convenience of easy demount ability, through the 'hook' holes provided on the base cover
- To permanently mount the unit, open it, and place the back panel of the unit in the desired position on the wall



Take care not to damage the electronics when opening and handling the unit.

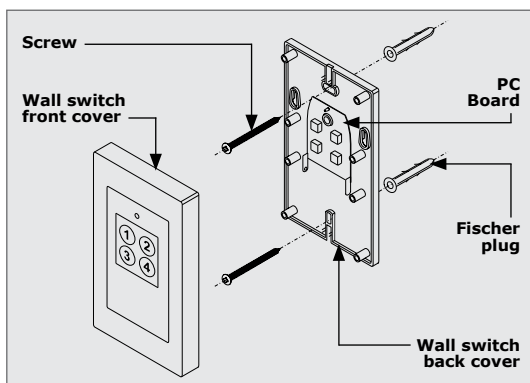


FIGURE 79

- Place a small spirit level on the top of the back panel to ensure that the unit will be level once mounted. Using a marking pen, mark the drill holes on the wall
- Drill two 6mm holes
- Locate two fischer plugs into the holes
- Align the back panel holes with the holes in the wall, and secure it into position using two screws
- Insert the battery, and replace the front cover
- The Wireless Wall Switch may be learned into the **SDO4 SMART**'s memory via the MyCentsys Pro mobile application under "Remotes" at the bottom of the screen.

6.7. Safety Beams

- The Photon or other four-wire safety beams may be connected to the **SDO4 SMART**
- The installation of safety beams greatly enhances safety by constantly monitoring for persons or objects which may pass within the path of the moving garage door
- The **SDO4 SMART** will safely reverse if the safety beams become momentarily or permanently interrupted during a closing cycle
- A pair of Photon SMART infrared beams can be added to the SDO4 installation without running any wires, making it an easy and cost-effective solution that offers maximum safety

6.7.1. Four-wire safety beams

6.7.1.1. Mounting

1. Mark the inside garage door framing so that the bottom edge of the beam sits 125mm off the floor.
2. Using a small angle bracket, fasten each beam to the wall so that they face each other across the garage door (Refer to installation instructions for further information).

6.7.1.2. Connection

Follow the safety beam instructions and connect to the output terminals. Use the normally-closed contacts of the beam to connect to input 'SB' on the **SDO4 SMART**. Refer to Section 7 - "Electrical setup of accessories".



The **SDO4 SMART** provides a 24V DC output and normally-closed input for safety beams.



For aligning and testing the safety beams, please refer to the installation manual supplied with the respective safety beams used.

6.8. Connecting to a Power Supply

- Plug the **SDO4 SMART** into a properly-earthed 220 to 240V AC power outlet
- Ensure that no excess power cord hangs below the control box

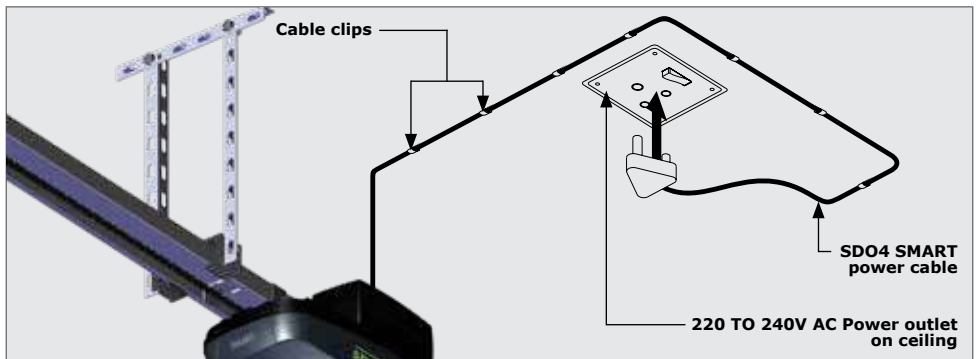


FIGURE 80

6.9. Configuring the SDO4 SMART without AC Mains (Batteries only)



Please ensure to connect the battery harness (two blue connectors) in the battery box, before continuing.

Please note that this version of the **SDO4 SMART** garage door operator allows you to power up the unit without mains voltage being present. The MyCentsys Pro mobile application can also be used to enable Sleep Mode during prolonged power outages.



The battery voltage must be within the required limits to allow the **SDO4 SMART** to be powered up. Refer to technical specifications.

To power up/activate the unit, please follow the steps below using the Courtesy Light Switch:

1. Press and hold the Courtesy light for 3-5 seconds, and release (Light will flash three times)
2. Set up limits and configurations using the MyCentsys Pro Mobile Application
3. Place the unit back into "Sleep Mode" to conserve battery life using MyCentsys Pro Mobile Application



The **SDO4 SMART** will automatically power up once mains has been restored.



This function is only available with PCB V1.3, and Firmware V1.10.1.0 or later.

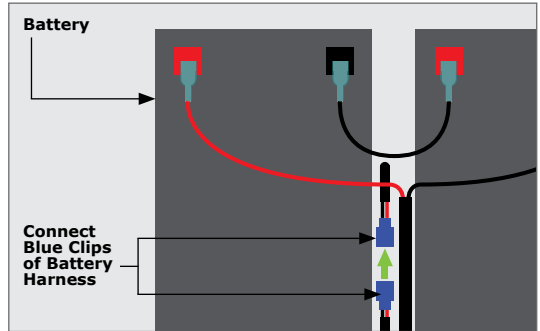


FIGURE 81

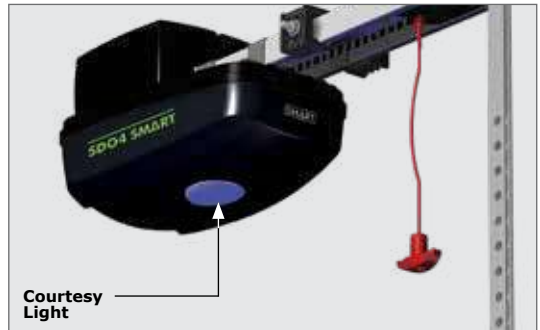


FIGURE 82

7. Electrical Setup of Accessories

- Two out (Power) and two in (Trigger and Safety beams) terminals are provided to support the connection of the most common external accessories
- The terminals can be accessed by removing the screw (Item 16) below the battery housing (Item 15), and hinging down the Control Head cover. Refer back to Section 3 - "Product Identification"
- The **SDO4 SMART** supports the Photon SMART infrared gate safety beams, which are completely wireless safety ancillaries. Photon SMART beams can also be added to another set of safety beams (wired or wireless) to add further functionality, safety and peace of mind to the automated setup. The Photon SMART also delivers a much neater and unobtrusive safety system as there is no need for unsightly mechanical safety devices hanging from the ceiling of the garage

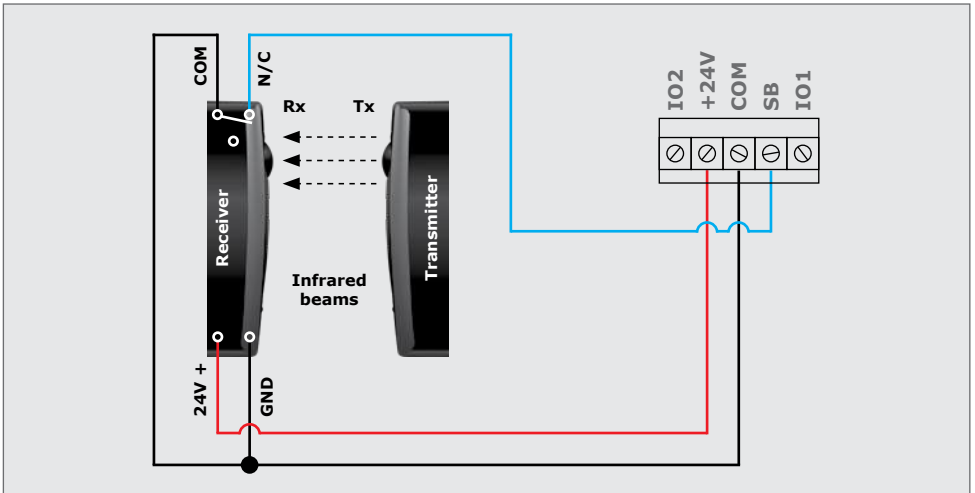


FIGURE 83. WIRING PHOTON SAFETY BEAMS TO THE SDO4 SMART (FOUR-WIRE)

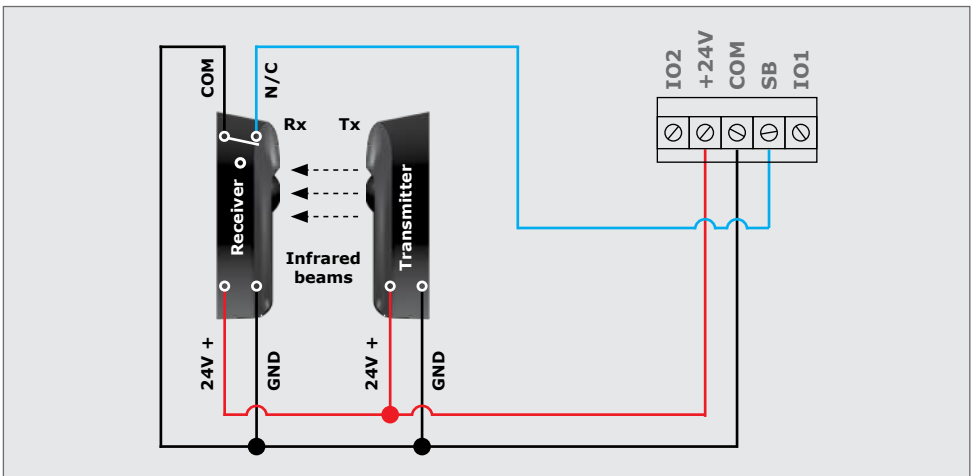


FIGURE 84. WIRING I5 SAFETY BEAMS TO THE SDO4 SMART (FOUR-WIRE)

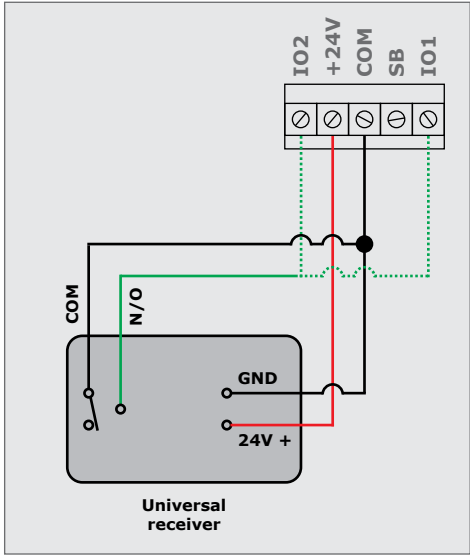


FIGURE 85. WIRING A UNIVERSAL RECEIVER TO THE SDO4 SMART

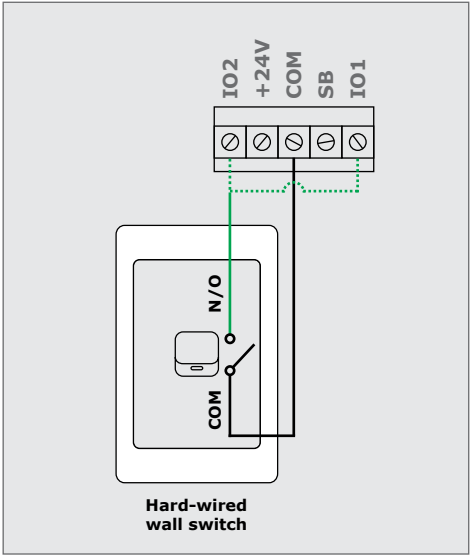


FIGURE 86. HARD-WIRING A WALL SWITCH TO THE SDO4 SMART



- The trigger/TRG (green wire) in Figures 84, 85 and 86 can be either wired into IO1 or IO2, depending on the sites individual needs
- IO1 and IO2 can be configured using the MyCentsys Pro mobile application
- IO1 is configured as trigger/TRG by default

Two WiZo-Link wireless modules may be connected to the system for a signal to be wirelessly relayed to a third party alarm in the event that the anti-tamper input is triggered.

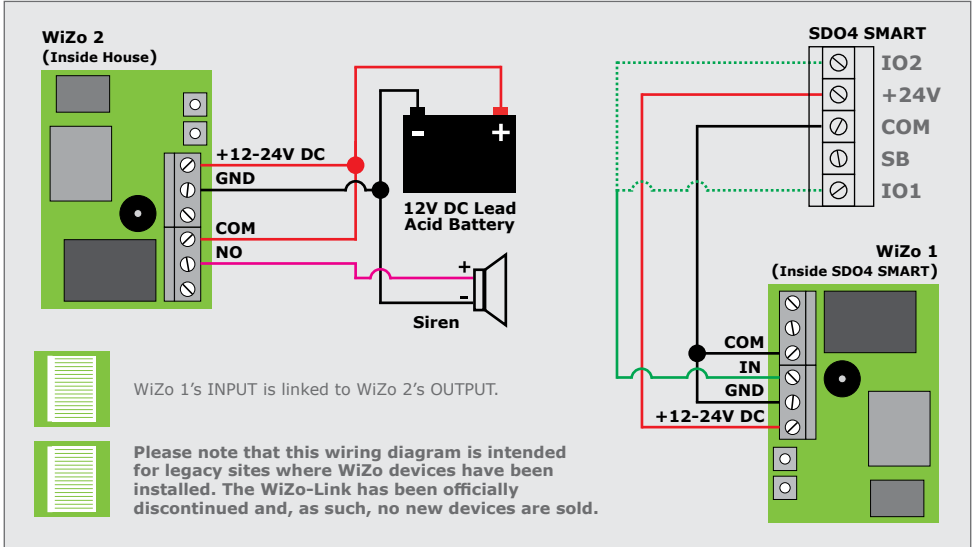


FIGURE 87. ANTI-TAMPER ALARM WIRING WITH TWO WIZOS

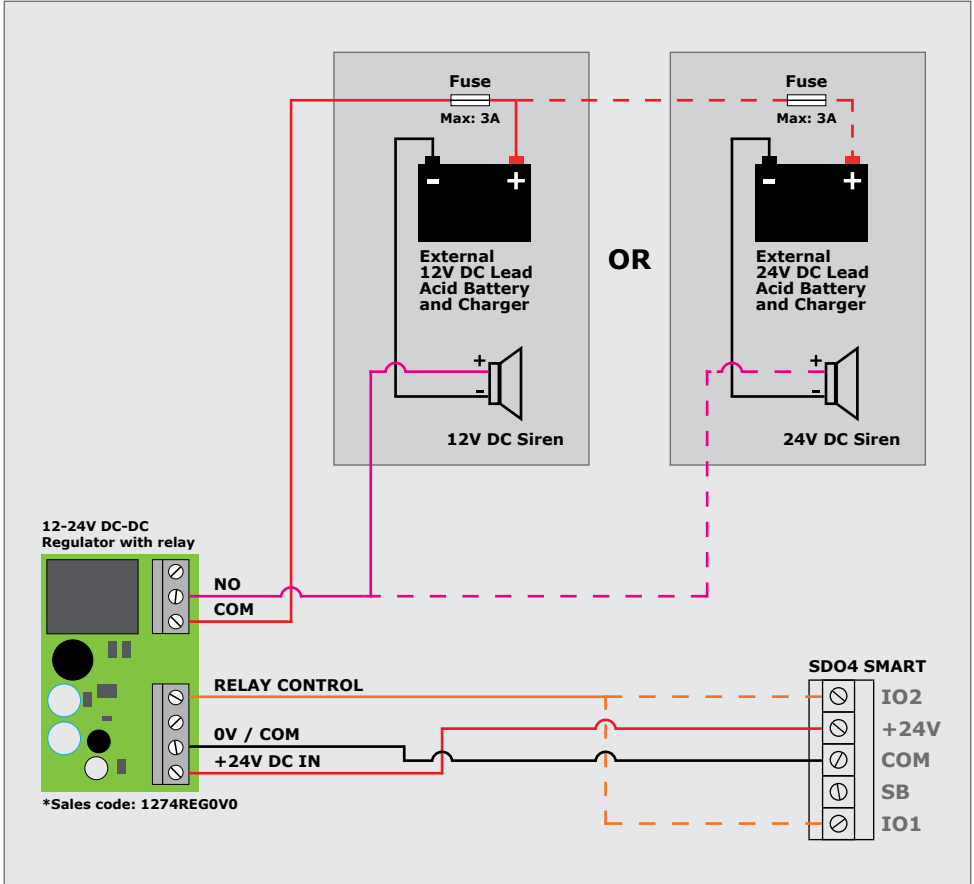


FIGURE 88. ANTI-TAMPER ALARM WIRING WITH SIREN

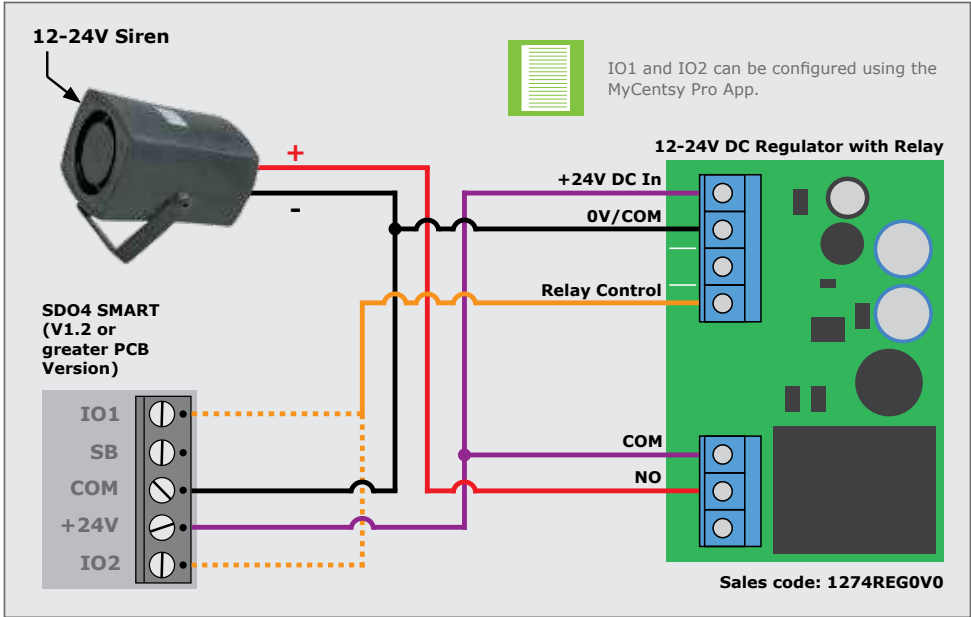


FIGURE 89. 12V SIREN

8. Commissioning the System

1. Scan the QR Code in Figure 90.
2. Select the App Store applicable to the operating system being used, either Apple iStore or Android Google Play Store.
3. Download and install the application.

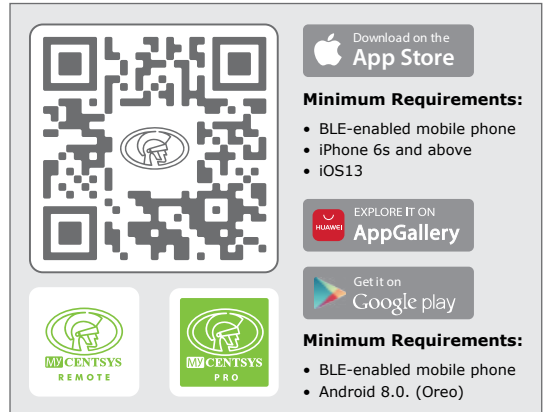


FIGURE 90

Alternatively, go directly to the app store of the operating system being used, and search for the app "**MyCentsys Pro**". Download and install the application onto the smartphone.

1. Once installed, open the application.
2. From the list of operators, select the operator that is applicable to this installation.
3. Connect to the relevant operator.
4. Use the app by following the prompts to configure the **SD04 SMART**.

8.1. MyCentsys Remote Application

Introducing an intuitive and user-friendly commanding hub for all SMART and ULTRA devices. MyCentsys Remote puts the ultimate in control and flexibility at your fingertips, delivering an all-in-one, fully-customisable experience for your compatible access automation solutions. Download MyCentsys Remote free by scanning the QR code.

1. Scan the QR Code in Figure 89.
2. Select the App Store applicable to the operating system being used, either Apple App Store, Android Google Play Store or the Huawei App Gallery.
3. Download and install the application.

Alternatively, go directly to the app store of the operating system being used, and search for the app "**MyCentsys Remote**". Download and install the application onto the smartphone.

1. Once installed, launch the application.
2. Register with the relevant details.
3. Select the "+ SMART".
4. From the list of operators, select the operator that is applicable to this installation.
5. Wait for the device added message after tapping on the selected operator.
6. Select the operator on the home screen to view all available triggers and device status.

9. Product Ancillaries



SMARTGUARD or SMARTGUARDair Keypad

Cost-effective and versatile wired and wireless keypad, allowing access to users with a customised code



Photon SMART Safety Beams

Fully-wireless infrared beams. Always recommended on any SMART automated installation



Wireless Wall Switch

The four-button Wireless Wall Switch can operate the door, turn on the light and activate Holiday Lockout all without running any unsightly wires (Only included with T12 model)



12V-24V SMART Siren

The ultimate security companion, designed to seamlessly integrate with your existing SMART gate and garage door operators

10. Installation Handover

Once the installation has been successfully completed and tested, it is important for the installer to explain the operation and safety requirements of the system.

NEVER ASSUME THE USER KNOWS HOW TO SAFELY OPERATE THE SDO4 SMART.

Neither Centurion Systems (Pty) Ltd, nor its subsidiaries, accepts any liability caused by improper use of the product, or for use other than that for which the product was intended.

Ensure that the user is in possession of the user guide and that you have completed the installation details in the back of the user guide.

The following needs to be understood by the user:

- How to operate the manual release mechanism. (Show them how by demonstration)
- How the obstruction detection and all other safety features work. (Show them how by demonstration)
- All the features and benefits of the operator, i.e. Beams, etc.
- All the safety considerations associated with operating an automated garage door. The users should be able to pass this knowledge on to all other users of the automated system and must be made aware of this responsibility.
- Do not activate the garage door operator unless you can see it and can determine that its area of travel is clear of people, pets, or other obstructions
- NO ONE MAY CROSS THE PATH OF A MOVING GARAGE DOOR. Always keep people and objects away from the gate and its area of travel
- NEVER LET CHILDREN OPERATE OR PLAY WITH THE GARAGE DOOR CONTROLS, and do not allow children or pets near the garage door area
- Be careful with moving parts and avoid close proximity to areas where fingers or hands could be pinched
- Secure all easily-accessible garage door operator controls in order to prevent unauthorised use of the garage door
- Keep the automated garage door system properly maintained, and ensure that all working areas are free of debris and other objects that could affect the garage door operation and safety
- On a monthly basis, check the obstruction detection system and safety devices for correct operation
- All repair and service work to this product must be done by a suitably qualified person
- This product was designed and built strictly for the use indicated in this documentation. Any other use, not expressly indicated here, could compromise the good condition/operation of the product and/or be a source of danger!

Centurion Systems (Pty) Ltd does not accept any liability caused by improper use of the product, or for use other than that for which the automated system was designed.

Ensure that the customer is in possession of the User Guide and that you have completed the installation details in the back of the User Guide.

11. Warranty Information



You can register your product(s) online at www.centsys.com, which will assist you in keeping a record of your date of purchase or installation, serial numbers, etc.

All of our products are manufactured with extreme care, thoroughly inspected and tested.

The goods supplied by us shall be subject to the provisions of sections 55 to 57 of the Consumer Protection Act (68/2008) except where the provisions of the warranty contained in our product documentation are more favourable to the purchaser.

Subject to the warranty contained in our product documentation, if applicable, our products are warranted for a period of thirty-six months after delivery.

However, it is expressly noted that batteries carry a six month warranty due to the nature of these products being such that they are subject to possible misuse. Please note that warranties will be honoured on a carry-in basis; in other words, the product in question must be taken in to one of our branches, or to the authorised reseller that the product was purchased from, for assessment and, if necessary, repair. For equipment not of our manufacture, the warranty as supplied by the original manufacturer will apply if such warranty is more favourable to the purchaser than the relevant provisions of the Consumer Protection Act (Act 68/2008 of South Africa), or any other applicable law as so required in different countries in which the product was sold.

Such warranty is valid only once full payment has been received for such goods.

Any warranty may be voidable on any equipment which:

1. Has not been installed in accordance with the installation instructions provided.
2. Has been subject to misuse or which has been used for any purpose other than that designed for by the manufacturers.
3. Has damage caused as a result of handling during transit, atmospheric conditions (including lightning), corrosion of metal parts, insect infestation, power surges or other forces outside of the control of the manufacturer.
4. Has been repaired by any workshop and / or person NOT previously authorised by the manufacturer.
5. Has been repaired with components not previously tested, passed or authorised by Centurion Systems (Pty) Ltd, South Africa or one of its subsidiary companies.



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