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The door reverses for no and treasments on other series that as areas that apparent reason The door reverses for no environmental conditions such as areas that are windy, dusty or have extreme temperature. The door reverses for no environmental conditions such as areas that are installed they may be changes. Auto Close not working Auto Close not working Auto Close not working The batteries may have little OR no charge capacity. The SERVICE LED has been detected. The fault will be active each time an attempt is made to started to flash and is a started to flash and is a started to flash and is a serial page occur occasionally from any peeps?) The patteries are time an attempt is made to a started to flash and is a started to flash and is a serial page occur occasionally from any peeps?) The fault will be active each time an attempt is made to a started to flash and is a started to make to reset the opener. If the fault compare the fault compare the fault compared to flash and is a started to make to reset the opener. If the fault compared to flash and is a started to flash and is a started to make to reset the opener. If the fault compared to flash and is a started to the search time an attempt is made to the search time to reset the opener. If the fault compared to flash and is a started to the search time an attempt is made to the search time to reset the opener. If the fault compared to the search time to reset the opener. If the fault compared to the search time to reset the opener. If the fault compared to the search time to reset the opener. If the fault compared to the search time to reset the opener. If the fault compared to the search time to reset the opener. If the fault compared to the search time to reset the opener. If the fault compared to the search time to reset the opener. If the fault compared to the search time time time to the search time time time time time time time time
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The Courtesy light does not working faulty The Courtesy light does not working The Moor reverses for no Safety Beam or wiring faulty The Courtesy light does not working The Courtesy light does not replace not working The Courtesy light does not replace wiring faulty Ensure the door runs smoothly before increasing the pressure. Ensure the door runs smoothly before increasing the pressure. Ensure the door runs amoothly before increasing the pressure. Ensure the beam path is not obstructed. Alignment. Alignment. Repair Safety Beam or replace wiring.
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The Courtesy light does not The Courtesy light does not The door reverses for no This may occur occasionally from apparent reason environmental conditions such as areas that are environmental conditions auch as areas that are environmental conditions and a gie windy, dusty or have extreme temperature.
The Courtesy light does not LED has failed Change LED.
vehicle.
Position of the transmitter in the motor Aim the transmitter through the windscreen.
The battery life is exhausted Check the battery status by pressing a button (flast light requires battery to be changed)
The transmitter range varies Variations are normal depending on or is restricted conditions e.g. temperature or external interference
Motor is running but chain is Damage motor assembly Contact your dealer for support. not moving
The chain moves but the disengaged The opener is disengaged door remains stationary
the other/s do not Flat battery Replace battery
One transmitter works but Faulty transmitter Paulty transmitter
Door Code LED is flashing yet the opener is Ensure the correct button on the transmitter is being
The transmitter button is not programmed to Code in the transmitter operate the door.
Turn off "Vacation Mode" Turn off "Vacation Mode" The opener has been put into "Vacation 8.3, step e of Home Owners Manual)
Transmitter does not contain Check that the transmitter has grey buttons and the Tri-Tran* Technology if otherwise.
The battery in the transmitter is flat Replace the battery
The opener does not have power power power power point and check that it is OK
The opener does not work Garage door in poor condition e.g. springs Check the door's operation may be broken
Symptom Possible cause Remedy

Troubleshooting Guide

Important Safety Instructions

This automatic garage door opener is designed and tested to offer safe service provided it is installed and operated in strict accordance with the following safety rules. Failure to comply with the following instructions may result in death, serious personal injury or property damage.



- The door may operate unexpectedly, therefore do not allow anything to stay in the path of
- When operating the manual release while the door is open, the door may fall rapidly due to weak or broken springs, or due to being improperly balanced.
- The drive must not be used with a door incorporating a wicket door, unless the drive cannot be operated with the wicket door open.
- The drive is intended to be installed at least 2.5m above the floor.
- Do not disengage the opener to manual operation with children/persons or any objects including motor vehicles within the doorway.
- If the door is closing and is unable to re-open when obstructed, discontinue use. Do not use a door with faulty obstruction sensing
- When using auto close mode, a **Photo Electric beam** must be fitted correctly and tested for operation at regular intervals. **Extreme caution** is recommended when using auto close mode. All safety rules must be followed.
- **ELECTROCUTION!** Place opener in protected area so that it does not get wet.
 - Do not spray with water .
 - Disconnect the power cord from mains power before making any repairs or removing covers. Only **experienced** service personnel should remove covers from the opener.
 - If the power supply cord is damaged, it must be replaced by an Automatic Technology service agent or suitably qualified person.
 - Connect the opener to a properly earthed general purpose 240V mains power outlet
 - installed by a qualified electrical contractor.



door

Fall from ladder

Entanglement

Entrapment under

operating door

- If garage has no pedestrian entrance door, an emergency access device should be installed. This accessory allows manual operation of the garage door from outside in case
- Practice correct lifting techniques (carton weighs approx 9kgs) Muscular strain
 - Practice correct lifiting techniques when required to lift the door as per installation instructions. Ensure ladder is the correct type for job.
 - Ensure ladder is on flat firm ground that will take the weight without the legs sinking.
 - Ensure user has 3 points of contact while on ladder.
- Crush injury from unsecured Place a 2 metre exclusion zone around area under the door while it is unsecured. Do not move under a door while it is on the door support (or ladder)
 - Follow the installation instructions
 - Fit door support (or ladder) snugly under door before removing bracket.
- Ensure door support (or ladder) is on flat ground Garage Door
 - Examine the door installation, in particular cables, springs and mountings for signs of wear,

 - The garage door must be well balanced. Sticking or binding doors must be repaired by a qualified garage door installer prior to installation of the opener.
 - Remove or disengage all garage door locks and mechanisms prior to installation of the
 - Never plug in and operate opener prior to installation.
 - Keep hands and loose clothing clear of door and guides at all times.
 - DO NOT operate the opener unless the garage door is in full view and free from objects such as cars and children/people. Make sure that the door has finished moving before entering or leaving the garage
 - In order for the opener to **sense** an object obstructing the door way, some **force** must be exerted on the object. As a result the object, door and/or person may suffer minor damage
 - Ensure the garage door is in good working order by undertaking regular servicing.

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- Install the optional wall transmitter in a location where the garage door is visible, but out of the reach of children at a height of at least 1.5m.
- Photo Electric beams must be installed if the closing force at the bottom edge of the door exceeds 400N (40kg)

Cycle and Testing Open Cycle. Test the force again as per Testing Close

process is complete. A single beep will be heard once the and the power up condition). (depending on the position of the door limit positions up to four (4) times move between the open and close calculate force margins. The door can b. The door will start to move and repeeper will sound once. SET Button for six (6) seconds, the

Press and hold the FORCE MARGIN

Cycle and Testing Open Cycle.

indicate a decrease in force.

To Decrease Force Pressure

e. Test the force again as per Testing Close

minimum force setting has been reached. is being pressed, this indicates that the

continuously when the MINUS (-) button

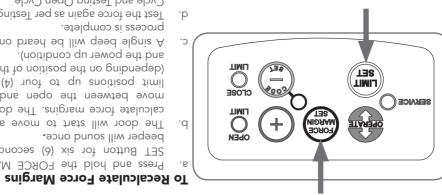
time the MINUS (-) button is pressed to The CLOSE LIMIT LED will flash each

button, press the MINUS (-) button. Each

b. While holding the FORCE MARGIN SET a. Hold down the FORCE MARGIN SET

d. If the CLOSE LIMIT LED flashes

press will decrease the force margin.



CTOSE

should now be recalled. b. Release both buttons. The default setting button and the LIMIT SET button for two a. Holding down the FORCE MARGIN SET To Recall Factory Set Force

Cycle and Testing Open Cycle. e. Test the force again as per Testing Close

the maximum force setting has been is being pressed, this indicates that continuously when the PLUS (+) button d. If the OPEN LIMIT LED flashes an increase in force.

the PLUS (+) button is pressed to indicate c. The OPEN LIMIT LED will flash each time press will increases the force margin. button, press the PLUS (+) button. Each

b. While holding the FORCE MARGIN SET a. Hold down the FORCE MARGIN SET

To Increase Force Pressure

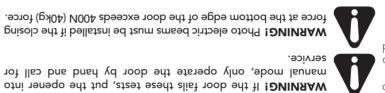
such as windy or dusty areas, and areas with extreme temperature changes. The Safety Obstruction Force is calculated automatically during setup. Adjusting this is normally only necessitated by environmental conditions Adjusting Safety Obstruction Force

LIMIT

Be sure not to over-tension the chain or belt as this can cause damage to the C-rail or opener. The tension can be varied by using a spanner to adjust the bolt at the door end of the C-rail.

or belt should sag slightly, so there is a 5mm gap between the bottom of the C-rail and the chain or belt. NOTE: Once the travel limits are set and safety obstruction force tested check the chain or belt tension. As per the sticker on the C-rail the chain

force at the bottom edge of the door exceeds 400N (40kg) force. WARNING! Photo electric beams must be installed if the closing



when opening, the force may be excessive and need If the door does not reverse readily when closing, or stop

the door's bottom rail - the door should stop. When the door reaches approximately half way, firmly grab b. Press again to open the door.

Press the transmitter to close the door. Testing Open Cycle

The door should strike the object and re-open. Press the programmed transmitter to close door. floor directly under the door.

Place a piece of timber approximately 40mm high on the Press the programmed transmitter to open the door. Testing Close Cycle

WARNING! Take care when testing or adjusting the

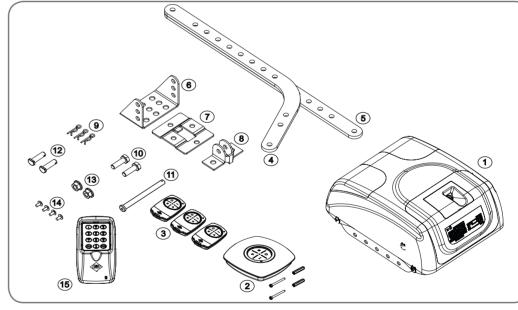
DAMAGE. SERIOUS PERSONAL INJURY and/or PROPERTY Safety Obstruction Force. Excessive force may cause

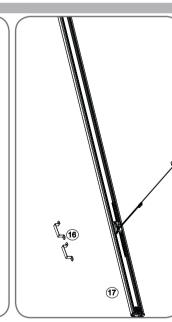


Safety Obstruction Forces

Controll-A-Door® P Diamond

Sectional Door Opener SDO 2V2 Tri-Tran⁺ Installation Instructions





Kit Contents

- 1 x Wall mount transmitter with battery and screws
- 2 x Transmitters and batteries
- 1 x Bent arm door attachment 1 x Straight arm door attachment
- 1 x Wall bracket TS01 1 x Door bracket Locator
- 1 x Door bracket
- 3 x Pin Snap SSP 8 ZNU 31080 10. 2 x Hex Head screw M8x25
- 11. 1 x Pin 0890
- 12. 2 x Clevis Pin 0829
- 13. 2 x Hex Serration flange nut M8
- 14. 4 x Hex flange screw taptite 'S' M4 x 10 15. 1 x KPX-7 Wireless Keypad
- 16. 2 x Track Bracket
- 17. 1 x Pre-Assembled Single Piece C-Rail

Quick Install Guide

C-Rail Attachment

Single piece

C-Rails are pre-tensioned during manufacturing for transport. Some extra tension may be required after installation.

If the C-Rail needs to be shortened or lenghtened (using the extension kit) ensure these modifications are made to the drive unit end.

To prevent scratching the unit after attaching the C-Rail, place the drive unit back in its packing box.

Tools Required

- Adjustable Wrench
- Socket set
 - Marker Pen Drill Door Stand

Screwdrivers

Important Note:



Only Tri-Tran⁺ Technology Transmitters and Keypads are compatible with this SDO-2V2 product.

Door Type

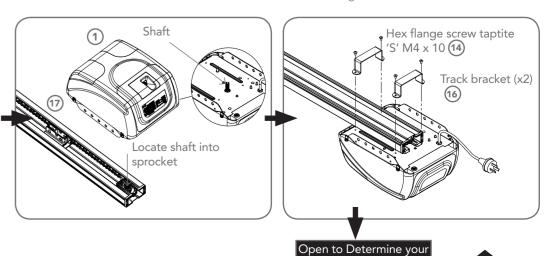
Power Supply

Properly earthed 3 pin single -phase power is required. WARNING! A portable power generator is

not recommended due to spikes, surges and fluctuations in the supply.

Head Room

The minimum height required between the highest point of the door's travel and the ceiling is 57mm.



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Doc # 161009_00 Part # 79122 Released: 28/03/14

Determine the Door Type

perforated

angle

perforated

angle

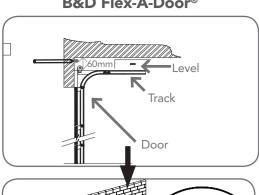
Step

ladder

Structural

member

Sectional door with track / **B&D Flex-A-Door®**



Open the door and find the highest point of travel of the top door panel. Using a level, transfer this height to the

wall above the door and mark a line



c. Determine the centre point on the wall above and on top of the door. Draw two lines extending 21.5mm (43mm in total) from each side of the centre point.

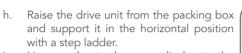
Centre the bracket over the intersection of these two lines. Mark centres for holes. Drill holes into wall and secure as follows: IF CONCRETE OR BRICK

8mm drill bit for holes 8mm (5/6") loxins / dynabolts to secure IF TIMBER

min. 50mm wood screw or similar to

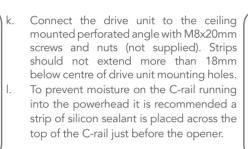
Leave the drive unit in its packing box on the floor for protection and lift the other

end of the C-Rail. Attach the C-Rail assembly 60 to the wall bracket 6 with the 90mm long clevis pin 1 and secure with the supplied snap pin 9.

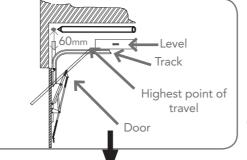


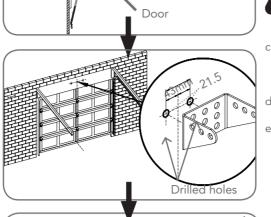
Line up the track perpendicular to the Secure the perforated angle (not supplied)

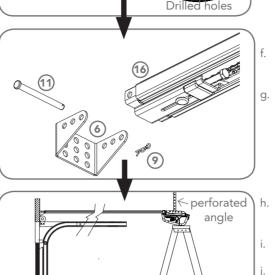
to the ceiling above where drive unit's mounting holes will be once fully installed.

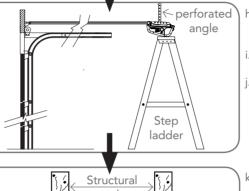


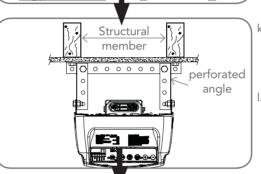
One piece door with track (T-Type)











Open the door and find the highest point of travel of the top door panel.

Using a level, transfer this height to the wall above the door and mark a line



WARNING! Make sure concrete, brick wall or timber lintels are solid and sound so as to form a secure mounting platform.

Determine the centre point on the wall above and on top of the door. Draw two lines extending 21.5mm (43mm in total) from each side of the centre point.

Centre the bracket over the intersection of these two lines. Mark centres for holes. Drill holes into wall and secure as follows:

IF CONCRETE OR BRICK 8mm drill bit for holes 8mm (5/6") loxins / dynabolts to secure IF TIMBER

min. 50mm wood screw or similar to

Leave the drive unit in its packing box on the floor for protection and lift the other end of the C-Rail.

Attach the C-Rail assembly 66 to the wall bracket 6 with the 90mm long clevis pin (1) and secure with the supplied snap pin (9).

Raise the drive unit from the packing box and support it in the horizontal position with a step ladder.

Secure the perforated angle (not supplied) to the ceiling above where drive unit's mounting holes will be once fully installed.

Line up the track perpendicular to the

Connect the drive unit to the ceiling mounted perforated angle with M8x20mm screws and nuts (not supplied). Strips should not extend more than 18mm below centre of drive unit mounting holes. To prevent moisture on the C-rail running into the powerhead it is recommended a strip of silicon sealant is placed across the top of the C-rail just before the opener.

Mount the door bracket (8), on the door's

centre line one-third down the top panel

and mounted using M6 or equivalent

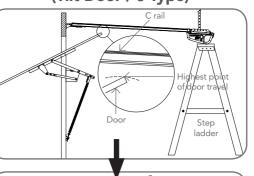
STEEL DOORS ONLY: Bracket can be

If in doubt about the door's

screws (not supplied),

welded in place.

One piece door without track (Tilt Door / J-Type)



wall above the door and mark a line 25mm above it. WARNING! Make sure concrete,

Open the door and find the highest point

Using a level, transfer this height to the

of travel of the top edge of the door.



Determine the centre of the door. Mark this location both on the line drawn in step (b) and on top of the door. Draw two lines extending 21.5mm (43mm in total) from each side of the centre point on the wall. Centre the bracket over the intersection of these two lines. Mark centres for a

Drill holes into wall and secure as follows: IF CONCRETE OR BRICK 8mm drill bit for holes 8mm (5/6") loxins / dynabolts to secure

minimum of two holes.

min. 50mm wood screw or similar to

Leave the drive unit in its packing box on the floor for protection and lift the other end of the C-Rail

Attach the C-Rail assembly 66 to the wall bracket 6 with the 90mm long clevis pin (1) and secure with the supplied snap pin (9).

Raise the drive unit from the packing box and support it in the horizontal position

Line up the track perpendicular to the

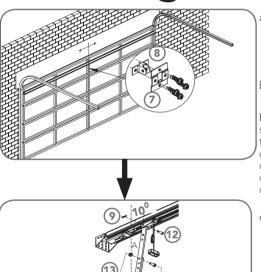
Secure the perforated angle (not supplied) to the ceiling above where drive unit's mounting holes will be once fully installed.

Connect the drive unit to the ceilina mounted perforated angle with M8x20mm screws and nuts (not supplied). Strips should not extend more than 18mm below centre of drive unit mounting holes. To prevent moisture on the C-rail running into the powerhead it is recommended a strip of silicon sealant is placed across the top of the C-rail just before the opener.

Alternative Mounting Option

The opener can be fastened to the roof by driving a bolt through the C-Rail into a structural timber support. The bolt head's height must

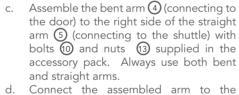
Mounting Door Bracket & Arms



The door bracket locator 7 is placed over the door bracket (8), on the door's centre line one-third down the top panel and mounted using M6 or equivalent screws (not supplied),

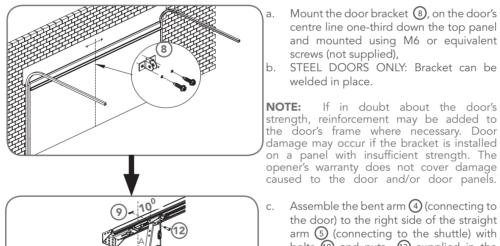
STEEL DOORS ONLY: Bracket can be welded in place.

If in doubt about the door's strength, reinforcement may be added to the door's frame where necessary. Door damage may occur if the bracket is installed on a panel with insufficient strength. The opener's warranty does not cover damage caused to the door and/or door panels.



bracket and the disengaged trolley with clevis (2) and snap pins (9). The angle "A" must be more than 10°.

CAUTION: Connecting the bent arm the other way around may damage the door. The straight arm should not protrude beyond



ent Arm closest

to the door

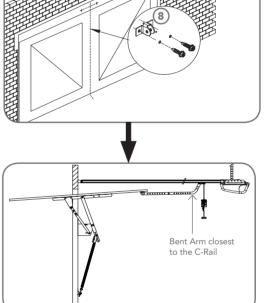
the heel of the bent arm.

Use blade screwdriver

to remove cover

caused to the door and/or door panels. Assemble the bent arm 4 (connecting to the door) to the right side of the straight arm (5) (connecting to the shuttle) with bolts 10 and nuts 13 supplied in the accessory pack. Always use both bent and straight arms.

Connect the assembled arm to the bracket and the disengaged trolley with clevis 12 and snap pins 9. The angle "A" must be more than 10°.



Shuttle VP2 assembly

Step

polt size M6 or M8

centre line one-third down the top panel and mounted using M6 or equivalent screws (not supplied), b. STEEL DOORS ONLY: Bracket can be

Mount the door bracket (8), on the door's

welded in place.

strength, reinforcement may be added to the door's frame where necessary. Door

Assemble the bent arm 4 and straight arm 5 with bolts 10 and nuts 13 supplied in the accessory pack. Always

Connect the assembled arm to the bracket and the disengaged trolley with clevis 12 and snap pins 9

action, lengthening the arm will assist in reducing this effect.

damage the door. The straight arm should not protrude beyond

Adjusting the Speed Setting

The default speed of the opener has been set to suit the majority of applications. However, there are three speed modes available if required:-

- Slow to suit one piece door without tracks
- Medium (default) suits majority of applications
- Fast to suit some sectional applications

Proceed to Programming the Opener if the default setting is appropriate. To change The speed settings can only be changed before setting the travel limits. If the opener

speed needs to be changed please complete the following process. Pressing the operate button will cycle through all three speed modes. To change the speed setting:

Engage the C-Rail's trolley (attached to the door via the arms) with the chain

index by moving the door. If the trolley does not "click" firmly onto the chain index, ensure that the manual

release cord is not in the disengaged position by pulling it backwards. Turn on the power to the opener. The CLOSE LIMIT LED will be flashing.

Remove the button cover with a blade screwdriver. Press operate button once, twice or three times to select slow, medium or fast

OPEN LED | CLOSE LED | Beeper Medium (Default) 2 beeps Off 3 beeps

Programming the Opener



CAUTION: The OPERATE button will not function until the open and close limit positions are set.

NOTE: The door and shuttle must be engaged into the chain index. The door should be open approximately half way.

- a. Remove the controls cover to access the controls panel using a blade screwdriver. Refit it when setup is completed. b. Press and hold the MINUS (-) button to start the door closing. Release the
- button once you have reached your desired closed limit position. c. Press the LIMIT SET button. This action will store the close limit position into
- d. Press and hold the PLUS (+) button to start the door opening. Release the button once you have reached your desired open limit position. e. Read the WARNING below.



WARNING! The garage door will automatically close, open and close again once the LIMIT SET button is pressed. Ensure there are no persons or objects in the door's path before pressing the

f. Press the LIMIT SET button to store into memory the open limit position. The doorwill now automatically close to its limit position then fully open to calculate the Safety Obstruction Forces. Take note of THE ABOVE WARNING! The opener can now be operated via the OPERATE button.

Resetting the Door Limit Positions

To enter new limit positions the existing settings must be deleted as follows

- Press and hold the LIMIT SET button for six (6) seconds, until you hear three beeps and the CLOSE LIMIT LED starts to flash
- b. Release the button.
- c. Follow Programming the Opener steps to set new limit

Setting the PET Mode position When activated, PET mode drives the door to the preset

position from the close position. Drive and stop the door at the deisred PET mode open position by pressing the transmitter button coded for Open/

- Stop/Close operation. b. Press and hold the PLUS (+) button on the opener for six (6) seconds until the OPEN and CLOSE LED's are lit to record the
- new PET position c. Release the PLUS (+) button.

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Coding Transmitters

Storing the Transmitter Code

CAUTION: Connecting the bent arm the other way around may

damage the door. The straight arm should not protrude beyond

The opener can only operate from transmitters that have been programmed into its receiver. The receiver needs to learn the codes of any transmitter that will be used with the operator. Up to eight (8) codes can be stored in the receiver's memory.

a. Press the CODE SET button and release. The CODE SET LED will illuminate to indicate the opener is in Code Learn mode. If a valid code is not stored within 15 seconds the opener will exit Code Learn.

b. Press the transmitter button (one of four) that you want to control the door. The CODE SET LED will begin to flash. c. Press the same transmitter button again. The CODE SET LED will

illuminate for one second and then go out. d. The transmitter is now coded to operate the door - press the

button to test.

Setting the Transmitter to Operate the Courtesy Light a. Press the CODE SET button twice. The CODE SET LED will

illuminate and the courtesy light will turn on to indicate that the light code learning is active. b. Choose a transmitter button not already coded into the receiver.

Press this button and the CODE SET LED will begin to flash. c. Press the same transmitter button again. The CODE SET LED will illuminate for one second and then go out.

d. The transmitter is now coded to operate the light. Press the

Setting the Transmitter to Operate Vacation Mode a. Press CODE SET button three times. The CODE SET LED will

illuminate and the courtesy light will flash slowly (once every two seconds) to indicate Vacation learning mode is active. b. Choose a transmitter button not already coded into the receiver.

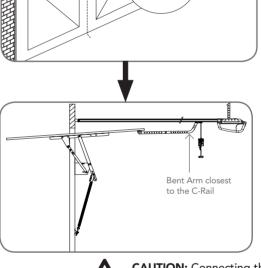
Press this button and the CODE SET LED will begin to flash. c. Press the same transmitter button again. The CODE SETE LED will illuminate for one second and then go out, and the courtesy light will also switch off. This indicates the code has been stored.

d. To activate Vacation Mode, close the garage door and press the coded button transmitter for 5 seconds. The CODE SET LED will illuminate to indicate that the opener is in Vacation Mode. e. To exit Vacation Mode press the transmitter button momentarily

Enabling AUX Output

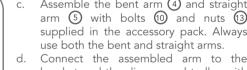
- Press the CODE SET button four (4) times the CODE SET LED will illuminate and the courtesy light will flash quickly.
- Press one of the four (4) buttons on the transmitter for two (2) seconds, the CODE SET LED will begin to flash, pause for two (2) seconds, then press the same button again for two (2) seconds. The CODE SET LED will illuminate for one second then go out.
- Press the transmitter button to test.

until the CODE SET LED turns off.



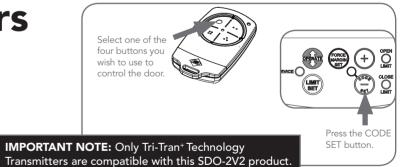
NOTE: If in doubt about the door's

damage may occur if the bracket is installed on a panel with insufficient strength. The opener's warranty does not cover damage caused to the door and/or door panels.



If installing on a door with a bad wave

CAUTION: Connecting the bent arm the other way around may



Setting PET (Pedestrian) Mode

The PET mode position is set during installation.

a. Press the CODE SET button five (5) times - the CODE SET LED will illuminate and the courtesy light will flash quicky (twice per second).

b. Press one of the four (4) buttons on the transmitter for two (2) seconds, the CODE SET LED will begin to flash, pause for two (2) seconds, then press the same button again for two (2) seconds.

c. The CODE SET LED will illuminate for one second and then go out, and the courtesy light will also switch off. This indicates the code has been

d. Press the transmitter button to test.

To Erase Programmed Codes

If the CODE SET button is pressed and held for six (6) seconds the CODE SET LED will blink rapidly for one second to indicate that all programmed codes have been erased.

Installation of the Wall Mounted Transmitter

a. Mount the transmitter in a convenient location, yet out of reach of children and at least 1.5m off the ground. b. Make sure the door is visible from this location.

c. To set the transmitter codes refer to Storing the transmitter code above.

Remotely Coding Transmitters

Using this method transmitters can be coded without access to the opener's control panel as long as a pre-coded transmitter is available.

a. Take any pre-coded transmitter. Press the button for the function to be duplicated and release. b. Using a small needle / pen, press and

hold firmly for two seconds the middle button, through the Coding Hole.

c. Within ten (10) seconds take the additional transmitter you wish to code. Hold the new transmitter's button for two seconds, pause for two seconds, hold again for two seconds and then release.

d. Wait for ten (10) seconds and then press the new transmitter's button to test





Obstruction Forces

