	Limits may be cleared	Remove all power sources (including the battery backup). Wait till all lights are out (10-15 secs), then reconnect power. If Red LED is flashing, limits are not set. Reset Limits.
The Close (Red) LED continues to flash	Door obstructed when closing	Clear away any obstructions and test door closes correctly. (If door is damaged, contact your door professional).
The Open (Green) LED continues to flash	Door obstructed when opening	Clear away any obstructions and test door opens correctly. (If door is damaged, contact your door professionl).
The Open (Green) LED and Close (Red) LED are flashing alternatively	Debeor is overloaded	Check the doors operation by disengaging the motor and ensuring the door runs smoothly. If necessary make door adjustments or contact your door professional.
The SERVICE LED has	A Fault has been detected. The fault will be active each time an attempt is made to operate the door.	Record opener function (How many beeps?) then press the SET button once to reset the opener. If the fault continues to be tripped contact 1300 736 410 for support.
The door stops or moves very slowly under battery (Optional Battery Back Up	The batteries may have little to no charge	Connect mains power and leave the batteries to charge. The batteries may take 24 to 48 hours to reach their maximum charge capacity.
Puto Close not working	Safety Beam or wiring faulty	Repair Safety Beam or replace wiring. Re-align optics. See Safety Beam instructions.
	If Safety beams are installed they may be partially obstructed.	Ensure the beam path is not obstructed. Check the Alignment.
The door reverses for no apparent reason	This may occur occasionally from environmental conditions such as areas that are windy, dusty or have extreme temperature changes.	Ensure the door runs smoothly before increasing the force pressure.
The Courtesy light does not work	bəlisi sad DƏJ	Change LED.
	Position of the transmitter in the motor ehicle	Aim the transmitter through the windscreen.
	The battery life is exhausted	Check the battery status by pressing a button (flashing or no light requires battery to be changed)
The transmitter range varies or is restricted	Variations are normal depending on conditions e.g. temperature or external interference	Make sure you can see the door when you use the transmitter.
si nisho tud gninnur si notoM pnivom ton	Damage motor assembly	Contact your dealer for support.
The chain moves but the door remains stationary	The opener is disengaged	ge-eudade the opener
One transmitter works but the other/s do not	Faulty transmitter Flat battery	Replace transmitter
1  -1 -3111-30411300004-04()	Door Code LED is flashing yet the opener is not working.	Ensure the correct button on the transmitter is being pressed.
	The transmitter button is not programmed to operate the door.	Coding the transmitter
	The opener has been put into "Vacation Mode"	Turn off "Vacation Mode" (Section 8.3, step e of Home Owners Manual)
	The battery in the transmitter is flat	Replace the battery
	The opener does not have power	Plug a device of similar voltage (e.g. a hairdryer) into the power point and check that it is OK
The opener does not work from the transmitter	Garage door in poor condition e.g. springs may be broken	Check the door's operation
Symptom	Possible cause	<b>у</b> етеду

# Troubleshooting Guide

# Important Safety Instructions GDO-9 Dynamo<sup>™</sup> [Gen 2]

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. Place opener in protected area so that it does not get wet.
- **ELECTROCUTION!** 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

Garage Door

Entanglement

operating door

autਊmatic

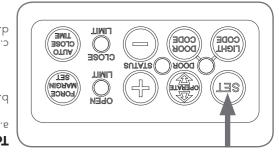
**CAUTION:** 

- 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 of power failure.
- Practice correct lifting techniques (carton weighs approx 9kgs) Muscular strain
  - Practice correct lifiting techniques when required to lift the door as per installation instructions.
- Fall from ladder 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
  - 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. Entrapment under 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.
  - 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)

Test the force again as per Testing Close Cycle and Testing Open A single beep will be heard once the process is complete.

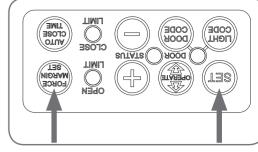
(4) times (depending on the position of the door and the power up can move between the open and close limit positions up to four b. The door will start to move and re-calculate force margins. The door

Press and hold the SET Button for two (2) seconds, the beeper will To Recalculate Force Margins



Release both buttons. The default setting should now be recalled. button for two (2) seconds. While holding down the FORCE MARGIN SET button, press the SET

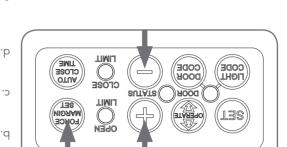
To Recall Factory Set Force



Cycle and Testing Open Cycle. e. Test the force again as per Testing Close indicates that the maximum setting has when pressing the MINUS (-) button this

If the CLOSE LIMIT LED is on continuously indicate a force decrease. of bessend is notted (-) SUNIM and amit The CLOSE LIMIT LED will flash each press decreases the force margin. button, press the MINUS (-) button. Each While holding the FORCE MARGIN SET

Hold down FORCE MARGIN SET To Decrease Force Pressure



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

indicates that the maximum setting has when pressing the PLUS (+) button, this d. If the OPEN LIMIT LED is on continuously indicate a force increase

of bessend is nottud (+) SUJ9 and amit The OPEN LIMIT LED will flash each press increases the force margin.

button, press the PLUS (+) button. Each While holding the FORCE MARGIN SET

Hold down 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

> to the C-rail or opener. Be sure not to over-tension the chain or belt as this can cause damage

The tension can be varied by using a spanner to adjust the bolt at the of the C-rail and the chain or belt. or belt should sag slightly, so there is a 5mm gap between the bottom check the chain or belt tension. As per the sticker on the C-rail the chain

NOTE: Once the travel limits are set and safety obstruction force tested

WARNING! Photo electric beams must operate the door by hand and call for put the opener into manual mode, only

M004 sbeeck exceeds 400N

be installed if the closing force at the

(40kg) force.



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

Testing Close Cycle

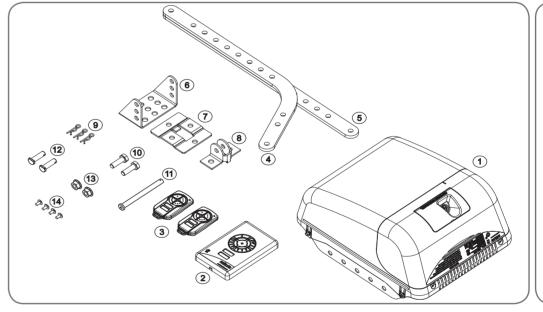
The door should strike the object and re-open. Press the programmed transmitter to close door. floor directly under the door. Place a piece of timber approximately 40mm high on the Press the programmed transmitter to open the door.

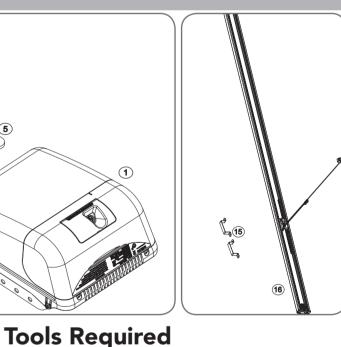
DAMAGE. SERIOUS PERSONAL INJURY and/or PROPERTY Safety Obstruction Force. Excessive force may cause WARNING! Take care when testing or adjusting the



# Safety Obstruction Forces

# **Overhead Garage Door Opener Installation Instructions**





# Kit Contents

- 1. 1 x GDO-9 Dynamo<sup>™</sup> Gen 2 drive unit
- 1 x Wall mount transmitter with battery 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
- PLUS
- 15. 2 x Track Bracket 16. 1 x Pre-Assembled Single Piece C-Rail

# **Power Supply**

Door Stand

Socket set

Screwdrivers

Marker Pen

Drill

Adjustable Wrench

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.

# **Quick Install Guide**

# **C-Rail Attachment**

# Single piece

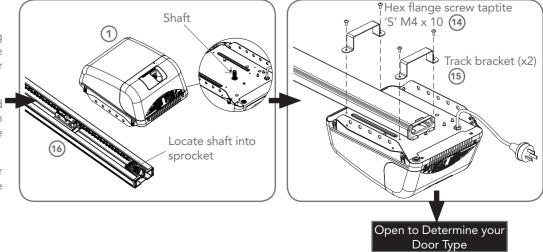
Doc # 160017\_00

Part # 13362

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.



# **Determine the Door Type**

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

# 60mm above it.

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



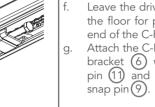
WARNING! Make sure concrete, brick wall or timber lintels are solid and sound so as to form a secure mounting platform.

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 secure



perforated

perforated

angle

Step

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 16 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 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.

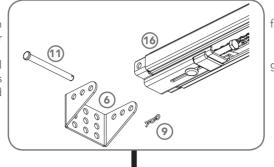
To prevent moisture on the C-rail running

into the powerhead it is recommended a

strip of silicon sealant is placed across the

top of the C-rail just before the opener.

with a step ladder.



Structural

member

← perforated

perforated

Step

One piece door with track

(T-Type)

Highest point of travel

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

of travel of the top door panel.

mounting platform.

WARNING! Make sure concrete,

and sound so as to form a secure

above and on top of the door. Draw two

lines extending 21.5mm (43mm in total)

Centre the bracket over the intersection of these two lines. Mark centres for holes.

Drill holes into wall and secure as follows:

8mm (5/6") loxins / dynabolts to secure

min. 50mm wood screw or similar to

from each side of the centre point.

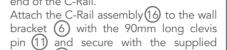
IF CONCRETE OR BRICK

8mm drill bit for holes

IF TIMBER

60mm above it.

bracket 6 with the 90mm long clevis pin (1) and secure with the supplied snap pin (9).

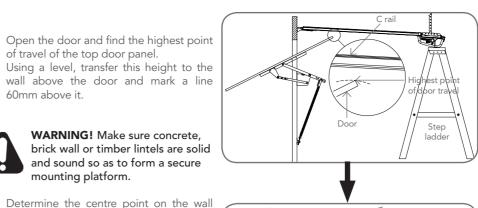


Raise the drive unit from the packing box and support it in the horizontal position with a step ladder. Line up the track perpendicular to the

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 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.

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



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

Using a level, transfer this height to the wall above the door and mark a line 25mm above it.



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

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

minimum of two holes. Drill holes into wall and secure as follows: IF CONCRETE OR BRICK 8mm drill bit for holes

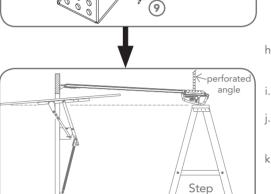
8mm (5/6") loxins / dynabolts to secure

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 (16) to the wall bracket 6 with the 90mm long clevis pin (11) and secure with the supplied

snap pin (9).

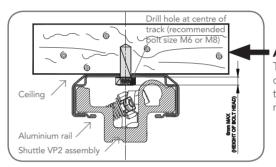


ladder

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

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 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.



### 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 not exceed 6mm.

# **Mounting Door Bracket & Arms**

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

Structural

member

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),

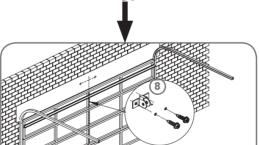
STEEL DOORS ONLY: Bracket can be welded in place.

NOTE: 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.

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.

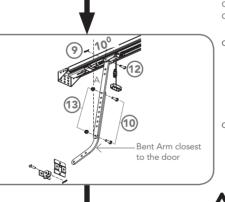
Connect the assembled arm to the bracket and the disengaged trolley with clevis (12) and snap pins (9). The angle "A" must be more than 10°.

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



One piece door with track

(T-Type)



Mount 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.

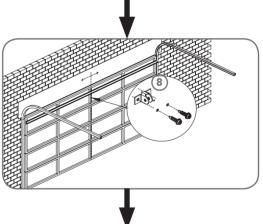
NOTE: If in doubt about the door's strength, reinforcement may be added to the door's frame where necessary. Door damage may occur if the bracket is installed on a panel with insufficient strength. The opener's warranty does not cover damage caused to the door and/or door panels.

c. 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 (3) 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°

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

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



to the C-Rail

door's 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

welded in place.

NOTE: 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.

c. Assemble the bent arm (4) and straight arm (5) with bolts (10) and nuts (13) supplied in the accessory pack. Always use both the bent and straight arms. Connect the assembled arm to the

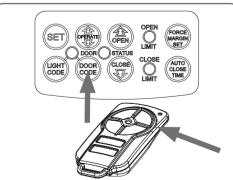
bracket and the disengaged trolley with clevis (2) and snap pins (9). If installing on a door with a bad wave

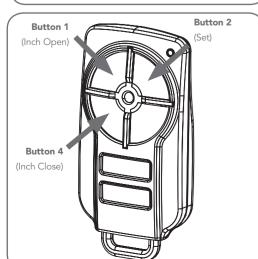
action, lengthening the arm will assist in reducing this effect.

**CAUTION:** Adjust the length of the cord so that its toggle is no more than 1.8m from the ground.

# **Programming the Opener**

Bent Arm closes





NOTE: There is no need to re-code the transmitter upon resetting travel limits.

The transmitter will still be stored in memory.

# **Code a Transmitter for Limit Setting**

Ensure the opener is powered up and button cover is removed. Press and hold the DOOR CODE button.

Press Button 1 on the transmitter for two seconds. Release and pause for two seconds. Press the Button 1 again for two seconds.

Release the DOOR CODE button. Press the transmitter to test.

# **Setting Limits via Transmitter**

Engage the C-Rail's trolley (attached to the door via the arms) with the chain or belt index by moving the door. If the trolley does not "click" firmly onto the chain index, pull the cord backwards until

it locks in place, and try again. Press and hold Button 4 on the transmitter to close the door. When the door is

approx. 20mm from the ground, release Button 4. Each press of Button 4 will allow you to "inch" the door closed. Keep doing this until

the door reaches the desired close limit position.

If the door overshoots, press Button 1 to "inch" the door towards open When in the correct close limit position, press Button 2 to store this in memory.

Press and hold Button 1 to open the door. When approx. 20mm from the desired open position, release Button 1. Each press of Button 1 will allow you to "inch" the door open. Keep doing this until

the door reaches the desired open limit position. If the door overshoots, press Button 4 to "inch" the door towards closed.

Ensure that no persons or objects are in the door's path. When in the correct open limit position, press Button 2 on the transmitter to store

WARNING! The door will automatically close, open and close again once the

The door will now automatically close, open and close to calculate the safety

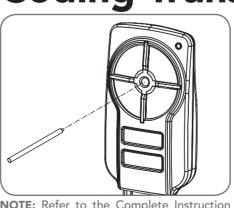
#### obstruction settings. After this, the opener can be operated with the OPERATE button. **Resetting the Door Limit Positions**

next step is performed.

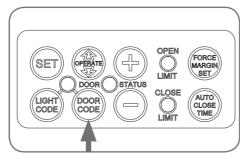
it positions can be deleted by the following steps: To reset the limits, press and hold the MINUS (-) button (on the opener) for 6 seconds until the CLOSE LIMIT LED flashes quickly. If no action is taken within 30 seconds, the opener will return to normal operating mode and restore the original settings...

b. Repeat the above processes to set new travel limit positions.

# **Coding Transmitters**



NOTE: Refer to the Complete Instruction Manual to code transmitters with extra features such as Pet Mode, Vacation Mode and Courtesy Light.



# **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.

NOTE: The door or courtesy light must activate when the steps below are performed. This indicates that the pre-coded transmitter is in range of the opener, and the correct button has

a. Take any pre-coded transmitter. Press the button for the function to be duplicated and

Using a small needle / pen, press and hold firmly for two seconds the middle button, through the Coding Hole.

Within 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 10 seconds and then press the new transmitter's button to test.

# **Erasing a Stored Transmitter Code**

a. Select the transmitter you want to delete.

opener while holding this button.

b. Press and hold the DOOR CODE BUTTON. Press the transmitter button you would like to delete for two seconds, pause for two

seconds, press again for two seconds and then release.

d. Release the DOOR CODE BUTTON. The code should now be deleted. Confirm this by pressing the transmitter button - the function (e.g. door opening) should not respond.

# **Erasing All Transmitter Codes**

Turn off power to the opener. While switched off, press and hold the DOOR CODE BUTTON. Turn on power to the

The OPEN LIMIT, CLOSE LIMIT and DOOR STATUS LEDs will illuminate for about five seconds. These LED's will turn off and the CODING LED will illuminate.

Release the DOOR CODE BUTTON. All stored codes will now be deleted. Confirm this pressing buttons on any previously coded transmitters - the opener should not respond.