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**WARNING! IMPORTANT SAFETY INSTRUCTIONS**

**FOLLOW ALL INSTRUCTIONS SINCE INCORRECT INSTALLATION CAN LEAD TO SEVERE INJURY.**

- before installing the drive, remove all unnecessary ropes or chains and disable any equipment, such as locks, not needed for powered operation;
- before installing the drive, check that the door is in good mechanical condition, correctly balanced and opens and closes properly;
- install the actuating member for the manual release at a height less than 1.8 m;
- install any fixed control at a height of at least 1.5 m and within sight of the door but away from moving parts;
- 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 40 mm high object placed on the floor;
- necessary information for the safe handling of a drive weighing more than 20 kg. This information shall describe how to use the handling means, such as hooks and ropes;
- 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 footpaths or roads.
- vertical doors and gates need an anti-drop feature or device;
- information if a hazardous part of the drive is intended to be installed at a height of at least 2.5 m above floor level or other access level;
- except for horizontally moving pedestrian doors, ensure that entrapment due to the opening movement of the driven part is avoided
1. Installation Safety Warnings!

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 warnings. Failure to comply with the following instructions may result in death, serious personal injury or property damage.

**WARNING!**
- The door may operate unexpectedly, therefore do not allow anything to stay in the path of the door.
- 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.

**CAUTION:**
- Emergency Access • 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.

Muscular strain
- Practice correct lifting techniques (carton weighs approx 5.7kgs)
- Practice correct lifting 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 door
- Place a 2 metre exclusion zone around area under the door while it is unsecured.
- Follow the installation instructions

Garage Door
- Examine the door installation, in particular, springs and mountings for signs of wear, damage and imbalance.
- 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 opener.

Entanglement
- Never plug in and operate opener prior to installation.
- Keep hands and loose clothing clear of door and guides at all times.

Entrapment under operating door
- 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 or injury.
- 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)
2. Before you Begin

2.1 Examine the conditions in the garage:
   a. Look at the ceiling:
      i. Is it plastered? The opener is mounted to a perforated angle which MUST be securely fastened to a structural support. You will need to locate the structural beams in the ceiling which are generally 400mm apart.
      ii. Does it have exposed beams? The opener is mounted to a perforated angle which must be securely fastened to a structural support like the exposed beams. You may need to install a 40mm thick board (not supplied) between structural supports.
   b. Look at the wall above the garage door.
      i. Is it brick? The wall bracket MUST be securely fastened to the wall with suitable screws and ensure it does not move.
      ii. Is it timber? The wall bracket MUST be securely fastened to a structural support. You may need to install a 40mm thick board (not supplied) between structural supports to fasten the wall bracket to.

2.2 Test the following before commencing installation:
   a. The door MUST BE in good operating condition.
   b. Manually move the door up and down, the door should move freely without binding or sticking. When the door is fully closed it should raise itself by 10cm off the floor. Retension door if necessary.
   c. The maximum force required to move the door should not exceed 20kg.
   d. Lift the door to about halfway. When released, the door should stay in place.

**DO NOT DO IT YOURSELF:**
If any of the above door requirements are not met, DO NOT attempt to fix yourself. Please contact a garage door professional. (P) 0800 366 462

3. Tools Required

- Stepladder
- Tape Measure
- Pliers
- Screwdrivers
- Level
- Hack saw
- Drills
- Drill Bits
- Pencil
- 2 x Screws (M6 x 20mm)
- Perforated Angle Metal pieces (32 x 32 x 1.5mm) x 1200mm length
- Sockets and Wrench
- 4 x Screws (M8 x 20mm)
- 4 x Bolts and Nuts (M8)
- 4 x Screws (M6 x 20mm)
4. Kit Contents

1. 1 x SDO drive unit
2. 1 x Wall mount transmitter
3. 2 x Transmitters
4. 1 x Bent arm door attachment
5. 1 x Straight arm door attachment
6. 1 x Wall bracket TS01
7. 1 x Door bracket Locator
8. 1 x Door bracket
9. 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 ‘S’ M4 x 10
15. 2 x Track Bracket
16. 1 x Pre-Assembled track

PLUS

5. Position

The Opener:
a. MUST BE installed in a dry position, protected from weather.
b. REQUIRES properly earthed 3 pin single phase power on the ceiling within an arms length of the opener.
c. Requires a MINIMUM HEADROOM of 57mm between the highest point of the door’s travel and the ceiling.
d. Use the diagram below as a reference when completing the installation.
6. Fit the Opener

6.1 Secure C-Rail to Opener:
   a. Remove the Opener from the box, taking care of antenna (if fitted).
   b. Locate and insert the shaft of drive unit into the C-Rail’s sprocket.
   c. Fix the two track brackets with four (4) M4 x 8 screws supplied in accessory pack.
   d. Place drive unit back in packing box for protection.
   
   ![Locate shaft into the sprocket]

   **WARNING!** DO NOT use tek screws to affix rail. Only use the screws provided, and fix these into the threaded holes in the chassis.

7. Bracket Position

7.1 Wall Bracket Position:
   a. Determine the centre of the door and mark this point with a line on the wall above.
   b. Raise the door and find the highest point of travel of the first (top) door panel.
   c. Using step ladder and a level, transfer this height to the wall above the door and mark a line 60mm above it, across the centre line.
   
   **WARNING!** The Opener must be securely fastened to structural supports, otherwise opener failure may ensue causing serious personal injury and/or property damage.

   ![Level]

   **DO NOT DO IT YOURSELF:** If sufficient structural support can not be found, contact a door professional for installation.

   c. Using step ladder and a level, transfer this height to the wall above the door and mark a line 60mm above it, across the centre line.

7.2 Mounting the Wall Bracket:
   a. Draw two lines extending 21.5mm from each side of the centre point.
   b. Centre the wall bracket over the intersection of these two lines.
   c. Drill holes in the wall with an appropriate bit.
   d. Secure to the wall using:
      i. IF CONCRETE OR BRICK: 8mm (5/6") loxins/dynabolts.
      ii. IF TIMBER: wood screw #20 or similar (min. 50mm).

7.3 Attach the Track to the Wall Bracket
   a. Leave the drive unit in its packing box on the floor for protection and lift the other end of the C-Rail.
   b. Attach the pre-assembled track to the wall bracket with the 90mm long pin and secure with the supplied pin snap.
   
   ![Keep the Tracklock manual on hand as after setting limits in Section 12, refer to the tracklock manual to tension the track and set the tracklock.]

   **tip**
8. Perforated Angle (Not supplied)

8.1 Attach Perforated Angle or equivalent
a. Measure across the ceiling from the centre point 3177mm (+/- 150mm) to find a supporting beam.
b. Create a perforated angle which best suits your site. Use a hack saw to cut the L shape metal strips. Secure the perforated angle to a supporting beam using diagrams shown below.
c. Raise the drive unit to the ceiling mounted perforated angle and secure with M8x20mm screws and nuts (not supplied). Strips should not extend more than 18mm below centre of drive unit mounting holes.
d. 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.

Ceiling Beams that run towards the door requires:
1 x perforated L shape metal strip and
2 x shorter perforate L shape metal drop down strips.

Ceiling Beams that run parallel to the door requires:
2 x perforated L shape metal strips and
2 x shorter perforate L shape metal drop down strips.

9. Mounting Brackets and Arms

9.1 Mounting the Door Bracket:
a. 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).
b. 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.

9.2 Attaching the Arms
a. Assemble the bent arm 4 (connecting to the door) to the right side of the straight arm 5 with bolts 10 and nuts 13 supplied in the accessory pack. Connect the straight arm 5 to the shuttle with a clevis pin 12 and a pin snap 9. Always use both bent and straight arms.
b. Connect the assembled arm to the bracket with clevis pin 12 and pin snap 9. The angle ‘A’ must be more than 10°.
10. Optional Safety Beam Kit

10.1 Safety Beams
The Safety Beam Kit provides additional safety by preventing the door closing when the beam is blocked by a car, child etc. When the Safety Beam Kit is installed the Auto-close feature can be enabled if required.

a. To install the Safety Beam Kit, refer to the Safety Beam instruction supplied with the kit.
b. After the beams are installed the beam alignment feature of the opener can be used.
c. Turn power on to the opener.
d. Align the safety beams using the main light as a guide:
   i. bright = aligned
   ii. dull = not aligned or blocked

When the beam is aligned or if no beam is fitted, continue with Setting Limits.

11. Specifications

<table>
<thead>
<tr>
<th>Technical Specifications</th>
<th>Select DSO-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage range:</td>
<td>230V - 240V a.c.</td>
</tr>
<tr>
<td>Rated frequency:</td>
<td>50Hz / 60Hz</td>
</tr>
<tr>
<td>Rated power input:</td>
<td>165W</td>
</tr>
<tr>
<td>Door opening:</td>
<td></td>
</tr>
<tr>
<td>Maximum Door Area:</td>
<td>15m²</td>
</tr>
<tr>
<td>Maximum Door Weight:</td>
<td>140kg*</td>
</tr>
<tr>
<td>Door must be well balanced and able to be operated by hand, as per warranty conditions and AS/NZS 4505:2012</td>
<td></td>
</tr>
<tr>
<td>Minimum headroom</td>
<td>57mm</td>
</tr>
<tr>
<td>Rated Operating Time</td>
<td>4 mins</td>
</tr>
<tr>
<td>Rated Temp</td>
<td>+5°C to +40°C</td>
</tr>
<tr>
<td>Short Term Peak force:</td>
<td>700N</td>
</tr>
<tr>
<td>Door travel speed (mm/sec)</td>
<td>140mm</td>
</tr>
<tr>
<td>Rated load</td>
<td>400N</td>
</tr>
<tr>
<td>Nominal force</td>
<td>200N (20kg)</td>
</tr>
<tr>
<td>Receiver type</td>
<td>Multi-frequency UHF FM</td>
</tr>
<tr>
<td>Receiver code storage capacity</td>
<td>64 X 4-button Transmitters</td>
</tr>
<tr>
<td>Transmitter battery</td>
<td>CR2032 (3 Volts)</td>
</tr>
<tr>
<td>Courtesy light</td>
<td>LED (Light Emitting Diodes)</td>
</tr>
<tr>
<td>Network connectivity</td>
<td>Network ready (requires optional smart phone control kit)</td>
</tr>
</tbody>
</table>

* Gross door weight, including all fittings

Note: During the open and close cycles, intermittent operations may occur in areas which experience very strong winds. The strong wind puts extra pressure on the door and tracks which may in turn intermittently trigger the safety obstruction detection system.
12. Setting Limits

**Tip** If a tracklock is being installed with the opener, make sure the tracklock plate is not secured in position until limits are set. Refer to tracklock manual.

12.1 Set the Limit Positions and adjust drive speed:
When setting the Close limit, ensure the position is when the door makes first contact with the ground. Alternatively for the Open limit the position should be at the height of the garage opening.

**NOTE:** The drive speed is set to the fastest setting by default. This may not be suitable for larger doors or for single piece doors. For tilt doors (J-Type only), please refer to Appendix F for initial setup.

a. Switch power on and the BLUE LED on the CLOSE button will start to flash and the GEAR LED is lit to indicate that the opener is ready to set the Close travel limit.

b. Press either the CLOSE or OPEN button to move the door to the halfway point.

**CLOSE limit:**

i. Press and hold the CLOSE button to start closing the door, taking note of the speed the door moves.

ii. If the close speed is not suitable, to make a change, press and hold the CLOSE button and by pressing the STOP / SET button on the opener it will cycle through all three speed modes as shown in table.

iii. Once at the desired speed, release the CLOSE button.

iv. To set the close limit, inch the door by making single presses of the CLOSE button to the desired position. We recommend the CLOSE limit position being the first point of contact of the rubber strip (at the bottom of the door) with the ground.

v. If the door overshoots, press the OPEN button to move the door in the OPEN direction.

vi. When the door is at the desired CLOSE position, press the STOP / SET button on the opener, the GREEN LED on the OPEN button will now flash.

**WARNING!** In setting the close limit position, do not force the door into the floor with excessive force, as this can interfere with the ease of operation of the manual release mechanism.

**NOTE:** If unhappy with the speed or travel limit setting, restart this procedure by resetting the door limit positions as per below first.

12.2 Clearing the Door Limit Positions
Limit positions can be deleted by:

a. Press the MODE button repetitively until the GEAR LED is lit.

b. Press and hold the MODE button for 10 secs, let the MODE button go when the main light stops flashing.

c. The close LED will flash continuously to indicate limits have been cleared.

**NOTE:** If no action is taken within 30 seconds, the opener will return to normal operating mode and restore the original settings.

d. Follow from CLOSE limit: above to set new limit positions, remembering to reset the tracklock.

**OPEN limit:**

i. Press and hold the OPEN button to start opening the door, taking note of the speed the door moves.

ii. If the open speed is not suitable, to make a change, press and hold the OPEN button and by pressing the STOP / SET button on the opener it will cycle through all three speed modes as shown in table.

iii. Once at the desired speed, release the OPEN button.

iv. Continue inching the door to the desired position.

v. To set the open limit, inch the door by making single presses of the OPEN button to the desired position. We recommend the OPEN limit position being the height of the garage opening.

vi. If the door overshoots, press the CLOSE button to move the door in the CLOSE direction.

vii. When the door is at the desired OPEN position, press the STOP / SET button The door will now automatically close and open to calculate the safety obstruction settings.

**WARNING!** The door will automatically close, open and close again after the next step. Ensure that nothing is in the door’s path.

**Once limits are set, refer to the tracklock manual to set the tracklock and check the tension of the track.**

**Tip** Refer to Appendix B & C for adjustments to margins.

12.3 Re-profiling the Door
Re-profiling is a simplified way of re-learning the travel characteristic of a previously setup Limit Switch travel installation. Re-profiling can be used when the travel characteristics of the door change due to mechanical adjustments etc. To initiate a re-profile:

a. Limits must be set.

b. Press the MODE button repetitively until the GEAR LED is lit.

c. Press and hold the CLOSE button for two seconds, the door will open and close by itself to record profile.
13. Safety Testing

13.1 Test the Close Cycle
a. Press the OPEN button or transmitter button to open the door (If the door starts closing, press the transmitter button to stop the door, then press transmitter again to open).
b. Place a piece of timber approximately 40mm high on the floor directly under the door.
c. Press the transmitter button to close door.
d. The door should strike the object and re-open.
e. Remove the timber.

**CAUTION:** Take care when completing a safety test. Failure to follow this warning can result in serious personal injury and/or property damage.

**WARNING!** If the door is closing and is unable to re-open when obstructed, discontinue use Do not use a door with faulty obstruction sensing.

13.2 Testing the Open Cycle
a. Press the CLOSE button or transmitter button to close the door.
b. Press the transmitter button again to open the door.
c. When the door reaches approximately half way, firmly grab the door's bottom rail - the door should stop.
If the door does not reverse readily when closing, or stop when opening, put the door into manual by pulling down on the manual release string to disengage the motor and contact 13 62 63 for support.

13.3 Test the Manual Door Operation
Periodically disengage the opener and manually operate the door. The door must be smooth to operate by hand. The force required on the bottom rail should not exceed 20kg.

**WARNING!** Safety beams must be installed if the closing force at the bottom edge of the door exceeds 400N (40kg).
14. Auto-Close

Auto-Close mode is a function that automatically closes the door after a pre-set time. Safety beams must be installed in order to run the Auto-Close function. There are two types of Auto-Close available:

i. Standard auto-close - the door will Auto-Close after a programmed time. In this mode the timer starts to countdown as soon as the door is fully open. This function is useful in case the safety beam does not get triggered.

ii. Safety Beam triggered auto-close - the door will auto-close after a programmed time. In this mode the timer starts counting down only when the safety beam is triggered, i.e., car leaving the garage.

To enable the Auto-Close function:

a. Press the MODE button repetitively until the GEAR LED starts flashing.

b. Press the OPEN button until the GEAR LED flashes:
   i. two (2) times to get to PE auto-close or
   ii. three (3) times to get to standard auto-close.

c. Press STOP / SET button to enter parameter.

d. The default setting for Auto-Close is OFF. Press the OPEN button to move through options and the light’s brightness will change accordingly.

e. Press STOP / SET button to save the parameter’s new value or press MODE to leave the value unchanged.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value options = Indicated by brightness of main light (DEFAULT parameter underlined)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Flashes</td>
</tr>
<tr>
<td>PE AUTO-CLOSE</td>
<td>2</td>
</tr>
<tr>
<td>AUTO-CLOSE</td>
<td>3</td>
</tr>
</tbody>
</table>
15. Coding a Transmitter

15.1 Storing the Transmitter Code

The opener can only be operated from remote control transmitters that have been programmed into its memory. Up to 8 codes can be stored in the memory.

a. Press the MODE button repetitively until the TRANSMIT LED is lit.
b. Press and HOLD the button/s indicated in the table to set the required transmitter function. The Main light will start to flash rapidly.
c. Press one of the four (4) buttons on the transmitter until the main light starts to flash rapidly, then release transmitter button.
d. Press the remote control button again until the main light stops flashing rapidly.
e. Release both buttons. Press the MODE button to exit. The transmitter button is now coded, press to test.

NOTE: Refer to the Light indicator table for the details of the transmitter status.

<table>
<thead>
<tr>
<th>MAIN LIGHT</th>
<th>TRANSMITTER STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON</td>
<td>Button added</td>
</tr>
<tr>
<td>OFF</td>
<td>Button removed</td>
</tr>
<tr>
<td>2 FLASHES, then OFF</td>
<td>Remote control deleted</td>
</tr>
<tr>
<td>4 FLASHES, then OFF</td>
<td>Memory full</td>
</tr>
</tbody>
</table>

15.2 Installation of the Wall Mounted Transmitter

a. Store the transmitter code as per instructions above. Test the transmitter button.
b. Mount the transmitter in a convenient location, yet out of reach of children and at least 1.5m off the ground.
c. Make sure the door is visible from this location.

15.3 Erasing All Transmitter Codes

a. Press the MODE button repetitively until the TRANSMIT LED is lit.
b. Press and hold the MODE button for 10 secs, let the MODE button go when the main light stops flashing.
c. Follow steps a - e in Storing the Transmitter Code to code new transmitters.

15.4 Vacation Mode

a. To turn on Vacation mode and lock out all remotes, press the button on the remote programmed with Vacation Mode.
b. To turn off Vacation Mode, press the transmitter button programmed to vacation mode to turn off.

15.5 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.
16. Home Owner Safety Warnings!

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 warnings. Failure to comply with the following instructions may result in death, serious personal injury or property damage.

**WARNING! IMPORTANT SAFETY INSTRUCTIONS**

**WARNING!**
- Automatic Door - the door may operate unexpectedly, therefore do not allow anything to stay in the path of the door.
- Details on how to use manual release. 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.
- **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 does not re-open when obstructed, discontinue use. **DO NOT** use a door with faulty obstruction sensing.
- Frequently examine the installation, in particular check cables, springs and mountings for signs of wear, damage or imbalance. **DO NOT** use if repair or adjustment is needed since fault in the installation or an incorrectly balanced door may cause injury.

**ELECTROCUTION!**
- Place opener in protected area so that it does not get wet.
- **DO NOT** spray with water.
- **DO NOT** open the protective covers.
- **DO NOT** operate opener if cable is damaged. It must be replaced by the manufacturer, its service agent or similarly qualified person in order to avoid a hazard.
- Disconnect the supply(s) when cleaning or other maintenance is being carried out.

**DO NOT DO IT YOURSELF**
- Keep the garage door balanced. Sticking or binding doors must be repaired. Garage doors, door springs, brackets and their hardware are under extreme tension and can cause serious personal injury. **DO NOT** attempt any garage door adjustment. **DO NOT** use if repair or adjustment is needed. Call for a professional garage door service.

**CAUTION:**
- Emergency access
- If your 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.
- Watch the moving door and keep people away until the door is completely opened or closed. **DO NOT** operate door when persons are near the door.
- **DO NOT** allow children to play with door controls or transmitters. Keep remote controls away from children.
- The appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
- Children being supervised not to play with the appliance.
- Regularly conduct Open and Close cycle testing.
- Each month check that the drive reverses when the door contacts a 40mm high object placed on the floor. Adjust if necessary and recheck since an incorrect adjustment may present a hazard.
- Ensure the garage door is in good working order by undertaking regular servicing.
- Wall transmitters should be installed in a location where the garage door is visible, but out of the reach of children at a height of at least 1.5m.
- Install Safety Beams (recommended).
- Fall from Ladder
- Ensure ladder is the correct type for the job.
- Ensure ladder is on flat ground.
- Ensure user has 3 points of contact while on ladder.
- Entanglement in or laceration from moving door
- Keep hands and loose clothing clear of door and guides at all times.
- Keep hands clear of moving door as sharp edges can cause cuts or lacerations.
17. Opener Safety & Security

17.1 Your Door CAN NOT be used by the opener when:
   a. There is an external locking device installed.
   b. There is a power failure.

17.2 Your Door CAN be used when:
   a. There is an emergency, by disengaging the opener.
   b. There is a power failure, by disengaging the opener.

17.3 To Disengage the Opener:
   a. It is recommended to do so with the door in the closed position.
   b. Pull the manual release cord away from the door, until you hear a click.
   c. Move the door manually.

   **CAUTION:** When the opener is manually disengaged, the door is no longer locked. To lock the door manually, re-engage the opener after the door is closed.

17.4 To Re-Engage the Opener:
   a. Check the door has not been locked by a locking device.
   b. Pull the manual release cord away from the door, until you hear a click.
   c. The door will now operate from the opener.

   **CAUTION:** Do not use the string handle as a mechanism to open the door. Failure to comply may cause serious injury.

18. Operating your Opener

18.1 To Operate the opener:
   a. Press the programmed transmitter button until your door begins to move (usually 2 seconds). Make sure you can see the door when you use the transmitter.
   b. If you are in a vehicle you should aim the transmitter through your windscreen as shown.
   c. Check that the door is fully open or closed before you drive in or away.
   d. If you press the transmitter whilst the door is moving the door will stop. The next press of the transmitter will move the door in the opposite direction.

**WARNING!** 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. Do not disengage the opener to manual operation with children/persons or any objects including motor vehicles within the doorway.

**WARNING!** Tracklock is NOT active when opener is disengaged from the track.
### 19. User Operating Controls

<table>
<thead>
<tr>
<th>Button</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. DOWN ARROW (Blue)</td>
<td>Closes the door</td>
</tr>
<tr>
<td>2. DOWN ARROW LED (Blue)</td>
<td>Illuminates when the door is closed and flashes when the door is obstructed on close or stopped.</td>
</tr>
<tr>
<td>3. STOP (Red)</td>
<td>Stops the door</td>
</tr>
<tr>
<td>4. UP ARROW (Green)</td>
<td>Opens the door</td>
</tr>
<tr>
<td>5. UP ARROW LED (Green)</td>
<td>Illuminates when the door is open and flashes when the door is open with the auto-close timer running, obstructed on opening or stopped.</td>
</tr>
<tr>
<td>6. MODE (Yellow)</td>
<td>Enables Load Diagnostics Mode</td>
</tr>
<tr>
<td>7. MODE STATUS LED (Yellow)</td>
<td>Illuminates when in Diagnostics Mode</td>
</tr>
<tr>
<td>8. REMOTE CONTROL STATUS LED (Red)</td>
<td>Flashes on remote lockout and flickers on remote control activity</td>
</tr>
<tr>
<td>9. ADJUSTMENT LED (Yellow)</td>
<td>Flashes a certain number of times depending on the parameter being changed.</td>
</tr>
</tbody>
</table>
## 20. Troubleshooting

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>The opener does not work from the transmitter</td>
<td>Garage door in poor condition e.g. springs may be broken</td>
<td>Check the door’s operation</td>
</tr>
<tr>
<td></td>
<td>The opener does not have power</td>
<td>Plug a device of similar voltage (e.g. a hairdryer) into the power point and check that it is OK</td>
</tr>
<tr>
<td></td>
<td>The battery in the transmitter is flat</td>
<td>Replace the battery</td>
</tr>
<tr>
<td></td>
<td>The opener has turned on &quot;Vacation Mode&quot;</td>
<td>Turn off &quot;Vacation Mode&quot; (Section 15)</td>
</tr>
<tr>
<td></td>
<td>The transmitter button is not programmed to operate the door.</td>
<td>Code in the transmitter</td>
</tr>
<tr>
<td>One transmitter works but the other/s do not</td>
<td>Faulty transmitter</td>
<td>Replace transmitter</td>
</tr>
<tr>
<td></td>
<td>Flat battery</td>
<td>Replace battery</td>
</tr>
<tr>
<td>The chain / belt moves but the door remains stationary</td>
<td>The opener is disengaged</td>
<td>Re-engage the opener</td>
</tr>
<tr>
<td>Motor is running but chain / belt is not moving</td>
<td>Damage motor assembly</td>
<td>Contact your dealer for support.</td>
</tr>
<tr>
<td>The transmitter range varies or is restricted</td>
<td>Variations are normal depending on conditions e.g. temperature or external interference</td>
<td>Make sure you can see the door when you use the transmitter.</td>
</tr>
<tr>
<td></td>
<td>The battery life is exhausted</td>
<td>Check the battery status by pressing a button (flashing or no light, battery need changing)</td>
</tr>
<tr>
<td></td>
<td>Position of the transmitter in the motor vehicle</td>
<td>Aim the transmitter through the windscreen.</td>
</tr>
<tr>
<td>The Courtesy light does not work</td>
<td>LED has failed</td>
<td>Change LED.</td>
</tr>
<tr>
<td>The door reverses for no apparent reason</td>
<td>This may occur occasionally from environmental conditions such as areas that are windy, dusty or have extreme temperature changes.</td>
<td>Ensure the door runs smoothly before increasing the force pressure.</td>
</tr>
<tr>
<td></td>
<td>If Safety beams are installed they may be partially obstructed.</td>
<td>Ensure the beam path is not obstructed. Check the Alignment.</td>
</tr>
<tr>
<td>Door will not close</td>
<td>Safety Beam not working</td>
<td>To access safety close mode, hold the transmitter button to close for 6 seconds and continue to hold while the door closes. Check Safety Beam</td>
</tr>
<tr>
<td></td>
<td>Safety Beam battery flat</td>
<td></td>
</tr>
<tr>
<td>Auto Close not working</td>
<td>Safety Beam or wiring faulty</td>
<td>Repair Safety Beam or replace wiring.</td>
</tr>
<tr>
<td></td>
<td>Re-align optics. See Safety Beam instructions.</td>
<td></td>
</tr>
<tr>
<td>The CLOSE (Blue) LED is flashing</td>
<td>Limits are not set</td>
<td>Set Up Limits (Section 12).</td>
</tr>
</tbody>
</table>
20. Troubleshooting

**Main Light = Service / Warning Indicator:**
Requirements for a service and user warnings are indicated after operation by the main light repeatable flasing OFF a number of times followed by a pause. The below table identifies the issues and remedies.

<table>
<thead>
<tr>
<th>Flashes</th>
<th>Issue</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>PE is preventing door from moving</td>
<td>Clear away any obstructions. Test Door. If unable to move the door and suspect beam is faulty, enter Safety Beam Emergency Close by pressing and holding a pre-coded button on transmitter for more than five seconds and the door will start closing.</td>
</tr>
<tr>
<td>3</td>
<td>Wireless LOCK battery is low</td>
<td>Change LOCK battery</td>
</tr>
<tr>
<td>4</td>
<td>Wireless PE battery is low</td>
<td>Change PE Battery</td>
</tr>
<tr>
<td>5</td>
<td>Wireless LOCK is not unlocked and preventing door moving</td>
<td>Check LOCK, test by pressing emergency release button on the lock and then test door operation.</td>
</tr>
<tr>
<td>6</td>
<td>Maintenance is due after pre-set number of cycles.</td>
<td>Contact dealer to arrange service.</td>
</tr>
<tr>
<td>7</td>
<td>Standby battery is faulty</td>
<td>Contact 0800 366 462 within New Zealand for assistance</td>
</tr>
<tr>
<td>8</td>
<td>Door was obstructed</td>
<td>Clear away any obstructions and test door opens/ closes correctly. If door is damaged, contact your door professional.</td>
</tr>
<tr>
<td>9</td>
<td>Motor overloaded or stalled</td>
<td>Check the doors operation by disengaging the motor and ensuring the door runs smoothly. If necessary make door adjustments or contact your door professional.</td>
</tr>
</tbody>
</table>

**If You Need a Service Call**
If the opener needs a service please call the dealer who installed the garage door opener (their contact details are usually on a sticker on the back of your garage door). For product assistance contact 0800 366 462 within New Zealand

**BEFORE CALLING** you should have the following information to assist in providing the appropriate service:

1. Has anything happened since the opener last operated OK, e.g. a storm, a jolt to the door etc.?
2. What is the current light status on the opener?
3. Manually disengage the door (Section 17).
   How easy is it to manually open and close the door?
4. What model is the opener? (Model no. information is located at the rear of the opener)
5. Who installed the opener? (Dealer details should be on a sticker on the back of your garage door)
6. When was it installed? (If known)
21. Maintenance

21.1 Door Maintenance
A poorly maintained door could cause fatal / serious injuries or damage to property.
- Frequently examine the door, particularly the cables, springs and mountings for signs of wear, damage or imbalance. **DO NOT USE** if repair or adjustment is needed since a fault in the installation or an incorrectly balanced door may cause injury.
- Fasteners: Check all screws, nuts and bolts to ensure they are secure.
- Spring Tension: It is natural for springs to lose tension. Should the door become hard to operate or completely inoperative, contact a door professional.
- Guide Tracks: Clean the internal sections of the guide tracks every 3 - 6 months with a cloth dampened with mineral turps or methylated spirits.

**WARNING!** Failure to maintain your garage door may void the warranty on your garage door opener.

**DO NOT DO IT YOURSELF:**
Door adjustments should only be carried out by experienced persons, as this function can be dangerous if not performed under strict safety procedures.

**Do not fix yourself.**

**Run the Safety Testing procedures MONTHLY in Section 13 to ensure garage door is fit for use.**

21.2 Battery Replacement
Battery Type:
3V Lithium Battery CR2032.
- To test the battery is working, press and hold a transmitter button. Check Light Status table to determine if battery needs replacing.

<table>
<thead>
<tr>
<th>Light Status</th>
<th>Battery Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>OK</td>
</tr>
<tr>
<td>Flashing</td>
<td>Requires replacement</td>
</tr>
<tr>
<td>No light</td>
<td>Requires replacement</td>
</tr>
</tbody>
</table>

- Use finger nails to separate the transmitter casing to expose circuit board.
- Use a non-metallic object (e.g. pen) to remove the battery.

21.3 Battery Disposal
When batteries reach the end of their usual life please follow the next simple steps for protecting the environment.

**DO NOT** throw the batteries in municipal waste. This symbol of the crossed out wheeled bin indicates that the battery should not be placed in the municipal waste. Check your local regulations for appropriate disposal of the batteries.

Recycling all batteries will have other environmental and social benefits:
- Some batteries are less toxic but hazardous for other reasons. Lithium batteries can explode or catch fire in landfill, while button cells are dangerous if swallowed by children. Recycling offers a safe and environmentally responsible solution for end of life batteries.
- Battery recycling recovers non-renewable materials such as lead, cadmium, tellurium, zinc, manganese, cobalt, silver, plastics and rare earth elements.
- Removal of batteries and other hazardous household products from household waste facilitates the recovery of organic materials through alternative waste technologies such as composting. Batteries and heavy metals are known contaminants in compost.
- The community supports recycling because it reduces waste to landfill and achieves environmental benefits.

**WARNING!** Prior to disposal, recycling, or collection, all battery terminals must be securely insulated with a non conductive material to prevent any two batteries from short circuiting and generating heat during storage or transport. Battery terminals may be insulated with electrical tape; or batteries may be individually packaged in a non conductive material (e.g., plastic bag or original packaging).
## 22. Appendix

### A - Status Indication during Operating Mode.

<table>
<thead>
<tr>
<th>LEDs</th>
<th>Light Status</th>
<th>Indicates</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BLUE</td>
<td>GREEN</td>
</tr>
<tr>
<td>DOOR OPEN 2 AND CLOSED 1 LEDs</td>
<td>solid</td>
<td>flashing</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODE LED 3</td>
<td>flashing</td>
<td></td>
</tr>
<tr>
<td>REMOTE CONTROL STATUS LED 4</td>
<td>flashing</td>
<td>rapid</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

![Diagram showing LED indicators](image-url)
B - Adjustment Mode Instructions

a. Press the MODE button repetitively until the GEAR LED starts flashing.

b. Referring to the table below, select the desired parameter using the OPEN and CLOSE buttons and observing the number of flashes on the GEAR LED. The selected parameter’s value is indicated by the main light’s brightness.

c. Press STOP / SET button to start editing the parameter’s value. The TRANSMIT LED will turn on when editing is active.

d. Use the OPEN and CLOSE buttons to step through the available options. The light’s brightness will change accordingly.

e. Press STOP / SET button to save the parameter’s new value or press MODE to leave the value unchanged.

f. Continue from a. above to select another parameter or press MODE to exit adjustment mode.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value options = Indicated by brightness of main light (DEFAULT parameter underlined)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Flashes</td>
</tr>
<tr>
<td>MARGIN</td>
<td>1</td>
</tr>
<tr>
<td>PE AUTO-CLOSE</td>
<td>2</td>
</tr>
<tr>
<td>AUTO-CLOSE</td>
<td>3</td>
</tr>
<tr>
<td>LIGHT TIMER</td>
<td>4</td>
</tr>
</tbody>
</table>

* only available with firmware 55 onward

C - Adjusting Force Margins

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

To Increase / Decrease Force Pressure

a. Press the MODE button repetitively until the GEAR LED is flashing.

b. The LED will start flashing with one flash every second.

c. Press the STOP / STEP button and the MODE button LED and the TRANSMIT LED will be lit and the GEAR LED will flash once every second.

d. By pressing the OPEN button will increase the force pressure and CLOSE button will decrease the force - Main light will dim or brighten as the pressure is decreased or increased.

e. Press STOP / SET button to save the new value. (Refer to Appendix B for margin settings)

f. Test the force again as per Testing Close Cycle and Testing Open Cycle.
D - Setting Limits via Transmitter

a. Switch power on and the BLUE LED on the CLOSE button \( \) will start to flash to indicate that the opener is ready to set the Close travel limit.
b. Press the MODE button repetitively until the TRANSMIT LED is lit.
c. Press and HOLD the CLOSE button \( \) to set the Open / Stop / Close function. The Main light will start to flash rapidly.
d. Press and hold button 1 on the transmitter, then release transmitter button.
e. Press and hold button 1 on the remote control button again until the main light stops flashing rapidly.
f. Release both buttons. The transmitter button is now coded, press to test and observe the speed of the door through a full cycle.
g. The drive speed is set to the fastest setting by default. This may not be suitable for larger doors or for single piece doors:

CLOSE limit:

i. Using the programmed transmitter, press and hold the button 4 to close. To inch the door, single presses of the button 4 will move the door to desired limit.

ii. While inching (to CLOSE) to set the close speed, press and hold button 4 on the remote and by pressing the SET button 2 the opener will cycle through all three speed modes as shown in table.

iii. Once at the desired speed, release the remote button 4.

iv. Continue inching the door to the desired position. We recommend the CLOSE limit position being the first point of contact of the rubber strip (at the bottom of the door) with the ground.

v. If the door overshoots, press the OPEN button 1 on the remote to move the door in the OPEN direction.

vi. When the door is at the desired CLOSE position, press the SET button 2, the GREEN LED on the OPEN button \( \) will now flash.

OPEN limit:

i. Using the programmed transmitter, press and hold the button 1 to open. To inch the door, single presses of the button 1 will move the door to desired limit.

ii. While inching (to OPEN) to set the open speed, press and hold button 1 on the remote and by pressing the SET button 2 the opener will cycle through all three speed modes as shown in table.

iii. Once at the desired speed, release the remote button 1.

iv. Continue inching the door to the desired position. We recommend the OPEN limit position being the height of the garage opening.

v. If the door overshoots, press the CLOSE button 4 on the remote to move the door in the CLOSE direction.

vi. When the door is at the desired OPEN position, press the SET button 2. The door will now automatically close and open to calculate the safety obstruction settings.

E - Setting the PET mode position

When activated, PET mode drives the door to a preset position from the close position, therefore allowing a pet or parcel to go under the door.

a. Drive and stop the door at the desired PET mode open position by pressing the transmitter button coded for Open/Stop/Close operation.

b. Press the MODE button repetitively until the GEAR LED is lit.

c. Press OPEN button \( \) to save PET position - Main light will flash and both OPEN and CLOSE LED will light up.
F - Setting up Tilt Door

Prior to limit set up, the opener can be set to J-Type Tilt Profile. This process allows the opener to pre-set to J-Type settings where the limit is not greater than 1500mm. If J-Type is selected, the speed is customised and cannot be changed.

a. Press the MODE button repetitively until the GEAR LED starts flashing.
b. Press and hold STOP / SET button for 2 seconds to check the door type, until the main courtesy light turns solid ON or OFF.
   • Main courtesy light ON - Tilt type (J-Type only)
   • Main courtesy light OFF - Sectional type
c. Press and hold STOP / SET for 6 seconds to change the door type, until the main courtesy light turns solid ON or OFF. If required, repeat step b to check the door type selected.
d. Press MODE button to exit the door selection mode. Proceed to Section 12 to set the limits.
23. Warranty

This Warranty is given by Dominator a division of B&D Door NZ Limited, 46 Braeburn Drive, Hornby, Christchurch, New Zealand +64 3 384 5145, info@dominator.co.nz.

PLEASE NOTE:
• This Warranty is in addition to any statutory, non-excludable guarantees or warranty rights and remedies under the law. See section 5 below.
• This warranty applies to the original purchaser only and may not be transferred.
• This Warranty is to be read in conjunction with the owner’s copy of the installation instruction manual.
• In this warranty, ‘Dominator Representative’ means an entity authorized by Dominator to service Dominator products. Please check the Dominator website for details.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>WARRANTY</th>
<th>DOOR (MAX)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SECTIONAL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAD Smart</td>
<td>7 yrs / 20,000 cycles</td>
<td>236kg</td>
</tr>
<tr>
<td>CAD Secure</td>
<td>7 yrs / 20,000 cycles</td>
<td>236kg</td>
</tr>
<tr>
<td>CAD S</td>
<td>7 yrs / 20,000 cycles</td>
<td>175kg</td>
</tr>
<tr>
<td>Select</td>
<td>5 yrs / 10,000 cycles</td>
<td>140kg</td>
</tr>
<tr>
<td>Panel Pro</td>
<td>5 yrs / 10,000 cycles</td>
<td>110kg</td>
</tr>
<tr>
<td>ROLLING</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAD PowerDrive</td>
<td>7 yrs / 20,000 cycles</td>
<td>110kg</td>
</tr>
<tr>
<td>EXTRAS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TRACK ASSEMBLY</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td>(includes all parts)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TRANSMITTERS &amp;</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td>ACCESSORIES</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTE: CONSUMABLES (eg Batteries in remote control transmitters and light bulbs and fuses) are not covered by this warranty.

1. MAKING A CLAIM
(a) The product parts in the above table should operate in accordance with the product manual for the time period shown or for the number of cycles, whichever occurs first, provided you comply with the manufacturer’s instructions concerning installation, operation, maintenance and testing. Failure to do so may void all or part of this warranty.
(b) During the relevant warranty period, a product part in the table above appears to contain a defect, call the retailer from whom you purchased the product, or Dominator on 0800 366 462, and they will instruct you what to do next.
(c) You are responsible for the cost of making a claim under this Warranty. Additional access expenses where the Product is not readily accessible must be borne by you.
(d) If Dominator or Dominator’s Representative confirms the product is defective and covered by this Warranty, Dominator will repair or replace it (at Dominator’s sole option) at no cost to you. Goods presented for repair may be replaced or repaired by refurbished goods or parts of the same type.

2. WARRANTY CONDITIONS
It is a condition of this warranty that:
(a) you provide a copy of the receipt of original purchase of the product, and the serial number of the Product which can be found on the label adhered to the Product.
(b) the door and opener are properly maintained by being serviced by a qualified professional at regular, appropriate intervals. What is appropriate may vary based on environmental factors (eg, weather, salt exposure) and level of usage. Based on average use and environmental conditions, Dominator recommends that the product is serviced by Dominator or a Dominator Representative, within 12 months of installation (to allow for new doors to settle) and at regular intervals not exceeding 2 years.

3. WARRANTY EXCLUSIONS
This warranty excludes defects or improper operation resulting from:
(a) excessive wear and tear that may cause the product to fail;
(b) accidental, deliberate or negligent damage or damage cause by insects, dirt, plants or other objects;
(c) blown fuses, electrical surges, power surges or power spikes or faulty or unsuitable electrical wiring of structures to which the product is affixed;
(d) theft, fire, flood, rain, water, lightning, storms or any other acts of God;
(e) salt or other corrosion due to environmental conditions,
(f) any installation, configuration or use of the product contrary to the instructions supplied with the product;
(g) maximum continuous operating time exceeding 1 minute in10 minutes;
(h) the manual operating (opening and closing) force of the door by hand exceeding 20kg;
(i) weight exceeding amounts listed in table above;
(j) the door used with the product not being in safe working order and condition;
(k) any modification to the product or acts of any person in respect of the product which are not authorized by Dominator and which impact Product performance;
(l) installation of a residential garage door opener in a commercial or industrial premises or in a dwelling other than a single-family dwelling;
(m) radio or electrical interference or lack of availability of signal.

4. OTHER CONDITIONS
(a) This Warranty is not transferable.
(b) The warranty period stated in the table will not be extended for Products or parts repaired or replaced during the relevant warranty period.
(c) Where the Product is sold by any person other than Dominator, except for the warranty set out above, such person has no authority from Dominator to give any warranty or guarantee on Dominator’s behalf in addition to the warranty set out above.

5. STATUTORY GUARANTEES OR WARRANTIES IN AUSTRALIA
If you are a consumer under the Consumer Guarantees Act (NZ) (the ‘Act’), our goods come with guarantees that cannot be excluded under the Act. This warranty certificate and other documents or statements provided by Dominator do not exclude, restrict or modify the application of the Act or the exercise of rights conferred by other statutory provisions which cannot be excluded, restricted or modified.

To the extent permitted by the Act or other laws, Dominator:
(a) limits its liability for breach of a statutory guarantee to the payment of the cost of replacing the Product or acquiring an equivalent Product; and
(b) expressly excludes any liability for consequential loss and incidental or indirect damages (including but not limited to damages for loss of business profits, income, business, goodwill or reputation, or business interruption) due to a defect of the Product.