WARNING: It is vital for the safety of persons to follow all instructions. Failure to comply with the installation instructions and the safety warnings may result in serious personal injury and/or property and remote control opener damage. Please save these instructions for future reference.

Automatic Technology Australia Pty Ltd to the extent that such may be lawfully excluded hereby expressly disclaims all conditions or warranties, statutory or otherwise which may be implied by laws as conditions or warranties of purchase of an Automatic Technology Australia Pty Ltd Garage Door Opener. Automatic Technology Australia Pty Ltd hereby further expressly excludes all or any liability for any injury, damage, cost, expense or claim whatsoever suffered by any person as a result whether directly or indirectly from failure to install the Automatic Technology Australia Pty Ltd Garage Door Opener in accordance with these installation instructions.
# GDO-10V2L2 Toro™
## Roll Up Garage Door Opener

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Important Safety Instructions

WARNING: It is vital for the safety of people to follow all instructions. Failure to comply with the following safety instructions may result in serious personal injury and/or property damage.

CAUTION: 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.

Automatic Technology strongly recommends Safety Beams are installed with the automatic opener ensuring additional safety and peace of mind.

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.

DO NOT operate the opener when children/people are near the door. Children must be supervised at all times when the opener is in use. Serious personal injury and/or property damage can result from failure to follow this warning.

DO NOT allow children to operate the opener. Serious personal injury and/or property damage can result from failure to follow this warning.

Regularly check to make sure that the Safety Obstruction Force is working correctly, and is tested and set as per page 19 of this manual. Failure to follow these instructions could result in serious personal injury and/or property damage. This test must be repeated at regular intervals and the necessary adjustments made as required.

A Safety Beam must be used, if the closing force as measured on the bottom of the door is over 400N (40kg).

DO NOT disengage the door opener to manual operation with children/people or any other objects including motor vehicles within the doorway.

The door opener is not intended for use by young children or infirm persons without adequate supervision. Children should be supervised to ensure that they do not play with the remote transmitters or the opener.

Keep hands and loose clothing clear of the door and door opener at all times.

The unit should be installed so that it is protected from the elements. It should not be exposed to water or rain. It is not to be immersed in water or sprayed directly by a hose or other device.
Important Safety Instructions

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.

Frequently examine the installation 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. DO NOT attempt to repair the door yourself as hardware is under extreme tension.

Remove or disengage all garage door locks and mechanisms prior to installation of the opener.

Connect the opener to a properly earthed general purpose 240V mains power outlet installed by a qualified electrical contractor.

Disconnect the power cord from mains power and backup batteries before making any repairs or removing covers. Only experienced service personnel should remove covers from the opener.

When using Auto-Close mode, a Safety 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.

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 damage or injury.

If the power supply cord is damaged, it must be replaced by an Automatic Technology service agent or garage door professional.

Make sure that the door is fully open before driving in or out of the garage and fully closed before leaving the driveway.

Make sure that remote controls are kept out of reach of children.

Install the wall transmitter in a location where the garage door is visible, at a height of at least 1.5m, out of the reach of children.
Features

Thank you for purchasing the Automatic Technology Toro™ Automatic Garage Door Opener. Designed by our renowned engineers to suit roll up doors, the Toro™ will provide years of smart, simple & secure convenience to your home.

Operation
To open or close the door simply press the open or close button on the wall control unit, a button on a coded TrioCode™ hand held transmitter, optional wall mounted transmitter, or optional wall switch for two seconds. During open and close cycles, the door can be stopped by pressing the button again or by pressing the stop button on the wall control unit.

TrioCode™ Code Hopping Technology
Every time a TrioCode™ transmitter is used, a new security code is randomly generated from over 4.29 billion possibilities. This greatly enhances the security of the system and makes "code grabbing" a thing of the past.

These transmitters also overcome interference issues by simultaneously sending a signal over three slightly different frequencies. Even if two of the three signals are jammed, the system will still work.

M-ALPS (Magnetic Automatic Limits Positioning System)
M-ALPS does away with manual adjustment of the door’s limits position using mechanical parts, such as cams and microswitches. During installation the hand held transmitter can be programmed to set the door limit positions.

ISS (Intelligent Safety Obstruction System)
While the door is performing a close cycle, should it hit an obstacle or be restricted in some manner, it will automatically reverse. The amount of force the door should encounter before reversing is automatically adjusted by the doors control system during the initial installation of the automatic door opener. The door will also stop if restricted whilst opening. The Safety Obstruction Force should be checked monthly.

Auto Courtesy Light
The courtesy light (if connected) comes on automatically for one minute whenever the door is activated. The light can also be operated independently of the door by coding a dedicated button on a transmitter.
SmartSolar™ Compatibility (Optional)
The opener can be fitted with a SmartSolar™ kit (Part Number 60142) for operation where mains power access is not available. **NOTE:** If the door is the only entrance to the garage, a keyed cable release should be fitted external to the garage.

**Vacation Mode**
A hand held transmitter can be programmed to lock and unlock all other transmitters that have been programmed into the openers’ memory. The Vacation Mode can be used when the door is left idle for long periods of time.

**Pet/Pedestrian Mode**
The transmitter can be programmed to open the door to an adjustable partial height so that the family pet can enter and exit the garage at any time. You may also wish to open the door to a height suitable only for pedestrian access.

**Auto-Close Mode**
The opener can be programmed to automatically close after an open cycle. The Auto-Close time is adjustable. It is compulsory to install a Safety Beam if this mode is selected, otherwise the door may cause personal injury or damage to property.

**Safety Beams (S.B)**
The opener has three inputs to connect one, two or three Safety Beams for extra safety and use of the Auto-Close mode.

**Manual Operation**
The opener is equipped with a unique patented manual disengaging device. If the power to the opener is disrupted for any reason, the door can be put into manual mode by pulling down on the string handle, then releasing. This will allow you to manually open or close the door. When power is restored, by pulling down on the string handle and releasing, the opener is put back into automatic mode.
Controller Input And Outputs

- Light Relay Output N/O, Com, N/C Contact
- Lock Relay Output N/O, Com, N/C Contact
- Serial Interface Connector
- 12 volts 6 Amp - Hr Batteries
- Engage/Disengagement Handle
- Standby Battery Charger/Solar Connector
- Solar Shunt
- Standby Battery Shunt
- Motor Connector
- 10 Amps Slow Blow Fuse
- 24 Volts Ac In Connector
- Position Sensor Connector
Operating Controls

Terminal Block (From Left To Right)

13
- AUX OUT Receiver's Auxiliary Output
- V+ Accessory Supply
- SB3 Third Safety Beam Input
- SB2 Second Safety Beam Input
- SB1 First Safety Beam Input
- 0V Common For Safety Beams
- 0V Common Terminal For Control Inputs
- FIRE N/O, N/C Input Terminal
- GPI N/O Input Terminal
- OPN N/O, N/C Input Terminal
- STP N/O, N/C Input Terminal
- CLS N/O Input Terminal

14
- Programmer PG-3 Input

15
- Console Previous Button

16
- Liquid Crystal Display

17
- Console Next Button

18
- Console Open Button

19
- Console Stop Button

20
- Console Set Button

21
- Console Close Button
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<td>Wall Control Unit L2</td>
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<td>Network Cable</td>
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![Diagram of package contents](image)
Pre-Installation Requirements

IMPORTANT SAFETY INSTRUCTIONS FOR INSTALLATION
Warning: Incorrect installation can lead to severe injury.
Follow ALL installation instructions.

NOTE: Planetary chain equipment must be removed from the door prior to installation of GDO-10V2L2.

Door Operation
The door must be in good operating condition. The maximum effort to move the door up or down, from stationary, should not exceed 150 Newtons (15 kg force) at the bottom rail.

Lift the door to about halfway. When released, the door should stay in place supported entirely by its springs. Raise and lower the door to check for binding or sticking.

The door may need to be serviced to meet these requirements – refer to the door manufacturer’s servicing instructions or contact an authorised dealer.

Unsuitable Door Types
The fitting of an opener to doors with removable mullions or doors incorporating a wicket door is not recommended.

Position
The opener can be installed on either the right or left hand side of the door (when viewed from inside the garage). The opener is factory set for right hand side installation.

This opener must be installed in a dry position that is protected from the weather. Moisture or corrosion damage is not covered by the Warranty.

Power Supply
Properly earthed 3 pin single-phase power is required.

WARNING! Using a portable power generator is not recommended. The opener may appear to malfunction due to spikes, surges and fluctuations in the generated voltage.

Sideroom For Right Hand Side Installation
The minimum sideroom required from the edge of the door curtain is 140 mm to the inside of the door bracket when the opener is mounted on the door bracket (Fig. 04).

NOTE: The door axle diameter must not exceed 35mm.
Installation

Sideroom For Left Hand Side Installation
The minimum sideroom required from the edge of the door curtain is 127 mm to the inside of the door bracket when the opener is mounted on the door bracket (Fig. 05).

Step 1 - Preparation
a. Check the door’s operation:
   i. The door must travel smoothly and be easy to operate by hand.
   ii. Adjust any tight or twisted guides.
   iii. Clean the guides if there is any oil or wax present using a suitable white spirit. The only lubricant suitable for use on door guides is silicon spray. DO NOT use WD-40, RP-7, petroleum grease, or similar.

b. Install the locking bar covers if there are locking bar holes in the guides.

c. IMPORTANT NOTE - Do not lock your door with the locking bars after installing the opener. Remove or disable the lock. Security is not affected as the opener has an inbuilt locking facility.

d. Choose the side where the opener will be installed ensuring there is sufficient sideroom.

Check that the door is still balanced and smooth to operate. If it is not, the door may require servicing (refer to door manufacturer’s instructions).

Step 2 - Fitting The Opener
a. At the end opposite to where the opener will be fitted, check that the door axle is tightened to the bracket securely. (Fig. 06)

b. Open the door completely and tie safety ropes around the door roll approximately 300 mm from each end. Do not tie the ropes too tight as damage to the curtain may ensue.

c. At the end where the opener is to be fitted, support the door with a safe and suitable lifter.

WARNING! Make sure the support is snug under the door, is stable and will not move.

d. At the end where the opener will be fitted, use pen to mark the position of the saddle on the door bracket and the position of the door bracket on the wall to assist in reassembling.

e. Remove the bolts and saddle from the door bracket.

f. Remove the door bracket allowing the door to rest on the support

NOTE - For minimum sideroom installations, the door may have to be taken down.

WARNING! The opener must not be used with a door incorporating a wicket door.

WARNING! The door and its springs are under significant tension. Adjustments should only be carried out by experienced persons, as this function can be dangerous if not performed under strict safety procedures.
Installation

Step 3 - Mounting The Opener

a. If the internal gear does not rotate freely, switch the opener to manual by pulling the disengagement handle down (there will be a click), so the ring gear can be rotated by hand.

b. Slide the opener over the door axle and into the drum of the door (Fig. 07).

c. Ensure the internal gear is pushed in as far as possible (without interfering with the door curtain) and that all of the door drum’s wheel spokes are completely between the opener’s drive forks.

d. Re-attach the door bracket using your reference marks as a guide and tighten the bolts. Ensure that the slots in the mounting bracket of the opener align with the slots in the door bracket, otherwise the door bracket may have to be relocated. If the bracket cannot be relocated, the opener may be fitted onto the axle using the opener’s saddle and bolts as follows:

i. Using your reference marks as a guide, sit the opener on the door mounting bracket and secure with the opener’s bolts and saddle and tighten firmly (Fig. 08).

ii. Adjust the door position (if necessary) on the brackets so that the door feeds smoothly into the guides. Make sure that the centre of the door doesn’t hit the lintel and that the curtain is not pushed forward hard into the guide.

e. Remove the support and safety ropes.

IMPORTANT NOTE - If the manual release handle is more than 1.8 metres from floor level when the opener is installed, extend the handle to a height less than 1.8 metres.

Step 4 - Installing The Wall Mounted Control Unit

a. Remove the face cover from the wall mount control unit.

b. Affix the wall mount control unit at a height of 1.5 metres within sight of the door but away from moving parts. Make sure this location of the wall control unit is out of reach of children and convenient to the customer.

c. Replace the face cover.

d. Connect the network cable from the wall control unit to the GDO-10V2L2 powerhead unit and secure with p clips (supplied).

e. Connect the power cord to a suitable power point, but DO NOT SWITCH ON. Secure the power cord away from any moving object (e.g. the door) with the cable clips.

f. With the opener still disengaged, pull the door up and down to make sure it runs freely.
Safety Beams Installation

Step 5 - Safety Beams
Safety Beams extend across the garage door opening. The Safety Beam is designed to detect an obstruction while the door is closing and to send a signal to the garage door opener to reverse or stop the door movement. One, two or three sets of Safety Beams can be connected to GDO10V2L2 opener.

Step 5.1 - Fitting the Safety Beam
a. Attach the mounting bracket (4) to the adjustment bracket (3) with the pan head screw (6) (supplied). (Fig. 09)

b. Attach the bracket (2) to the Safety Beam transmitter with four taptite screws (m3x5) and attach the other side to the adjustment bracket (3) with the pan head screw (6). (Fig. 10)

c. Repeat steps a and b to assemble the Safety Beam receiver.

Locate the Safety Beam in a strategic location in the doorway. Automatic Technology recommend that the sensor is placed 100mm above the floor level and as close as possible to the door opening. Connect as per the wiring diagram (Fig. 11).

Step 5.2 - Alignment
a. Power up the GDO10V2L2 with the Safety Beam connected. The green LED on the transmitter should turn ON to indicate power is present.

b. If the receiver is connected to power and the red LED is flashing while the green LED on the transmitter is on, the transmitter and receiver are not aligned.

c. Make horizontal and/or vertical adjustment on the transmitter and/or receiver until the red LED on the receiver turns on, indicating alignment.

NOTE: The sensors need to be 100mm above the floor level however, The exact position must be chosen in such a manner that it suits the application, the environmental conditions and provides maximum safety protection.

WARNING: Install the Safety Beam as per diagram in (Fig. 03). Tampering with the Safety Beam could result in serious personal injury and/or property damage and will void the warranty.

WARNING: Safety Beam must be installed if the closing force as measured at the bottom edge of the door exceeds 400N (40kg).

NOTE: Three wire safety beam is not compatible with GDO-10V2L2 opener.
Programming The Opener

Menu structure

NOTES
1. Press PREV/NEXT buttons move to Left/Right.
2. Press OPEN/CLOSE buttons to change setting.
3. Press SET button to save changes.
4. Press STOP to return to MENU without saving changes.

NOTE: System will automatically return to the main screen after 30 secs if a menu screen is displayed and no buttons are pressed.
Viewing and Editing Parameters

This section illustrates how to locate, view and adjust parameters.

**Locating parameters**
Refer to **MENU STRUCTURE** on Page 15 or the preceding section for **CONTROL BOARD ADJUSTMENTS**. Locate the required parameter and note the MENU number. The example used in (Fig. 12) displays “CLOSE LOCK TIME”

**Changing Setting**
1. Press NEXT/PREV to navigate to the required menu.
2. Press SET to show the sub-menu.
3. Press NEXT/PREV to go to the required sub-menu.
4. Press OPEN/CLOSE to change parameter setting. Holding the button down causes the parameter’s value to change rapidly. The longer the button is held the faster the value changes.
5. Press SET to SAVE setting.

**Reload Default Setting**
1. Press NEXT/PREV buttons to display LOAD DEFAULT screen.
2. Press SET to load the default value.

**Return To Menu**
If the parameter’s value is not to be changed, press STOP to return to the sub menu. Press STOP again to return to the MAIN SCREEN.
Setting Limits

Step 6.1 - Setting Travel Limits

**WARNING!** Use caution when operating the manual release with the door open since it may fall rapidly due to weak or broken springs, or an improperly balanced door. **CAUTION!** Do not disengage the opener to manual operation with children, persons or any objects including motor vehicles within the doorway.

- Secure the engage/disengage handle and string with the accessory supplied in such a manner so that the string is away from the moving parts.
- Move the door to half way open. If necessary, disengage the opener by pulling the cord down (Fig. 14). Re-engage the opener by pulling the cord down again.
- Turn on the power to the opener. The controller will go through a start up sequence.
- After a short delay the MAIN SCREEN (Fig. 15) will be displayed. If this is the first time the GDO-10v2L2 is being used, the MAIN SCREEN should enter into limit set mode and the blue close LED will be flashing. If the display shows that an input is active, then rectify the situation before continuing with the procedure for setting the travel limits. Press and hold the CLOSE button - the door should start closing.
  - If the door opens, release the CLOSE button and press the STOP button once to change the motor’s direction. Press and hold the CLOSE button until close position of the door is reached.
  - If the door overshoots press the OPEN button to move the door in the open direction.
- When the door is at the desired close position, press the SET button to record the close limit position. The display will change and green open LED will start to flash (Fig. 16).
- Press and hold the OPEN button to open the door. When the door is at the desired open position, release the OPEN button.
  - If the door overshoots, press the CLOSE button to move the door in the CLOSE direction.

**WARNING!** Once the next step is performed, the door will automatically close and open to calculate force settings. Keep persons and objects clear of the door.

- Press the SET button to store the open limit. The door will now automatically close and open to calculate the safety obstruction settings. After this, if Safety Beam is installed, the opener can be operated with the OPEN or CLOSE button on the wall control unit or from the transmitter. Otherwise, the controller will be loaded with “Safety Close Mode.” See Control Board Adjustments (Page 29) for further details.
Setting Limits: Via Transmitter

The GDO-10V2L2 has the alternate ability to set travel limits using the transmitter, allowing free movement around the garage to better assess the desired limit positions. In order to use a transmitter, it must first have at least one of its buttons coded to the door controller. The function assigned to the transmitter’s buttons is of no concern here as the buttons are temporarily assigned to OPEN, CLOSE and SET (Fig. 18).

**Step 7 - Code A Transmitter For Limit Setting**

**Step 7.1 - Navigating to “code transmitter” menu**
1. Press NEXT to navigate to Menu 1.
2. Press SET to enter the code set procedure (Fig. 17).

**Step 7.2 - Storing Transmitter Code**
1. Controller will prompt to press one of the transmitter’s button.
2. Press the transmitter button you wish to use to operate the door opener (e.g. button 1).
3. Press the same transmitter button again as prompted by display.
4. Press the set button to store the transmitter.

**Step 7.3 - Navigating To “Set Door Travel Menu”**
1. Press PREV to navigate to Menu 10.
2. Press SET to display MENU 10.1.
3. Press SET two times to enter the limit setting procedure. The close blue LED will start to flash.

**Setting Limits Via Transmitter**
Press and hold Button 4 on the transmitter to close the door.

- If the door opens, release button 4 and press the stop button once on the wall control unit to change the direction of the motor. Then press and hold Button 4 on the transmitter to close the door.

- If the door is closed too far, press Button 1 to “inch” the door towards open. When happy with the close limit position, press Button 2 to store this in the memory. The open green LED will start to flash. Press Button 1 to open the door.

- If the door is opened too far, press Button 4 to “inch” the door towards close

**WARNING:** The door will automatically close and open once next step is performed. Ensure that no persons or objects are in the door’s path.

When happy with the open limit position, press Button 2 on the transmitter to store into memory. The door will now automatically close and open to calculate the safety obstruction settings. After this, if Safety Beam is installed, then the opener can be operated with the OPEN or CLOSE button on the wall control unit or from the transmitter. Otherwise, the controller will be loaded with “Safety Close Mode”. See Control Board Adjustments (Page 29) for further details.
Safety Obstruction Force

Safety Obstruction Force Test

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

Step 8.1 - Testing Close Cycle
a. Press the OPEN button to open the door.
b. Place a piece of timber approximately 40mm high on the floor directly under the door (Fig. 19).
c. Press the CLOSE button to close the door. The door should strike the object and start to re-open.

Step 8.2 - Testing Open Cycle
a. Press the CLOSE button to close the door.
b. Press the OPEN button to open the door. When the door reaches the half open point, grab the bottom rail of the door firmly and the door should stop.
c. If the door does not reverse readily when closing, or stop when opening, the force may be excessive and need adjusting.

⚠️ DANGER! If the door fails these tests, put the opener into manual mode, only operate the door by hand and call for service.
Adjusting Safety Obstruction Force

**Safety Obstruction Force**
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.

**WARNING:** The Safety Beam must be used if the closing force as measured on the bottom of the door is over 400N (40kg).

**Step 9.1 - Force Pressure For Close Cycle. Navigating To “Current Trips”**
1. Press NEXT or PREV to navigate to Menu 2 Current Trips.
2. Press SET (Fig. 20)
3. MENU 2.1: CLOSE Margin is displayed (Fig. 21).
4. Press OPEN to increase or CLOSE to decrease the value.
5. Press SET to save the new value.
6. Test the force again as per “Safety Obstruction Force Test” on page 19.

**Step 9.2 - Force Pressure For OPEN Cycle. Navigating To “Current Trips”**
1. Press NEXT to navigate to the Menu 2 Current Trips.
2. Press SET (Fig. 20)
3. Press NEXT.
4. MENU 2.2: OPEN Margin is displayed (Fig. 22).
5. Press OPEN to increase or CLOSE to decrease the value.
6. Press SET to save the new value.
7. Test the force again as per “Safety Obstruction Force Test” on page 19.

**Step 9.3 - To Recalculate Force Margins**

- a. Reprofiling 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, simply locate “MENU 10.2 Reprofile Travel”, press SET and follow the prompts. The door will start to move and re-calculate force margins. The door can move between the open and close limit positions up to two (2) times (depending on the position of the door and the power up condition).
- b. A single beep will be heard once the process is complete.
- c. Test the force again as per “Safety Obstruction Force Test” on page 19.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min</th>
<th>Max</th>
<th>Default</th>
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<td>2.0</td>
<td>0.7</td>
<td>0.1</td>
<td>AMPS</td>
<td>2.1</td>
</tr>
<tr>
<td>OPEN MARGIN</td>
<td>0.0</td>
<td>2.0</td>
<td>0.9</td>
<td>0.1</td>
<td>AMPS</td>
<td>2.2</td>
</tr>
<tr>
<td>OBST REVERSE TIME</td>
<td>5.0</td>
<td>60</td>
<td>FULL</td>
<td>1.0</td>
<td>SEC</td>
<td>2.3</td>
</tr>
</tbody>
</table>
Coding Transmitter

The GDO-10V2L2 can store up to five hundred and eleven (511) transmitters in its memory. Each transmitter can be allocated an alpha-numeric ID label up to eleven (11) characters in length and each button can be assigned to one of several control functions. The settings for a transmitter are represented in Fig. 23. It shows the transmitter’s store number, ID label or serial number and the functions assigned to each of its four buttons. To toggle between ID/SN display, press UP/DOWN with the cursor on the ID/SN indicator. The procedures below code, delete, replace, edit and copy transmitter records.

**Step 10 - Coding Transmitter Button**

Navigating To Menu 1 “Code Transmitter”
1. Press NEXT to navigate to Menu 1 (Fig. 24).
2. Press SET to enter the code set procedure.

Storing Transmitter Code
1. The controller will prompt to press one of the transmitter’s buttons.
2. Press the transmitter button you wish to use to operate the Door Opener (e.g. button 1) (Fig. 25).
3. Press the same transmitter button again as prompted by the display (Fig. 26).

Selecting Function Of The Button
The controller will now show the transmitter’s record, with a cursor on the field for the button being coded (Fig. 27). Use OPEN/CLOSE to select the function for the button.

**Available functions:**
- OSC (Open/Stop/Close)
- PED (Pedestrian access)
- SWP (Swipe)
- CLS (Close)
- OPN (Open)
- STP (Stop)
- LGT (Courtesy Light)
- VAC (Vacation Mode)
- AUX (Auxiliary)
- OFF (No action)

**NOTE:** OSC will change to OS in the case where Safety Beam is not installed.

Press SET to save the settings or STOP to abort without saving (Fig. 28).

Returning To Main Screen
The “Code Transmitter” menu will now be shown. Press STOP to return to the MAIN SCREEN and test the transmitter.

**NOTE:** To edit the other settings, refer to Transmitter Edit Procedure.
Transmitter Editing

Editing Transmitter Settings

Display Transmitter Record
Using one of the methods below, display the required transmitters details.

Navigating To “Edit Transmitter” Menu
1. Press NEXT to navigate to Menu 1 (Fig. 29).
2. Press SET to enter the transmitter edit procedure.
3. Press NEXT to enter transmitter list and edit mode.

Editing Button Function Field
1. Press NEXT or PREV to move the cursor to the left or right and between the top and bottom lines to select the desired field.
2. Press OPEN or CLOSE to change the displayed value (Fig. 30). The available functions are shown below. Selecting OFF will prevent the opener responding to that button.

Available functions
- OSC (Open/Stop/Close)
- PED (Pedestrian access)
- SWP (Swipe)
- CLS (Close)
- OPN (Open)
- STP (Stop)
- LGT (Courtesy Light)
- VAC (Vacation Mode)
- AUX (Auxiliary)
- OFF (No action)

NOTE: OSC will change to OS in the case where Safety Beam is not installed.

3. Press SET to save changes or press NEXT or PREV to move to the next field. The example in (Fig. 31) shows that PED is assigned to the transmitter button 2. The transmitter in the example is transmitter number 14 which has the ID label AB Smith.

NOTE: If all button functions are set to OFF, when SET is pressed, the opener will prompt to confirm if the transmitter is to be deleted. Press SET to delete or STOP to continue editing.
Transmitter Editing (cont.)

Editing The Store Location
This feature is only available when coding the first button of a new transmitter.
1. Press NEXT or PREV to move the cursor over Store No. (Fig. 32)
2. Press UP or DOWN to select new Store No.
3. Press SET to Confirm or NEXT/PREV to move to the next field.

This is useful when managing transmitters using a scheme which ties the store location to the transmitter’s owner.

Selection Of ID or Serial Number Display
1. Press NEXT to navigate to the Menu 1 “Code Transmitter” (Fig. 33).
2. Press SET to enter the transmitter edit procedure.
3. Press NEXT to enter transmitter list and edit mode.
4. Press NEXT/PREV to move the cursor over the ID field.
5. Press NEXT to reveal the Serial Number (Fig. 34).

The serial number display is provided for additional means of identification. The transmitter in this example has serial number 12345.

Editing A Character Field
1. Press NEXT or PREV to move select character. (Fig. 35)
2. Press UP or DOWN to scroll through and select a new character.
3. Press NEXT or PREV to move to the next character.
4. Repeat step 2.
5. Press SET to record changes.

The second line of the display shows a list of available characters with the current value indicated at the cursor position (Fig. 36).
Transmitter Management

The GDO-10V2L2 provides a transmitter listing facility which enables the user to find a transmitter location within the memory. Once located a stored transmitter can be replaced, deleted, edited, copied or, if the location is empty, a new transmitter can be coded.

Method 1 - Go To The Start Of The List
Step 11 - Accessing The List Menu
1. Press NEXT to navigate to Menu 1 (Fig. 37).
2. Press SET to enter the transmitter edit procedure.
3. Press NEXT to enter the transmitter list and edit mode.

Method 2 - Use The Transmitter To Go Direct To The List
Step 11.1 - Accessing The List Menu
1. Press NEXT to navigate to Menu 1 (Fig. 37).
2. Press SET to enter the transmitter edit procedure.
3. Press the transmitter once (Fig. 38).
4. Press NEXT to view the transmitter parameters (Fig. 39). This method is used for quick navigation if the transmitter is available.

NOTE: “VIEW” will not be shown if the transmitter is not stored. Once the list is displayed, it can be sorted by stored number, ID Label or Serial Number. Use the NEXT or PREV buttons to select the sorting method.

NOTE: When sorting by ID label or S/N, only stored transmitters locations are displayed.

Step 11.2 - Navigating The List
1. Press the OPEN or CLOSE buttons to navigate through the list (Fig. 40).

NOTE: Holding a button down will step through the list faster.

2. Press SET to display the menu of available functions.

Selecting An Operation
Press NEXT or PREV to cycle through the four menu options (Fig. 41-43). Press STOP to return to the list. Press SET to execute the menu’s operation.

Code Operation (location empty)
If the code operation is selected on an empty transmitter location, the BASIC CODE TRANSMITTER PROCEDURE will be initiated with the transmitter being saved in the selected location. This is useful when managing transmitters using a scheme which ties the store location to the transmitter’s owner.
Transmitter Management

Code Operation (location used)
If the code operation is selected for a location that already contains a transmitter, then the BASIC CODE TRANSmitter PROCEDURE will be initiated and the new transmitter will replace the existing one. Note that the button functions and name of the existing transmitter will be transferred to the new transmitter. This procedure is of great convenience when replacing a lost transmitter.

Delete Operation
The delete operation is used to remove a transmitter from memory along with the name and button function settings.

Edit Operation
The edit operation displays the transmitter record for editing purposes. See TRANSMITTER EDIT PROCEDURE for details.

Copy Operation
The copy operation is used to code multiple transmitters with the same button function as that of the selected transmitter. Once selected an abbreviated code set routine is initiated which repeats steps 2 & 3 of the BASIC CODE TRANSMITTER PROCEDURE for each transmitter to be coded. Coding is terminated by pressing the STOP button.

Exiting The List
To exit the transmitter list, simply press STOP to return to the Code menu.
Remote Coding Transmitters

If a transmitter is already coded into the opener, additional transmitters can be coded without being in direct contact with the opener’s control panel.

**NOTE:** Only the function of the existing transmitter button can be assigned to new transmitter. Please read instructions prior to proceeding - there is a time-out facility for security reasons.

**Step 12.1 - Selecting The Function To Be Coded**
Using the existing transmitter, operate the door with the transmitter button which has the function to be coded (Fig. 45) (e.g. Button 1 has been coded with the OSC function assigned).

**Step 12.2 - Wait For Door To Complete Cycle**
If the button’s function activates the door (PED, SWP, OSC, CLS, STP or OPN) wait for the door to complete its cycle.

**Step 12.3 - Activate Remote Code Set Mode**
Use a small pin to press and hold through the Coding Hole of the existing transmitter for 2 seconds (Fig. 46).

**Step 12.4 - Code New Transmitter Button**
Within 10 seconds, press the button on the new transmitter you wish to code for 2 seconds (Fig. 47).

**Step 12.5 - Confirm The Transmitter Button To Be Coded**
Press the same button again (within 10 seconds) for confirmation.

**Step 12.6 - Test Operation**
The new transmitter button should now function as the existing transmitter.

**NOTE:** When a transmitter is remotely coded, its ID label is set to that of the existing transmitter. If the existing transmitter does not have an ID label assigned, then the ID label of the new transmitter is set to: R/C Tx ###, where ### is the existing transmitters store number. This ensures that the originator of any remotely coded transmitter can be identified.
Setting Pedestrian Position

Pedestrian Access Position
After completing the limit setup procedure the Pedestrian Access position is automatically set to a position which is approximately in the middle of the door travel. The position can be manually set by following the Setting Pedestrian Position procedure.

Step 13.1 - Setting Pedestrian Position
1. Drive and stop the door at the desired Pedestrian Access position by using a transmitter or wall control unit.
2. Press PREV to navigate to Menu 10.
3. Press SET. MENU 10.1 will be displayed.
4. Press NEXT to go to MENU 10.3
5. Press SET on the wall control unit to save the Pedestrian Access position (Fig. 48).
6. Press the STOP button to exit to the main screen.

Step 13.2 - Checking Pedestrian Position
When activated by a transmitter button which is coded as Ped mode, the opener drives the door to the preset position from either above or below. Ped Mode’s active status is indicated on the display (Fig. 49). If a Ped Mode button is pressed while the door is moving, the door will stop. If a Ped Mode button is pressed when the door is in the Ped position, then the door will close.

Errors During Setting Of Travel Limits And Pedestrian Position
During the above procedure many error checks are performed. If an error is detected, a message will be displayed indicating the error.

Standard Operating Modes

This section describes the standard operation of the control board with the factory set default values.

Motor Control
The controller drives the motor in the direction determined by the control inputs. Once a cycle is started the motor will continue to travel until:

1. The controller is instructed to stop by a control input; or,
2. The travel limit of the opener is reached; or,
3. The motor is obstructed, overloaded or stalls. When the control inputs instruct the control board to change the motor direction, the controller brakes the motor, waits for the door to stop moving and then starts the motor in the opposite direction.

Motor Obstruction Detection
If the door is obstructed while opening, it will stop. If it is obstructed while closing, the door will stop and then reverse to the open position. Obstruction detection monitors the motor’s speed and compares it to the “normal” speed profile for the motor. If the speed of a motor falls below “normal” then the motor is said to be obstructed. In addition to the normal motor obstruction detection, motor overload and stall detection is provided to protect the door and opener.
Standard Operating Modes

Motor Speed Control - SOFT START/SOFT STOP
The motor’s speed is microprocessor controlled, ramping up speed as the door starts to move, and ramping down as it approaches the travel limits to provide a gentle stop.

Lock Release Output
The lock release output is configured to pulse for the time set by the controller at the start of each cycle. The output is turned on at the same time the motor is activated.

Courtesy Light
Courtesy lights can be connected using light relays N/O or N/C output. Normally used as a safety device to illuminate the area and warn pedestrians, the light will turn on each time the door is activated (day or night) and automatically turn off one (1) minute after the cycle has finished. The light timer is adjustable. The light can also be activated and deactivated by pressing a transmitter button assigned the LGT function.

Safety Beam Input
When the Safety Beam is broken (blocked), the door is prevented from being closed. If the Safety Beam is triggered while the door is closing, the controller will stop the motor and then open the door.

First and Third Safety Beam (SB1 & SB3) can be configured to trigger directional Safety Beam auto close.

Fire (FIRE) Input
Fire input can be configured as OPN,CLS or PED function. The FIRE input terminal is activated with the N/O or N/C switch.

When Fire Input Is Configured As OPN:
Activating the fire input will cause the door to open. Holding the input will prevent door from closing.

When Fire Input Is Configured As CLS:
Activating the fire input will cause the door to close. Holding the input active will prevent opening.

When Fire Input Is Configured As PED:
The activation of the fire input opens the door to partially allow pedestrian access but prevent vehicle access. The position the door is driven to is automatically set to halfway during setting of the travel limits, but can be adjusted to suit.

GPI (General Purpose Input)
General purpose input can be configured as OSC, PED or day light saving setup. The GPI input terminal is activated with the N/O switch.

When GPI Selected As OSC:
If the door is moving, the activation of the GPI input or a transmitter button with the OSC function assigned will cause the door to stop. The next trigger will move the door in the opposite direction to that last travelled.

When GPI Input Is Configured As PED:
The activation of the GPI input or a transmitter button with PED function assigned will open the door partially to allow pedestrian access but prevent vehicle access. The position the door is driven to is automatically set to halfway during setting of the travel limits, but can be adjusted to suit.

When GPI Input Is Configured As Day Light Saving:
The GPI input can be used to switch between STD time and DST (daylight savings time). The time selected is the amount of time added to STD time when DST is selected.
Options are OFF, 30, 60, 90 or 120 minutes. The GPI input needs to be constantly active to show day light saving time.

Open (OPN) Input
(Activated by OPN terminal with N/O or N/C switch, a transmitter button with OPN function assigned or by OPEN button on the console). Activating the OPN input will cause the door to open. Holding the input will prevent door from closing.

Stop (STP) Input
(Activated by STP terminal with N/O or N/C switch, a transmitter button with STP function assigned or by STOP button on the console). Activating the STP input while the door is moving will cause the door to be stopped. If the STP terminal is held, it will prevent the door from being moved.

Close (CLS) Input
(Activated by CLS terminal with N/O switch, a transmitter button with CLS function assigned or by CLOSE button on the console). Activating the CLS input will cause the door to close. Holding the input active will prevent opening.

Swipe Card (SWP) Input
(Activated by SWP terminal with N/O switch or a transmitter button with SWP function assigned). Activating the SWP input will cause the door to be opened. If the terminal input is held, it will prevent the door being closed. The swipe input also effects Safety Beam TRIGGERED AUTO-CLOSE.
Standard Operating Modes

Vacation Mode
Vacation Mode blocks all but one designated remote control transmitter from activating the GDO-10V2L2 opener. The mode is activated by pressing a transmitter button with the VAC function assigned until the console displays that Vacation Mode is enabled (approx. 5 secs). When activated all the transmitter buttons will be ignored. To turn Vacation Mode off press a transmitter button with the VAC function assigned. Vacation Mode can also be turned on or off manually by editing the Vacation Mode parameter.

Control Board Adjustments

The standard operation of the opener can be altered by editing various parameters. This section describes the parameters and the effect they have. Use the VIEWING AND EDITING PARAMETER PROCEDURE on Page 16 to make changes.

Menu 2.3 Door Reverse Time After Close Obstruction
Normally after a close obstruction, the door will fully open to its open position. After a close obstruction, the open cycle can be reduced from 5 seconds to its full open position.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min</th>
<th>Max</th>
<th>Default</th>
<th>Step</th>
<th>Unit</th>
<th>Menu No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reverse Time After Close Obstruction</td>
<td>5.0</td>
<td>Fully Open</td>
<td>Fully Open</td>
<td>1</td>
<td>Sec</td>
<td>2.3</td>
</tr>
</tbody>
</table>

Menu 5. Motor Settings

Motor speed
The maximum speed the motors run at is controlled by the OPEN AND CLOSE SPEED VOLTAGE parameter. The default value is the maximum recommended for normal operation. If however the door moves too quickly for a particular installation, the voltage can be reduced to make the motors run slower. NOTE: Altering these parameters will cause the travel limits to be cleared.

Menu 6. Operating Modes

Menu 6.1 Safety Close Mode
By enabling this parameter, the user can close the door only by holding the close button on the wall control unit or by holding the CLS input active. The door can not be closed by Auto-Close or by transmitters. If the Safety Beam is not installed, the controller will be loaded with Safety Close Mode and the following message will be displayed:

ATTENTION! No Safety Beams have been detected. ‘Safety close’ mode has been turned on! See manual for details. Press set to continue.

If the closing force as measured on the bottom of the door is over 400N (40kg), a Safety Beam must be installed. The safety close mode can be turned off by changing the parameter in menu 6.1.

Menu 6.2 Safety Open Mode
By enabling this parameter, the user can open the door only by holding the open button on the wall control unit or by holding the open input active. The door can not be opened by the transmitters.
Control Board Adjustments

Menu 6.3 First (SB1) Safety Beam Response Mode
The Safety Beams input can be configured to respond in one of three modes.

- **Reverses Close Cycles**
  In this mode, the Safety Beam input has no effect when opening but will cause the door to reverse if activated when closing.

- **Close Cycles Stop**
  In this mode, the Safety Beam input has no effect when opening but will stop the door when closing.

- **Open and Close Cycles Stop**
  In this mode, all cycles are prevented from being completed or initiated when the Safety Beam input is active.

Menu 6.4 Second Safety Beam (SB2) Response Mode
Same as above menu 6.3

Menu 6.5 Third Safety Beam (SB3) Response Mode
The third Safety Beam input can be configured to respond in one of four modes.

- **Reverses Close Cycles**
  In this mode, the Safety Beam input has no effect when opening but will cause the door to reverse if activated when closing.

- **Close Cycles Stop**
  In this mode, the Safety Beam input has no effect when opening but will stop the door when closing.

- **Open and Close Cycles Stop**
  In this mode, all cycles are prevented from being completed or initiated when the Safety Beam input is active.

- **Exit With SB1**
  Exiting through SB3 (third Safety Beam) and then SB1 (First Safety Beam) will activate the SB trigger auto close.

Menu 6.6 Safety Beam Obstruction Reverse Time Mode
Normally after a Safety Beam obstruction the door will fully open to its open position. After a Safety Beam Close obstruction, the doors open cycle can be reduced from 5 sec to its full open position.

Menu 6.7 GPI Input
GPI input can be configured as OSC, PED or DST setup. The GPI input terminal is activated by the N/O switch.

- **When GPI Selected As OSC:**
  If the door is moving, the activation of the GPI input or by a transmitter button with the OSC function assigned will cause the door to stop. The next trigger will move the door in the opposite direction to the last travelled.

- **When GPI Input Is Configured As PED:**
  The activation of the GPI input or by a transmitter button with PED function assigned will open the door partially to allow pedestrian access but prevent vehicle access. The position the door is driven to is automatically set to halfway during setting of the travel limits, but can be adjusted to suit.

- **When GPI Input Is Configured As SWP:**
  Activation of GPI input in this mode will open the door.

- **When GPI Input Is Configured As MANUAL OPERATION:**
  Activation of GPI input in this mode will disable all the transmitters.

- **When GPI Input Is Configured As DST:**
  The GPI input can be used to switch between STD time and DST (daylight savings time). The time selected is the amount of time added to STD time when DST is selected. The Options are OFF, 30, 60, 90 or 120 minutes. The
Control Board Adjustments

GPI input needs to be constantly active to show day light saving time.

**Menu 6.8 PED Input Function**
If GPI or Fire Input is selected as PED then these inputs can be configured to a SWIPE type input for pedestrian access. This provides full functionality with the Safety Beam Triggered Pedestrian Auto-Close function.

**Menu 6.9 Open Input Polarity**
The OPN input is normally configured for N/O operation. This parameter allows its operation to be changed to N/C.

**Menu 6.10 STP Input Polarity**
The STP input is normally configured for N/O operation. This parameter allows its operation to be changed to N/C.

**Menu 6.11 FIRE Input Polarity**
The FIRE input is normally configured for N/O operation. This parameter allows its operation to be changed to N/C.

**Menu 6.12 FIRE Input Configuration**
Fire input can be configuration as OPN, CLS (available only if Safety Beams are installed) or PED function. Activated by FIRE input terminal with N/O or N/C (if selected) switch.

**When Fire Input Is Configured As CLS:**
Activating the fire input will cause the door to close only if Safety Beams are installed. Holding the input active will prevent door from opening.

**When Fire Input Is Configured As PED:**
The activation of fire input will open the door partially to allow pedestrian access but prevent vehicle access. The position the door is driven to is automatically set to halfway during setting of the travel limits, but can be adjusted to suit.

**When Fire Input Is Configured As OPN:**
Activating the fire input will cause the door to open. Holding the input will prevent the door from closing.

**6.13 Remote Code**
The controller supports the Remote Code Set feature. This parameter can be used to disable the feature for security or transmitter management reasons.

**6.14 Activity Reports**
This parameter enables activity report outputs. Contact Automatic Technology for more details.

**6.15 Activity Report ID**
This parameter sets the ID of the controller that is sent with the activity report. Contact Automatic Technology for more details.

**6.16 Vacation Mode**
Vacation Mode can be turned on or off using this parameter.

**6.17 Standby Battery Enable/Disable**
The controller can be instructed to turn off the Battery Backup facilities so that the control board can be shut down without having to disconnect the Battery Backup system.

**6.18 Password Protection**
The password feature enables all parameters and configuration settings to be protected unless a password is entered. When this feature is turned on, the user is requested to enter the desired password to be used. The password protection feature has a time-out that expires after 60 seconds of inactivity. Alternatively, the user may log out manually by pressing exit when the main screen is displayed.

**6.19 Transmitter Grouping**
The transmitter store number display format can be changed to show a grouped format. When grouping is selected, instead of displaying the store location as a number between 1 and 511, it will display as ##$ where ## is the group number and $ is a character a,b,c,d,e,f,g or h which indicates the group member.
Control Board Adjustments

6.20 Fault, Auto Reset
When selected, the controller will reset any fault automatically.

6.21 LED Low Power Mode
When LED low power mode is selected, the controller will turn the LED power off to save the power.

6.22 Console OSC Buttons
Console can be locked out by selecting console OSC buttons OFF.

6.23 AUX Output Operation
AUX output can be selected to be driven by:

Light Drive
Although the GDO10V2L2 drive unit has a light relay output, a light relay module can be connected on the console between V+ and AUX OUT terminal which will turn the courtesy light on and off.

Clock/Transmitter
By selecting this option, AUX output can be triggered by programming the clock timer or by the transmitter.

Open Status
Selecting this option will cause the AUX output to stay active as long as the door stays open.

Close Status
Selecting this option will cause the AUX output to stay active as long as the door stays closed.
## Control Board Adjustments

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min</th>
<th>Max</th>
<th>Default</th>
<th>Step</th>
<th>Unit</th>
<th>Menu No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety Close Mode</td>
<td>Off</td>
<td>On</td>
<td>On</td>
<td></td>
<td></td>
<td>6.1</td>
</tr>
<tr>
<td>Safety Open Mode</td>
<td>Off</td>
<td>On</td>
<td>Off</td>
<td></td>
<td></td>
<td>6.2</td>
</tr>
<tr>
<td>Safety Beam Input Response Mode</td>
<td>Sets the S.B response mode. Options are OPEN and CLOSE cycles stop, Close cycles stop or Close cycle reverse</td>
<td>OPN &amp; CLS stop CLS to stop CLS to reverse</td>
<td></td>
<td></td>
<td></td>
<td>6.3-5</td>
</tr>
<tr>
<td>SB REVERSE TIME</td>
<td>5</td>
<td>FULL</td>
<td>FULL</td>
<td>1</td>
<td>Sec</td>
<td>6.6</td>
</tr>
<tr>
<td>GPI INPUT MODE</td>
<td>configure the GPI input. Options are OSC, PED and DAY LIGHT SAVING</td>
<td>OSC, PED, DST</td>
<td>OSC</td>
<td></td>
<td></td>
<td>6.7</td>
</tr>
<tr>
<td>PED INPUT = SWIPE MODE</td>
<td>Selects PED input functions as pedestrian access swipe input</td>
<td>Off</td>
<td>On</td>
<td>Off</td>
<td></td>
<td>6.8</td>
</tr>
<tr>
<td>OPN INPUT N/C OPERATION</td>
<td>Selects operating polarity of OPN input</td>
<td>Off</td>
<td>On</td>
<td>Off</td>
<td></td>
<td>6.9</td>
</tr>
<tr>
<td>STP INPUT N/C OPERATION</td>
<td>Selects operating polarity of STP input</td>
<td>Off</td>
<td>On</td>
<td>Off</td>
<td></td>
<td>6.10</td>
</tr>
<tr>
<td>FIRE INPUT N/C OPERATION</td>
<td>Selects operating polarity of FIRE input</td>
<td>Off</td>
<td>On</td>
<td>Off</td>
<td></td>
<td>6.11</td>
</tr>
<tr>
<td>FIRE INPUT MODE</td>
<td>configure the fire input. Options are OPN, CLS and PED</td>
<td>OPN, CLS, PED</td>
<td>OPN</td>
<td></td>
<td></td>
<td>6.12</td>
</tr>
<tr>
<td>REMOTE CODE ENABLED</td>
<td>Selects remote transmitter coding function</td>
<td>Off</td>
<td>On</td>
<td>On</td>
<td></td>
<td>6.13</td>
</tr>
<tr>
<td>ACTIVITY REPORTS</td>
<td>Select report to be output</td>
<td>Off</td>
<td>255</td>
<td>Off</td>
<td>1</td>
<td>6.14</td>
</tr>
<tr>
<td>ACTIVITY REPORT ID</td>
<td>Selects ID for controller, sent with activity report</td>
<td>0</td>
<td>65535</td>
<td>0</td>
<td>1</td>
<td>6.15</td>
</tr>
<tr>
<td>VACATION MODE</td>
<td>Selects Vacation Mode - disables remote control</td>
<td>Off</td>
<td>On</td>
<td>Off</td>
<td></td>
<td>6.16</td>
</tr>
<tr>
<td>BATTERY/SOLAR MODE</td>
<td>Selects Battery Backup/Solar operation</td>
<td>Off</td>
<td>On</td>
<td>On</td>
<td></td>
<td>6.17</td>
</tr>
<tr>
<td>PASSWORD</td>
<td>Selects password protection for all changes</td>
<td>Off</td>
<td>On</td>
<td>Off</td>
<td></td>
<td>6.18</td>
</tr>
<tr>
<td>Transmitter Grouping</td>
<td>Off</td>
<td>On</td>
<td>Off</td>
<td></td>
<td></td>
<td>6.19</td>
</tr>
<tr>
<td>Fault Auto Reset</td>
<td>Selects Fault Auto Reset</td>
<td>Off</td>
<td>On</td>
<td>Off</td>
<td></td>
<td>6.20</td>
</tr>
<tr>
<td>LED Low Power Mode</td>
<td>Selects saving the power by turning LEDs Off</td>
<td>Off</td>
<td>On</td>
<td>Off</td>
<td></td>
<td>6.21</td>
</tr>
<tr>
<td>Console OSC Buttons</td>
<td>Selects to lock out the console buttons</td>
<td>Off</td>
<td>On</td>
<td>Off</td>
<td></td>
<td>6.22</td>
</tr>
<tr>
<td>AUX OUT O/P</td>
<td>can be activated by either LIGHT DRIVE, CLOCK/TXER, OPEN or CLOSE status</td>
<td>LIGHT DRIVE</td>
<td></td>
<td></td>
<td></td>
<td>6.23</td>
</tr>
</tbody>
</table>
The opener provides a programmable time clock which can be used to control the GDO-10V2L2 on a timed basis at various times of the week. This section details the time clock operation and configuration.

**Time Clock Operation**

The time clock consists of a 7 day clock and storage for 32 programs. The clock is powered by its own battery and therefore does not lose time when the GDO-10V2L2 is turned off. Each time clock program defines the time of the day and the days of the week it is to run and the output function to be executed. Any combination of the days of the week can be selected.

**Step 14 - Time Clock Settings**

The Time Clock settings are accessed by selecting the Time Clock menu (MENU 7). Press SET (Fig. 50) to enter the menu and then PREV or NEXT to navigate through the options.

**Menu 7.1 Set Time/Date**

This is where the current time, date and day are displayed and set (Fig. 51).

NOTE: The time is in a 24 hour format and the Day of the week is not automatically set with the date. To change the settings simply press UP or DOWN to display the cursor and then move to the field to be changed using the NEXT / PREV buttons. Then press OPEN/CLOSE to change the setting and then the SET or STOP buttons to save.

**Menu 7.2 View Programs**

Select this menu to display or edit the Time Clock programs (Fig. 52). When selected, program number 1 is displayed and the cursor is shown on the program number field. The other fields shown include the function, time and days of operation. The example Fig. 53 shows that DOOR will OPEN at 7 am on Mondays, Tuesdays, Wednesdays, Thursdays and Fridays. Use the OPEN/CLOSE buttons to scroll though the other programs.

To edit a program, simply press the NEXT / PREV buttons to move the cursor onto the required field and press the OPEN/CLOSE button to change the value. To save the program settings, press SET or to exit without saving press STOP.
The selectable functions available are:

**RX = Off**
From the time when the program with RX = OFF is activated, all the transmitters will be disabled.

**RX = On**
From the time when program with RX = ON is activated, all the transmitters will be enabled.

**Open Door**
From the time when the program with OPEN DOOR is activated, the door will open and stay open.

**Stop Door**
This feature will let the user activate the stop function until the next program starts. The door will not open or close while stop is activated.

**Free Door**
Release the controls from the timer.

**Off**
This will temporarily disable the program.

**NOTE:** The most recent program that applies to an output remains active until a new program takes effect.

**NOTE:** If a Time Clock program does not have a day selected then it can not be executed. If a Time Clock program is taking control of the opener, then this status is displayed on the LCD. The MAIN SCREEN and clock status screen flashes alternatively.

**Menu 7.3 Settings**
Under this menu, three sub menus are available:

1. **Run Programs**
The programs of the timer can be interrupted by selecting RUN PROGRAM off.

2. **Configuration Of GPI Input**
General Purpose Input can be configured as OSC, PED or DST setup. This is activated by the GPI input terminal with the N/O switch.

**When GPI Input Is Configured As OSC:**
The activation of the GPI input or by pressing a transmitter button with PED function assigned will open the door partially to allow pedestrian access but prevent vehicle access. The position the door is driven to is automatically set to halfway during setting of the travel limits, but can be adjusted to suit.

**When GPI Input Is Configured As DST:**
GPI input can be used to switch between STD time and DST (daylight savings time). The AUX input needs to be constantly active to show daylight saving time.

3. **Day Light Saving Time Adjustment**
The time selected is the amount of time added to STD time when DST is selected by AUX input. Options are OFF, 30, 60, 90 or 120 minutes.
The controller provides several diagnostic tools from within the Diagnostics Menu (Menu 8). This section details the function of each tool and its use.

Navigating To Diagnostics Menu
1. Press PREV to navigate to Menu 8 (Fig. 54).
2. Press SET to display the menu of available functions.
3. Press PREV or NEXT to cycle through diagnostic tools.
4. Press SET to select.

Menu 8.1 Test Inputs
This tool is used to view the state of the control inputs. When selected, a screen is displayed (Fig. 55) which indicates the state of each input. If the name of the input is in upper case or number in the bracket, then the input is active. Conversely if the input is in lower case and [---] dash in the bracket, then the input is inactive. For normal operation, all inputs should be inactive. When finished, press STOP.

Menu 8.2 Test Tx’ers
This tool is used to test receiver/transmitter functionality. When selected, a screen is displayed which prompts for a transmitter button to be pressed (Fig. 56) and whether ID or serial numbers are to be displayed.

The opener will then beep each time a transmission is received. If the transmitter button is stored in the controller memory and has a function assigned to it, a second screen will be displayed that shows the transmitter details along with the button pressed (Fig. 57). The example shows the case where transmitter number 14 is activated by button 4. Note ID is selected for display.

Menu 8.3 Display History
The opener keeps a record of the last 64 events that have taken place. The events include the type of drive cycles executed, obstruction detection, various faults, power failures etc. When this tool is selected, the screen displays the last event that occurred (Fig. 58). Press NEXT or PREV to view each event. The “EVENT#” field shows the sequence of the events, with (1) being the first and (64) being the last. The example shows that the last event was a close cycle which succeeded in closing the door. When finished viewing the events, press STOP to exit.

Menu 8.4 Memory Usage
This tool displays the number of transmitter store locations used and the number free (Fig. 59).
Diagnostic Tools

Menu 8.5 Service Counter
The opener provides a periodic service counter which can be set to expire after a number of drive cycles. When expired, the opener will beep three times at the beginning of each drive cycle and a message will be displayed on the MAIN SCREEN (Fig. 60). This tool displays the current value of the service counter and allows the user to set its value using the normal parameter editing techniques (See PARAMETER VIEWING AND EDITING). If the service counter is not to be used, it can be set to the maximum number (60,000).

Menu 8.6 Event Counters
The opener keeps a count of number of times a particular event occurs. The list of event counters kept is shown below. When this tool is selected, the first event counter is shown (Fig. 61). Press NEXT or PREV to step through the list. The example shows the OPEN CYCLE event counter with a value of 500. When finished viewing press STOP.

1: Open Cycles
2: Close Cycles
3: PED Cycles
4: Warranty Cycles
5: Open Obstructions
6: Close Obstructions
7: Open O/LS
8: Close O/LS
9: Setup Limits
10: Drive Faults
11: Volt Faults
12: Low Motor Amp Faults
13: Amp ADC Faults
14: Supply Hi Faults
15: Supply Low Faults
16: Amp Trip Faults
17: Position Sensor faults
18: Drive Memory Faults
19: Position Wrap Faults
20: Direction Faults

Menu 8.7 Install Data
Open Position
Shows the fully open position door counter.

PED Position
Shows the pedestrian position counter.

Open Time
Time taken for the opener to drive the door to open position.

Close Time
Time taken for the opener to drive the door to the close position.

Menu 8.8 Parameters
Supply voltage, cutout maximum current allowed to use by the opener, percentage of charge in the batteries, battery voltage, battery charging voltage, motor voltage, current used by the system and current position counter value are displayed under this menu. All the parameters mentioned above can also be viewed while the opener is running. By default, the current used by the motor will be displayed on the LCD screen. This can be useful to check the condition of the door. Scroll through other parameters by pressing NEXT or PREV buttons while the door is running.

Menu 8.9 Version Info
Firmware information for the GDO10V2L2 drive and console are shown here.
Memory Tools

Menu 9.0 Memory Tools
The Memory Tools accessed from within Menu 9 are used to clear the transmitters codes from the openers memory and clear the controller’s memory. Once selected, the PREV or NEXT buttons can be used to view the Memory Tool options. To execute the displayed option, simply press SET.

Menu 9.1 Clear Control
This option will clear the door control memory and reload the factory set defaults for parameters such as the lock time, light time, Auto-Close times etc. It will also clear the travel limits.

Menu 9.2 Clear Tx'ers
This option will clear the transmitter storage memory.

Accessories Installation

Step 15 - Courtesy Lights

Step 15.1 - Fitting Courtesy Lights
An AC or DC courtesy light can be activated via an output on the door opener control board. Connect the light as per the diagram. (Fig. 62)

WARNING: A qualified electrician must perform the installation where 240V AC power is used.

Menu 4. Light/Lock Times

1. Press NEXT or PREV on the wall control unit to navigate to Menu 5 Light/Lock Times.
2. Press SET to select the sub menu.
3. Press NEXT or PREV to navigate through the sub menu.
4. Press OPEN to increase or CLOSE to decrease the time.
5. Press SET to save the new time.
6. Press the STOP button two times to exit.
7. Test the light operation.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min</th>
<th>Max</th>
<th>Default</th>
<th>Step</th>
<th>Unit</th>
<th>Menu No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON AFTER CYCLE LIGHT TIME</td>
<td>0</td>
<td>255</td>
<td>60</td>
<td>1</td>
<td>Sec</td>
<td>4.1</td>
</tr>
<tr>
<td>Time light remains on for after a cycle</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ON BEFORE OPEN CYCLE LIGHT TIME</td>
<td>0</td>
<td>25.5</td>
<td>0</td>
<td>0.1</td>
<td>Sec</td>
<td>4.2</td>
</tr>
<tr>
<td>Minimum time light is activated for prior to opening</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ON BEFORE CLOSE CYCLE LIGHT TIME</td>
<td>0</td>
<td>25.5</td>
<td>0</td>
<td>0.1</td>
<td>Sec</td>
<td>4.3</td>
</tr>
<tr>
<td>Minimum time light is activated for prior to closing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Accessories Installation

Step 16 Lock

Step 16.1 - Fitting Solenoid Or Magnetic Locks
Install the lock mechanism on the door as per the manufacturers instructions. See Fig. 63 for the wiring diagram.

Menu 4. Light/Lock Times
Lock output can be programmed for both hold and pulse mode. The operation of the lock can be programmed to activate prior to the door and behave differently on open cycles to that on close cycles.

1. Press NEXT or PREV on the wall control unit to navigate to Menu 4 Light / Lock Times.
2. Press SET to select the sub menu.
3. Press NEXT or PREV to navigate through the sub menu.
4. Press OPEN to increase or CLOSE to decrease the time.
5. Press SET to save the new time.
6. Press the STOP button two times to exit and test.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min</th>
<th>Max</th>
<th>Default</th>
<th>Step</th>
<th>Unit</th>
<th>Menu No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPEN LOCK TIME Set the time the lock is activated for on open cycles</td>
<td>0.0</td>
<td>Hold</td>
<td>0.0</td>
<td>0.1</td>
<td>Sec</td>
<td>4.4</td>
</tr>
<tr>
<td>CLOSE LOCK TIME Set the time the lock is activated for close cycles</td>
<td>0.0</td>
<td>Hold</td>
<td>0.0</td>
<td>0.1</td>
<td>Sec</td>
<td>4.5</td>
</tr>
<tr>
<td>PRE-OPEN LOCK TIME Time the lock is activated for prior to opening</td>
<td>0.0</td>
<td>25.5</td>
<td>0.0</td>
<td>0.1</td>
<td>Sec</td>
<td>4.6</td>
</tr>
<tr>
<td>PRE-CLOSE LOCK TIME Time the lock is activated for prior to closing</td>
<td>0.0</td>
<td>25.5</td>
<td>0.0</td>
<td>0.1</td>
<td>Sec</td>
<td>4.7</td>
</tr>
</tbody>
</table>
Auto-Close Mode

Step 17 - Setting Up Auto-Close Mode

NOTE: the Auto-Close function is not available unless Safety Beam is installed.

Auto-Close mode is a function that automatically closes the door a preset time after the Safety Beam recognise that a vehicle has left the garage.

The Auto-Close timer only starts after the Safety Beam path is broken and the Auto-Close timer has been set. If the Safety Beam path is not broken, the door will remain open until the path is broken. If the opener incurs a physical obstruction (i.e. not from the Safety Beam) while closing, the door will re-open and not Auto-Close until the Safety Beam path is broken again.

Menu 3. Auto-Close Times

The Auto-Close modes automatically close the door after it has been operated. To implement this, the controller starts a timer once the door has reached its desired open position. The timer then counts down and when it expires the controller starts to close the door. Details of the four Auto-Close modes are outlined below:

Standard Auto-Close
This mode is selected by entering a non-zero time for the STD Auto-Close parameter. When selected, the door will Auto-Close after being fully opened (except when the door has reversed to the open position after a motor obstruction or overload unless A/C after open and/or close Obstruction are selected). Countdown is suspended by: S.B., OPN or SWP input being active. The countdown is aborted if the STP input is activated. If the door is already open and the OPN or the SWP input is activated, then the countdown will start.

Safety Beam Triggered Auto-Close
This mode is selected by entering a non-zero time for the “Safety Beam Auto-Close” parameter. This mode is used to Auto-Close the door but only after a vehicle have passed through the doorway and has triggered the Safety Beam input. The swipe input can be used to clear the Safety Beam triggered status so that the Safety Beam input must be activated again before the countdown will start. As with the other Safety Beam modes, the STP input will abort countdown and the OPN and SWP inputs will restart the countdown if the door is OPEN.

Pedestrian Access Auto-Close
This mode is selected by entering a non-zero time for the “Ped’n A/C” parameter. When selected, the door will Auto-Close after being opened for pedestrian access unless it was following a reverse from an obstruction.

Safety Beam triggered pedestrian Auto-Close
This mode is selected by entering a non-zero time for the “S.B. Ped’n A/C” parameter. This mode is the same as the Safety Beam triggered Auto-Close mode but it only operates during pedestrian access. As the SWP input is not available during pedestrian access, the PED input can be configured to act in a SWP mode by setting the “PED I/P = PED SWIPE MODE” parameter to ON.

Auto-Close After Obstruction
Three parameters are provided to enable the Auto-Close feature to be activated after obstructions and power up. Normally the Auto-Close feature is not enabled after obstructions for safety reasons. Safety Beams must be used for these features to be activated.
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min</th>
<th>Max</th>
<th>Default</th>
<th>Step</th>
<th>Unit</th>
<th>Menu No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>STD AUTO-CLOSE TIME</td>
<td>0.0</td>
<td>60.0</td>
<td>0.0</td>
<td>1.0</td>
<td>Sec</td>
<td>3</td>
</tr>
<tr>
<td>Sets and enables the standard Auto-Close time</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S.B AUTO-CLOSE TIME</td>
<td>0.0</td>
<td>60.0</td>
<td>0.0</td>
<td>1.0</td>
<td>Sec</td>
<td>3</td>
</tr>
<tr>
<td>Sets and enables the S.B triggered Auto-Close time</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PEDESTRIAN AUTO-CLOSE TIME</td>
<td>0.0</td>
<td>60.0</td>
<td>0.0</td>
<td>1.0</td>
<td>Sec</td>
<td>3</td>
</tr>
<tr>
<td>Sets and enables the Pedestrian Auto-Close time</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S.B PEDESTRIAN AUTO-CLOSE TIME</td>
<td>0.0</td>
<td>60.0</td>
<td>0.0</td>
<td>1.0</td>
<td>Sec</td>
<td>3</td>
</tr>
<tr>
<td>Sets and enables the PE Pedestrian Auto-Close time</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AUTO-CLOSE AFTER CLOSE OBSTRUCTION</td>
<td>Off</td>
<td>On</td>
<td>Off</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Enables Auto-Close feature after close obstructions</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AUTO-CLOSE AFTER OPEN OBSTRUCTION</td>
<td>Off</td>
<td>On</td>
<td>Off</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Enables Auto-Close feature after open obstructions</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AUTO-CLOSE AFTER POWER UP</td>
<td>Off</td>
<td>On</td>
<td>Off</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Enables Auto-Close feature power up</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Safety Beam Triggered, Directional Auto-Close
This mode is selected by entering a non-zero time for the “S.B. Auto-Close” parameter. S.B 3 Beam must be installed and configured to EXIT WITH SB1. Sub in menu 6.5.
This mode is used to Auto-Close the door only after a vehicle has passed through the Safety Beam 3 and then through Safety Beam 1 to exit the premises. This mode is useful for fire brigade, ambulance stations etc.

Wall Transmitter Installation

Step 18 - Installing The Wall Mounted Transmitter (Optional)

a. Remove the face plate from the transmitter.
b. Affix the base plate at a height of 1.5 metres within sight of the door. Make sure that the position of the transmitter is out of reach of children and convenient to the customer (Fig. 64).
c. Replace the face plate.
d. To code the transmitter, refer to page 21.
SmartSolar™ Installation

Warning: Do not connect the batteries until after Step 18.2

30 Watt Solar Kit Part Number 60142 is suitable for GDO10-V2

Step 19.1 - Mount The Charger Board
1. Unplug the drive unit from mains power.
3. Remove the bottom cover by pressing in from sides and sliding downward.
4. Remove the two screws and slide the top cover upward to remove it.
5. Remove the transformer, EMC board and mains power cable.
6. Remove the two screws from the battery bracket then remove the batteries and harness
7. Fix the Charger Board Holder to where the transformer was removed from. Fix the charger onto the charger holder (Fig. 65)
8. Feed the two wire cable through the opening, then connect the red wire into solar + and black wire into solar - connector on the control board.
9. Move the shunt from “STBY BATT” to “SOLAR” on the control board in the power head.

Warning: Do not connect battery or solar panel polarity incorrectly - this will result in serious damage to components. During Step 2, the opener will become active.

Step 19.2 - Connect The Solar Panel
1. Mount the solar panel as described in the SmartSolar™ Instruction Manual.
2. Feed the Solar Panel’s cable through the black grommet on the chassis.
3. Connect the red wire to the Charger Board’s “SOLAR+” connector, and the black wire to the “–SOLAR” connector.

Step 19.3 - Mount & Connect The Battery
1. Mount the Battery Box close to the opener.
2. Feed the 2-core 18 awg gauge cable (supplied) through the Battery Box’s grommet.
3. Connect the red wire to the Battery Box’s “+” terminal, and the black wire to the “–” terminal (Fig. 68).
4. Feed the other end of the battery cable through the drive unit’s black grommet.
5. Connect the red wire to the Charger Board’s “BAT+” connector, and the black wire to the “–BAT” connector (Fig. 67).
6. Refit the timing cover, main cover and light diffuser.

Step 19.4 - Re-Setup And Test The Opener
1. Setup travel limits and code transmitters as per the GDO10-V2 instruction manual.
2. Press either the OPEN/CLOSE button, or use a transmitter to operate the opener.
Replacing Backup Batteries

Step 20 Replacing Backup Batteries
1. Unplug the drive unit from mains power.
3. Remove the bottom cover by pressing in from sides and sliding downward.
4. Remove the two screws and slide upward the top cover upwards to remove it.
5. Remove the battery bracket by undoing the battery bracket screws.
6. Remove the batteries and replace with the same type (Fig. 69).
Technical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>230V - 240V a.c. 50Hz</td>
</tr>
<tr>
<td>Standby power</td>
<td>2.6 Watts</td>
</tr>
<tr>
<td>Geared Motor power</td>
<td>150 Watts</td>
</tr>
<tr>
<td>Motor type</td>
<td>24Vd.c. Permanent Magnet</td>
</tr>
<tr>
<td>Maximum door opening</td>
<td></td>
</tr>
<tr>
<td>Height:</td>
<td>5500mm</td>
</tr>
<tr>
<td>Width:</td>
<td>5100mm</td>
</tr>
<tr>
<td>Weight:</td>
<td>270kg</td>
</tr>
<tr>
<td>Opener Limits Travel</td>
<td>5.5 turns of Door Drum Wheel</td>
</tr>
<tr>
<td>Maximum Rated Load</td>
<td>500N</td>
</tr>
<tr>
<td>Nominal Load</td>
<td>150N</td>
</tr>
<tr>
<td>Duty Cycle</td>
<td>25 Operations/hr</td>
</tr>
<tr>
<td>Receiver type</td>
<td>UHF Multi-frequency FM Receiver</td>
</tr>
<tr>
<td>Receiver code storage capacity</td>
<td>511 X 4 button Transmitter Codes</td>
</tr>
<tr>
<td>Receiver Sensitivity</td>
<td>– 103 dB</td>
</tr>
<tr>
<td>Transmitter frequency</td>
<td>UHF Multi-frequency FM Transmitter</td>
</tr>
<tr>
<td>Coding type</td>
<td>Code hopping</td>
</tr>
<tr>
<td>Number of code combinations</td>
<td>Over 4.29 billion random codes</td>
</tr>
<tr>
<td>Code generation</td>
<td>Non-linear encryption algorithm</td>
</tr>
<tr>
<td>Courtesy light</td>
<td>Relay Output</td>
</tr>
<tr>
<td>Lock Output</td>
<td>Relay Output</td>
</tr>
<tr>
<td>Controller fuse</td>
<td>10 A slow blow</td>
</tr>
<tr>
<td>Transmitter Battery</td>
<td>CR - 2032 (3 Volts)</td>
</tr>
<tr>
<td>Real Time Clock Battery</td>
<td>CR - 1220 (1.5 Volts)</td>
</tr>
<tr>
<td>Backup Battery</td>
<td>12 Volts 6 Amp Hr x 2</td>
</tr>
</tbody>
</table>

**NOTE:**
1. The door must be well balanced. A person should be able to lift the door up manually with very little effort in case of an emergency.
2. Intermittent operations may occur in areas which experience very strong winds. Strong wind puts extra pressure on the door and tracks which may in turn trigger the safety obstruction detection system intermittently.
3. If the Safety Beam are not installed then the controller will automatically goes into “Safety Close” mode. Limited number of features are available in this mode please refer to page 30.
## Troubleshooting

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door will not operate</td>
<td>Mains power not switched on.</td>
<td>Switch on mains power.</td>
</tr>
<tr>
<td></td>
<td>Door is obstructed.</td>
<td>Remove obstruction.</td>
</tr>
<tr>
<td></td>
<td>Door is locked or motor jammed.</td>
<td>Unlock door or remove jam.</td>
</tr>
<tr>
<td></td>
<td>Door tracks/hardware damaged.</td>
<td>Door requires service/repair by qualified technician.</td>
</tr>
<tr>
<td></td>
<td>The stop function is activated</td>
<td>Deactivate the stop switch/timer.</td>
</tr>
<tr>
<td></td>
<td>The opener is in &quot;Vacation Mode&quot;</td>
<td>Turn off &quot;Vacation Mode&quot;.</td>
</tr>
<tr>
<td>Door starts to close but automatically reverses to open position</td>
<td>Adverse weather conditions (wind or cold) causing door to stiffen and become tight in the tracks.</td>
<td>Increase force margin setting refer to page 19 or re-calculate force margin.</td>
</tr>
<tr>
<td></td>
<td>Possible obstruction in the doorway.</td>
<td>Remove obstruction.</td>
</tr>
<tr>
<td>Door operates from wall control unit (OPEN/CLOSE) button but not from transmitter</td>
<td>Transmitter code not stored in memory.</td>
<td>Code transmitter in to openers memory.</td>
</tr>
<tr>
<td></td>
<td>Flat battery</td>
<td>Replace battery.</td>
</tr>
<tr>
<td>Door does not close with transmitter</td>
<td>Safety Close Mode is on.</td>
<td>Turn the Safety Close Mode off</td>
</tr>
<tr>
<td></td>
<td>Safety Beam not installed or not working properly.</td>
<td>Make sure Safety Beam are operational.</td>
</tr>
<tr>
<td>Door will not close fully.</td>
<td>Door limits positions need to be reset.</td>
<td>Reset limits positions.</td>
</tr>
<tr>
<td>Door will not open fully.</td>
<td>Door limits positions need to be reset.</td>
<td>Reset limits positions.</td>
</tr>
<tr>
<td>Auto-Close not working</td>
<td>Safety Beam not installed.</td>
<td>Install Safety Beam.</td>
</tr>
<tr>
<td></td>
<td>Safety Beam or wiring faulty.</td>
<td>Repair Safety Beam or replace wiring.</td>
</tr>
<tr>
<td></td>
<td>Safety Beam not aligned correctly.</td>
<td>Re-align optics.</td>
</tr>
<tr>
<td></td>
<td>Safety Beam is obstructed.</td>
<td>Remove obstruction from path of Safety Beams.</td>
</tr>
<tr>
<td></td>
<td>Door obstructed when closing.</td>
<td>Remove obstruction.</td>
</tr>
<tr>
<td></td>
<td>Auto-Close time not set.</td>
<td>Set Auto-Close times.</td>
</tr>
<tr>
<td></td>
<td>Auto-Close mode not set</td>
<td>Set Auto-Close mode.</td>
</tr>
</tbody>
</table>
Maintenance

Maintaingence
Whilst your opener does not require any periodic maintenance, the door that it is fitted to does. Your garage door is a large, heavy, moving object and should be tested regularly to ensure it is in good condition. A poorly maintained door could cause fatal or serious injuries or serious damage to property.

To ensure a long and trouble free life for your opener the following is recommended:

Monthly
- Disengage the opener and manually operate the door: The door must be smooth to operate by hand. An operating force on the bottom rail should not exceed 150N (15 kg) force.
- Each month check that the opener reverses when the door contacts a 40 mm high object placed on the floor under the door (AS3350).

NOTE: If the door does not operate smoothly, call your garage door professional.

Yearly
Automatic Technology suggests you contact your garage door professional to perform an annual door service.

CAUTION: Frequently examine door, particularly cables, springs and mountings for signs of wear, damage or door tension. Do not use if repair or adjustment is needed since a fault in the installation or an incorrectly balanced door may cause injury. (AS3350)

Adjustments should only be carried out by experienced persons, as this function can be dangerous if not performed under strict safety procedures.

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

Service Record
Record any maintenance in the following table to assist in any warranty service.

<table>
<thead>
<tr>
<th>Date</th>
<th>Service by</th>
<th>Signature</th>
<th>Invoice No.</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Warranty and Exclusion of Liability

1. This Warranty is given by Automatic Technology (Australia) Pty Ltd (ABN 11 007 125 368) (ATA), 6-8 Freeways Boulevard, Keysborough 3173, 1300 133 944, sales@ata-aust.com.au. The Competition and Consumer Act 2010 (including the Australian Consumer Law) and other relevant statutes provide a set of statutory consumer guarantees and other legal rights that cannot be excluded, restricted or modified by contract. This Warranty is in addition to and does not affect any of your rights under the Australian Consumer Law and other relevant statutes.

2. Our goods come with guarantees that cannot be excluded (including but not limited to damages for loss of business profits, business interruption and loss of business information) due to a defect of the GDO-10 Toro™ (Product). In particular any loss or damage caused to other equipment or accessories used with the product or any loss resulting from a delay in repair is excluded to extent permitted by law.

3. Subject to all of the matters set out below, ATA warrants in relation to the Product that:
   (a) the Product’s door opener drive units will be free of any defects in material and workmanship for at least 24 months after the date of purchase (as evidenced by the sales docket receipt), or 5,000 cycles, whichever occurs first; and
   (b) the Product’s other components and accessories will be free of any defects in material and workmanship for at least 12 months after the date of purchase (as evidenced by the sales docket receipt).

4. No additional warranty will apply for Products repaired during the relevant warranty period.

5. Subject to any non-excludable rights under the Australian Consumer Law, ATA expressly excludes any liability for consequential loss, incidental or indirect damages (including loss of business profits, business interruption and loss of business information) due to a defect of the GDO-10 Toro™ (Product). In particular, any loss or damage caused to other equipment or accessories used with the product or any loss resulting from a delay in repair is excluded to extent permitted by law.

6. For all Products repaired outside the warranty period, a six (6) month warranty that the Product will be free of any defects in material and workmanship will apply from the date of purchase (as evidenced by the sales docket receipt).

7. This Warranty applies only where you:
   (a) immediately notify ATA at the contact details provided in paragraph 1 above or notify the retailer that you purchased the Product from the alleged defect;
   (b) return the Product to the retailer that you purchased the Product from, and
   (c) present the relevant sales docket and this Warranty document to the retailer to confirm the date of purchase.

8. Except for this Warranty, ATA gives no warranties of any kind whatsoever (whether express or implied), in relation to the Product, and, subject to paragraph 1 above, all warranties of whatever nature and/or workmanship or to credit the dealer with the price at which the product was purchased by the dealer.

9. This Warranty does not extend to cover labour for installation of the Product following repairs, the cost of which must be borne by you.

10. This Warranty is limited to Return-to-Basis (RTB) repair and does not cover labour for on-site attendance, the cost of which must be borne by you.

11. This Warranty is void if the Product is not returned to the manufacturer in original or suitably secure packaging.

12. This Warranty is non-transferable.

13. Where the Product is returned by any person other than ATA, except for the warranty set out above, such person has no authority from ATA to give any warranty or guarantee on ATA’s behalf in addition to the warranty set out above.

14. Any provision of this Warranty that is prohibited or unenforceable in any jurisdiction is ineffective as to that jurisdiction to the extent of the prohibition or unenforceability. That does not invalidate the remaining provisions of this Warranty nor affect the validity or enforceability of that provision in any other jurisdiction.

15. Products presented for repair may be replaced by refurbished parts may be used to repair the Product.

16. ATA’s liability under this Warranty is limited, at ATA’s absolute discretion, to either (a) replacing the Product at no cost to you, (b) repairing the Product at no cost to you or (c) refunding the price paid by you for the Product. ATA will not be liable for any costs associated with the repair or replacement of the Product.

17. This Warranty does not cover consumable items including, without limitation, globes, batteries and fuses.

18. This Warranty is not transferable.

19. Where the Product is returned by any person other than ATA, except for the warranty set out above, such person has no authority from ATA to give any warranty or guarantee on ATA’s behalf in addition to the warranty set out above.

20. Any provision of this Warranty that is prohibited or unenforceable in any jurisdiction is ineffective as to that jurisdiction to the extent of the prohibition or unenforceability. That does not invalidate the remaining provisions of this Warranty nor affect the validity or enforceability of that provision in any other jurisdiction.

21. Products presented for repair may be replaced by refurbished parts of the same type rather than being repaired. Refurbished parts may be used to repair the Product.

NOTES:
1. One (1) cycle = one (1) open and one (1) close action of the door.
2. This Warranty is to be read in conjunction with the owner’s copy of the installation instruction manual.
3. The door that the Product is used with should be balanced in such a way that the user is able to open or close the door manually using a force not greater than 150 Newton (15 kg), other than to initially cause the door to start moving, which may require force in excess of that specified in this paragraph.