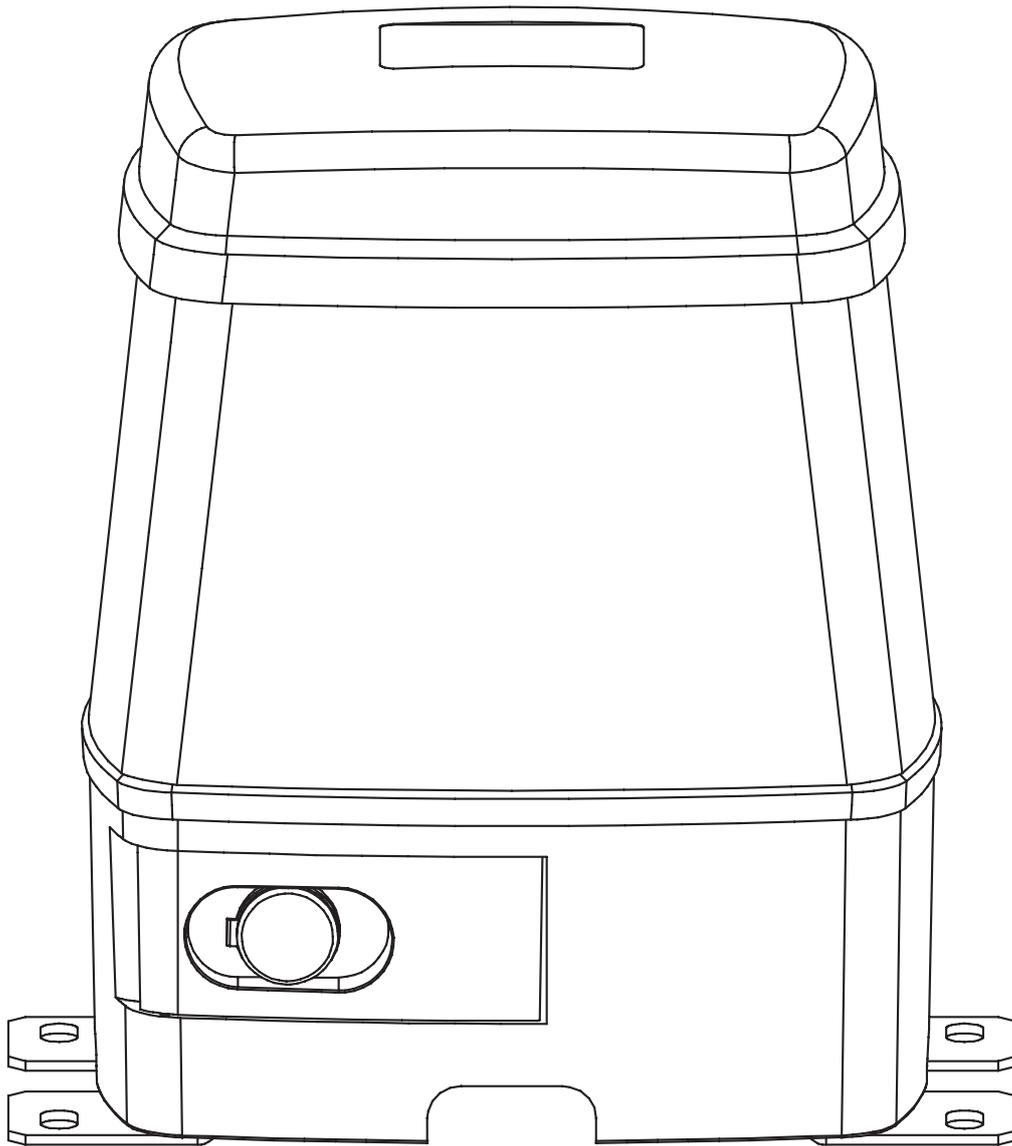




Easy Slider

Sliding Gate Opener



automatic
TECHNOLOGY

smart | simple | secure



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 Sliding Gate Opener and 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 Sliding Gate Opener in accordance with these installation instructions.



Easy Slider

Sliding Gate Opener

Important safety instructions	5		
Features	7		
Product description	9		
Drive unit installation	10		
Rack installation	11		
Control board layout	12		
Menu structure	14		
Initial electrical installation	15		
Powering up drive unit	16		
Setting travel limits for single leaf gate	16	Remote code set procedure	31
Setting travel limits for dual leaf gate	18	Diagnostic tools (menu 8)	32
Setting pedestrian position	20	Menu 8.1 Test inputs	32
Description of standard operation	21	Menu 8.2 Test tx'ers	32
Control board adjustments	22	Menu 8.3 Display history	32
Menu 2 Obstruction margins	22	Menu 8.4 Memory usage	32
Menu 3 Auto-close times	22	Menu 8.5 Service counter	33
Menu 4 Lock times	23	Menu 8.6 Counters	33
Menu 5 Light times	23	Memory tools (menu 9)	34
Menu 6 Motor settings	23	Menu 9.1 Clr control	34
Menu 7 Operating modes	24	Menu 9.2 Clr tx'ers	34
Viewing and editing parameter	25	Menu 9.3 Backup memory	34
Coding transmitter	26	Menu 9.4 Restore control	34
Transmitter edit procedure	27	Menu 9.5 Restore tx'ers	34
Transmitter management	29	Menu 9.6 Import labels	34
Code operation (location empty)	30	Accessories installation	35
Code operation (location used)	30	Trouble shooting guide	36
Delete operation	30	Specifications	37
Edit operation	30	Parts list	38
Copy operation	30	Warranty and exclusion of liability	40





Important safety instructions

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



FOR ADDITIONAL SAFETY protection we strongly recommend the fitting of a Photo Electric Beam. In most countries Photo Electric Beams are mandatory on all gates fitted with automatic openers. For a small additional outlay ATA recommends that Photo Electric Beams be installed with the automatic opener ensuring additional safety and peace of mind.

DO NOT operate the gate opener unless the gate is in full view and free from objects such as cars and children/people. Make sure that the gate has finished moving before entering or leaving the driveway.

DO NOT operate the gate opener when children/persons are near the gate. Children must be supervised near the gate at all times when the gate 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 sliding gate opener. **Serious personal injury** and/or property damage can result from failure to follow this warning.

Make sure that the **safety obstruction detection** system is working correctly, and is **tested** every month. Test as per the Installation Instructions Manual. Adjust if necessary and recheck. Failure to follow this rule 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.

DO NOT disengage the sliding gate opener to manual operation with children/persons or any other objects including motor vehicle within the gateway.

If using a key switch or keypad or any device that can operate the sliding gate opener, make sure it is out of reach of children and that the gateway is in full view at all times.

If the power supply cord is damaged, it **must** be replaced by an ATA service agent or suitably qualified person.

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



Important safety instructions

Please read this instruction manual fully before attempting to install or use the opener. Failure to comply with the installation instructions may result in serious injury and/or property damage.

The opener is showerproof - it should not be immersed in water or sprayed directly by a hose or other water carrying device.

The gate(s) must be **well balanced**, and in good working order. Faulty gates must be repaired by a qualified technician prior to opener installation.

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

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

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

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

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** above must be followed.

In order for the gate opener to **sense** an object obstructing the gateway, some **force** must be exerted on the object. As a result the object, gate and/or person may suffer **damage** or **injury**.

Make sure that the gate is fully open before driving into or out of the driveway. And make sure the gate is fully closed before leaving the driveway.

The gate 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.

Frequently examine the installation, in particular guides 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 gate may cause injury.





Features

Thank you for purchasing the ATA EasySlider Automatic Gate Opener. This opener is designed to suit residential sliding gates. The components and materials used in this opener are of the latest technology and highest quality. Listed below are some of the many features.

Dual leaf gate

The opener's integrated controller is able to control a two leaf sliding gate with the addition of a slave opener. Interconnection is via 5 wire with mains power only required for the master drive unit.

Operation

To activate the gate simply press a button on the remote control transmitter, keypad or many other devices such as key switch, loop detector, etc. During an open or close cycle the gate can be stopped by pressing the button while it is in motion. The next actuation will move the gate in the opposite direction.

Operator console

The EasySlider features a LCD display operator console which simplifies installation, adjustments and status indication. Features include editing transmitter storage and names, setting parameters, selecting specialised operating modes and performing system diagnostics.

Hopping code transmitters

Every time a transmission is made from the remotetransmitter a new security code is generated. The number of possible code combinations is over 4.29 billion. This greatly enhances the security of the system. Code "grabbing" is made a thing of the past.

Security code store

The EasySlider Sliding Gate Opener uses state of the art technology in storing your selected transmitter codes. Up to thirty (30) transmitters can be stored in the opener's memory with the facility to assign an 11 character name to each transmitter.

ALPS (Automatic Limits Positioning System)

A revolutionary gate travel limit setting system. The ALPS technology eliminates manual adjustment of the gates limits position using mechanical parts such as micro switches and cams. In addition, the opener's display console guides you through the installation and set up.





The ALPS technology calculates the gates travel limit positions and stores it in memory. If the gate is moved manually during power failure, the ALPS will re-align the gate limits transparently during the first operations after power is restored and stop at the correct limit position.

During installation, a hand held transmitter can be used when setting the gate travel limits. This allows the installer to closely monitor and control the gates movement from any position rather than having to be within arms reach of the console.

ISS (Intelligent Safety Obstruction System)

Should the gate hit an obstacle while it is performing a close cycle, or be restricted in some manner, it will automatically reverse. The amount of force the gate should encounter before reversing is automatically adjusted by the control system during the initialisation of the automatic opener. The gate will also stop if restricted whilst opening. The Safety Obstruction Force should be checked at least once a month. See installation manual for instructions.

Status indicator

The console displays the status of the opener on the LCD screen. When the MAIN SCREEN is displayed, the current position of the gate or the result of the last movement can be viewed. The display will also show the count down progress of auto-close timers. Any active input will also be displayed along with the state of various features such as periodic service, battery backup operation and vacation mode.

Control of lock and lights

The incorporated controller has dedicated outputs for operating a electric lock and warning or courtesy lights. The timing of these outputs can be adjusted to suit your needs. In addition a button on a remote control can be coded to operate the light output.

Extensive operating modes via control inputs and remote control

The integrated controller can be configured to operate in many different ways via its seven (7) control and safety inputs which include P.E, OPEN, STOP, CLOSE, OSC, SWIPE and PEDESTRIAN.

Remote control operation is provided with each transmitter's button being able to be configured to operate one of OSC, PEDESTRIAN, SWIPE, CLOSE, OPEN, STOP, LIGHT or VACATION functions.

The controllers functionality is further enhanced by 4 auto-close modes, 3 P.E response modes and two pedestrian response modes.

Battery backup and solar operation

The opener can be fitted with optional battery backup or solar chargers to provide operation during power outages or at unpowered sites.

Manual operation

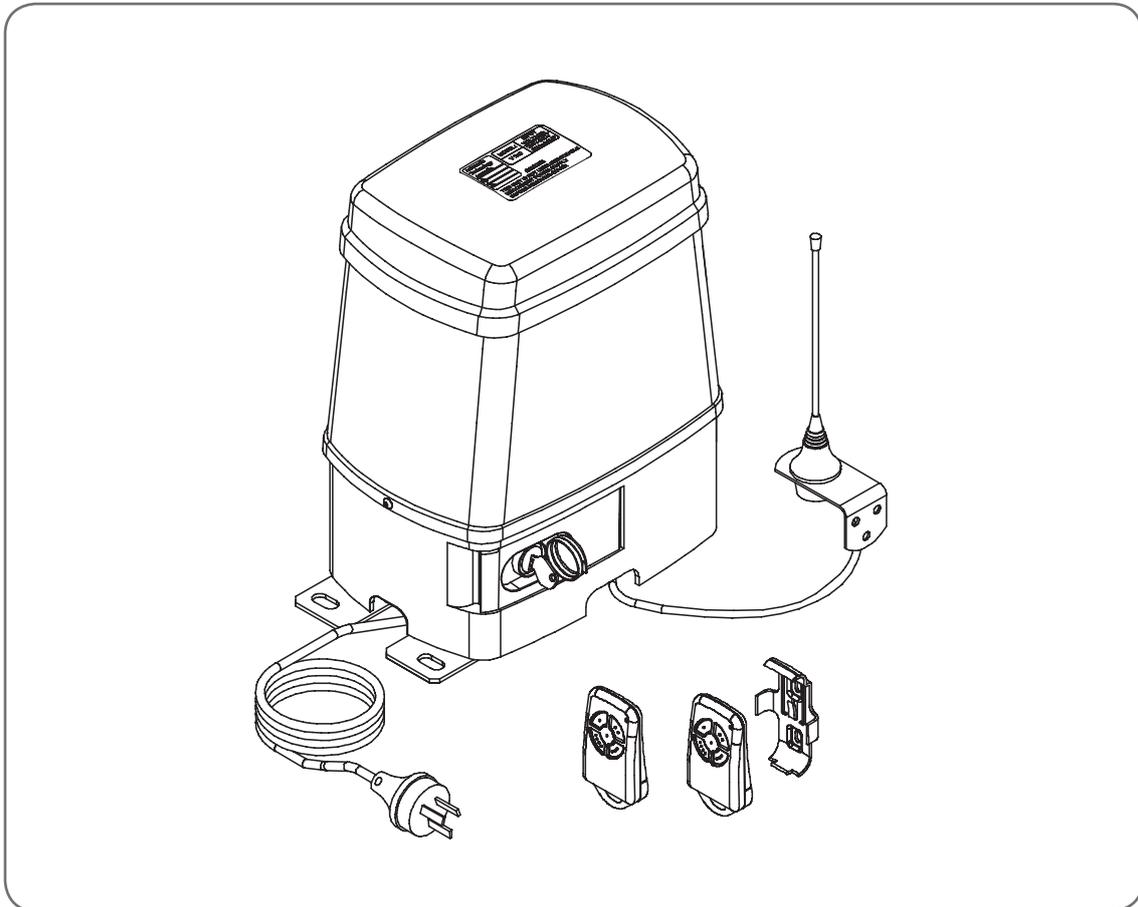
The opener is equipped with a unique manual disengaging device. If the power to the opener is disrupted for any reason the gate can disengaged via a key lock located on the operator. This will allow you to manually open or close the gate.





Product description

fig 01



The ATA EasySlider sliding gate opener kit consists of one drive unit with integrated controller, two hand held transmitters and pre-wired antenna.

Integrated controller

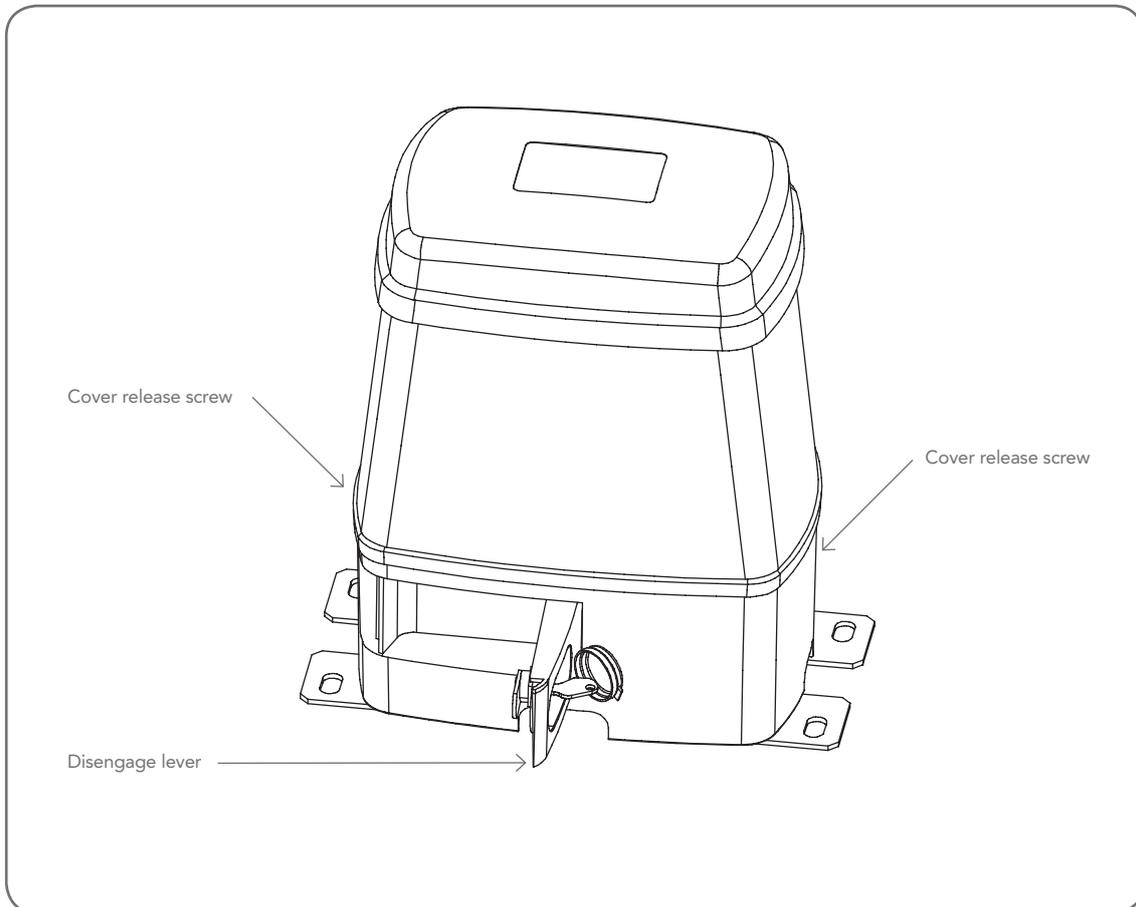
The integrated controller is able to control a single or dual leaf gate. The antenna is pre-wired, ready to be mounted on the fence-line. An outdoor type 240V AC power outlet is required to power the system. In a dual leaf gate, the slave drive unit is connected to the master via a five (5) wire low voltage cable. AC power is not required by the slave unit.

Mechanical drive unit

The drive unit consists of a powerful 24V DC motor, rugged gearbox assembly and travel limits position encoder. It also provides a key lockable manual release lever. When used with suitable cable glands the enclosure meets the IP33 standard for ingress of dust and water.



Drive unit installation



The ATA EasySlider sliding gate opener is designed to operate most residential sliding gates. The gates must be in good working condition and should operate freely by hand.

Step 1. Initial checking

Before commencing installation of the Easy Slider sliding gate opener, check the following:

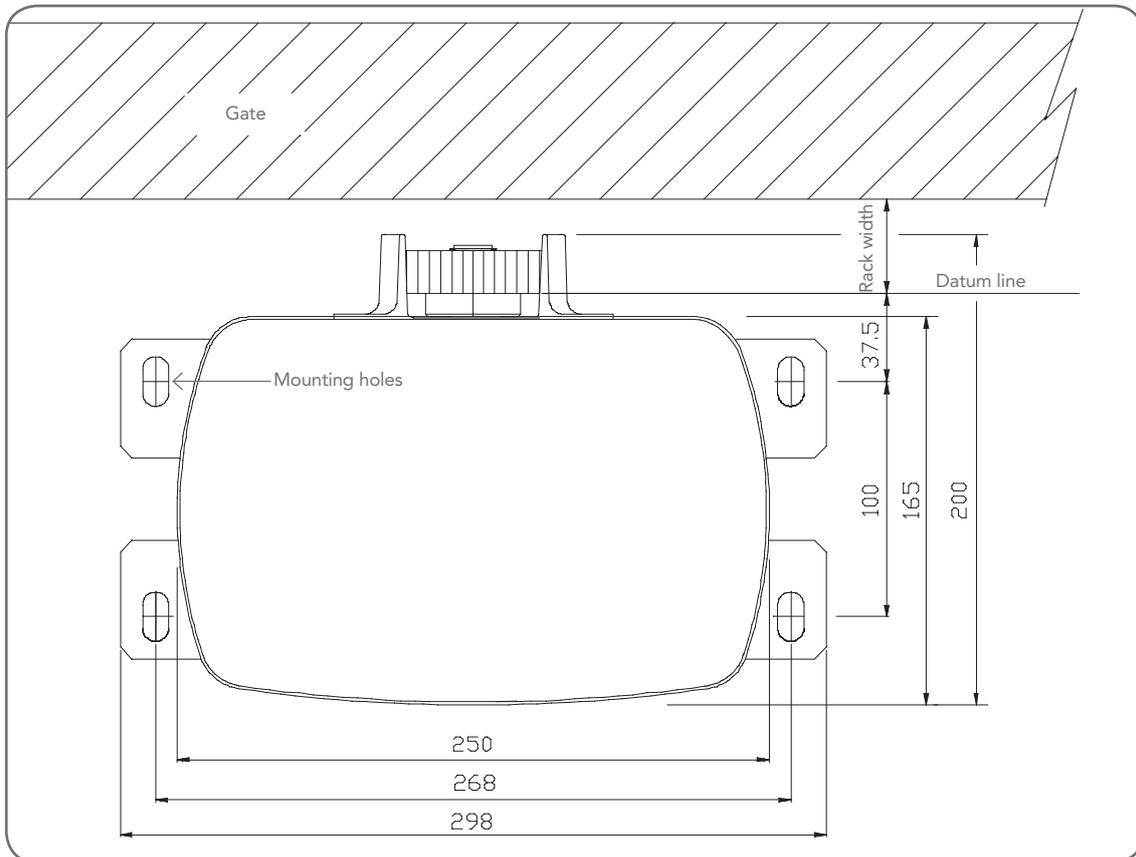
1. The gate moves freely and easily by hand for the full opening and closing travel.
2. The mounting must be solid construction (concrete, brick or steel). It must be able to withstand the full force applied to the gate.
3. Select a suitable location for mounting the drive unit. This position is usually established by opening the gate fully and mounting the drive unit within a suitable distance of the gate edge.
4. A weather-proof 240V 10Amp power outlet is located within one (1) metre of the master drive unit's mounting point.
5. If dual gate openers are required provision for underground cabling should be made from one side of the gateway to the other. This may also be required for wiring of Photo-Electric Beams or other accessories.





Drive unit installation

fig 03



Mounting the drive unit

The Drive Unit mounting holes are slotted for fine adjustment of pinion gear and gate rack alignment. Follow the procedure below to ensure final adjustments can be made later.

We recommend that four 8mm ($\frac{5}{16}$ ") or 10mm ($\frac{3}{8}$ ") loxins and bolts are used to secure the Drive Unit into position. These loxins usually require a 16mm ($\frac{5}{8}$ ") masonry drill bit (if drilling concrete).

1. Prior to mounting of the driver unit determine the distance from the gate to the outer edge of the rack (ie the rack width) to the datum line (see **Fig. 03** and **Fig. 04**). For the ATA plastic racks the width is 40mm. The rack distance may vary depending on the type of rack used. If you must use a different rack, make sure that it is Module 4.
2. Mark a line 78mm parallel to the face of the gate for the mounting holes when using the ATA plastic rack. When using a non ATA rack, add your rack width (and spacers if required) and 38mm and mark a line this distance from the face of the rack (see **Fig. 03**).
3. Then mark another line 100mm from the first line (see **Fig. 03**).
4. Open the gate to the desired open position. Mark a line at right angle to the gate 120-150mm from the open edge of the gate for the mounting holes.
5. Then mark another line 268mm parallel to this line (see **Fig. 03**).
6. Place the Drive Unit in position where the lines intersect to check the mounting position. If satisfied with the position remove the Drive Unit.
7. Drill the four mounting holes where the lines intersect.
8. Hammer the loxins into position. Place the Drive Unit into position and fix with the four bolts so that you are still able to move the Drive Unit.



Rack installation

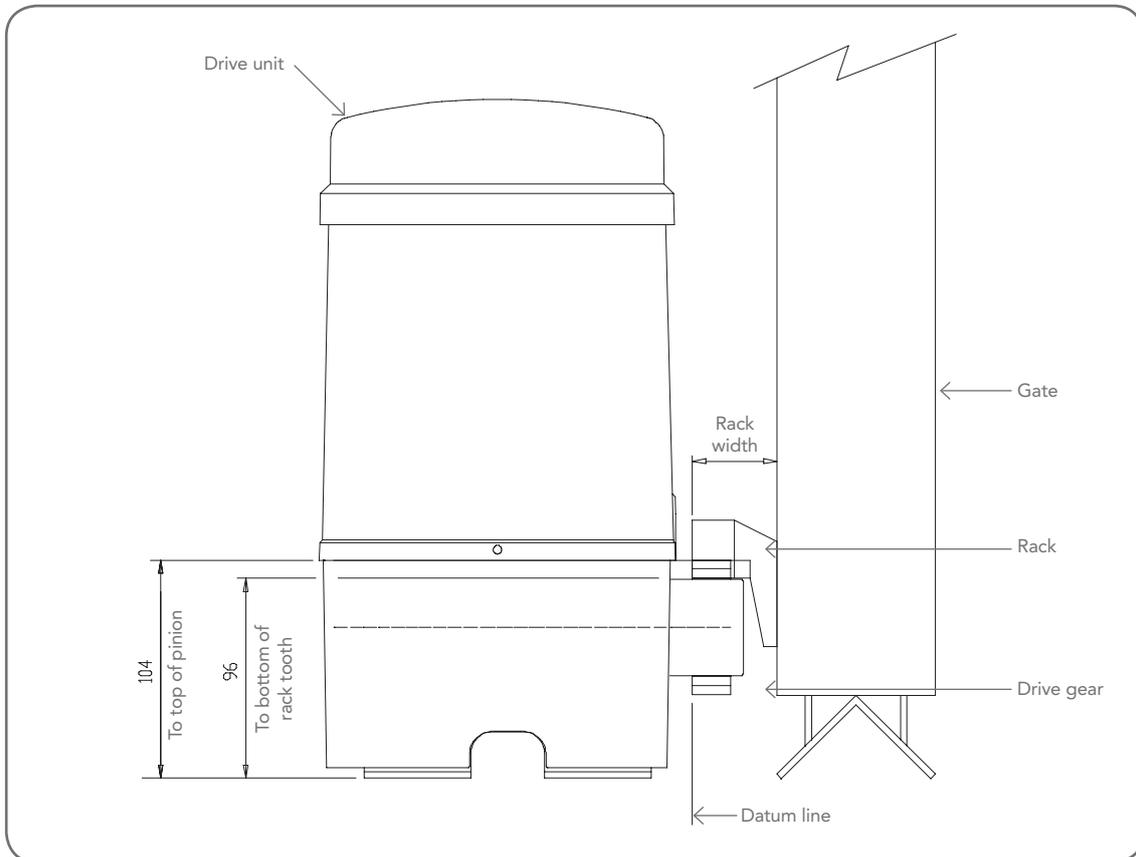


fig 04

Mounting rack to gate

A strong base on the gate is required for mounting the rack.

1. Manually open the gate and place a rack section to mesh with the pinion gear on the Drive Unit. Mark the top of the rack. Move the gate and mark the rack for the entire length of the gate.
2. Position the top edge of the rack on this line and mark the centres of the racks mounting slots. The first section of rack should start 20mm from the edge of the gate.
3. Drill and tap for 6mm (1/4") screws.
4. Once the first section of the rack is mounted on the gate, check that it meshes with the pinion gear on the drive unit.
5. When joining subsequent sections of rack, check the mesh by placing a spare section upside down (teeth facing upwards) and putting it into mesh with the racks being joined (**Fig. 05**).
6. Tighten the racks. This will ensure that the drive unit pinion can run along the racks without obstruction.

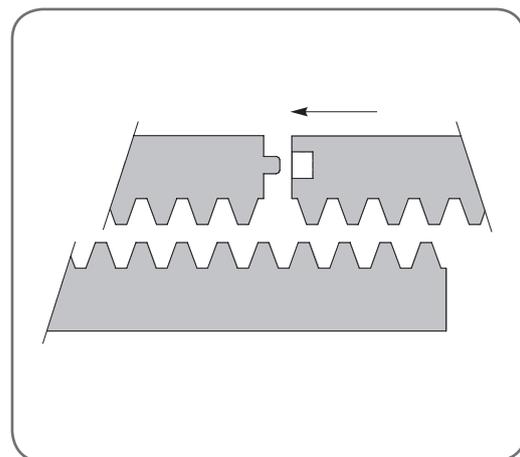


fig 05





Control board layout

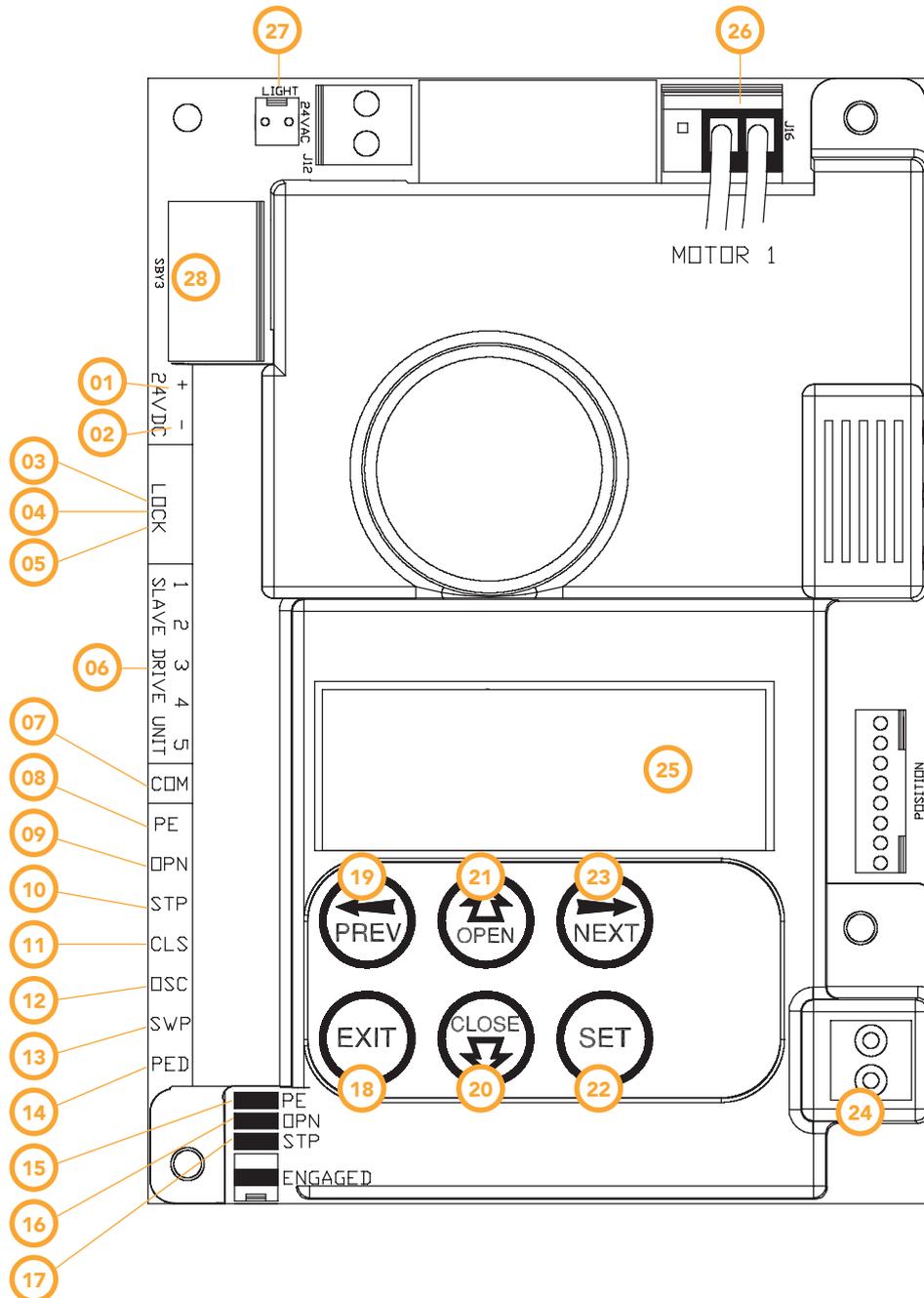
- 01
- 02 *24VDC output for powering accessories 3A(max)
- 03 *Lock relay output N/C contact
- 04 *Lock relay output COM contact
- 05 *Lock relay output N/O contact
- 06 Slave/Master connections
- 07 *COM terminal for inputs terminals 8 - 14
- 08 *P.E N/C input terminal
- 09 *OPN N/C input terminal
- 10 *STP N/C input terminal
- 11 *CLS N/O input terminal
- 12 *OSC N/O input terminal
- 13 *SWP N/O input terminal
- 14 *PED N/O input terminal
- 15 *PE input jumper (remove when 8 is used)
- 16 *OPN input jumper (remove when 9 is used)
- 17 *STP input jumper (remove when 10 is used)
- 18 *Console Exit button
- 19 *Console Previous button
- 20 *Console Down/Close button
- 21 *Console Up/Open button
- 22 *Console SET button
- 23 *Console Next button
- 24 *Antenna connector
- 25 *Console Display
- 26 Motor installation side selector
- 27 *Optional light module interface connector
- 28 *Standby battery charger/solar connector

* Not present on slave unit





Control board layout





Initial electrical installation



CAUTION: Cables which have a green/yellow coloured insulation are for earthing purposes only. Never use these cables for any other purpose.

Step 1. Installing antenna

Mount the antenna at or above the height of the gate or fence (which ever is higher) for optimal reception. Do not cut the coaxial cable.

Step 2. Connecting motor1 (master) and motor2 (slave) drive units

When dual gates are to be used the master and slave openers are connected via a five (5) wire cable (**Fig. 07**). Ensure that each end of the cable passes through a suitable cable gland which in turn is securely tightened to prevent ingress of dust, pests and water.

NOTE: The controller permits either Motor 1 or Motor 2 to be selected to open first, therefore, the side that each drive unit is mounted on is not fixed to which gate opens first.

Step 3. Selecting left or right hand installation

Refer to (**Fig. 08**) and (**Fig. 09**), place the motor connector for each drive unit as required.

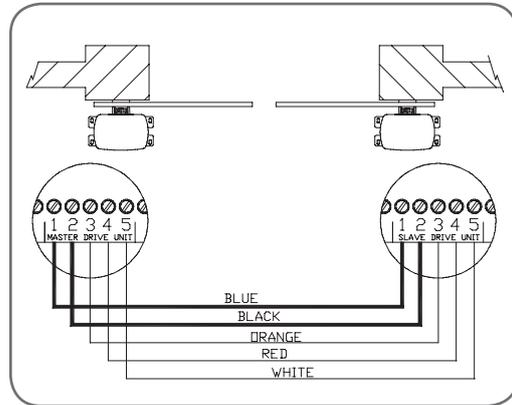


fig 07

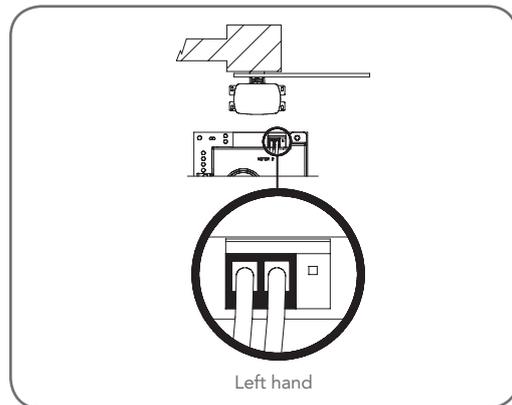


fig 08

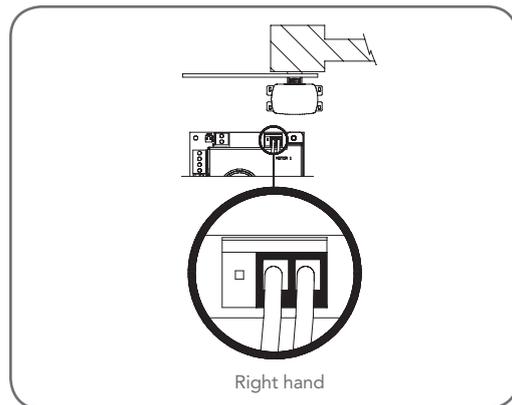


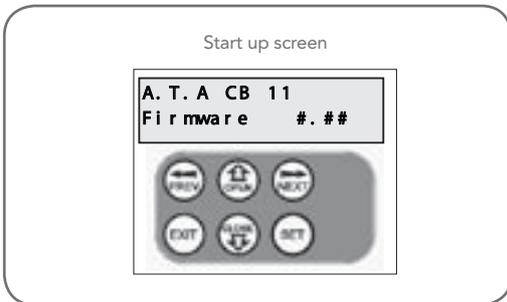
fig 09





Powering up the Drive Unit

fig 10



Check for damage to the power lead and ensure that it will not entangle with the drive mechanism. Connect to power. The controller will go through a startup sequence displaying the STARTUP SCREEN which indicates the controller type and firmware version.

After a short delay the MAIN SCREEN will be displayed. If this is the first time the controller has been used the MAIN SCREEN should indicate that the limits are not set. If the display shows that the gate is disengaged or an input is active then rectify the situation before continuing with the procedure for setting the travel limits for single or dual gates.

fig 11



Setting travel limits

fig 12



Single leaf gate

This section shows how to set the travel limits for a single gate installation. The procedure can be partly completed using a transmitter. In order to use a transmitter it must first have at least one of its buttons coded to the gate 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. **NOTE:** The limit setting procedure can be aborted at anytime by pressing EXIT.

NOTE: Gate should be moved manually to half open position. When re-engaging opener nudge gate until click is heard to confirm pinion gear has engaged fully.

Step 1. Navigating to "set gate travel menu"

1. Press PREV to navigate to the Menu 10 (Fig. 12).
2. Press SET to display MENU 10.1.
3. Press SET again to enter the limit setting procedure.





Setting travel limits

Step 2. Setting the left/right connector

1. Confirm motor connection is set for correct side (**Fig. 13**).
2. Press SET to confirm.



fig 13

Step 3. Confirming single gate mode

The controller will now determine whether a single or dual gate installation is required by trying to detect the presence of a second drive unit. As this is a single leaf gate installation, the screen below will be shown. Press SET to continue (**Fig. 14**).

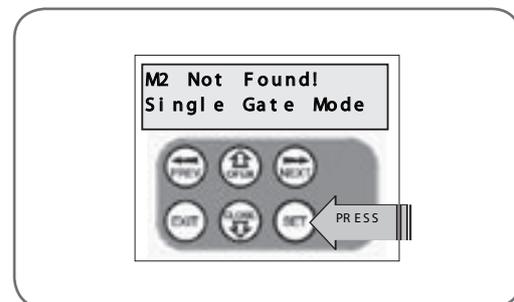


fig 14

Step 4. Setting close travel limit

1. Press CLOSE to move gate to the desired CLOSE LIMIT (or press button 4 on transmitter) (**Fig. 15**).
2. Press SET to record the CLOSE LIMIT (or press button 2 on Transmitter).

NOTE: Limit will not be accepted unless the gate is driven in the close direction.

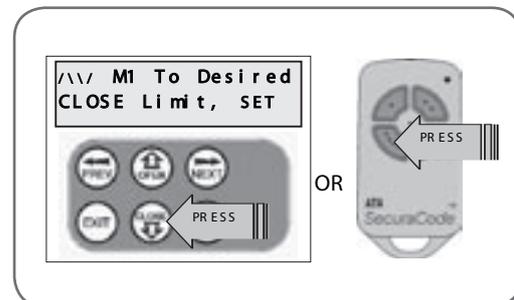


fig 15

Step 6. Setting open travel limit

1. Press OPEN to move gate to the desired OPEN LIMIT (or press button 1 on transmitter) (**Fig. 16**).
2. Press SET to record the OPEN LIMIT (or press button 2 on Transmitter).

NOTE: Limit will not be accepted unless the gate is driven in the open direction.

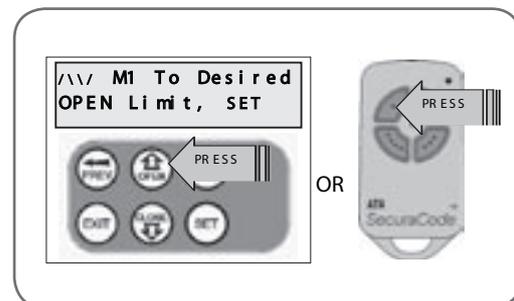


fig 16

Automatic limit adjustment and load profile

After a brief pause the controller will automatically close and open gate several times to adjust the speed at which the limits are approached and also to learn the normal load profile of the gate. When the setup is complete the MAIN SCREEN will be displayed with the gate shown to be Closed. The Gate can now be used.

NOTE: Do not press transmitter during limit adjustment process.

Pedestrian access position

After completing the above procedure the Pedestrian access position is automatically set to a position which is in the middle of the gate travel. The position can be manually set by following the SETTING PEDESTRIAN POSITION procedure.

Errors during setting of travel limit

During the above procedure many error checks are preformed. If an error is detected a message will be displayed indicating the error.





Setting travel limits

fig 17

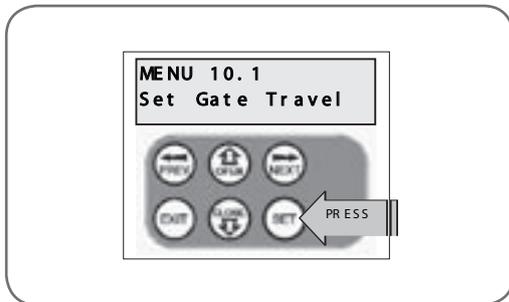


fig 18

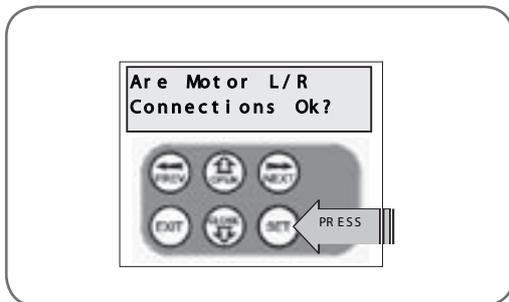


fig 19

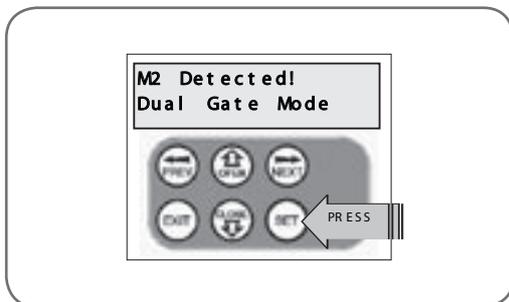


fig 20

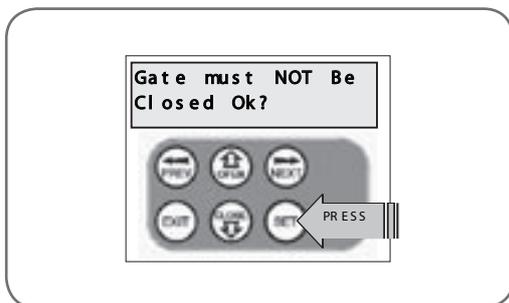
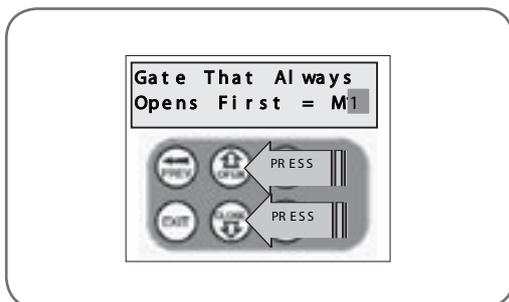


fig 21



Dual leaf gate

This section shows how to set the travel limits for a dual leaf gate installation. The procedure can be partly completed using a transmitter. In order to use a transmitter it must first have at least one of its buttons coded to the gate controller. The function assigned to the transmitter's buttons during coding is of no concern here as the buttons are temporarily assigned to OPEN, CLOSE and SET. **NOTE:** The limit setting procedure can be aborted at anytime by pressing EXIT.

NOTE: Gate should be moved manually to half open position. When re-engaging opener nudge gate until click is heard to confirm pinion gear has engaged fully.

Step 1. Navigating to "set gate travel menu"

1. Press PREV to navigate to the Menu 10 (Fig. 17).
2. Press SET to display MENU 10.1.
3. Press SET again to enter the limit setting procedure.

Step 2. Setting the left/right connector

1. Confirm motor connection is set for correct sides (Fig. 18).
2. Press SET to confirm.

Step 3. Confirming dual gate mode

The controller will now determine whether a single or dual gate installation is required by trying to detect the presence of a second drive unit. As this is a dual gate installation, the screen below should be shown. Press SET to continue. If Single Gate Mode is displayed then check the connections between the two drive units and press EXIT to restart from step 2 (Fig. 19).

Step 4. Confirming gates are not closed

Before proceeding, the gates must not be in the closed position. This is so that each leaf can be moved freely without interfering with the other. If the gates are closed, partially open them manually, then re-engage them. Press SET to continue (Fig. 20).

Step 5. Selecting which motor opens first during normal operation

The controller prompts to select which motor will open first during normal operation. The selected motor is also used for pedestrian access.

1. Use OPEN or CLOSE to change display to M1 or M2 (Fig. 21).
2. Press SET to save the selection.

NOTE: M1 is selected for the purpose of this instruction manual.

NOTE: The motor selected will determine the order in which each motor will be processed in the following steps. The procedure documented here shows the steps for when M1 is selected. If M2 is selected to open first, then the displayed motor numbers will be the opposite to those shown here.





Step 6. Setting close travel limit for M2

1. Press CLOSE to move M2 gate to the desired CLOSE LIMIT (or press button 4 on transmitter) (Fig. 22).
2. Press SET to record the CLOSE LIMIT for M2 (or press button 2 on transmitter).

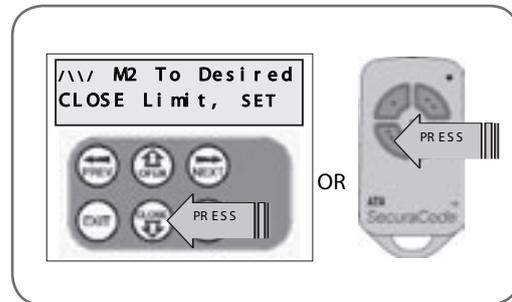


fig 22

Step 7. Setting close travel limit for M1

1. Press CLOSE to move M1 gate to the desired CLOSE LIMIT (or press button 4 on transmitter) (Fig. 23).
2. Press SET to record the CLOSE LIMIT for M1 (or press button 2 on transmitter).

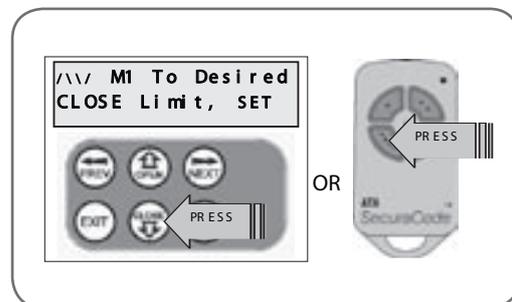


fig 23

Step 8. Setting open travel limit for M1

1. Press OPEN to move M1 gate to the desired OPEN LIMIT (or press button 1 on transmitter) (Fig. 24).
2. Press SET to record the OPEN LIMIT for M1 (or press button 2 on transmitter).



fig 24

Step 9. Setting open travel limit for M2

1. Press OPEN to move M2 gate to the desired OPEN LIMIT (or press button 1 on transmitter) (Fig. 25).
2. Press SET to record the OPEN LIMIT for M2 (or press button 2 on transmitter).



fig 25

Automatic limit adjustment and load profile

After a brief pause the controller will now auto-automatically close and open gates several times to adjust the speed at which the limits are approached and also to learn the normal load profile of the gates.

When the setup is complete the MAIN SCREEN will be displayed with the gate shown to be Closed. The Gate can now be used.

NOTE: Do not press transmitter during limit adjustment process.

Pedestrian access position

After completing the above procedure the Pedestrian access position is automatically set to a position which is in the middle of the gate travel. The position can be manually set by following the SETTING PEDESTRIAN POSITION procedure.

Errors during setting of travel limit

During the above procedure many error checks are preformed. If an error is detected a message will be displayed indicating the error.





Setting pedestrian position

fig 26

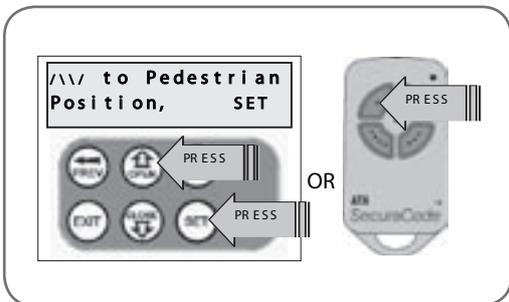


NOTE: Before setting the pedestrian access position the gate must be in the fully closed position. As with the Setting Travel Limit procedure, a transmitter can be used to complete the pedestrian position setting procedure.

Step 1. Navigating to "set pedestrian menu"

1. Press PREV to navigate to the Menu 10 (Fig. 26).
2. Press SET - MENU 10.1 is displayed.
3. Press NEXT to go to MENU 10.2.
4. Press SET to enter Set Pedestrian procedure.

fig 27



Step 2. Setting pedestrian position

1. Press OPEN to move gate to desired pedestrian access position (or press button 1 on transmitter) (Fig. 27).
2. Press SET to record position (or press button 2 on transmitter).

Step 3. Pedestrian position set

The controller will return to the MAIN SCREEN with the gate status shown as being in pedestrian access mode (Fig. 28).

fig 28





Description of standard operation

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

NOTE: A dual leaf gate installation is used to help explain operation. Ignore the second motor descriptions for single gate installations

Motor control

The controller drives the motors in the appropriate direction as instructed by the control inputs. When a dual gate installation is used, the motor selected to open first leaves the closed position first when opening and reaches the close position last when closing. Once a cycle is started the motors will continue to travel until:

1. The controller is instructed to stop by a control input.
2. The motor's travel limit is reached.
3. A motor is obstructed, overloaded or stalls.

When the control inputs instruct the control board to change the motor direction, the controller brakes the motors, waits for the gate to stop moving and then starts the motors in the opposite direction.

Motor obstruction detection

If the gate is obstructed while opening, it will stop. If it is obstructed while closing, both gates will stop and then reverse to the open position. Obstruction detection monitors each motor's speed and compares it to the "normal" speed profile for the motor. If the speed of a motor falls below the "normal" by the MARGIN RPM setting, 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 gate opener.

Motor speed control - SOFT START/SOFT STOP

Each motor's speed is controlled independently. When the gate starts to move the motor speed is ramped up to full speed and then ramped down as the travel limit is approached so as to come to a gentle stop.

Lock release output

The lock release output is configured to pulse for 0.5 seconds at the start of each cycle. The output is turned on at the same time the motors are activated.

Courtesy light

Courtesy lights can be activated with the addition of a module connected to the control board. Normally used to illuminate the driveway etc., the light will turn on each time the gate is activated (day or night) and automatically turn off one (1) minute after the cycle has finished. The light can also be activated and deactivated by pressing a transmitter button assigned the LGT function.

OPEN/STOP/CLOSE (OSC) input

(Activated by OSC terminal with N/O switch or by transmitter button with OSC function assigned). If the gate is moving the OSC input will cause the gate to stop. The next trigger will move the gate in the opposite direction to that last travelled.

Pedestrian access (PED) function

(Activated by PED terminal with N/O switch or by transmitter button with PED function assigned). The pedestrian access operation opens the gate partially to allow pedestrian access but prevent vehicle access. The position the gate leaf is driven to is automatically set to halfway during setting of the travel limits, but can be adjusted to suit.

Close (CLS) input

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

Swipe (SWP) input

(Activated by SWP terminal with N/O switch or by transmitter button with SWP function assigned). Activating the the SWP input will cause the gate to be opened. If the terminal input is held it will prevent the gate being closed. The swipe input also effects P.E TRIGGERED AUTO CLOSE.

Open (OPN) input

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

Stop (STP) input

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

Photoelectric safety beam (P.E) input

(Activated by PE terminal with N/C switch) When the P.E input is active, the gate is prevented from being closed. If the P.E input is triggered while the gate is closing, the controller will stop the motors and then open the gate. The P.E input has no effect while the gate is opening.

Vacation mode

Vacation mode allows one transmitter to disable remote control access for other coded transmitters. 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 any transmitter button which is assigned VAC 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 opener's standard operation 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 25 to make changes.

Menu 2. Obstruction margins

The obstruction margins are used to alter the sensitivity of the allowable variation between the "normal" speed profile and the controller to obstructions. Increasing the value increases the actual running speed.

Parameter	Min	Max	Default	Step	Unit	Menu No.
M1 MARGIN Sets obstruction detection margin for M1	0.0	20.0	10.0	0.5	RPM	2
M2 MARGIN Sets obstruction detection margin for M2	0.0	20.0	10.0	0.5	RPM	2

Menu 3. Auto-close times

The auto-close modes automatically close the gate after it has been operated. To implement this, the controller starts a timer once the gate has reached its desired open position. The timer then counts down and when it expires the controller starts to close the gate. Details about the four auto-close modes follow. ATA strongly recommend using a PE Beam for added safety.

Standard auto-close

This mode is selected by entering a non-zero time for the **STD Autoclose** parameter. When selected the gate will auto-close after being fully opened (except when the gate has reversed to the open position after a motor obstruction or overload). Countdown is suspended by: P.E, OPN or SWP input being active. The countdown is aborted if the STP input is activated. If the gate is already open and the OPN or the SWP input is activated then the countdown will start.

P.E triggered auto-close

This mode is selected by entering a non-zero time for the **"P.E Autoclose"** parameter. This mode is used to auto-close the gate but only after a vehicle have passed through the gateway and triggered the P.E input. The swipe input can be used to clear the P.E triggered status so that the P.E input must be activated again before the countdown will start. As with the other P.E modes the STP input will abort countdown and the OPN and SWP inputs will restart the countdown if the gate 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 gate will auto-close after being opened for pedestrian access unless it was following a reverse from an obstruction.

P.E triggered pedestrian auto-close

This mode is selected by entering a non-zero time for the **"P.E Ped'n A/C"** parameter. This mode is the same as the P.E 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

Two parameters are provided to enable the auto-close feature to be activated after obstructions. Normally the auto-close feature is not enabled after obstructions for safety reasons. A P.E beam must be used for these features to be activated.

Parameter	Min	Max	Default	Step	Unit	Menu No.
STD AUTOCLOSE TIME Sets and enables the standard auto-close time	0.0	300.0	0.0	1.0	Sec	3
P.E AUTOCLOSE TIME Sets and enables the P.E triggered auto-close time	0.0	300.0	0.0	1.0	Sec	3
PEDESTRIAN AUTOCLOSE TIME Sets and enables the Pedestrian auto-close time	0.0	300.0	0.0	1.0	Sec	3
P.E PEDESTRIAN AUTOCLOSE TIME Sets and enables the PE Pedestrian auto-close time	0.0	300.0	0.0	1.0	Sec	3
AUTOCLOSE AFTER CLOSE OBSTRUCTION Enables autoclose feature after close obstructions	Off	On	Off			3
AUTOCLOSE AFTER OPEN OBSTRUCTION Enables autoclose feature after open obstructions	Off	On	Off			3





Control board adjustments

Menu 4. Lock times

Lock output can be programmed for both hold and pulse motor starting. The operation of the lock can be programmed to operation and can also be programmed to activate prior to the gate behave differently on open cycle to that on close cycles.

Parameter	Min	Max	Default	Step	Unit	Menu No.
OPEN LOCK TIME Set the time the lock is activated for on open cycles	0.0	Hold	0.5	0.1	Sec	4
CLOSE LOCK TIME Set the time the lock is activated for on close cycles	0.0	Hold	0.5	0.1	Sec	4
PRE-OPEN LOCK TIME Time the lock is activated for prior to opening	0.0	25.5	0.0	0.1	Sec	4
PRE-CLOSE LOCK TIME Time the lock is activated for prior to closing	0.0	25.5	0.0	0.1	Sec	4

Menu 5. Light times

With the addition of a relay module connected to the control activated for prior to a drive cycle. This is used to warn that gate board, a light can be controlled. The time the light stays on, is movement is pending. The second times how long the light controlled by two timers. The first times the period the light is remains on after a cycle. The parameters are shown below.

Parameter	Min	Max	Default	Step	Unit	Menu No.
ON AFTER CYCLE LIGHT TIME Time light remains on for after a cycle	0	255	60	1	Sec	5
ON BEFORE OPEN CYCLE LIGHT TIME Minimum time light is activated for prior to opening	0	255	0	1	Sec	5
ON BEFORE CLOSE CYCLE LIGHT TIME Minimum time light is activated for prior to closing	0	255	0	1	Sec	5

Menu 6. Motor settings

Motor speed

The maximum speed the motors run at is controlled by the MOTOR FULL SPEED VOLTAGE parameter. The default value is the maximum recommended for normal operation. If however the gates move 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.

Gate leaf synchronising delays

These parameters determine the minimum distance that is maintained between the gates leaves when leaving or approaching the closed position. If the speed of the gates differs considerably then an extra delay can be introduced. The units used are revolutions of the drive pinion gear. **NOTE:** altering these parameters will cause the travels limits to be cleared.

Parameter	Min	Max	Default	Step	Unit	Menu No.
MOTOR FULL SPEED VOLTAGE Sets the full speed motor voltage	~12.1	~22	~20	~1	Volts	6
GATE LEAF SYNCHRONISING DELAY Sets the # of turns delay between gates opening	1	5	2	1	Revs	6
EXTRA SYNCHRONISING DELAY FOR CLOSE Additional # turns delay between gates opening	0	5	1	1	Revs	6





Control board adjustments

Menu 7. Operating modes

P.E input response mode

The P.E input can be configured to respond in one of three modes.

Open and close cycles stop

In this mode all cycles are prevented from being completed or initiated when the P.E input is active.

Close cycles stop

In this mode the P.E input has no effect when opening but will stop the gate when closing.

Reverses close cycles

In this mode the P.E input has no effect when opening but will cause the gate to reverse if activated when closing.

PED input function

The PED input can be configured to a SWIPE type input for pedestrian access. This provides full functionality with the P.E Triggered Pedestrian auto-close function.

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.

Activity reports

This parameter enables activity report outputs. Contact ATA for more details.

Activity report ID

This parameter sets the ID of the controller that is sent with the activity report. Contact ATA for more details.

Vacation mode

Vacation mode can be turned on or off using this parameter.

Battery/solar mode

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.

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. Alternately the user may log out manually by pressing exit when the main screen is displayed.

Open input polarity

The OPN input is normally configured for N/C operation. This parameter allows its operation to be changed to N/O.

Parameter	Min	Max	Default	Step	Unit	Menu No.
P.E INPUT RESPONSE MODE Sets the P.E response mode. Options are OPEN and CLOSE cycles stop, Close cycles stop or Close cycle reverse	OPN & CLS stop CLS to stop CLS to reverse	CLS to stop CLS to reverse	CLS to reverse			7
PED INPUT = SWIPE MODE Selects PED input functions as pedestrian access swipe input	Off	On	Off			7
REMOTE CODE ENABLED Selects remote transmitter coding function	Off	On	On			7
ACTIVITY REPORTS Select report to be output	Off	255	Off	1		7
ACTIVITY REPORT ID Selects ID for controller, sent with activity report	0	65535	0	1		7
VACATION MODE Selects vacation mode - disables remote control	Off	On	Off			7
BATTERY/SOLAR MODE Selects Battery Backup/Solar operation	Off	On	On			7
PASSWORD Selects password protection for all changes	Off	On	Off			7
OPN INPUT N/O OPERATION Selects operating polarity of OPN input	Off	On	Off			7





Viewing and editing parameter

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

Locating parameters

Refer to MENU STRUCTURE on Page 14 or the preceding section for CONTROL BOARD ADJUSTMENTS. Locate the required parameter and note the MENU number. The example in (Fig. 29) uses "CLOSE LOCK TIME" will be used as an example.

Changing setting

1. Press NEXT/PREV to navigate to the required menu.
2. Press SET to show sub menu.
3. Press NEXT/PREV to go to required submenu.
4. Press SET to enter edit mode.
5. Press UP/DOWN 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.
6. 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 EXIT to return to sub menu. Press EXIT again to return to the MAIN SCREEN.

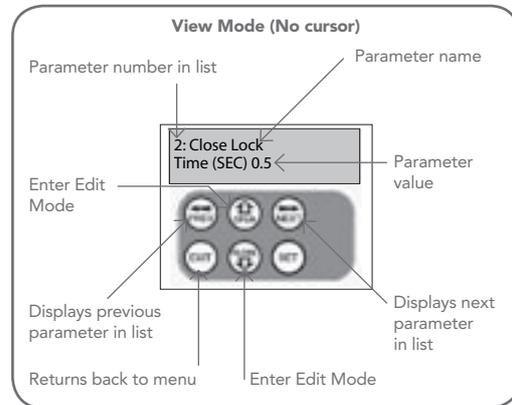


fig 29

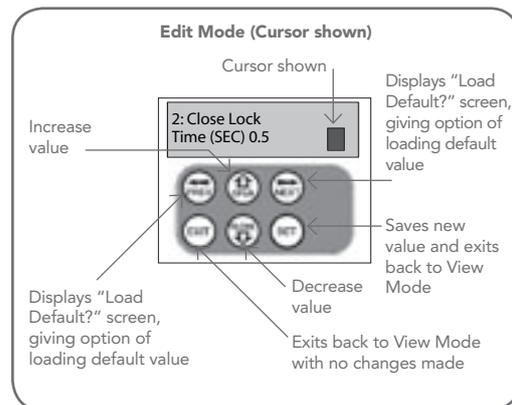
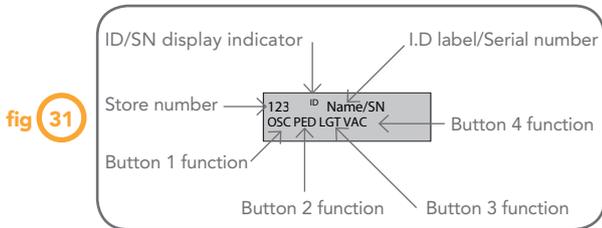


fig 30

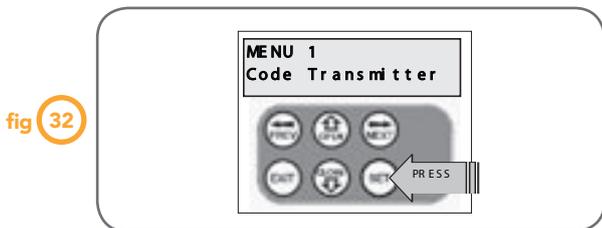




Coding transmitter



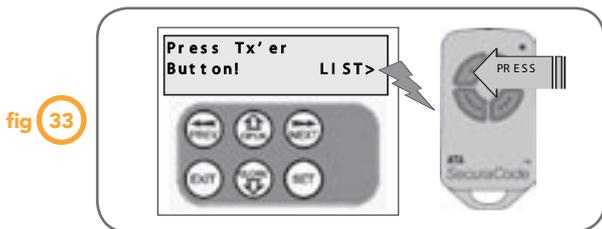
Up to thirty (30) transmitters can be stored within the openers memory. Each transmitter can be allocated an alpha-numeric ID label up to eleven (11) characters in length and each button can be assigned to one of several control functions. The settings for a transmitter are represented in (Fig. 31). 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.



Coding transmitter button

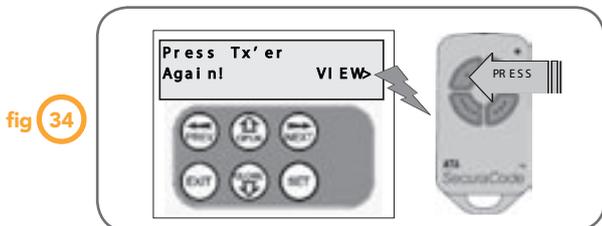
Step 1. Navigating to "code transmitter" menu

1. Press NEXT to navigate to the Menu 1 (Fig. 32).
2. Press SET to enter code set procedure.



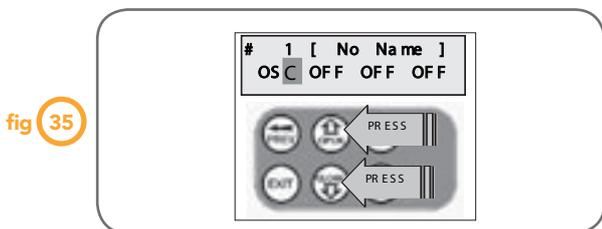
Step 2. Storing transmitter code

1. Controller will prompt to press one of the transmitter's buttons.
2. Press the transmitter button you wish to use to operate the Gate Opener (e.g. button 1) (Fig. 33).
3. Press same transmitter button again as prompted by display (Fig. 34).



Step 3. Selecting function of the button

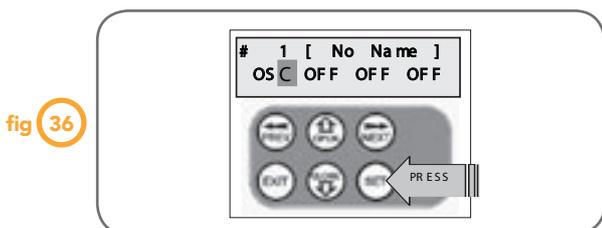
The controller will now show the transmitter's record, with a cursor on the field for the button being coded (Fig. 35). Use UP/DOWN to select the function for the button.



Available functions:

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

Press SET to save the settings or EXIT to abort without saving (Fig. 36).



Returning to main screen

The "Code Transmitter" menu will now be shown. Press EXIT to return to the MAIN SCREEN and test the transmitter.

NOTE: To edit the other settings, refer to TRANSMITTER EDIT PROCEDURE.





Transmitter edit procedure

Editing transmitter settings

Step 1. Display transmitter record

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

Step 1. Navigating to "edit transmitter" menu

1. Press NEXT to navigate to the Menu 1 (Fig. 32).
2. Press SET to enter the transmitter edit procedure.
3. Press NEXT to enter transmitter list and edit mode.

Step 2. 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 UP or DOWN to change the displayed value (Fig. 37). The available functions are shown below (Fig. 37). Selecting OFF will prevent the opener responding to that button.

Available functions

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

3. Press SET to save changes or press NEXT or PREV to move to next field. The example in (Fig. 37) shows that PED is assigned to the transmitter button 2. The transmitter in the example is transmitter number 12 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 EXIT to continue editing.

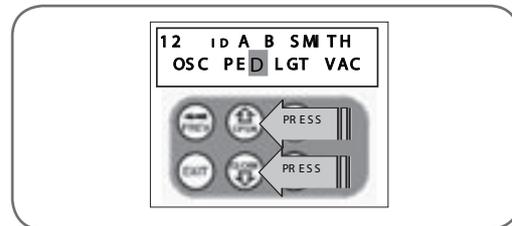


fig 37

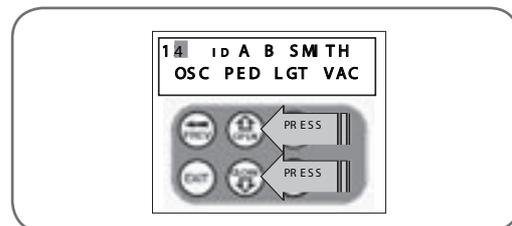


fig 38

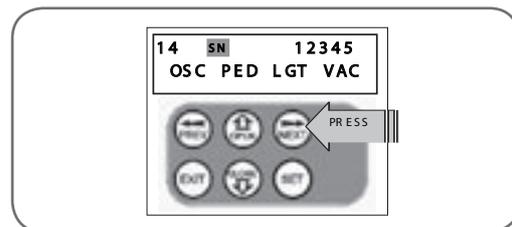


fig 39

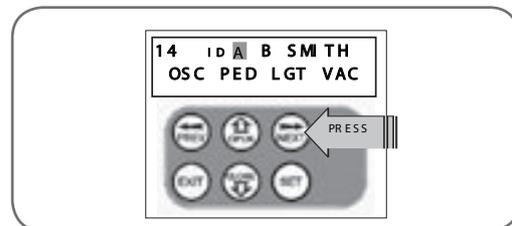


fig 40



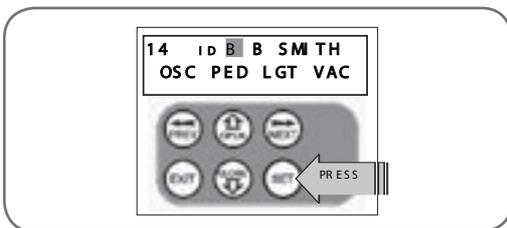


Transmitter edit procedure

fig 41



fig 42



Step 4. 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 cursor over Store No.
2. Press UP or DOWN to select new Store No (**Fig. 38**).
3. Press SET to Confirm or NEXT/PREV to move to next field.

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

Step 5. Selection of id or s/n display

1. Press NEXT/PREV to move cursor over ID field.
2. Press NEXT to reveal Serial Number (**Fig. 39**).

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

Step 5. Editing a character field

1. Press NEXT or PREV to move select character to change.
2. Press UP or DOWN to scroll through and select new character.
3. Press NEXT or PREV to move to 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.



Transmitter management

The opener provides a transmitter listing facility which enables the user to find a transmitter location within 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 1. Accessing the list menu

1. Press NEXT to navigate to the Menu 1 (Fig. 43).
2. Press SET to enter the transmitter edit procedure.
3. Press NEXT to enter transmitter list and edit mode (Fig. 44). Used if the transmitter is not available.

Method 2 - Use transmitter to go direct to list

Step 1. Accessing the list menu

1. Press NEXT to navigate to the Menu 1 (Fig. 46).
2. Press SET to enter the transmitter edit procedure.
3. Press transmitter once (Fig. 47).
4. Press NEXT to view transmitter parameters (Fig. 48). Used for quick navigation if the transmitter is available.

NOTE: "VIEW>" will not be shown if the transmitter is not stored.

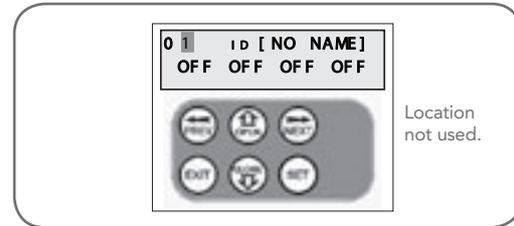


fig 45

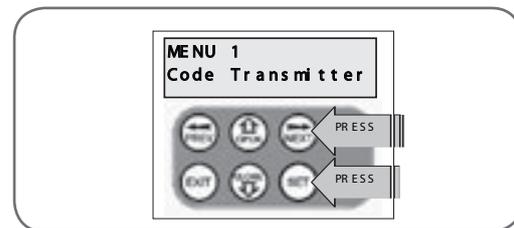


fig 46

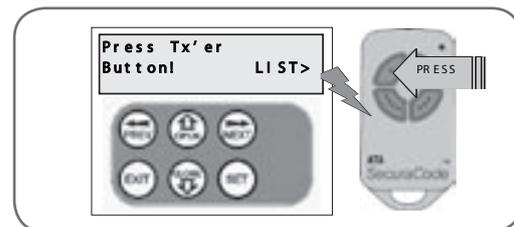


fig 47

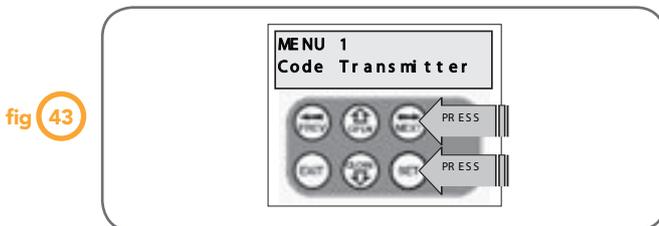


fig 43

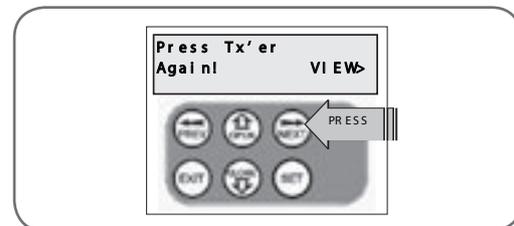


fig 48

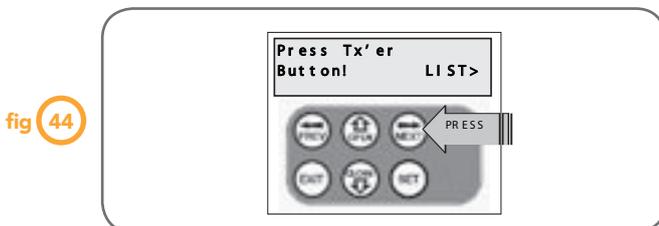


fig 44

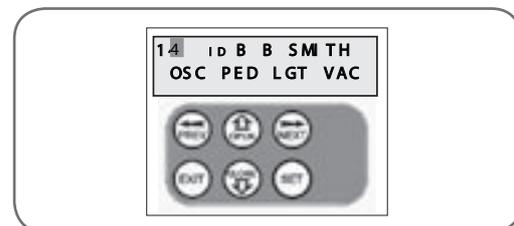


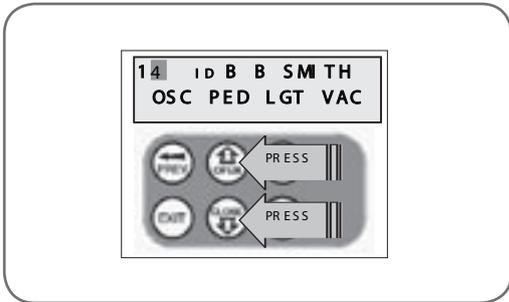
fig 49





Transmitter management

fig 50



Once the list is displayed it can be sorted by Store number, ID Label or Serial Number. Use NEXT or PREV button to select sorting method.

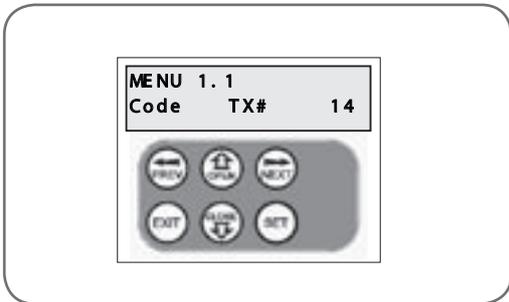
NOTE: When sorting by ID label or S/N, only stored transmitters locations are displayed.

Step 2. Navigating the list

1. Press UP or DOWN buttons to navigate through list (**Fig. 50**).
2. Press SET to display menu of available functions.

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

fig 51



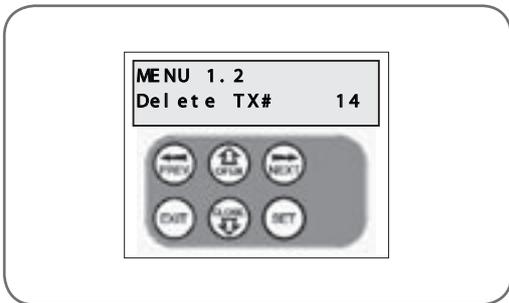
Selecting an operation

Press NEXT or PREV to cycle through four menu options (**Fig. 51 -54**). Press EXIT 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.

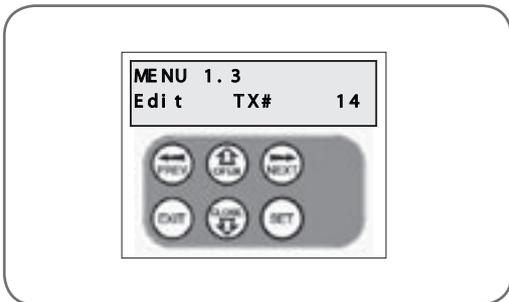
fig 52



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.

fig 53



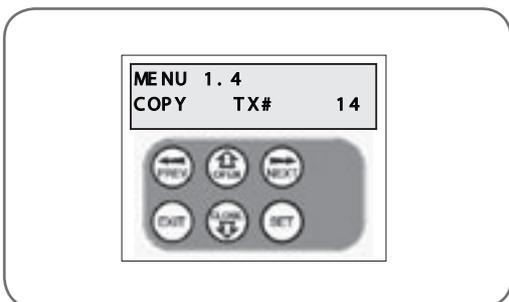
Delete operation

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.

fig 54



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 EXIT button.

Exiting the list

To exit the transmitter list simply press EXIT to return to the Code





Remote code set procedure

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.

1. Selecting the function to be coded

Using the existing transmitter, operate the gate with the transmitter button which has the function to be coded (**Fig. 55**) (e.g. Button 1 has been coded with the OSC function assigned).

2. Wait for gate to complete cycle

If the button's function activates the gate (PED, SWP, OSC, CLS, STP or OPN) wait for the gate to complete its cycle.

3. Activate remote code set mode

Using a small pin press and hold through the Coding Hole of the existing transmitter for two seconds (**Fig. 56**).

4. Code new transmitter button

Within 10 seconds, press the button on the new transmitter you wish to code for 2 seconds (**Fig. 57**).

5. Confirm transmitter button to be coded

Press the same button again (within 10 seconds) for confirmation.

6. Test operation

The new transmitter button should now function as the existing transmitter.

NOTE: When a transmitter is remote 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 remote coded transmitter can be identified.

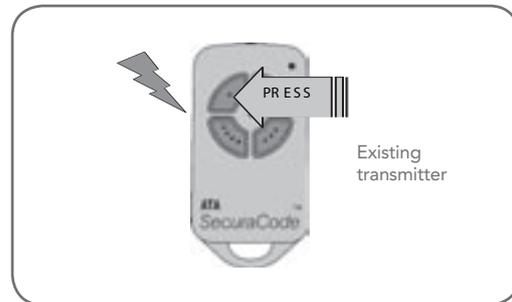


fig 55

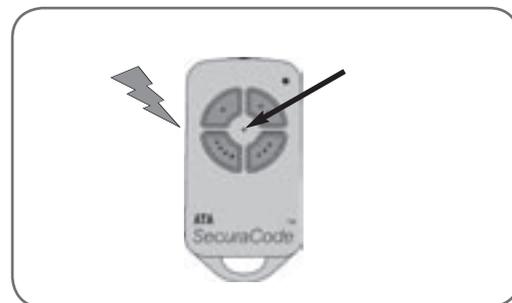


fig 56

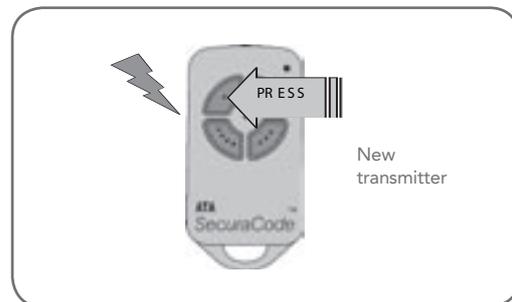


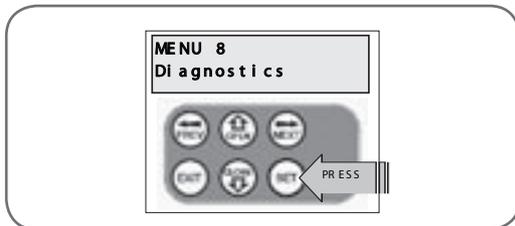
fig 57





Diagnostic tools

fig 58

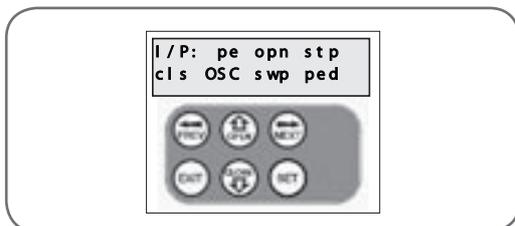


The controller provides several diagnostic tools from within the diagnostics menu (menu 8) this section details the function of each tool and its use.

Navigating to diagnostics menu

1. Press PREV to navigate Menu 8 (Fig. 58).
2. Press SET to display menu of available functions.
3. Press PREV or NEXT to cycle through diagnostic tool.
4. Press SET to select.

fig 59



Menu 8.1 Test inputs

This tool is used to view the state of the control inputs. When selected, a screen is displayed (Fig. 59) which indicates the state of each input. If the name of the input is in uppercase then the input is active, conversely is the input is in lower case then the input is inactive. For normal operation all inputs should be inactive. When finished press EXIT. The example shows the status as OSC input is active.

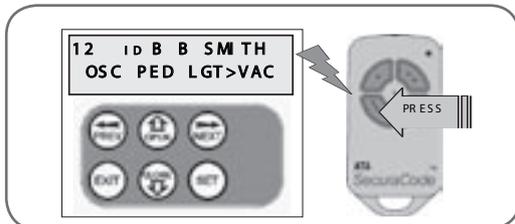
fig 60



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. 60) 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. 61). The example shows the case when transmitter number 12 is activated by button 4. Note ID is selected for display.

fig 61



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. 62). 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 gate. When finished viewing the events, press EXIT.

fig 62



fig 63



Menu 8.4 Memory usage

This tool displays the number of transmitter store location used and the number free (Fig. 63).





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 at the beginning of each drive cycle and a message will be displayed on the MAIN SCREEN (Fig. 64). 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)

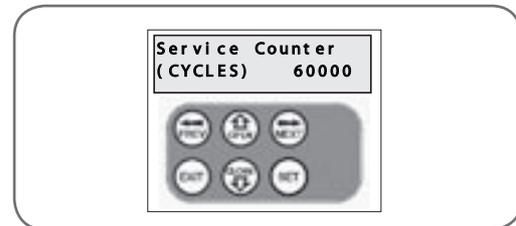


fig 64

Menu 8.6 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. 65). Press NEXT or PREV to step through the list. The example below shows the OPEN CYCLE event counter with a value of 1234. When finished viewing press EXIT.

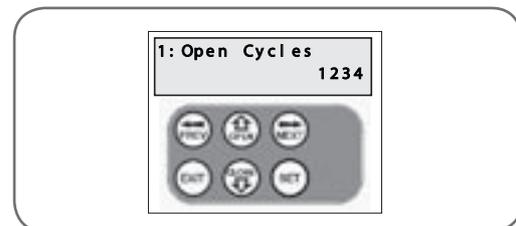


fig 65

- | | |
|---------------------------|---------------------------|
| 1: Open Cycles | 15: M2 Close Obstructions |
| 2: Close Cycles | 16: M1 Open Overloads |
| 3: Ped Cycles | 17: M2 Open Overloads |
| 4: Setup Limits | 18: M1 Close Overloads |
| 5: Comm's Loss | 19: M2 Close Overloads |
| 6: Sync Faults | 20: M1 PWM Sync Faults |
| 7: Overlaps | 21: M2 PWM Sync Faults |
| 8: M1 Open Stall | 22: M1 PWM Drive Faults |
| 9: M2 Open Stall | 23: M2 PWM Drive Faults |
| 10: M1 Close Stall | 24: M1 Direction Faults |
| 11: M2 Close Stall | 25: M2 Direction Faults |
| 12: M1 Open Obstructions | 26: M1 Sensor Faults |
| 13: M2 Open Obstructions | 27: M2 Sensor Faults |
| 14: M1 Close Obstructions | |





Memory tools

fig 66



The Memory Tools accessed from within Menu 9 are used to backup, restore or 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 Clr control

This option will clear the gate 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 Clr tx'ers

This option will clear the transmitter storage memory.

Menu 9.3 Backup tx'ers

This option saves a copy of the transmitter memory into a memory module connected to the controllers programmer connector.

Menu 9.4 Restore tx'ers

This option will restore the transmitter memory from the inserted memory module.

Menu 9.5 Import labels

This option will overwrite the current transmitter labels with those stored in the inserted memory module. This option is provided so that transmitter labels entered using Transmitter Management software on a P.C can be loaded into memory without altering the transmitters themselves.



Accessories installation

Fitting photo electric beam

Locate the Photo Electric (P.E.) Beam in a strategic location in the gateway. ATA recommend that the sensor is placed 150mm above the floor level and as close as possible to the gate opening. Remove the shunt from the P.E. input and connect as per the wiring diagram at right. Make sure that the sensors are correctly aligned as per the instruction manual supplied with the P.E. Beam kit. See Page XX for set up of Auto-Close times.



WARNING: When using auto-close mode and P.E. Beams the gateway must be clear of all obstructions and persons at all times. The location of the P.E. Beam and the manner in which it is installed might not give safety protection at all times. Check to make sure that the height of the sensor and type used offers maximum protection possible.

Fitting solenoid or magnetic locks

Install the lock mechanism on the gate as per the manufacturers instructions. The wiring diagram at right is a representation of a typical lock with a bias for normally closed contact. See Page XX for Lock Times set up.

Fitting courtesy lights

An AC or DC courtesy light can be activated via an output on the gate opener control board. Connect the light as per the diagram at right. See Page XX for Light Times set up.



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

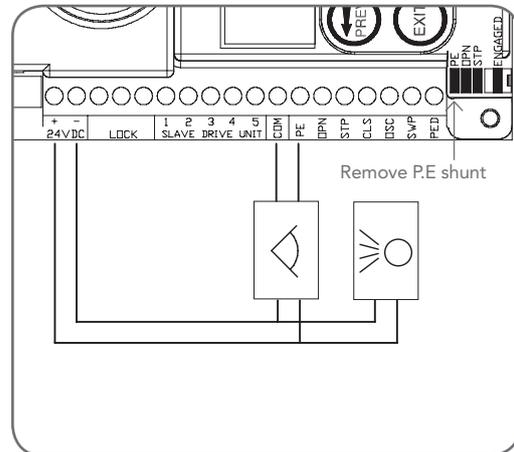


fig 67

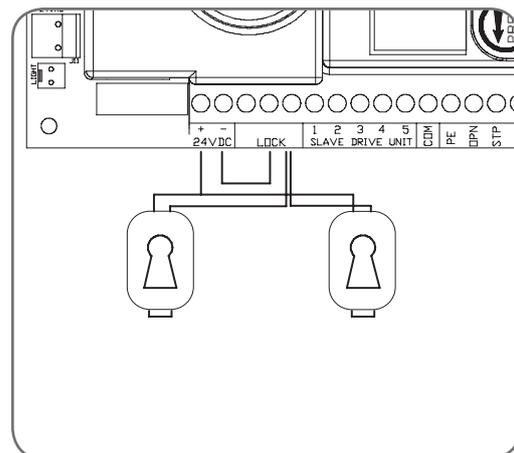


fig 68

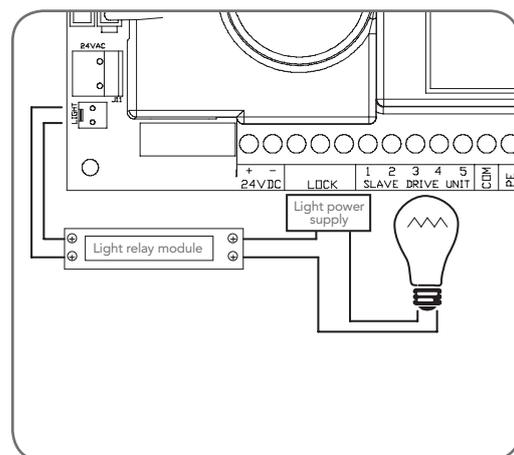


fig 69





Trouble shooting guide

Symptom	Possible cause	Remedy
Gate will not operate	Mains power not switched on Door is obstructed Door is locked or motor jammed Door tracks/hardware damaged	Switch on mains power Remove obstruction Unlock door or remove jam Door requires service/repair by qualified technician
Gate starts to close but automatically reverses to open position	Adverse weather conditions (wind or cold) causing gate to stiffen and become tight in the tracks Possible obstruction in the gateway	Increase force margin setting. See page XX Remove obstruction
Gate does not operate from transmitter *See note	Transmitter code not stored in memory Flat battery - LED flashes	Code transmitter in to openers memory. Refer to page XX Replace battery - A23 Alkaline 12V
Gate will not close fully	Gate limits position need to be reset	Reset limits positions. See Page XX
Gate will not open fully	Gate limits position need to be reset	Reset limits positions. See Page XX
Opener beeping and gate does not move	Disengagement lever opening Disengage connector not plugged in	Close disengage lever and lock in place Plug connector into J10 socket on board
Auto close not working	PE Beam or wiring faulty PE Beam not aligned correctly PE Beam is obstructed Gate obstructed when closing Auto close time not set Auto close mode not set	Repair PE Beam or replace wiring Re-align optics Remove obstruction from the path of PE Remove obstruction See page XX See page XX

PLEASE NOTE:

Some areas may be prone to excessive radio interference brought on by devices such as cordless telephones, wireless stereo headphones and baby monitors. It is possible that these devices could cause a degree of interference such as to greatly reduce the range of the transmitter. In such an instance please contact your ATA dealer for an alternative frequency replacement kit. As this is not a warrantable situation but an environmental issue charges may apply for the changeover.





Specifications

Technical Specifications

Protection rating:	IP33
Input voltage:	230V - 240V AC 50Hz
Transformer primary voltage:	230V/240VAC
Secondary voltage:	24V AC 150 VA
Controller voltage:	24V DC
Motor type:	Permanent Magnet Direct Current
Motor voltage:	24V DC
Maximum pulling force:	200N
Maximum gate opening: ^{1,2}	Width: 5700mm Height: 250kg
Opener maximum Opening/closing run time:	30 seconds
Receiver type:	UHF 433.92 MHz am Receiver
Receiver code storage capacity:	30 x 4 Button Transmitter Codes
Transmitter frequency:	433.92 MHz
Coding type:	Hopping Code
No. of code combinations:	Over 4.29 billion random codes
Code generation:	Non-linear encryption algorithm
Transmitter battery:	A23 Alkaline 12V

NOTE:

1. The maximum opening that the EasySlider can be installed on is 5700mm wide and 250kg. The gate must be well balanced. A person should be able to move the gate manually with very little effort (15kg force max.) in case of an emergency.
2. Intermittent operations may occur in areas which experience very strong wind gusts. A strong wind puts extra pressure on the gate and tracks which may in turn trigger the safety obstruction detection system intermittently.

NOTE: Specifications are subject to change without notice.



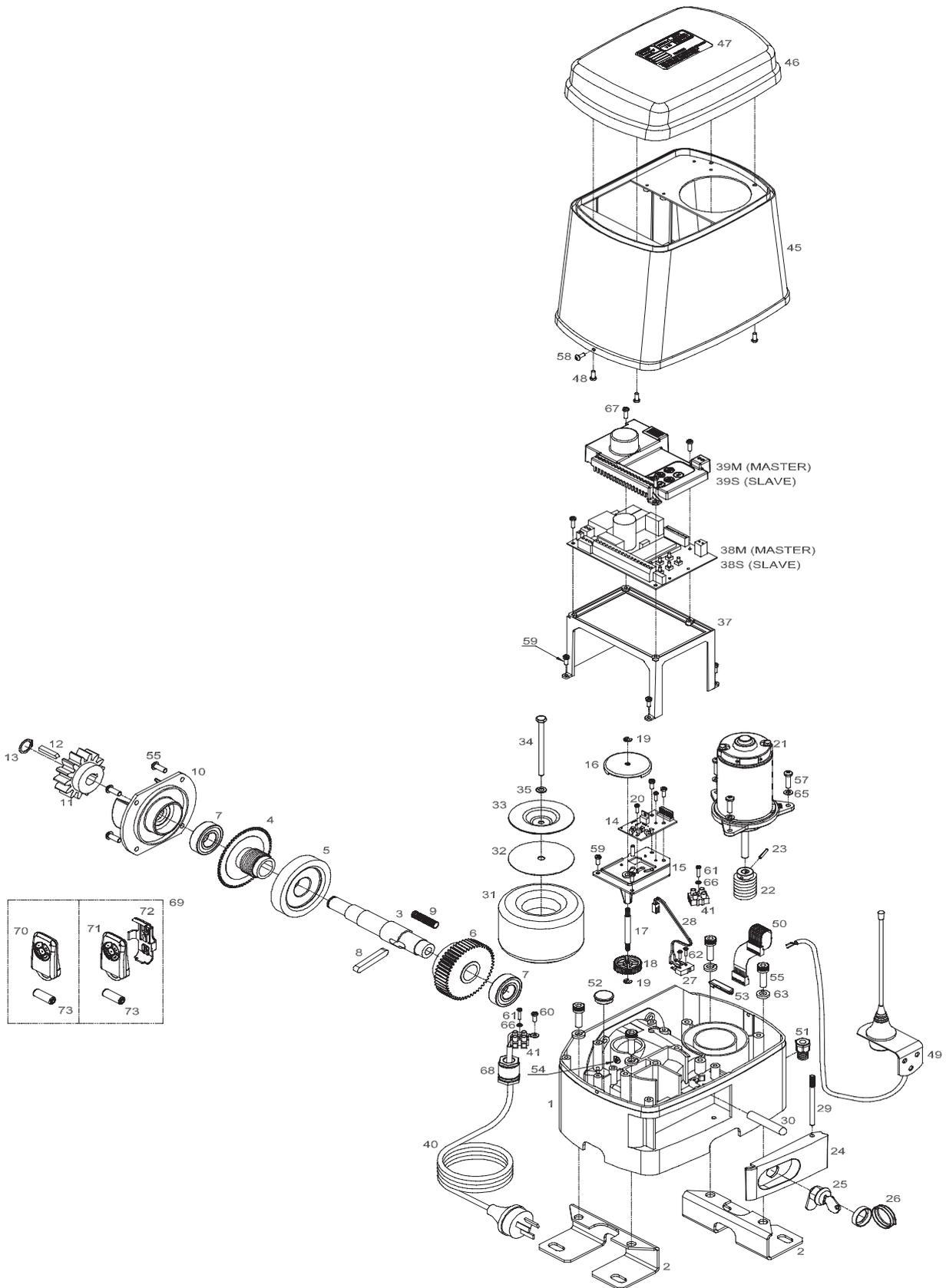


Parts list

When ordering spare parts please quote the order code number to your installer/dealer.

Item/description	order code		
1 Base	02400	40. Power cord 1.5m W2PIN + 1 ring	14150
2 Mounting bracket ext	02502	41. Terminal block 500/02DS 2 POS	05421
3 Shaft 271555	04504	45. Cover slider	02460
4 Quad counter	02450	46. Top cover	02470
5 Partition moulded	02440	47. Slider label ESV24	13572
6. Helical gear 5015	04050	48. Taptite screw 'P' M4 x 10	10570
7. Ball bearing 6004.2RS	03900	49. Antenna 433Mhz with 3.0m Coax. cable	01971
8. Key 8750	04404	50. Q-G 301 harness assy	01795
9. Compres. spring 91501	02872	51. Nylon cable gland PGB7-07B	05622
10. Shaft bearing housing	02410	52. Plug - dia 21 hole	11881
11. Gear 14T	15080	53. Plug - 8 x 32	11885
12. Key 528	15180	54. Earth label	13704
13. External circlip D1400 0160	10780	55. Cap head screw M8 x 25	10070
14. Quad-gray 3.02 board	01698	56. Button head screw S.S M6 x 16	10023
15. Plate timing	02702	57. Pan head screw ZnCROM M5 x 16	10474
16. Limits wheel	16358	58. Button head screw ZnCROM M4 x 10	10027
17. Limits shaft 663	04030	59. Pan head screw w/washer M4 x 10	10340
18. Helical gear 40075	04040	60. Pan head screw w/washer M4 x 8	10320
19. E circlip D1500 0040	10830	61. Pan head screw M3 x 14	10360
20. Taptite screw 'P' M3 x 8	10560	62. Pan head screw M2.5 x 10	10375
21. Drive assy DCM-11	00300	63. Spring washer I.D 8	10950
22. Worm 2315	04934	64. Cable tie 4" GT-100M	14160
23. Sel-lok spring pin ACP M3 x 20	02576	65. Spring washer I.D 5	10970
24. Door	02420	66. Internal tooth lock washer I.D 3	11150
25. Locks-key	04620	67. Taptite screw 'P' M4 x 12	10569
26. Top and bottom lock cap	15220	68. Nylon gland M16-07B	05621
27. Microswitch ABS 111454	09261	69. Securacode PTX-4 and wallswitch pack	01220
28. M/SW harness ESV24/240	12240	70. Transmitter grey buttons PTX-4	01210
29. Hinge pin	02560	71. Transmitter red buttons PTX-4	01211
30. Rod disengagement	02565	72. PTX holder	05196
31. Transformer 150VA-05546 TDB-150-08	05546	73. Alkaline battery A23 12V	13030
32. Washer rubber 75 x 8 x 1	04887	74. Plastic wall plug	01479
33. Washer cap 75 x 6.2 x 10.2H x 1.5T	11165		
34. Hex head screw M6 x 75	10261		
35. Spring washer I.D 6	10960		
37. PCB support	02430		
38M. Control board CB-11 V-1.02 master	01060		
38S. Control board CB-11 V-1.02 slave	01062		
39M. PCB cover assy ESV24/240 master	02490		
39S. PCB cover assy ESV24/240 slave	02491		







Warranty and exclusion of liability

1. This warranty is an addition to any non-excludable conditions or warranties that are implied into this contract by relevant statute, including the Trade Practices Act 1974 (Cth).
2. Subject to all of the matters set out below, Automatic Technology Australia Pty Ltd ("ATA") warrants:
 - (a) swing and sliding gate opener drive units for twelve (12) months or 2500 cycles, whichever occurs first;
 - (b) roll-up and overhead door opener drive units for twenty four (24) months or 5000 cycles, whichever occurs first; and
 - (c) all components and accessories for twelve (12) months, from the date of purchase (specified in the sales docket receipt) as free of any defects in material and workmanship.
3. This warranty applies only where the purchaser:
 - (a) immediately notifies ATA or the retailer of the alleged defect;
 - (b) returns the product to the retailer; and
 - (c) presents the relevant sales docket and this warranty document to the retailer to confirm the date of purchase.
4. Except for this warranty, ATA gives no warranties of any kind whatsoever (whether express or implied), in relation to the product, and all warranties of whatsoever kind relating to the product are, to the extent permissible by statute, hereby excluded.
5. To the extent permissible by statute, ATA disclaims any liability of whatsoever nature in respect of any claim or demand for loss or damage which arises out of:
 - a) accidental damage to or normal wear and tear to the product or to the product's components;
 - b) any cost relating to damage resulting from wear and tear;
 - c) blown fuses, loss or damage caused by electrical surges, power surges or power spikes;
 - d) loss or damage due to theft, fire, flood, rain, water, lightning, storms or any other acts of God;
 - e) maximum continuous operating time exceeding one (1) minute in ten (10);
 - f) maximum operating force exceeding 15kg (150N) when moving the door or gate manually to the open or closed position;
 - g) door surface area and/or weight exceeding 15m² and 100kg respectively;
 - h) residential gate weight exceeding 400kg;
 - i) door or gate not in safe and correct working order and condition;
 - j) evidence of unauthorised repairs;
 - k) any cost relating to damage caused by misuse, negligence or failure to maintain the equipment in a proper working order as per clauses (d) through (i);
 - l) installation, adjustment or use which is not in accordance with the instructions set out in installation instruction manual;
 - m) attempted or complete modification or repairs to the product carried out by a person who is not authorised or has not been trained by ATA to carry out such modification or repairs;
 - n) faulty or unsuitable wiring of structure to which the product is fixed or connected;
 - o) radio (including citizen band transmission) or any electrical interference;
 - p) damage caused by insects;
 - q) loss or damage to any property whatsoever or any loss or expense whatsoever resulting or arising there from or any consequential loss;
 - r) any cost or expense arising due to manufacturer recall of any product;
 - s) any cost or expense due to negligence of the approved service provider;
 - t) installation of a residential garage door or gate opener in a commercial or industrial situation or a non-single residential dwelling.
6. ATA's liability under this warranty is limited, at ATA's absolute option, to replacing or repairing the product which ATA, in its unfettered opinion, considers to be defective either in material and/or workmanship or to credit the dealer with the price at which the product was purchased by the dealer.
7. This warranty does not extend to cover labour for installation.
8. This warranty is limited to Return-to-Base (RTB) repair and does not cover labour for on-site attendance.
9. This warranty is void if the Product is not returned to the manufacturer in original or suitably secure packaging.
10. This warranty is only applicable for repairs to the product carried out within Australia.
11. This warranty does not cover consumable items including globes, batteries and fuses.
12. This warranty is not transferable.
13. Where the Product is retailed 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.

NOTES:

1. One (1) cycle = one (1) open and one (1) close action of the door or gate.
2. This warranty is to be read in conjunction with the owner's copy of the installation instruction manual.





Purchased from: _____ Phone: _____

Installed by: _____ Date: _____

Serial No: _____

AUTOMATIC TECHNOLOGY AUSTRALIA PTY LTD

ABN 11 007 125 368

17-19 Advantage Rd, Highett, Victoria, Australia 3190

Tel: +61 3 9532 2788 Fax: +61 3 9532 2799

Web: www.ata-aust.com.au Email: sales@ata-aust.com.au

©March 2005 Automatic Technology Australia Pty Ltd. All rights reserved. SecuraCode® is a registered trademark of Automatic Technology Australia Pty Ltd. In an ongoing commitment to product quality ATA reserve the right to change specification without notice. E&OE. Printed For Export.





automatic
TECHNOLOGY

smart | simple | secure

an alesco company

Automatic Technology Pty Ltd

ABN 11 007 125 368

6-8 Fiveways Boulevard
Keysborough, Victoria 3173
P 1300 133 944

E sales@ata-aust.com.au
www.ata-aust.com.au