

NOTE TO INSTALLER:

This user manual is supplied for the instruction and safety of the end user. Please ensure this manual is left with the end user on completion of the installation and after carrying out setting and safety checks

Thankyou for purchasing a Cardale Steel-line garage door opener. This product will give you many years of useful service provided it is used correctly and is properly maintained.

THIS EQUIPMENT MUST BE USED IN ACCORDANCE WITH THESE INSTRUCTIONS. FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN DAMAGE TO THE INTEGRITY OF THE SAFETY CIRCUITS.



CAUTION

IMPORTANT SAFETY RULES

The opener should be activated only when the door is in full view, free of obstacles and correctly adjusted. Nobody should enter or leave the garage while the door is moving. Children should NOT be allowed to play near the door.

Never let children operate, or play with door controls. Keep remote control away from children. Ensure push buttons are out of reach of children.

Always keep a moving door in sight and away from people and objects until it is completely closed. **NO ONE SHOULD CROSS THE PATH OF A MOVING DOOR.**



CAUTION

The safety reverse system test is very important. Your garage door must reverse when obstructed on closing. Failure to properly adjust the operator may result in serious personal injury from a closing garage door. Repeat the test once a month and make any needed adjustments (See Section 6 – Safety Sensitivity adjustment.)

Do not use the force adjustments to compensate for a binding or sticking garage door. Excessive force will interfere with the proper operation of the Safety Reverse System or damage the garage door.

Keep garage door balanced. Sticking or binding doors must be repaired. Garage doors, door springs, cables, pulleys, brackets, and their hardware are under extreme tension and can cause serious personal injury. **Do not attempt adjustment.** Call for professional garage door service.

IMPORTANT SAFETY RULES CONTINUED...



DANGER

Installation and wiring must be in accordance with your local building and electrical regulations.

Any electrical work must be carried out by a suitably qualified person, if in doubt consult a qualified electrician.

Use only the mains lead supplied with the operator.

Connect the mains lead to an adjacent 13amp 3 pin socket. The plug must be fitted with a 3 amp fuse.

NOTE For optimum electrical safety this operator should be connected to circuit protected by a R.C.D. (max 30 mA trip rating).



CAUTION

If your garage has no service entrance door then an exterior release kit **MUST** be fitted. This accessory allows manual operation of the garage door from outside in case of power failure.



DANGER

Disconnect electric power to the garage door operator before making repairs or removing covers.



CAUTION

Use the manual release lever to disengage the motor drive **ONLY** when the drive is switched OFF and, if possible, when the door is fully closed.

When pressing the hand transmitter buttons to reprogramme or add additional transmitters the door will operate. Ensure that the door is free from obstruction. (See section 5).

WARNING: The 4 way D.I.L. switch on the control unit P.C.B has been factory set and sealed and MUST NOT be tampered with. Failure to comply with this instruction could result in a hazardous situation.

IMPORTANT SAFETY NOTE

Only operate the door when the door is in full view, free of obstacles with no persons (particularly children) near the door. Nobody should be allowed to enter or leave the garage whilst the door is in motion.

1

HOW TO OPERATE YOUR STEEL-LINE AUTOMATIC DOOR

A red L.E.D (situated to the LH side of the front label) indicates that power to the unit is switched ON, and unit may be operated. This L.E.D will flash when the motor is running.

1 To open/close from outside the garage.

- Use the remote control hand transmitter.
- Press the green button for approx 1/2 second.
- A red LED on the hand transmitter indicates that the signal is being sent.

2 To open/close from inside the garage.

- Use hand transmitter as in Section 1.
- Alternatively use the START/STOP button on the front of the control box.

NOTE: Whenever the unit is operated the courtesy lamp, mounted in the control box, is illuminated. This stays on for approx. 3 minutes and goes off automatically.

IMPORTANT SAFETY NOTE

Only operate the door when the door is in full view, free of obstacles with no persons (particularly children) near the door. Nobody should be allowed to enter or leave the garage whilst the door is in motion.

3 If the door is obstructed whilst closing.

- The safety sensitivity circuit will activate and stop the door. The door will then reverse to the fully open position.

4 If the door is obstructed whilst opening.

- The safety sensitivity circuit will activate and stop the door.
- The door will stay in this position until it receives another command signal, it will then go to fully closed position.

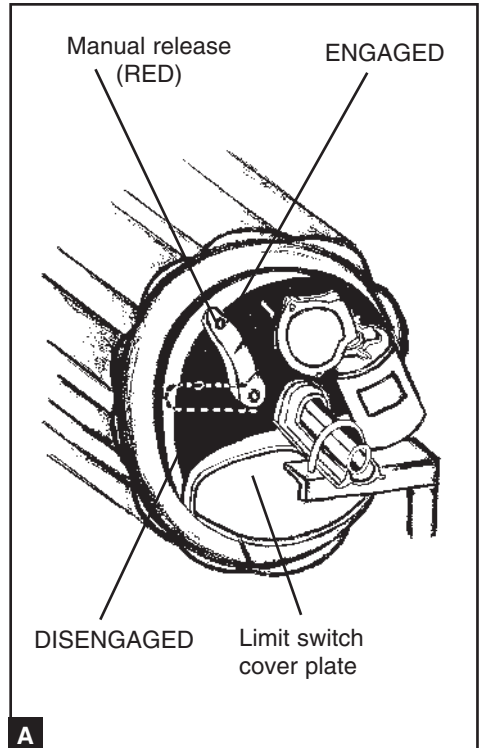
5 When the door is closed using the automatic operator it is locked through the motor drive.

- **DO NOT USE KEYS TO LOCK DOOR.**

2

HOW TO USE THE MANUAL RELEASE

- 1** The manual release lever disengages the motor drive from the door, and allows the door to be opened and closed manually.
- 2** It can be used in an emergency (power cuts etc) or when carrying out checks and adjustments to door operation.
- 3** **CAUTION!** Only use it when the **POWER** to the control has been turned **OFF** and for safety only disengage lever when door is closed, if possible.
- 4** The manual release lever is situated on the motor drive unit (see Figure A) usually on the same side of the garage as the control unit .
- 5** The lever is coloured red and has a pull cord/handle attached to assist in operation.
- 6** To disengage the power drive, pull the lever/cord downwards. This will enable the door to be operated manually.



To re-engage the drive:

- 1** Ensure power to control unit is switched OFF.
- 2** Manually open door to mid-way position.
- 3** Push manual release lever (see Figure A) upwards to engage drive.
- 4** Turn mains power on and operate door.

IMPORTANT NOTE

If your garage has no service door then an exterior release kit (part No.AZAR 2004) must be fitted. This accessory allows manual operation of the garage door from outside in case of an emergency.

3

IN THE EVENT OF POWER CUTS

- 1 If the garage door remains unused during the power cut, you have to do nothing. The control unit will automatically reset itself when the power comes back on.
- 2 If you have to use the garage door then the manual release lever can be utilised to give manual operation. See Section 2 for details.



CAUTION

- 3 Turn off mains power to the control unit when in manual mode.
- 4 Re-engage motor drive when mains power is restored. See Section 2 for details.

IMPORTANT NOTE

When using the door in manual mode you should lock/unlock the door with the key to maintain security.

4

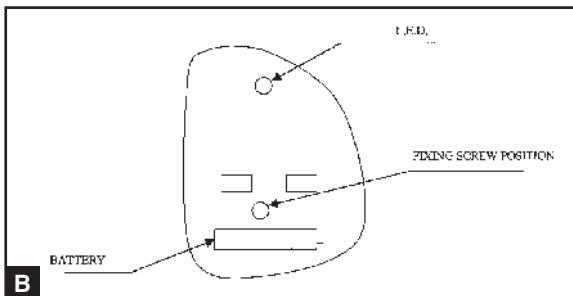
REMOTE CONTROL

1 OPERATION OF HAND TRANSMITTER

- Press the Green button for approx 1/2 sec, the red L.E.D on the transmitter indicates the signal is being sent.
- The transmitter is not directional and does not have to be pointed at any sensors.
- It should work perfectly from within an enclosed car, you do not have to wind down the windows.

2 TRANSMITTER BATTERY

- The hand transmitter is powered by a 12v alkaline battery (23A 12v) which should last approx 1 year with normal use.
- If the operating range begins to decrease then the battery should be changed.
- Using a small “Philips” screwdriver carefully remove and retain the screw fixing on the back. (See Figure B).
- Prise apart the two halves and remove old battery.
- Replace with new battery ensuring correct way round.
- Re-assemble covers.



CAUTION

DISPOSE OF OLD BATTERY SAFELY AS PER MANUFACTURERS RECOMMENDATIONS

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CHANGING THE SECURITY CODE

The radio remote control signal is protected with a rolling code system that has many billions of combinations.

All units are supplied with a factory set Hand Transmitter coded for use with the Green button only.



CAUTION

Programming Additional Transmitters

CAUTION – When programming additional transmitters ensure that the door is free from obstruction. When programming a transmitter the door will operate when the buttons are pressed. We strongly recommend that the cable connecting the motor to the control box is disconnected to eliminate any chance of personal injury. The light on the control box will indicate whether or not the hand transmitter is working.

Two methods of programming can be used:-

A) Programming using an active transmitter

- 1** Push both buttons on the transmitter for approximately 5 seconds, the receiver will “bleep” indicating it is ready to learn transmitter codes, release buttons.
- 2** Press the green button on the additional transmitter, the receiver “bleeps” to confirm it has learnt the code.(The receiver will not “bleep” if the transmitter code has already been learnt.) After about 10 seconds the receiver will “bleep” twice to indicate the learning cycle is complete.

B) Programming using the receiver.

- 1** Turn off power and carefully remove the control cover and locate the receiver box inside (Black box), then turn the power back on.
- 2** Push and release the programming button (see diagram C), the receiver will “bleep” indicating it is ready to learn transmitter codes.
- 3** Push the green button on the transmitter the receiver “bleeps” to confirm it has learnt the code. Wait approximately 10 Seconds, the receiver will “bleep” twice to indicate the learning cycle is complete.
- 4** Repeat this operation for as many transmitters as you require.

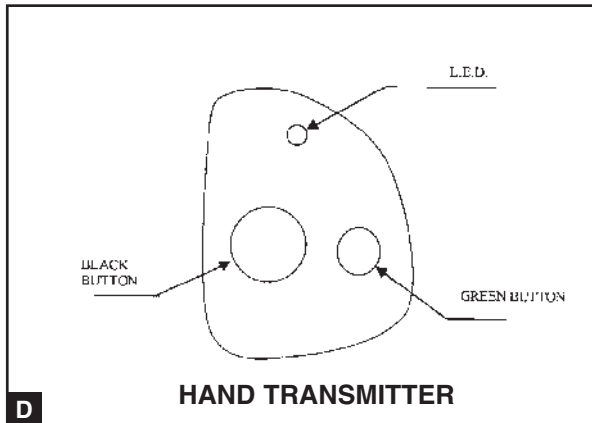
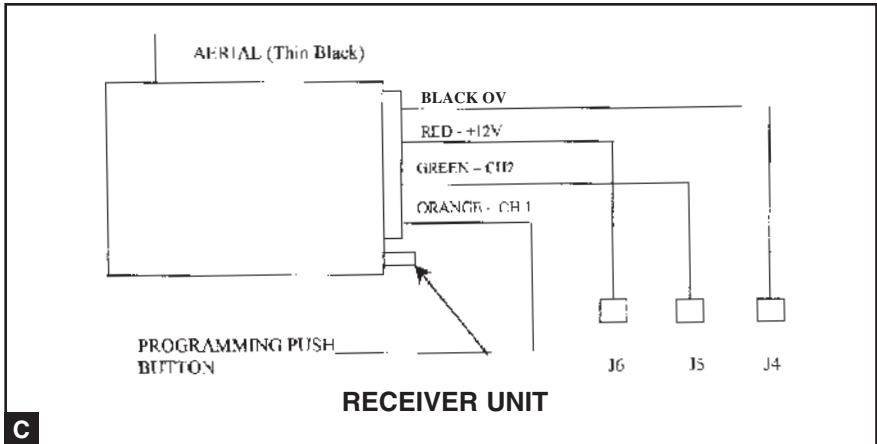
Erasing Memory – Deleting Learnt Transmitter Codes

Carefully remove the control cover and locate the receiver box.

Push and hold the programming button for approximately 10 seconds, three short “bleeps” will be heard confirming all the transmitter codes in memory have been erased.

PROGRAMMING BLACK BUTTON ON TRANSMITTER (FOR USE WITH TWIN OPERATORS)

- 1 Turn power off and remove control cover to find three wires connecting the receiver to the P.C.B, Black, Red and Green.
- 2 Remove the green wire which is connected to J5, between the black and red wires and replace it with the Orange wire. This swaps from the green button on the transmitter to the black button. Tie back the Green wire, refit cover and turn the power back on
By doing this 2 operators can be activated from one transmitter, one working from the Factory set Green Button and the other from the Black Button.



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SAFETY SENSITIVITY ADJUSTMENT

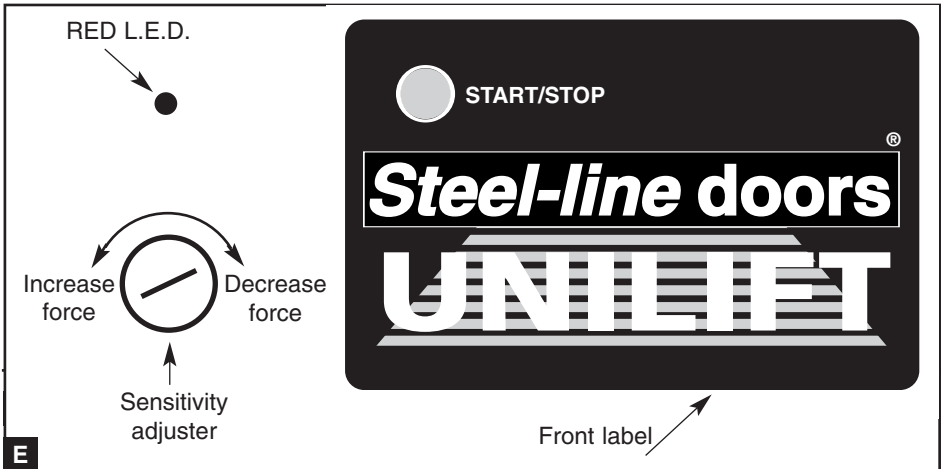


CAUTION

SAFETY SENSITIVITY CHECK

Once a month check the correct functioning of the safety sensitivity system.

- To check sensitivity, operate door to close and try to stop it halfway down using both hands.
- The door should stop (when applying only medium force) and then reverse to the fully open position.
- If the door fails to stop, or requires unduly heavy force to stop, then the safety sensitivity **must** be adjusted.



- 1 The sensitivity adjuster is situated in the lower recess to the left hand side of the front label (see figure D) and can be adjusted by using a small electrical screwdriver.
- 2 Prior to setting sensitivity turn the adjuster fully CLOCKWISE.
- 3 Operate door to close. If it stops and reverses before fully closing then adjust sensitivity ANTI-CLOCKWISE slightly to INCREASE force. Repeat until door operates through full open/close cycles without reversing.
- 4 To set sensitivity operate door to close and try to stop it halfway down using both hands. The door should stop (when applying only medium force) and reverse to the fully open position.
- 5 If the door fails to stop or requires unduly heavy force to stop then adjust sensitivity CLOCKWISE: slightly to REDUCE force. Repeat test until satisfactory sensitivity is achieved.
- 6 Check door still operates through full open/close cycle, without reversing, and closes firmly.

N.B: The courtesy light comes on at opening and closing and stays on for approximately 3 minutes before turning off automatically.

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MAINTENANCE

1 DOOR PANEL

Maintenance is not normally required but the following suggestions will keep the door working efficiently.

- Do not grease or oil tracks.
- Periodically clean the inside of the tracks with methylated spirits or similar and spray with silicone spray or furniture polish.
- It may be necessary to lightly oil the lock mechanism via the key hole occasionally if operation becomes difficult.
- Periodically wash the finished surface of the door with soap and water remembering the area which is always exposed on the roll inside the garage when the door is closed.

2 CONTROL SYSTEM

Replacing courtesy lamp.

- Turn **OFF** mains supply to control unit.
- Remove lens cover on bottom face of control unit.
- Remove failed bulb by pushing in and twisting slightly to the left.
- Replace with 24v 10w bayonet fitting bulb.
- Refit lens cover and turn power back on.

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SETTING TOP AND BOTTOM LIMITS



CAUTION

Great care should be taken when attempting this adjustment as you will be working from a step ladder and the limit switches can be awkward to access.

If in doubt contact your Steel-line® installer.



DANGER

DISCONNECT ELECTRIC POWER TO THE GARAGE DOOR OPERATOR BEFORE STARTING THIS WORK.

- 1 Ensure the door is fully closed and the electric **POWER** to the unit is switched **OFF**.
- 2 Operate the manual release lever to disengage the drive (See section 2)
- 3 The limit switches are housed under a cover plate on the motor drive unit fixed to one of the main door support brackets (See Figure A).
Remove limit switch cover plate by carefully prising off with a small screw driver.

8

SETTING TOP AND BOTTOM LIMITS (continued)

- 4** Top limit cam 'T' controls **OPEN** position of door. Bottom limit cam 'B' controls **CLOSED** position of door (See Figure E).

N.B: Only minor adjustments will be necessary.

- 5** Slightly loosen the three retaining screws so that the cams can be easily moved (See Figure E).

- 6** Ensure that the manual release lever is still in the "disengaged" position, and manually raise the door until it is approx. 50mm from the top stop position.

- 7** Note the direction of rotation of CAM 'T' as you raise the door and adjust the position of CAM 'T' accordingly by rotating it slightly to advance (or retard) the operation of the **TOP** limit switch.

- 8** Manually lower the door until the bottom edge of door touches the ground (at its highest point).

- 9** Note the direction of rotation of CAM 'B' as you lower the door and adjust the position of CAM 'B' accordingly by rotating it slightly to advance (or retard) the operation of the **BOTTOM** limit switch.

- 10** Tighten the three retaining screws so that the cams will not move.

- 11** Manually position door to halfway and re-engage the motor drive by moving the manual release lever (colour red) to the "engage" position (See Figure A).

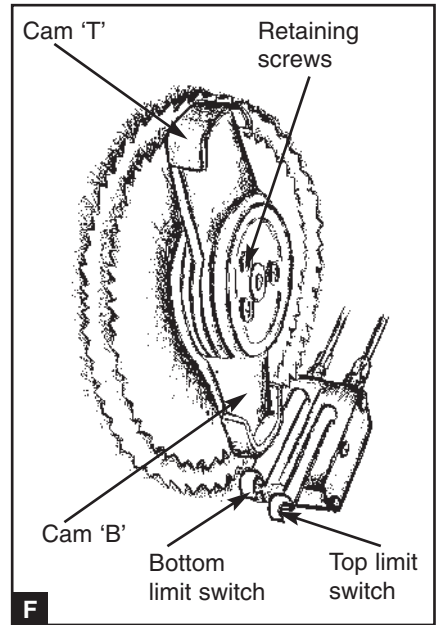
N.B: Door can now only be operated electrically, not manually. If you wish to return to manual operation, ensure power is switched off and move lever to "disengage" position.

- 12** Switch on power to the control unit and operate door from 'start' button on control unit. Door should travel upwards and fully open without striking the track stops.

- 13** Press 'start' button again and door should travel downwards and stop when it shuts, closing firmly but without reversing.

- 14** If you are achieving these stop positions satisfactorily then switch off mains power, remove limit switch cover plate, then turn mains power back on.

- 15** If stop positions are not satisfactory then turn off mains power, disengage the drive and reset the limits by repeating steps 5–13.



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FAULT FINDING

1 DOOR WILL NOT OPERATE

A) Start button on control box

- Check power is on to control unit (Red L.E.D illuminated).
IF NOT, check mains plug and fuse.
- Plug fully engaged in bottom of control box.
- Motor wiring connections properly engaged.
- Manual release lever in “engaged” position. (See Section 2)
- Move door manually to half closed position and try again.
- Try operation with remote control handset.

B) On remote control

- Check door operates correctly using the start button, to prove system is ok.
- Check battery in transmitter is correctly fitted. (See Section 4)
- Try new battery.
- Extend aerial and try in different orientations, keeping it away from steel structures and electrical cables.
- Check transmitter is correctly coded into receiver (See section 5)

2 DOOR OPERATES BUT FAILS TO FULLY OPEN OR REVERSES BEFORE FULLY CLOSING

- Check manual operation for correct balance, not binding. If badly out of balance contact your garage door installer.
- Spray silicone lubricant into tracks. **Do not grease.**
- Check/adjust safety sensitivity setting (See section 6).

3 BANGS HARD ON TRACK STOPS WHEN FULLY OPEN

- Check top limit switch setting. Adjust if necessary. (see section 8).

4 BANGS HARD ON GROUND AND REVERSES WHEN FULLY SHUT

- Check bottom limit switch setting.
- Adjust if necessary (See Section 8).

5 DOOR FAILS TO TRAVEL DOWN FROM FULLY OPEN POSITION – MOTOR RUNS AND DOOR ROLL “BAGS OUT”

- Contact your garage door installer.

6 SHORT RANGE ON REMOTE CONTROL

- Remote control should give minimum of 10m range.
- Check battery is correctly fitted in transmitter.
- Try new battery. (See Section 4)
- Extend radio receiver aerial and try in different orientations, keeping away from steel structures and electrical cables.

In the event of difficulty please consult your local supplier of Cardale Doors – See Yellow Pages or refer to your installer.

ACCESSORIES

The following accessories are available for use with the Steel-line UNILIFT automatic opener

AZAR 2004	Exterior release kit
AZAR 2006	Fascia plate (to cover gap at top of door)
AZAR 2007/9	Removable mullion
AZAR 2010	Spray paint – solid colours
AZAR 2011/12	Chain wheel sets for high doors
*AZAR 2020/25	Roll guard
AZAR 2026	Spray paint – plastisol colours
AZAR 2051	Auto close system
AZAR 2052	Bell push pack
AZAD 1008	Digital keyless entry
AZAR 2055	Electric key switch
AZAR 2058	Additional 2 button hand transmitters

* only available when ordered with door

If you require further information on any of these items call 0800 581082