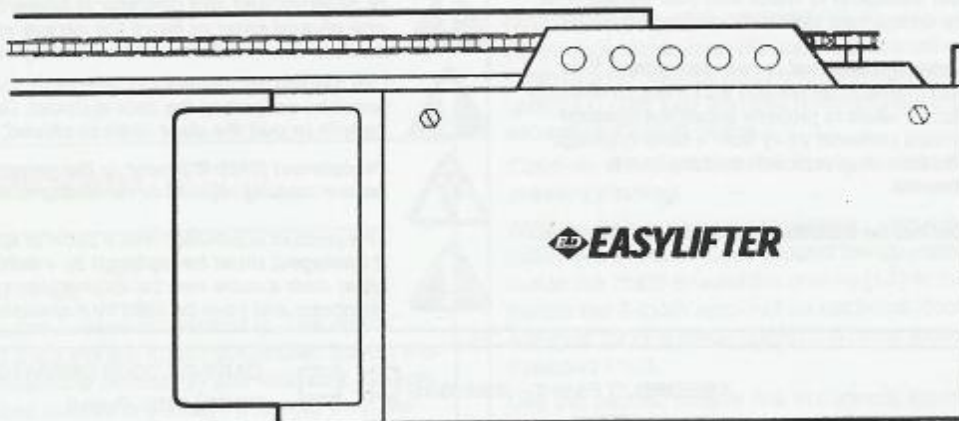




Instruction Manual



with 433MHz Radio Controls

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START BY READING THESE IMPORTANT SAFETY RULES

EL-2



These safety alert symbols mean **Caution** – a personal safety or property damage instruction. Read these instructions carefully.

This garage door operator is designed and tested to offer reasonable safe service provided it is installed and operated in strict accordance with the following safety rules.

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

Caution: If your garage has no service entrance door, an emergency access device must be installed. This accessory allows manual operation of the garage door from outside in case of power failure.



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 any adjustment.** Call for professional garage door service.



Handle tools and hardware carefully and do not wear rings, watches or loose clothing while installing or servicing a garage door operator.



To avoid serious personal injury from entanglement, **remove all ropes connected to the garage door** before installing the door operator.



Installation and wiring must be in compliance with your local building and electrical codes. **Connect the power cord only to properly earthed mains.**



Lightweight doors of fiberglass, aluminum or steel must be substantially reinforced to avoid door damage. (See page 4.) The best solution is to check with your garage door manufacturer for an operator installation reinforcement kit.



The safety reverse system test is very important. Your garage door **MUST** reverse on contact with a 40mm obstacle placed on the floor. 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.**



This unit should not be installed in a damp or wet space.



The force, as measured on the closing edge of the door, should not exceed 150 N (15kg). If the closing force is adjusted to more than 150 N, the Protector System must be installed. **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.



Fasten the **caution label** adjacent to the lighted door control button as a reminder of safe operating procedures.



Disengage all existing garage door locks to avoid damage to garage door.



Install the lighted door control button (or any additional push buttons) **in a location where the garage door is visible, but out of the reach of children. Do not allow children to operate push buttons or remote controls.** Serious personal injury from a closing garage door may result from misuse of the operator.



Activate operator only when the door is in full view, free of obstructions and operator is properly adjusted. No one should enter or leave the garage while the door is in motion. Do not allow children to play near the door.



Use manual release **only** to disengage the trolley and, if possible, **only** when the door is closed. **Do not use the red handle to pull the door open or closed.**



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



This product is provided with a cable of special design which, if damaged, must be replaced by a cable of the same type; such a cable may be obtained from your local B&D distributor and must be fitted by a specialist.

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DOOR TYPES – **1**

A. Sectional Door with Curved Track – See **20** A – Connect Door Arm.

B. One-Piece Door. See **20** B – Connect Door Arm.

TOOLS REQUIRED – **2**

See Illustration.

HARDWARE PROVIDED – **3**

Assembly Hardware:

- | | |
|-------------------------|---------------------------------|
| (1) Washered Screws (2) | (7) Lock Nuts (12) |
| (2) Hex Screws (2) | (8) Flat Washers (2) |
| (3) Nuts (2) | (9) Hex Screws (2) |
| (4) Lock Washers (2) | (10) Trolley Threaded Shaft (1) |
| (5) Master Links (2) | (11) Clevis Pin (1) |
| (6) Carriage Bolts (12) | |

Installation Hardware:

- | | | |
|-------------------------|------------------------|--------------------------------|
| (12) Carriage Bolts (2) | (18) Rope | (24) Ring Fasteners (3) |
| (13) Wood Screws (4) | (19) Handle | (25) Rail Grease |
| (14) Screws (2) | (20) Insulated Staples | (26) 8mm Anchors (4) |
| (15) Clevis Pin (1) | (21) Anchors (2) | (27) Sheet Metal
Screws (2) |
| (16) Clevis Pin (1) | (22) Lock Washers (8) | |
| (17) Hex Screws (5) | (23) Nuts (9) | |

BEFORE YOU BEGIN:

1. Look at the wall or ceiling above the garage door. The header bracket **must** be securely fastened to structural supports.
2. Do you have a finished ceiling in your garage? If so, a support bracket and additional fastening hardware (not supplied) may be required.
3. Do you have an access door in addition to the garage door? If not, an emergency access device is required.

COMPLETED INSTALLATION 4

As you proceed with the assembly, installation and adjustment procedures in this manual, you may find it helpful to refer back to this illustration of a completed installation.

- | | |
|--------------------------|----------------------------------|
| (1) Chain Pulley Bracket | (9) Manual Release Rope & Handle |
| (2) Trolley | (10) Curved Door Arm |
| (3) Chain and cable | (11) Straight Door Arm |
| (4) T-rail | (12) Door Bracket |
| (5) Hanging Bracket | (13) Header Bracket |
| (6) Power Cord | (14) Trolley Release Arm |
| (7) Operator | |
| (8) Light Cover | |

ASSEMBLY SECTION 5-10

ASSEMBLE THE T-RAIL 5

Place rail pieces on a flat surface for assembly. The center sections with tapered ends (5) are interchangeable. So are the end sections (4). Connect the braces (3) and lock nuts (2) from one side of the rails and insert the carriage bolts (6) from the opposite side. Then the trolley will not hit the lock nuts when it is installed.

The square necks on the carriage bolts must be seated in square holes in rail sections (1).

INSTALL THE CHAIN PULLEY BRACKET 6

Position chain pulley bracket (2) on the front section of T-rail (6). Fasten securely with: screws (1); lock washers (3) and nuts (4).

When tightening the screws, be sure to keep bracket parallel to rail (5). Otherwise, rail may bow when operator is operated.

INSTALL THE TROLLEY 7

Insert a screwdriver into trolley "stop" hole in the front end of T-rail (6). Attach trolley threaded shaft (4) to the trolley with: lock washer (2), and nuts (1 & 3). Slide trolley (5) along rail to the "stop".

Note: If the trolley hits against the nuts on T-rail, review rail assembly and reposition hardware.

FASTEN T-RAIL TO THE OPENER 8

Place packing material under the operator to protect the operator cover. For convenience, place a support under the chain pulley bracket end of rail.

Remove the (2) washered screws (1) from the top of the operator. Align holes in back end of the T-rail with holes in operator (2).

Fasten the rail to the operator with the same washered screws and tighten securely. **Caution: Use only those screws!** Use of any other screws will cause serious damage to the door operator.

Insert a hex screw (3) into trolley stop hole in T-rail (4). Tighten securely with a lock washer (5) and nut (6).

INSTALL THE CHAIN/CABLE & ATTACH THE CHAIN SPREADER 9

To attach the chain spreader (9), line up the holes in the chain spreader with the holes in the operator. The slot (10) in the chain spreader must fit over the T-rail flange (11). Securely fasten the chain spreader with the hardware provided.

Do not remove chain and cable from carton.

Pull the cable loop from the carton and fasten it to the trolley with a master link.

MASTER LINK PROCEDURE: Push pins of master link bar (5) through cable loop (6) and hole in front end of trolley (7). Push cap (2) over pins (8) and past notches. Slide clip-on spring (1) over cap and into notches until both pins are securely locked in place.

Caution: Keep chain taut during installation to help prevent kinking.

With the trolley against screwdriver, dispense cable around pulley (4). Proceed back around the operator sprocket (12). Guide the chain around the groove (13) in the chain spreader (select the 8-tooth sprocket for sectional doors or the 6-tooth sprocket for one piece doors). Continue forward to the trolley threaded shaft.

Use the second master link to connect the chain to the flat end of the threaded shaft (3).

Check to make sure the chain is not twisted.

Remove the "temporary stop" screwdriver.

TIGHTEN THE CHAIN 10

Spin inner nut (3) and lock washer (2) down threaded shaft (4).

Check to make sure chain is not twisted.

To tighten the chain, turn outer nut (1) in the direction shown. As you turn the nut, keep the chain from twisting.

When chain is approximately 13mm above the base of the T-rail (5) at midpoint, re-tighten inner nut.

Sprocket noise can result if chain is either too loose or too tight.

When installation is complete, you may notice some chain droop with the door closed. This is normal. The chain returns to the position described above when the door is open, **do not re-adjust the chain.**

During future maintenance, ALWAYS pull the manual release handle to disconnect trolley before adjusting chain.

ASSEMBLY OF YOUR OPERATOR IS NOW COMPLETE.

INSTALLATION SECTION 11-20

Wear protective goggles when working overhead to protect your eyes from injury.

Disengage all existing garage door locks to avoid damage to the garage door.

To avoid serious personal injury from entanglement, remove all ropes connected to the garage door before installing the operator.

It is recommended that the operator be installed 2.1m or more above the floor where space permits.

POSITION THE HEADER BRACKET 11

The header bracket must be rigidly fastened to a structural support of the garage. Reinforce the wall or ceiling with a 40mm board if necessary. Failure to comply may result in improper operation of safety reverse system.

You can attach the header bracket either to the header wall (1) or to the ceiling (3). Follow the instructions which will work best for your particular requirements.

With the door closed, mark the vertical centerline (2) of the garage door. Extend line onto header wall above the door.

Open door to highest point of travel. Draw an intersecting horizontal line on header wall 5cm above high point to provide travel clearance for top edge of door.

INSTALL THE HEADER BRACKET 12

A. Wall Mount: Center the bracket (2) on the vertical guideline (1) with the bottom edge of the bracket on the horizontal line (6) (with the arrow pointing toward the ceiling).

Mark either set of bracket holes (4 or 5). **Do not use the holes designated for ceiling mount.** Drill 4.5mm pilot holes and fasten the bracket with wood screws (3).

B. Ceiling Mount: Extend vertical guideline (1) onto the ceiling. Center the bracket (2) on the vertical mark no more than 150mm from the wall. Make sure the arrow is pointing toward the wall.

Mark holes designated for ceiling mount only (4). Drill 4.5mm pilot holes and fasten the bracket with wood screws (3). For concrete ceiling mount, use concrete anchors (7) provided.

ATTACH T-RAIL TO HEADER BRACKET 13

Position operator on garage floor below the header bracket. Use packing material to protect the cover.

Note: To enable the T-rail to clear sectional door springs, it may be necessary to lift operator onto a temporary support.

The operator must either be secured to a support or held firmly in place by another person.

Raise T-rail until pulley and header brackets come together.

Join with clevis pin (1). Insert ring fastener (2) to secure.

POSITION THE OPERATOR 14

Note: A 25mm board (1) is convenient for setting an ideal door-to-T-rail distance (unless headroom is not sufficient).

Raise the operator onto a stepladder. Open garage door. Place a 25mm board (1) laid flat on the top section of door near the centerline as shown. Rest the T-rail on the board.

If the raised door hits the trolley, pull down on the trolley release arm to disconnect the inner and outer trolley sections. The trolley can remain disconnected until connecting door arm to trolley is completed.

HANG THE OPERATOR 15

The operator must be securely fastened to a structural support of the garage.

Three representative installations are shown. Yours may be different. Hanging brackets (1) should be angled (Figure A) to provide rigid support. On finished ceilings, (Figure B) attach a sturdy metal bracket (not supplied) (4) to a structural support before installing the operator. For concrete ceiling mount, (Figure C), use concrete anchors (5) provided.

On each side of operator measure the distance from the operator to the structural support (or ceiling).

Cut both pieces of the hanging bracket to required lengths. Flatten one end of each bracket and bend or twist to fit the fastening angles. **Do not bend at the bracket holes.** Drill 4.5mm pilot holes in the structural supports (or ceiling). Attach flattened ends of brackets to supports with wood screws (2).

Lift operator and fasten to hanging brackets with screw, lock washer and nut (3). Check to make sure T-rail is centered over the door. REMOVE 25mm board. Operate door manually. If door hits the rail, raise header bracket.

Grease the top and underside of rail surface on which the trolley slides. A tube of grease is supplied.

ATTACH MANUAL RELEASE ROPE & HANDLE 16

Thread one end of rope (1) through hole in top of red handle so "NOTICE" reads right side up as shown (3). Secure with an overhand knot (2). Knot should be at least 25mm from end of the rope to prevent slipping.

Thread other end of rope through hole in release arm of the outer trolley (4). Adjust rope length so that handle is 1.8m above the floor. Secure with an overhand knot.

Note: If it is necessary to cut rope, heat seal cut end with a match or lighter to prevent fraying.

CONNECT ELECTRIC POWER

Do not attempt to operate your operator until instructed during the travel limits programming procedure. IT WILL NOT RUN. (See Adjustment Section).

Connect the operator to a mains which is properly EARTHED (as specified by local code).

INSTALL THE LIGHTED DOOR CONTROL BUTTON 17

Locate push buttons where the garage door is visible, away from door and door hardware and out of the reach of children.

Serious personal injury from a moving garage door may result from misuse of operator. Do not allow children to operate the lighted door control button or remote control transmitter.

Fasten the caution label on the wall near the lighted door control button as a reminder of safe operating procedures.

There are 2 screw terminals (1) on the back of the lighted door control button (2). Strip about 6mm of insulation from bell wire (4). Separate wires enough to connect the white/red wire to terminal screw 1 and the white wire to terminal screw 2.

Fasten the lighted door control button to an inside garage wall with sheet metal screws (3) provided. Drill 4mm holes and use anchors (6) if installing into drywall. A convenient place is beside the service door and out of reach of children.

Run the bell wire up the wall and across the ceiling to the garage door operator. Use insulated staples (5) to secure wire. The receiver terminal screws (7) are located on the back panel of the operator. Connect the bell wire to the terminal screws as follows: white/red to 1 and white to 2.

Note: Bell wires should not be in parallel to household power lines or fluorescent lights.

ACTIVATION OF THE LIGHTED DOOR CONTROL BUTTON

Press to open or close the door. Press again to reverse the door during the closing cycle or to stop the door during opening cycle.

INSTALL THE LIGHT GLOBE AND COVER 18

Install a 40 watt maximum light globe (1) in the socket as shown (light globe not included). The light will turn on and remain lit for 4-1/2 minutes when power is connected. After 4-1/2 minutes it will turn off.

Replace burned out globes with rough service/heavy duty light globes.

Apply slight pressure on sides of the light cover (2) and slide tabs (3) into slots (4) in the end panel. Reverse the procedure to remove the light cover.

FASTEN DOOR BRACKET 19

Sectional and One-Piece Door Installation Procedure:

1. Center bracket (1) at the top of inside face of door as shown. Mark holes.

2. A. Wooden doors

Drill 8mm holes and fasten the door bracket with nut, lock washer, and carriage bolt (2).

B. Sheet metal doors

Fasten with sheet metal screws (3).

CONNECT DOOR ARM TO TROLLEY 20

A. SECTIONAL DOOR INSTALLATION:

Close garage door. Pull manual release handle to disconnect outer trolley from inner trolley. Slide outer trolley (15) about 50mm from door.

Connect straight door arm (1) to outer trolley door arm connector hole (11) with a clevis pin (6). Secure with a ring fastener (8). Fasten curved door arm (2) to door bracket with remaining clevis pin and ring fastener. Bring arm sections together. Line up two pairs of holes and join sections with hardware (3, 4, 5). For maximum rigidity, choose holes as far apart as possible. (Trolley will reconnect when door is activated.) **Proceed to Step 21.**

B. ONE-PIECE DOOR INSTALLATION:

Connect straight door arm (1) and curved door arm sections (2) to obtain the longest possible length with hardware (3, 4, 5). With door closed, connect straight door arm section to door bracket with a clevis pin (7). Secure with a ring fastener (8).

Before connecting door arm to trolley, adjust travel limits. Limit adjustment screws are located on left side panel.

Open Door Adjustment: Decrease up limit. Turn up limit adjustment screw counterclockwise 5-1/2 turns.

Press door control button. Trolley will travel to full open position (9). Manually raise door to open position (parallel to floor) and lift door arm (10) to trolley. The arm should touch trolley just in back of door arm connector hole (11) as shown in *solid line* drawing. Increase up limit if necessary. One full turn equals 50mm of door travel.

Closed Door Adjustment: Decrease down limit. Turn down limit adjustment screw clockwise 5 complete turns.

Press door control button. Trolley will travel to full closed position (12). Manually close door and lift door arm (13) to trolley. The arm should touch trolley just ahead of door arm connector hole (14) as shown in *dotted line* drawing. Decrease down limit if necessary. One full turn equals 50mm of door travel.

Connect Door Arm to Trolley: With door closed, connect curved arm to trolley with remaining clevis pin. Secure with ring fastener.

Note: Lift door slightly to make connection if necessary. Run opener through a complete travel cycle. If door has a slight "backward" slant in full open position, decrease up limits until door is parallel to floor.

PROGRAM YOUR OPENER & REMOTE 21

Activate the operator only when door is in full view, free of obstruction and properly adjusted. No one should enter or leave garage while door is in motion. Do not allow children to operate push buttons or remotes. Do not allow children to play near the door.

Your garage door operator receiver and remote control transmitter are set to a matching code. If you purchase additional remote controls, the garage door operator must be programmed to accept the new remote code.

Program the Receiver to Match Additional Remote Control Codes

1. Press and hold the remote control push button (1).
2. Press and release the "Smart" button (2) on the back panel of the operator. The operator light will flash once.
3. Release the remote push button.

Now the operator will operate when the remote control push button is pressed.

If you release the remote control push button before the operator light flashes, the operator will not accept the code.

To Erase all Remote Control Codes

- Press and hold the "Smart" button on the operator panel until the indicator light turns off (about 6 seconds). **All the codes the operator has learned will be erased.**
- To reprogram, repeat Steps 1 – 3 for each remote control in use.

ADJUSTMENT SECTION 22 - 24

LIMIT ADJUSTMENT 22

Run the operator through a **complete travel cycle**. Limit adjustments are not necessary when the door opens and closes completely and doesn't reverse unintentionally in the fully closed position.

Situations requiring limit adjustment are listed below. Run the operator through a **complete travel cycle after each adjustment**.

Note: Repeated activation of the operator during adjustment procedures may cause motor to overheat and shut off. Allow a 15 minute cooling period after 5 continuous activation of the operator.

Read the following carefully before proceeding to Force Adjustment. Use a screwdriver to make limit adjustments.

LIMIT ADJUSTMENT 22 (continued)

If Door Doesn't Open Completely but Opens at Least 1.5m: Increase up travel. Turn the up limit adjustment screw (1) clockwise. One turn equals 51mm of travel.

If door does not open at least 1.5m: Adjust up (open) force. See Force Adjustment.

If Door Doesn't Close Completely: If door arm is at maximum length, increase down travel. Turn down limit adjustment screw (2) counterclockwise. One turn equals 51mm of travel.

If the door still will not close completely, the header bracket is positioned too high.

If Operator Reverses in Fully Closed Position: Decrease down travel. Turn down limit adjustment screw (2) clockwise. One turn equals 51mm of travel.

If Door Reverses when Closing and there is no Interference to Travel Cycle: Test door for binding. Pull manual release handle. Manually open and close door. If the door is binding, call a door serviceman. If the door is not binding or unbalanced, adjust the down (close) force.

FORCE ADJUSTMENT - 23

Do not use force adjustments to compensate for a binding or sticking garage door. Excessive force will interfere with proper operation of safety reverse system or damage garage door.

Force Adjustment Controls (1 & 2) are located on the back panel of operator.

If the force adjustments are set too light, door travel may be interrupted by nuisance reversals in down direction and stops in up direction. Weather conditions can affect the door movement, occasional adjustment may be needed.

Maximum force adjustment range is 260 degrees, about 3/4 of a complete turn. Do not force controls beyond that point. Turn force adjustment controls with a screwdriver.

Test Down (Close) Force: Grasp the door handle or door bottom when door is about halfway through down (close) travel. Door should reverse. *(Reversal halfway through down travel does not guarantee reversal on a 40mm obstruction.)* If the door is hard to hold or doesn't reverse, decrease down (close) force by turning the control (2) in a counterclockwise direction. Make small adjustments until door reverses normally. After each adjustment, run operator through a complete cycle.

If Door Doesn't Open at Least 1.5m: Increase up (open) force by turning the control (1) in a clockwise direction. Make small adjustments until door opens completely. Re-adjust up limit if necessary. After each adjustment, run operator through a complete travel cycle.

If Door Reverses During Down (Close) Cycle: Increase down (close) force by turning the control (2) in a clockwise direction. Make small adjustments until door completes close cycle. After each adjustment, run the operator through a complete travel cycle.

Do not increase the force beyond the minimum amount required to close the door.

TEST THE SAFETY REVERSE SYSTEM – 24

The force, as measured on the closing edge of the door, should not exceed 150 N (15kg). If the closing force is adjusted to more than 150 N, the Protector System must be installed. The safety reverse system test is important. Garage door must reverse on contact with a 40mm obstacle laid flat on the floor. Failure to properly adjust operator may result in serious personal injury from a closing garage door. Repeat test once a month and adjust as needed.

Procedure: Always begin with door in fully open position. Place a 40mm obstacle (1) laid flat on the floor under the garage door. Operate the door in the **down** direction. The door **must** reverse on the obstruction. If the door **stops** on the obstruction, it is not traveling far enough in the **down** direction. Increase the **down** limit by turning **down** limit adjustment screw counterclockwise 1/4 turn.

Repeat test.

When the door reverses on the 40mm obstacle, remove the obstruction and run the operator through a complete travel cycle. Door **must not** reverse in closed position. If it does, adjust Limits and Force and repeat safety reverse test.

ACTIVATION OF YOUR OPERATOR

Your operator can be activated by any of the following devices:

- **The Lighted Door Control Button.** Hold the button down until door starts to move.
- **The Outside Keylock or Keyless Entry System** (if you have installed either of these accessories). (Available from your local B&D distributor).
- **The Remote Control Transmitter.** Hold the push button down until the door starts to move.

Opening the Door Manually:

Door should be fully closed if possible. Weak or broken springs could allow an open door to fall rapidly. Property damage or serious personal injury could result.

The door can be opened manually by pulling the release handle down and back (toward the operator). To reconnect the door, pull the release handle straight down. It will reconnect on the next Up or Down operation.

Do not use the manual release handle to pull the door open or closed.

ACTIVATION OF YOUR OPERATOR (continued)

When the Operator is Activated by Remote Control or Lighted Door Control Button:

1. If open, the door will close. If closed, it will open.
2. If closing, the door will reverse.
3. If opening, the door will stop (allowing space for entry and exit of pets and for fresh air).
4. If the door has been stopped in a partially open position, it will close.
5. If an obstruction is encountered while closing, the door will reverse.
6. If an obstruction is encountered while opening, the door will stop.
7. The optional Protector System™ uses an invisible beam which, when broken by an obstruction, causes a closing door to open and prevents an open door from closing. It is **STRONGLY RECOMMENDED** for homeowners with young children. (Available from your local B&D distributor).

Allow a 15 minute cooling period after 5 continuous activations of the operator.

The operator light will turn on: 1. when operator is initially plugged in; 2. when the power is interrupted; 3. when the operator is activated.

The light turns off automatically after approximately 4-1/2 minutes. Globe size is 40 Watts maximum.

CARE OF YOUR OPERATOR

When properly installed, your operator will provide high performance with a minimum of maintenance. The operator does not require additional lubrication.

Limit and Force Adjustments: These adjustments must be checked and properly set when operator is installed. Only a screwdriver is required. *Weather conditions may cause some minor changes in the door operation, requiring some re-adjustments, particularly during the first year of operation.*

Refer to the limit and force adjustments on page 5. Follow the instructions carefully and **repeat the safety reverse test after any adjustment.**

Remote Control Transmitter: The portable remote control may be secured to a car sun visor with the clip provided. Additional remotes can be purchased at any time for use in all vehicles using garage.

Remote Control Battery: The lithium batteries should produce power for up to 5 years. If transmission range lessens, replace the battery.

To Change Battery: To replace batteries, use the visor clip or screwdriver blade to pry open the case. Insert batteries **positive side up**. To replace cover, snap shut **along both sides**. Do not dispose of the old battery with household waste. Take battery to a proper disposal center.

HAVING A PROBLEM?

◆ **Operator doesn't operate from either door control or remote:**

1. Does the operator have electric power? Is the wall switch in the "on" position? Plug lamp into outlet. If it doesn't light, check the fuse box or the circuit breaker.
2. Have you disengaged all door locks? Review installation instruction warnings on page 1.
3. Is there a build-up of ice or snow under door? The door may be frozen to the ground. Remove any obstruction.
4. The garage door spring may be broken. Have it replaced.
5. Repeated operation may have tripped the overload protector in the motor. Wait 15 minutes. Try again.

◆ **Operator operates from remote but not from door control:**

1. Is door control button lit? If not, remove the bell wire from the operator terminals. Short the red and white terminals by touching both terminals at the same time with a piece of wire. If the operator runs, check for a faulty wire connection at the door control, a short under the staples, or a broken wire.
2. Are wiring connections correct? Review Step 17.

◆ **Door operates from door control but not from remote:**

1. Check the battery. Replace battery if necessary.
2. If you have two or more remotes and only one operates, review receiver programming procedures in Step 21.
3. Is the door control button flashing? The operator receiver must re-learn the remote control code. Follow the instructions in Step 21.

◆ **Remote has short range:**

1. Is battery installed? Replace battery if necessary.
2. Change the location of the remote control on the car.
3. A metal garage door, foil-backed insulation or metal siding will reduce the transmission range.

◆ **Door reverses for no apparent reason and operator light doesn't blink:**

1. Is something obstructing the door? Pull manual release handle. Operate door manually. If it is unbalanced or binding, call for professional garage door service.
2. Clear any ice or snow from garage floor area where garage door closes.
3. Review Force Adjustment.
4. If door reverses in **FULLY CLOSED** position, decrease travel limits.

Repeat safety reverse test after adjustment is complete. The need for occasional adjustment of the force and limit settings is normal. Weather conditions in particular can affect door travel.

◆ **Operator noise is disturbing in living quarters of home:**

If operational noise is a problem because of proximity of the operator to the living quarters, a Vibration Isolator Kit can be installed. This kit was designed to reduce the "sounding board effect" and is easy to install.

◆ **The garage door opens and closes by itself:**

1. Is there a neighbor with a garage door operator using the same frequency code? Change your code.
2. Make sure remote push button is not stuck "on".

◆ **Door stops but doesn't close completely:**

Review Travel Limits Adjustment.

Repeat safety reverse test after any adjustment of door arm length, close force or down limit.

◆ **Door opens but won't close:**

1. If operator light does not blink and it is a new installation, check the down force.

Repeat the safety reverse test after the adjustment is complete.

◆ **Operator light does not turn ON:**

Replace light globe (40 Watts maximum). Replace burned out globes with *rough service/heavy duty* light globes.

◆ **Operator light does not turn OFF:**

There may be a defective earth at the ceiling or wall receptacle. **The unit must be earthed.**

◆ **Operator strains or maximum force is needed to activate door:**

Door may be unbalanced or springs are broken. Close door and use manual release rope and handle to disconnect trolley. Open and close door manually. A properly balanced door will stay in any point of travel while being supported entirely by its springs. If it does not, call for professional garage door service to correct the problem. **Do not increase the force to operate the operator.**

◆ **Operator motor hums briefly, then won't work:**

1. Garage door springs are broken. **SEE ABOVE.**
2. If problem occurs on first operation of operator, door is locked. **Disable door lock.** If chain was removed and reinstalled, the motor may be out of phase. Remove chain; cycle motor to down position. Observe drive sprocket. When it turns in clockwise direction and stops in down position, re-install chain.

Repeat safety reverse test after adjustment is complete.

◆ **Operator won't activate due to power failure:**

1. Pull manual release rope and handle down and back to disconnect trolley. Door can be opened and closed manually. When the power is restored, pull the manual release handle **straight down**. The next time the operator is activated, the trolley will reconnect.
2. **The emergency access device (if fitted) disconnects the trolley from outside the garage in case of power failure.**

MAINTENANCE OF YOUR OPERATOR

Once a Month:

- Repeat safety reverse test. Make any necessary adjustments.
- Manually operate door. If it is unbalanced or binding, call for professional garage door service.
- Check to be sure door opens and closes fully. Adjust Limits and/or Force if necessary.

Once a Year:

Oil door rollers, bearings and hinges. The operator does not require additional lubrication. Do not grease the door tracks.

SPECIFICATIONS

Horsepower	1/3
Motor	
Type	Permanent split capacitor
Speed	1500 rpm
Volts	230-240 Volts AC-50Hz Only
Current	2.0 amperes
Drive Mechanism	
Gears	16:1 worm gear reduction
Drive	Chain with one-piece trolley on steel T-rail.
Length of Travel	Adjustable to 2.29m
Travel Rate	178mm per second
Lamp	On when door starts, off 4-1/2 minutes after stop.
Door Linkage	Adjustable door arm. Pull cord trolley release.
Safety	
Personal	Push button and automatic reversal in down direction. Push button and automatic stop in up direction.
Electronic	Independent up and down force adjustment screws.
Electrical	Motor overload protector and low voltage push button wiring.
Limit Device	Circuit actuated by limit nut.
Limit Adjustment	Screwdriver adjustment on side panel.
Start Circuit	Low voltage push button circuit.
Dimensions	
Length (Overall)	3.1m
Headroom Required	50mm
Hanging Weight	14.5 kg
Receiver	
Operating Frequency	433.92MHz
Memory Registers	12
Code Switch Memory	1
Keypad Code Memory	1

WARRANTY

A. The Manufacturer, B&D Australia, a member of Evans Deakin Ltd. ("B&D") of Unit 3/4 Alfred Road, Chipping Norton, NSW 2170, subject to the terms set out herein, hereby warrants to the original retail purchaser ("the Buyer") that the B&D Easylifter ("the Unit") including every major component part thereof will be free from defects in materials and workmanship in normal use, service and operation:

- (i) for a period of:
 - (a) 12 months, where the Unit is installed by the buyer.
 - (b) 24 months, where the Unit by a B&D Authorised Distributor.
- (ii) for a period of three (3) months
 - (a) where the Unit is installed in and for the purposes of industrial or commercial applications.

Such warranty periods shall run from the date of delivery of the Unit where delivery is effected by B&D or one of its Authorised Distributors listed in the Owner's Handbook supplied with the Unit or from the date of purchase in any other case.

- (i) Notwithstanding anything herein where the Unit has been installed by B&D or an Authorised Distributor, the period of warranty provided for in paragraph A above shall run from the date of such installation and the Buyer shall be entitled to free service by B&D or its Authorised Distributor to remedy any defects covered by this Warranty. The Buyer will pay for any service call made by B&D or its Authorised Distributors when in the opinion of B&D these calls are made for the purpose of adjustment which is described in the Owner's Handbook.
- (ii) Where the Unit has not been installed by B&D or an Authorised Distributor, B&D, in addition to any warranty which may be offered by the party who installed the Unit, will within a reasonable period of time after notification of the defect by the Buyer and on return of the defective part or Unit to B&D repair or, at its option, replace any defective part or Unit covered by this Warranty without charge provided that all costs of disconnection, reinstallation and freight shall be borne by the Buyer.

Notification and Proof to be given by the Buyer

In the event of any defect in the Unit arising, the Buyer must notify directly either B&D at the above address or an Authorised Distributor and must establish to the reasonable satisfaction of B&D or such Distributor the date of purchase or installation (as the case may be) by way of invoice or installer stamp on the Warranty Form contained in the Owner's Handbook.

Future Modifications

B&D may make such modifications to any existing or future models of the Unit as it may deem necessary without incurring any obligation to incorporate such modifications in Units previously sold or to which this Warranty may relate.

General

Subject to paragraph F below, the obligations of B&D or an Authorised Distributor under this Warranty are limited to those contained herein and this Warranty is the only warranty made by a person authorised by B&D in writing and is exclusively and expressly in lieu of all other warranties permitted to be excluded by law whether those warranties are express, implied, under the common law or by statute and the terms of this Warranty may not be modified by any person, firm or corporation other than B&D.

Exclusions

Notwithstanding the terms herein but subject to paragraph H herein, this Warranty shall not apply and B&D or its Authorised Distributors will be relieved of all obligations responsibilities and liabilities (direct or consequential) in the event that defects in or malfunctions of the Unit are directly or indirectly in the opinion of B&D due to or result from

- i) lack of proper maintenance or care of the Unit;
- ii) incorrect or unreasonable use;

- (iii) faulty installation or adjustment of the Unit or door to which the Unit is connected where such installation or adjustment is not carried out by B&D or one of its Authorised Distributors;
- (iv) failure to observe any instructions or directions provided with the Unit or given to the Buyer by the installer;
- (v) modifications or repairs made or attempted to be made by any person not Authorised by B&D;
- (vi) faulty electrical wiring of structures to which the Unit is affixed; or
- (vii) radio (including citizen band transmissions) or other electronic interference.

Notwithstanding the terms herein but subject to paragraph H, this Warranty:

- (a) does not apply when the Unit is supplied with or fitted to any door or other closing device which is not of the type or condition specified as suitable for installation of the Unit in the Owner's Handbook; and
- (b) does not cover and shall not relate to batteries or globes supplied with the Unit and B&D or its Authorised Distributors shall not be liable for any defect, malfunction or failure of such items.

G. This warranty constituted by paragraphs A to F above shall apply only to purchasers who are Australian or New Zealand residents. In the case of original retail sales to persons other than Australian or New Zealand residents, B&D, subject to paragraph H below, limits its liability absolutely to the extent permitted by law.

H. Statutory Warranties

IT IS EXPRESSLY PROVIDED THAT THIS WARRANTY OR ANY TERMS AND CONDITIONS OF IT OR OTHER STATEMENT CONTAINED IN THIS DOCUMENT THE OWNER'S HANDBOOK OR OTHER LITERATURE GIVEN TO THE BUYER SHALL NOT BE READ OR APPLIED SO AS TO PURPORT TO EXCLUDE RESTRICT OR MODIFY OR HAVE THE EFFECT OF EXCLUDING RESTRICTING OR MODIFYING THE APPLICATION IN RELATION TO THE SUPPLY OF THE UNIT OR ALL OR ANY OF THE PROVISIONS OF DIVISIONS 2 AND 2A OR PART V OF THE TRADE PRACTICES ACT, 1974 ("THE ACT") AS AMENDED OR THE EXERCISE OF A RIGHT CONFERRED BY SUCH A PROVISION OR ANY LIABILITY OF B&D OR ITS AUTHORISED DISTRIBUTORS FOR BREACH OF A CONDITION OR WARRANTY IMPLIED BY SUCH PROVISIONS OR ANY OTHER CONDITIONS OR WARRANTIES IMPLIED BY AND RELEVANT STATE ACT OR TERRITORIAL ORDINANCE OR BY THE GENERAL LAW AND WHICH BY LAW CANNOT BE EXCLUDED RESTRICTED OR MODIFIED PROVIDED THAT TO THE EXTENT THAT THE ACT PERMITS B&D TO LIMIT ITS LIABILITY FOR A BREACH OF A CONDITION OR WARRANTY IMPLIED BY THE ACT, THEN B&D'S LIABILITY FOR SUCH BREACH SHALL BE LIMITED TO THE PAYMENT OF THE COST OF REPLACING THE GOODS OR ACQUIRING EQUIVALENT GOODS OR OF REPAIRING THE GOODS.

I. RE-SUPPLIER INDEMNITY

This Warranty shall not apply to any person or body other than the original retail purchaser of any Unit from B&D or its Authorised Distributor.

Except to the extent provided herein, B&D or its Authorised Distributors shall have no liability (including liability in negligence) to any person or body for any loss of damage consequential or otherwise, howsoever suffered or incurred, by any such person or body in relation to the Units or the services provided in respect of the Units and without limiting the generality thereof, in particular any loss or damage consequential or otherwise howsoever suffered or incurred by any such person or body, caused by or resulting directly or indirectly from the supply of services or from any failure, breakdown, defect or deficiency of whatsoever nature or kind in the Units.

FILL THIS IN NOW FOR YOUR RECORD

Name:

Address:

Purchased from:

Installed by:

Installed on (date):

(Onus on owner for proof of purchase date)

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