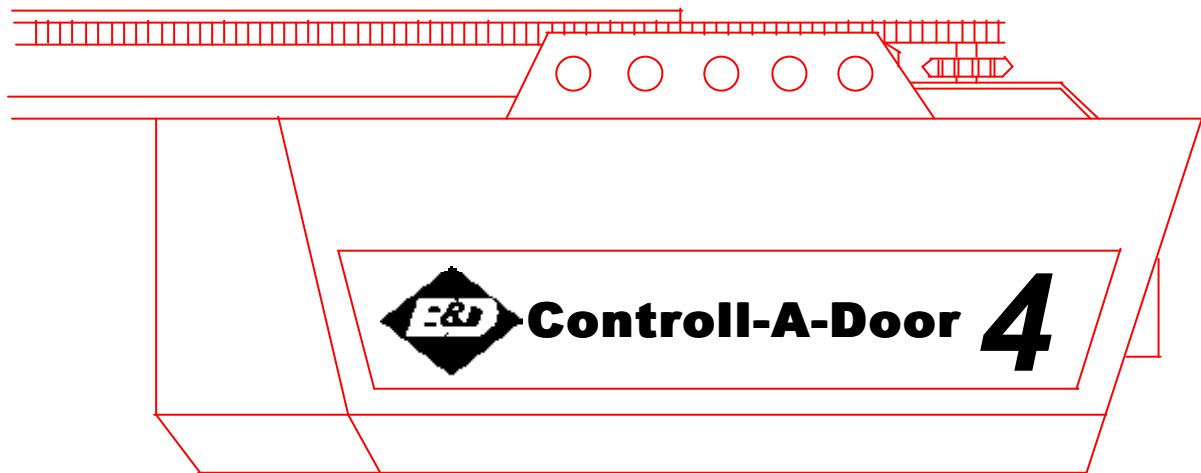




# Controll-A-Door 4

## INSTRUCTIONS



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## START BY READING THESE IMPORTANT SAFETY RULES



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 can cause serious personal injury. **Do not attempt any adjustment.** Call for professional garage door service.



**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, aluminium 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 25mm (1') 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.**



**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 button(s) or remote control(s).** Serious personal injury from a closing garage door may result from misuse of the operator.



**Caution: 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 with Horizontal Track Only**

### Tools Required - 2

See Illustration

### Hardware Provided - 3

#### Assembly Hardware:

- |                         |                                 |
|-------------------------|---------------------------------|
| (1) Washered Screws (2) | (7) Lock Nuts                   |
| (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 (4)  |                                 |

#### Installation Hardware:

- |                         |                        |                             |
|-------------------------|------------------------|-----------------------------|
| (12) Carriage Bolts (2) | (17) Rope              | (23) Ring Fasteners         |
| (13) Wood Screws (4)    | (18) Handle            | (24) Rail Grease            |
| (14) Screws (2)         | (19) Insulated Staples | (25) Tension Assembly       |
| (15) Clevis Pins (2)    | (20) Anchors (2)       | (26) 8mm Anchors (4)        |
| (16) Hex Screws (5)     | (21) Lock Washers (8)  | (27) Sheet Metal Screws (2) |
|                         | (22) 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 | (8) Light Cover                    |
| (2) Trolley              | (9) Manual Release Rope and Handle |
| (3) Chain                | (10) Curved Door Arm               |
| (4) T-Rail               | (11) Straight Door Arm             |
| (5) Hanging Bracket      | (12) Door Bracket & Plate          |
| (6) Power Cord           | (13) Header Bracket                |
| (7) Operator             | (14) Trolley Release Arm           |

## Assembly Section 5 -10

### Assemble the T-Rail - 5

Your operator has a 3-piece rail assembly. Refer to that illustration as you proceed with the following instructions.

On a 3-piece rail (A), the end sections (4) are identical. Make sure the "arrow label" on the centre section (5) is pointing toward the door.

Place rail pieces on a flat surface for assembly. 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, tail may bow when operator is operated.

### Install the Trolley - 7

Insert a screwdriver into trolley 'stop' hole in the front end of T-rail (1).

Slide trolley (2) 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 & Attach Chain Spreader - 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 (4) from the top of the operator. Align holes in back end of the T-rail with holes in operator. (7).

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.

Attach the chain spreader (2) with hex screws (1) and flat washers (3).

Insert a hex screw (5) into trolley stop hole in T-Rail (6). Tighten securely with a lock washer (8) and nut (9).

### Install the Chain - 9

**Do not remove chain from carton.**

Dispense a few inches of chain from carton and fasten to trolley with a master link.

#### Master Link Procedure:

Push pins of master link bar (5) through chain link (6) and hole in front end of trolley (7). Push cap (2) over pins (8) and onto notches. Slide slip-on spring (1) over cap and onto pin notches until both pins are securely locked in place.

**Caution: Keep chain taught during installation to help prevent kinking.**

With the trolley against screwdriver, dispense chain around pulley (4). Proceed back around a groove in chain spreader (9). (Chain installation for either the 6 tooth sprocket (11) or the 8 tooth sprocket (12) is based on door type). **All one-piece doors should use the 6 tooth sprocket.** The operator sprocket teeth (10) must engage the chain. 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.**

### Set the Chain Tension - 10

Insert the threaded shaft (2) through the hole in the trolley (1). By hand, thread the spring trolley nut (3) on the threaded shaft until finger tight against trolley.

Insert a screwdriver tip (4) into one of the slots of the nut ring (7), and hold firmly.

Using an open end wrench (5) at the square end (6), slightly rotate the assembly clockwise until the nut ring (7) is released against the trolley, providing tension for the best operation of the operator.

**Remove the "temporary stop" screwdriver.**

**Assembly of your operator is now complete**

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 (7 feet) or more above the floor where space permits.

### Position the Head Bracket - 11

The header bracket must be rigidly fastened to a structural support of the garage. Reinforce the wall or ceiling with a 40mm (1 1/2") 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 centreline (2) of the garage door. Extend line onto header wall above the door. Open door to highest point of travel. Draw and intersecting horizontal line on header wall 5cm (2") above high point to provide travel clearance for top edge of door.

### Install the Header Bracket

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

Mark either set of bracket holes (4 or 5). **Do not use the holes designated for ceiling mount.** Drill 4.5mm (3/16") pilot holes and fasten the bracket with wood screws (3).

**B. Ceiling Mount:** Extend vertical guideline (1) onto the ceiling. Centre the bracket (2) on the vertical mark no more than 150mm (6") from the wall. Make sure the arrow is pointing toward the wall.

Mark holes designated for ceiling mount only (4). Drill 4.5mm (3/16") 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 cable pulley and header brackets come together.

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

### Position the Operator.

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

Raise the operator onto a stepladder. Open garage door. Place a 25mm (1") board (1) laid flat on the top section of door near the centreline as shown. Reset 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 on 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 the fastening angles. **Do not bend at the bracket holes.** Drill 4.5mm (3/16") 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 centred over the door. Remove 1" (25mm) board.** Operate door manually. If the door hits the rail, raise the 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 the hole in top of red handle so "Notice" reads right side up as shown (3). Secure with and overhand knot (2). Knot should be at least 25mm (1") from end of the rope to prevent slipping.

Thread other end of the rope through hole in release arm of the outer trolley (4). Adjust rope length so that handle is 1.8m (6 feet) above the floor. Secure with and 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

To avoid installation difficulties, do not run the garage door operator until instructed to do so.

Connect the operator to mains which is properly earthed according to the wiring instruction tag attached to power cord (and 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 (1/4") of insulation from bell wire (4). Separate wires enough to connect the white/red wire to terminal screw 2.

Fasten the lighted door control button to an inside garage wall with sheet metal screws (3) provided. Drill 4mm (5/32") 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.

## 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.

### Wiring Instructions for Accessories

**Outside Keylock** - To operator terminals: Red-1 and White - 2

**Protector System™** - To operator terminals: White-2 and Black-3

**Door Control Panel** - To operator terminals: Red-1 and White-2

## 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 & Plate - 19

**Exercise care in removing and assembling are conversion kit. Keep fingers away from the sliding parts.**

**Sectional and One-Piece Door Installation Procedure.**

Door bracket (1) has left and right side fastening holes. Assemble and install the door bracket and plate (2) if your installation requires top and bottom fastening holes.

1. Centre bracket (with or without plate as required) at the top of inside face of door as shown. Mark holes.

### 2. A. Wooden Doors

Drill 8mm (5/16") holes and fasten the door bracket with nut, lock washer and carriage bolt (3).

### B. Sheet Metal Doors

Fasten with sheet metal screws (4).

## Connect Arm to Trolley - 20

### A. Sectional Door Installation:

Close garage door. Pull manual release handle to disconnect outer trolley (14) about 5cm (2") from door. Connect straight door arm (1) to outer trolley door arm connector hole (10) with a clevis pin (6). Secure with a 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 (6). Secure with a ring fastener (7).

**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 (8). Manually raise door to open position (parallel to floor) and lift door arm (9) to trolley. The arm should touch trolley just in back of door arm connector hole (10) as shown in solid line drawing. Increase up limit in necessary. One full turn equals 5cm (2") 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 (11). Manually close door and lift door arm (12) to trolley. The arm should touch trolley just ahead of door arm connector hole (13) as shown in dotted line drawing. Decrease down limit if necessary. One full turn equals 5cm (2") 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 Operator & 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 button(s) or remote(s). Do not allow children to play near the door.**

Your remote control transmitter has been set to operate the garage door operator when you press push button (1). In general, code switches (2) are used when several persons are operating the same device.

### Set Code Switches in Additional Remotes to Matching Positions

Access code switches in original and new remote control (3). Place remotes side by side and set switches in all remotes to matching positions (+, - or 0). Use a pen or screwdriver to slide switches.

### 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 (4) on the back panel of the operator. The operator 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 has not learned 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.

**If door doesn't open completely but opens at least 1.5m (5 feet):**

Increase up travel. Turn the up limit adjustment screw (1) clockwise. One turn equals 5.1mm (2") of travel.

**If door does not open at least 1.5m (5 feet):** 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 5.1mm (2") 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 5.1mm (2") of travel.

**If door reverses when closing and there is not 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 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 half way through down (close) travel. Door should reverse. (Reversal halfway through down travel does not guarantee reversal on a 25mm (1") 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 (5 feet):** 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 safety reverse system test is important. Garage door must reverse on contact with a 1" (25mm) 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:** Place a 25mm (1") 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 travelling 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 25mm (1") 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.

## Install the Protector System™ (Optional) - 25

After operator has been installed and adjusted, The Protector System™ accessory can be installed. Instructions are included with this optional device.

The Protector System™ provides an additional measure of safety against a small child being caught under a garage door.

It uses an invisible beam which, when broken by an obstruction, causes a closing door to open and prevents an open door from closing and is strongly recommended for homeowners with young children.

## 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).
- **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.**

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

1. If open, the door will close. If closed, the door 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. 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 turn off automatically after 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 readjustments, particularly during the first year of operation.**

Refer to the limit and force adjustments on pages 4 & 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 sunvisor with the clip provided. Additional remotes can be purchased at any time for use in all vehicles using garage. Refer to accessories.

**Remote Control Battery:** Remove the battery compartment cover, unsnap the connector and remove the old battery. Insert a replacement battery. Snap connector onto new battery and replace compartment cover. Do not dispose of the old battery with household waste. Take battery to a proper disposal centre.

## Having a Problem?

### • Operator does not 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 fusebox 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 the door? The door may be frozen to 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 page 3.

### • Door operates from door control but not from remote:

1. Check the battery test light. Replace if necessary.
2. If you have two or more remotes and only one operates, review receiver programming procedures on page 4.
3. Is the door control button flashing? The operator receiver must re-learn the remote control code. Follow the instructions on page 4.

### Remote has short range:

1. Is battery installed? Check battery test light. If the light is dim, change the battery.
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 the 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.**

### • Door reverses for no apparent reason and operator light blinks for 5 seconds after reversing:

Check The Protector System™ (if you have installed this accessory). If the light is blinking, correct alignment.

### • 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 neighbour with a garage door 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 wont close:

1. Check The Protector System™ (if you have installed this accessory). If the light is blinking, correct alignment.
2. 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 wont 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 re-installed, 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, reinstall chain.

**Repeat safety reverse test after adjustment is complete.**

### • Operator wont 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 incase 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 ..... 1/2

Rated Pull Force ..... 800N

### Motor

Type ..... Permanent Split Capacitor

Speed ..... 1500rpm

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 (7 1/2')

Travel Rate ..... 127-178mm (5"-7") 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 (122-1/2")

Headroom Required ..... 5cm (2")

Hanging Weight ..... 14.5kg (32lb)

### Receiver

Operating Frequency ..... 27.145MHz

Memory Registers ..... 12

Code Switch Memory ..... 1

Keypad Code Memory ..... 1

## Warranty

A. The Manufacturer, B&D Australia, a member of the Clyde Group ("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 Controll-A-Door (the "unit") including every major component thereof will be free from defects in materials and workmanship in normal use, service and operation:

- for a period of five (5) years where the residential unit is installed in and for the purposes of domestic or residential applications, and
- for a period of three (3) months where the residential 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 state.

B. (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.

C. 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.

D. 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.

E. 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.

F. 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 of 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 manufactured or sold as and authorised B&D Door or, where it is an authorised B&D Door, is not of the type or condition specified suitable for installation of the unit in the Owner's Handbook Annex, Installers Instructions at page 3: 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 failure, breakdown, defect or deficiency of whatsoever nature or kind in the units.