

INSTALLATION INSTRUCTIONS



REQUIREMENTS BEFORE INSTALLATION.

B&D Roll-A-Doors are normally installed to operate behind the opening, overlapping as described in the Dimension sketch, opposite. Openings should therefore have sufficient return on both sides to accommodate the support brackets and door guides, with necessary working clearances.

The door is supported on brackets above the opening at each end and requires headroom for the door to roll up in (see Dimension Panel). Consequently, piers or door posts must continue up past the top of the opening to provide fixing for the support brackets.

It is preferable that lintels (or 'heads') be built flush with, or slightly forward, to the back of the door-posts if possible. This avoids an excessive gap between the door and the lintel, while allowing sufficient working clearance to prevent the door rubbing against the back of the lintel.

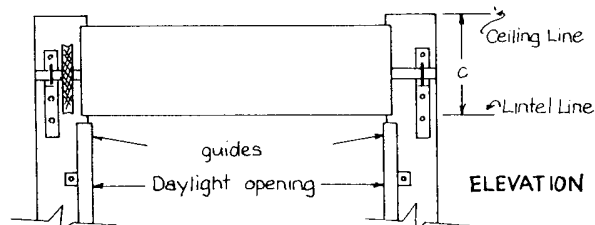
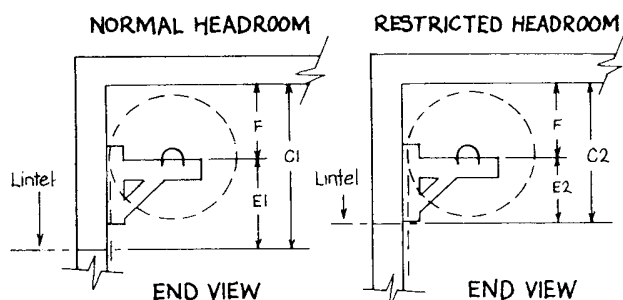
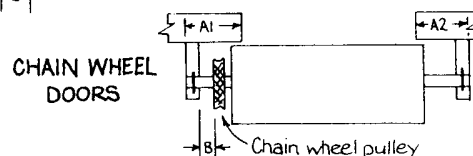
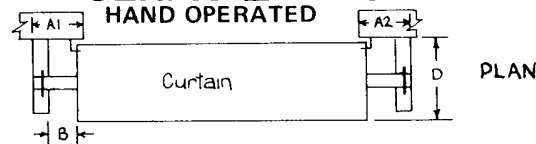
Door size - Width: The door curtain should be 75mm or 100mm (see Dimension Panel) wider than the opening. However, a wider than normal door can be fitted by allowing the door to overlap further on each side, providing the additional sideroom is available.

- Height: A door can not be installed higher than its maximum size; however, it can be installed in a lower position (providing the door guides are cut to suit - as shown later).

If the opening is too high, the door should be installed at the maximum door height position and the opening reduced or treated as shown in Step 2 under the heading "Bracket Fixing"

WARNING! No guarantee will be given or responsibility accepted by the manufacturers if the door is not installed as instructed. For satisfactory door operation please follow the instructions carefully.

SERIES II INDUSTRIAL HAND OPERATED



NOTE: Hand operated doors up to 2400 mm high bottom rail will hang 65mm below lintel. For doors over 2400mm high bottom rail will be level with lintel.

DIMENSION PANEL All measurements are in millimeters and are minimum unless otherwise shown.

Height	Width	A1	A2	B	C1	C2*	D	E1	*E2	F	*G	Operation
Up to 2400	Up to 4345	125	125	35-70	540	475	555	245	180	295	65	Hand Operated
Up to 2400	Over 4345	135	135	"	"	"	"	"	"	"	"	"
2401-3000	Up to 5100	175	125	5-70	620	555	565	310	245	310	65	Direct Drive
3001-3300	Up to 3735	"	"	"	"	"	"	"	"	"	"	"
3001-3300	Over 3735	210	135	5-60	"	"	"	"	"	"	"	Planetary Gearing
3301-3600	Up to 3735	195	125	5-70	"	"	"	"	"	"	"	"
3301-3600	Over 3735	210	135	5-60	"	"	585	"	"	"	"	"
3601-4200	Up to 5100	"	"	"	"	"	"	"	"	"	"	"
4201-5100	Up to 5100	"	"	"	635	590	615	"	265	325	45	"

*C2, E2, G Dimensions are for Restricted Headroom Installations Only, (G = Height of guide top above bracket arm see Step 4) Dimensions are recommended and suit Normal Headroom Installations, top of guide will be level with top of bracket arm (i.e. G = 0)

Step 1 PREPARATION

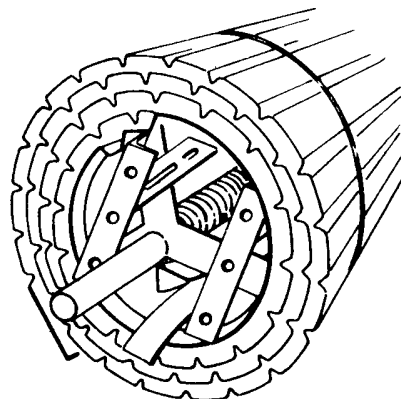
DO NOT CUT THE BANDS THAT HOLD THE DOOR IN A ROLL

At a later stage during the installation you will be told just when to cut these bands.

Remove brackets, guides and bag of small parts from each end of the door roll.

Because B&D Roll-A-Doors overlap the opening on each side, the door and opening widths should be measured to determine the amount of door overlap to enable correct positioning of the brackets.

Doors up to 2400mm high and 4345mm wide and doors 2401 to 3600mm high and up to 3735mm wide should overlap the opening by 38mm each side. All other doors should overlap the opening by 50mm each side.



Step 1



FIXING REQUIREMENTS

For attachments to good timber work, coach screws are the standard fixings supplied with B&D Roll-A-Doors. When installing onto brickwork special fittings will be required. The following items are recommended and can be obtained from most hardware stores.

It is the installers' responsibility to ensure that the fixing method is sound.

When deciding the fixing method, dynamic loads on door brackets as well as the door weight must be considered.

For Brackets:

Use six 10mm (3/8") min. bolt size masonry anchors; (dynabolts or similar).

For Guides:

Use the 40mm x 8mm (1 1/2" x 5/16") coach screws supplied, with a good quality plastic masonry plug or suitable masonry anchors.

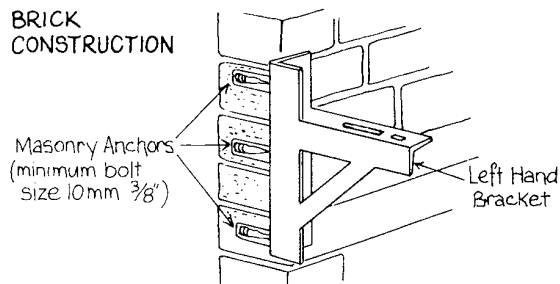
NOTE TO BUILDERS:-

Masonry blockwork should be properly filled and reinforced if brackets are to be mounted directly to blockwork with masonry anchors. Where the blockwork is not solidly filled but structurally sound, long bolts should be passed through the blockwork using suitable steel plates under bolt heads.

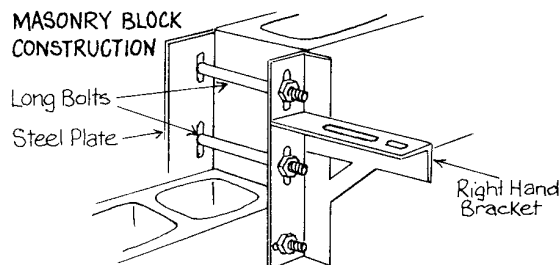
Special consideration should be given to brick type and construction of wall, to ensure satisfactory fixing e.g. welding detail if fixed to steel.

ALTERNATIVE METHODS OF ATTACHING BRACKETS AND GUIDES

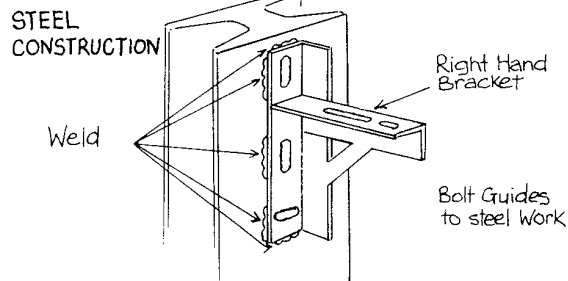
BRICK CONSTRUCTION



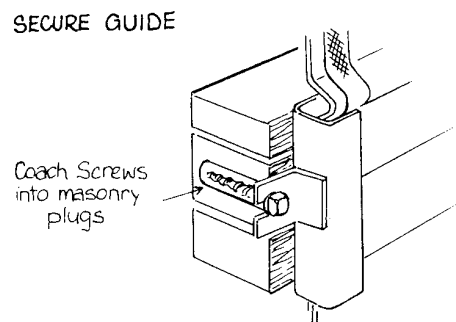
MASONRY BLOCK CONSTRUCTION



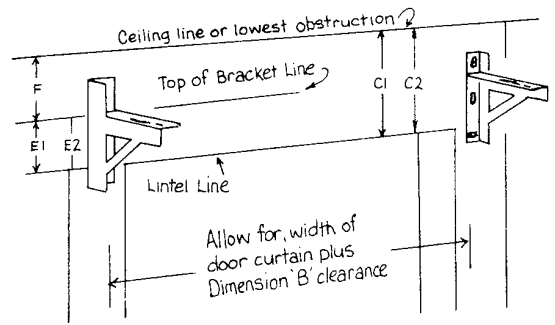
STEEL CONSTRUCTION



SECURE GUIDE



Step 2



Check the opening dimensions to ensure you have the correct door size. Check floor and lintel levels and work from the lowest side or from the side with the least headroom. Mark out first bracket after checking dimension panel for height of brackets above lintel, E1 for normal headroom installation and E2 if headroom is restricted. (If insufficient headroom, measure down from ceiling or obstruction using dimension C1 or C2 and mark a new line and treat as the lintel). Mark out one bracket, drill and fix after allowing sufficient side clearance for door curtain. Using a water level or a straight edge and spirit level, transfer position of top of first bracket arm to opposite side of opening, then mark, drill and fix second bracket. (Note: the brackets must be perfectly level for correct door operation). Also ensure that the brackets are secure.

NOTE: 1. Where possible, and for best performance, doors should be installed in the normal headroom position. The restricted headroom installation should only be used where headroom is restricted.

2. The bottom rail of doors below 2400mm high will hang below lintel and reduce walk in height by 65mm. For doors above 2400mm high, the bottom rail will be flush with the lintel.

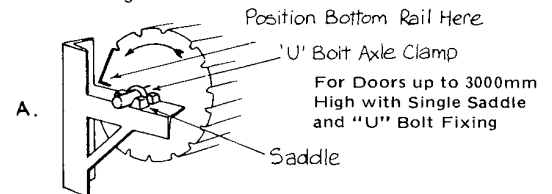
3. Where insufficient headroom exists and brackets are placed above a marked lintel line it may be necessary to fit a false head or lintel to improve appearance of the installation and to improve cover.

Step 3

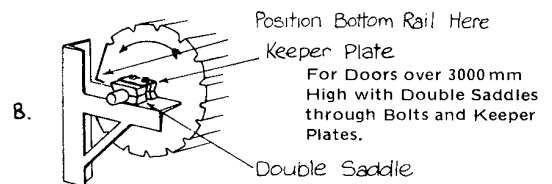


POSITION DOOR ON BRACKETS

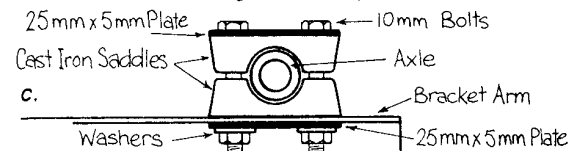
With the door the correct way round (the curtain rolls down the rear of the opening) carefully lift door onto the brackets, using block and tackles attached to the door axles, or other suitable lifting equipment - avoid curtain damage.



For doors up to 3000mm high, rest axle on cast iron saddle and loosely secure with "U" bolts, nuts and washers, through slots in bracket arm. (See sketch).



For doors over 3000mm high, rest axle between two cast iron saddles and loosely secure to bracket arm with bolts, plates, nuts and washers provided. (See sketch below) If chain gear is fitted, ensure that the chain is placed around the chain wheel and hangs down freely.



Before tightening "U" bolts or saddle bolts, position the door (1) so that it overlaps the opening evenly both sides (2) so that the axle is positioned on the bracket arm slots as far forward as possible, while still allowing the bottom rail to pass the lintel when the door roll is rotated. (See sketch B) (3) Rotate both the door and the axle so that the bottom rail is level with the bracket arm. (See sketch B) Now tighten the "U" bolts or saddle bolts very tightly, using washers under nuts, to a torque of 40 newton metres or 30 ft.lb.

WARNING: Axle must be securely clamped otherwise door will lose spring tension.

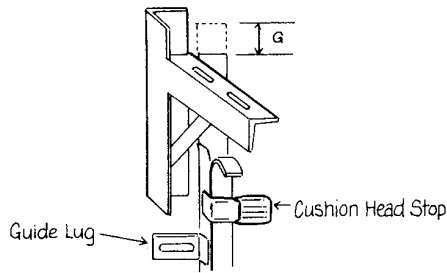
Step

4



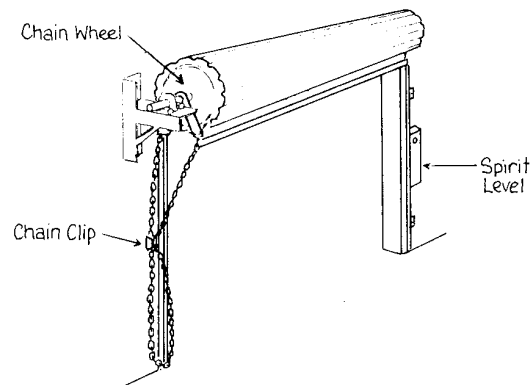
INSTALL GUIDES

Guides must be the correct length. The guide top is to be level with the top of bracket arm for preferred "normal headroom" fixing or above the bracket arm by dimension G for "restricted headroom" fixing. If guides need to be shortened cut from bottom of guide.



GUIDE LENGTH – PREFERRED HEADROOM	
Top of guides should be level with top of bracket arm all door heights	

GUIDE LENGTH – RESTRICTED HEADROOM	
DOOR HEIGHT	DIMENSION G
Up to 4200mm	65mm
4200mm to 5100mm	45mm



Position guides true and plumb at each side of the opening. Allowing 3-4mm of working clearance between the door and the inside of each guide, mark, drill and fix both guides. Use the 10mm (5/16") coach screws and washers supplied (with suitable plastic plugs for masonry application or other fixings to ensure satisfactory attachment. (Note: Welding of guides to steelwork is usually not recommended).

WARNING

Do not grease the guides. Grease will damage the Nylofelt II running strips and make doors heavier to operate.

PAINTING YOUR ROLL-A-DOOR FOR LONGER LIFE AND PROTECTION OF YOUR ROLL-A-DOOR FOLLOW THESE PAINTING RECOMMENDATIONS

CLEANING: Degrease door by washing down with a clean cloth and mineral turps or Polywash, to remove all traces of grease, dirt, dust and grime. Wipe down with a clean dry cloth and allow to dry.

IMPORTANT. DO NOT paint inside guide tracks or on the running strip. Remove paint spots immediately.

PRIMING. THIS IS IMPORTANT. Apply one coat Dulux Galvanised Iron Primer and allow 2 hours drying time. Do not apply when temperature is below 10 °C (50 °F).

UNDERCOAT: Apply one coat of Dulux Wundercoat, allow 12 hours drying time, lightly sandpaper smooth and dust off.

FINISHING COAT: Apply one coat of Dulux Weathershield Flat or Gloss and allow 24 hours drying time before opening door.

NOTE: In areas where salt sea spray or industrial fallout is a problem a second coat may be required.

AFTER PAINTING CARE. It is advisable, particularly in corrosive areas, to wash your door regularly, including the top of the door roll, with a cloth and water. This will maintain the surface free from corrosive deposits giving your door longer life and a more lasting appearance.

Step

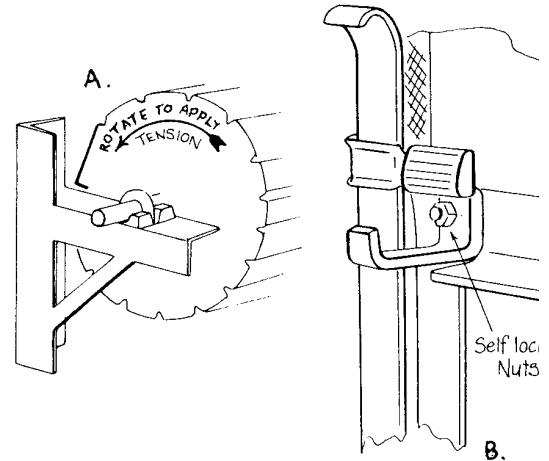
5



SPRING TENSIONING BOTTOM RAIL STOPS

Check top of guide lead in to ensure that the door does not make contact when rotated. Damage to Nylofelt could result.

Apply tension to the springs by rotating door approximately two (2) complete turns in a forward direction (see arrow on sketch A) after ensuring axle is securely clamped. The amount of tension required for satisfactory operation may vary with individual doors, depending on size. Final adjustment should be made later.



WARNING

Once the bands containing the door roll are cut, the door will have a strong tendency to rise and revolve. If uncontrolled, the rapidly unrolling door could cause damage or injury. Therefore, it must be securely held until bottom rail stops are fitted. Chain wheel doors can be held in position by locking the chain in the chain clip attached to the left hand guide.

Hold door firmly and cut the bands. Feed door down into guides below head stop.

Fit bottom rail stops using self locking nuts provided. Allow door to rise and to rest against head stops. (See sketch B.)

FIT HANDLE

Doors up to 2400mm are supplied with a chrome lifting handle. Fit handle to pre-drilled holes using screws and washers provided.

FINAL ADJUSTMENT

Operate door up and down a number of times to check operation. If operation is uneven or unsmooth, rectify as below:—

FAULTS

1. Door hard to operate in one direction.
2. Door hard to operate in both directions.
3. Door is stiff to work and rattles over lead in on top of guides.
4. Door is scraping in the guides.

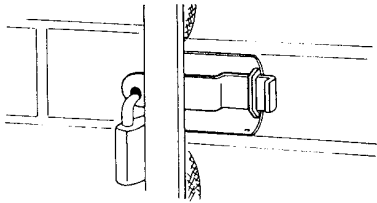
REMEDIES

1. Adjust spring tension.
2. Check guide clearances (see that door is not jamming). Also check that the inside surfaces of the guides are clean and free of any oil film. Use a spirit cleaner if necessary. Polishing the inside surfaces of the guides improves operation.
3. i) Check that guides are not too long. Move the door closer to the lintel.
ii) With the door up and chain secured, loosen one "U" bolt/saddle bolt and push that side of the door towards opening as far as possible without scraping lintel. Tighten the "U" bolt and repeat operation with the other side, ensuring that the axle is still parallel with opening.
iii) Pack out top lug of guide.
4. Check that the guides are plumb, the clearances are correct and the door is correctly centred with the opening. Also check that the brackets are level.

Step 6

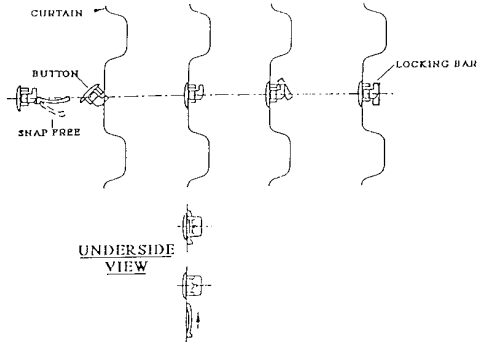
LOCKING INTERNAL WAIST HIGH SLIDE BOLT

(Left hand side shown—viewed from inside.)



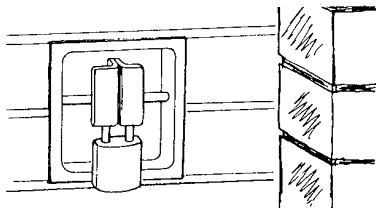
With door fully closed check that bolt slides through guide. Adjust hole if necessary.

INSTALLATION INSTRUCTIONS LOCKING BAR RETAINING BUTTON

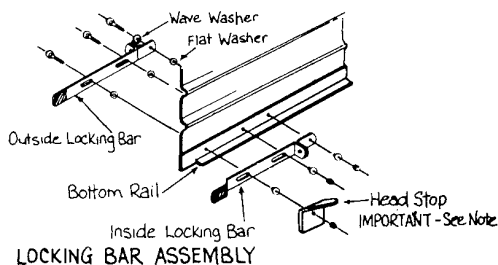


OPTIONAL LOCKING EXTERNAL WAIST HIGH SLIDE BOLT

(Fitted R/H side unless otherwise specified)

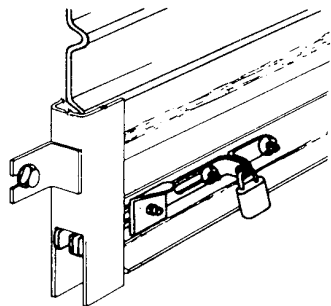


METHOD OF FITTING OPTIONAL PADBOLT TYPE LOCKING



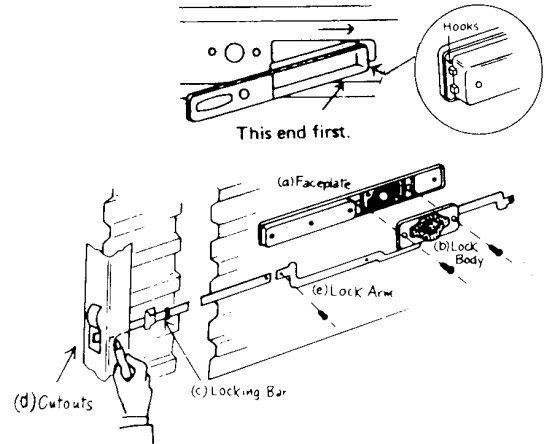
IMPORTANT

Head-stop must be secured to slide bolt as shown in drawing before door is operated. Failure to do so will result in unrolling of door causing damage.



CENTRE LIFT LOCK

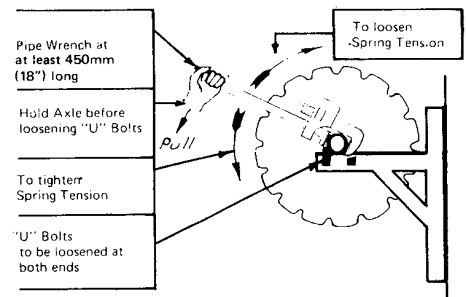
- Undo screws to separate lock from faceplate.
- Fit faceplate to outside of door. Fit hooks onto curtain edge, then slide faceplate as far to the right as possible.
Use adhesive tape to hold in position.
- Attach the lock body to the faceplate from the inside, using the mounting screws and washers. Do not over-tighten the screws.
- With the door in the closed position slide the end of the locking bars through the locking bar retainers, and while holding the bars level mark the side of the guides.
- Tap and bend the cut-outs as shown. If locking slots do not line up, re-drill new holes in the correct position, ensuring that the slot is no wider than the existing slot.
- Slide bars through guide slot, then back onto lock arms. Screw on securely using 4mm x 6mm screws supplied.



ADJUSTING SPRING TENSION IF NECESSARY

HAND OPERATED AND DIRECT DRIVE DOORS ONLY

With door in open position (rolled up), tie two ropes right around door approximately 12" from each end. With a man at each end secure a firm hold on axle with stilson or pipe wrench and loosen axle clamp with socket spanner. Axle can then be rotated in required direction (see diagram below) until approximate tension is gained. It is recommended that alteration to spring adjustment be only by small degrees till the best position is found. Axle clamp must then be re-tightened very tightly to a tension of 40 Newton metres or 30 ft. lbs. Before releasing hold on pipe wrench (stilson). Repeat process if spring still requires further tension.



WARNING: Hold Axle before loosening "U" Bolts

IMPORTANT: Do not attempt to loosen "U" Bolts before securing firm hold on Axle with Pipe Wrench (Stilson).
Do not use files or similar brittle steel tools as Tommy Bars.

DOORS WITH PLANETARY GEARED CHAIN WHEEL ONLY

If the door tension needs adjusting and the door is fitted with Planetary Gearing then follow the steps below:

- Lower the door to the closed position.
- Move the slide bolt or bolts to the locked position.
- Secure both chains in the chain clip.
- Carefully loosen the axle clamps.

NOTE: The full force of the springs is now acting on the chain.

- To increase spring tension carefully pull down on the rear chain, this will require considerable effort and should only be attempted if an assistant is nearby, lock the chain in chain clip.
(b) To reduce spring tension hold the rear chain firmly, release chain from chain clips and allow rear chain to move upwards, secure chain in clips.

NOTE: As a safety precaution to protect both the door and the installer, lock a section of the chain in the chain clip so that the chain is restricted to short movements.

- When the tension is correct, secure the chain in the chain clip and re-tighten the axle clamps to the correct tension.
The correct adjustment will only be found by trial and error, adjustments should be restricted to approximately one revolution of the chain wheel.

B&D ROLL-A-DOORS ARE AVAILABLE FROM:

NSW Office: B&D Australia, 34-36 Marigold Street, Revesby 2212. Phone: (02) 9722 5555. QLD Office: B&D Australia, 17 Oasis Court, Clontarf QLD 4019. Phone: (07) 3883 0200. VIC Office: B&D Australia, 147-153 Canterbury Road, Kilsyth 3137. Phone: (03) 9237 7766. SA Office: B&D Australia, 23 Frederick Road, Royal Park 5014. Phone: (08) 8447 4747. WA Office: B&D Australia, 96 Mulgul Drive, Malaga 6062. Phone: (08) 9247 8777. TAS Office: Tom Moore & Son, 86 Bass Highway, Cooebe 7320. Phone: (03) 6431 4388.

B&D Australia A.B.N. 25 010 473 971

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