



**SERIES "A & AA " ROLLER DOOR**  
**INSTALLATION INSTRUCTIONS**





**NOTE: Instalation of Garage doors should only be undertaken buy experience Garage Door Technicians. Some componets are under extreme force during installation and faulty installation may result in serious injury or death**



**Danger! Never allow persons to place themselves underneath any part of the garage door during installation. Serious injury or death may result**

When you pick up the roller door from the factory the product will present as several packages. These are....

- 1) Rolled up door
- 2) Pair of Tracks
- 3) Pair of Brackets
- 4) Pack of accessories

Before commencing installation you should inspect the door and ensure all parts are provided and are free from damage



**Before commencing installation you must ensure the structure is suitable to carry the load of the door during operation. Consult a structural engineer is nessecary**

Before starting the installation you should confirm the door size corresponds to the opening. Our recommendations for door sizes are

Width: A series doors = Max opening width + 50mm  
AA Series doors = Max opening width + 100mm

Height: Opening Height + Headroom – 350 = Door Size  
i.e. 2200mm Opening + 250mm Headroom – 350mm = 2100 Door size  
Always round up to the next standard height

#### Bracket Installation

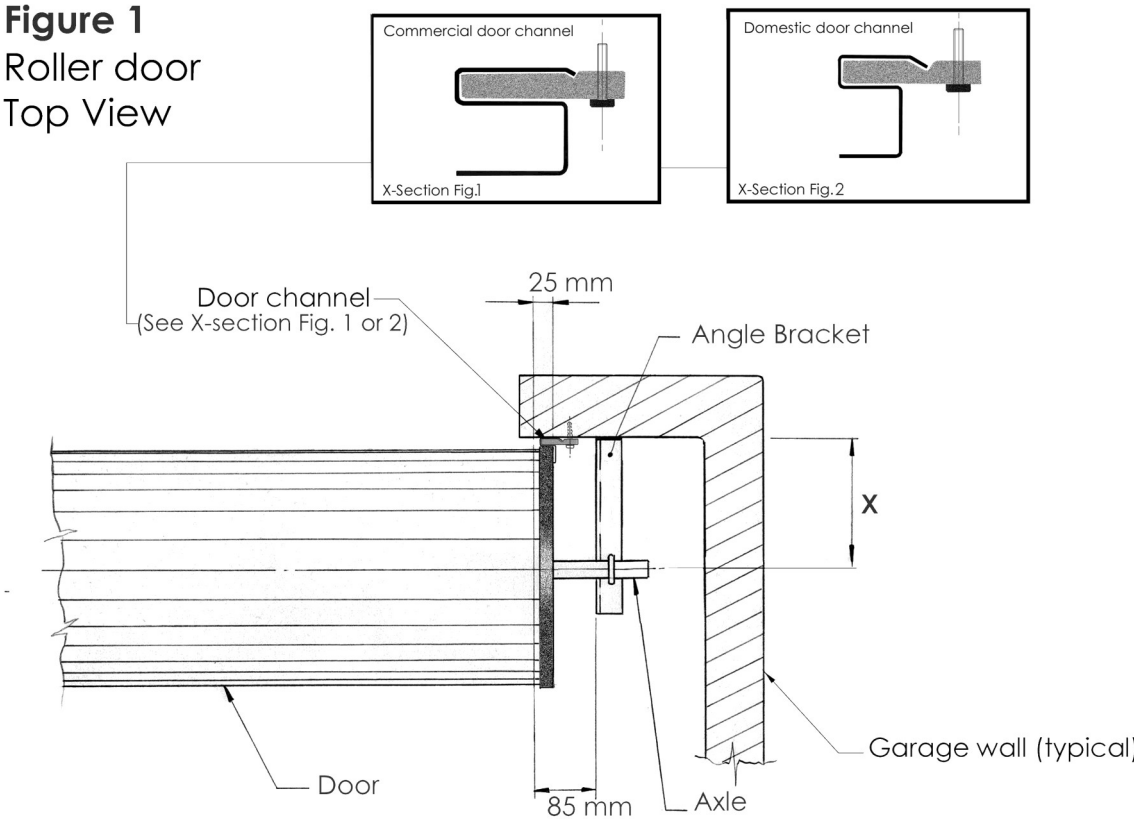
The first step in the installation is to determine the angle bracket location. The position of the brackets will depend on the door size and type and the site measurements.

Firstly measure the diameter of the the door when rolled up. If you have headroom is less than the door door diameter then you should work down from the ceiling

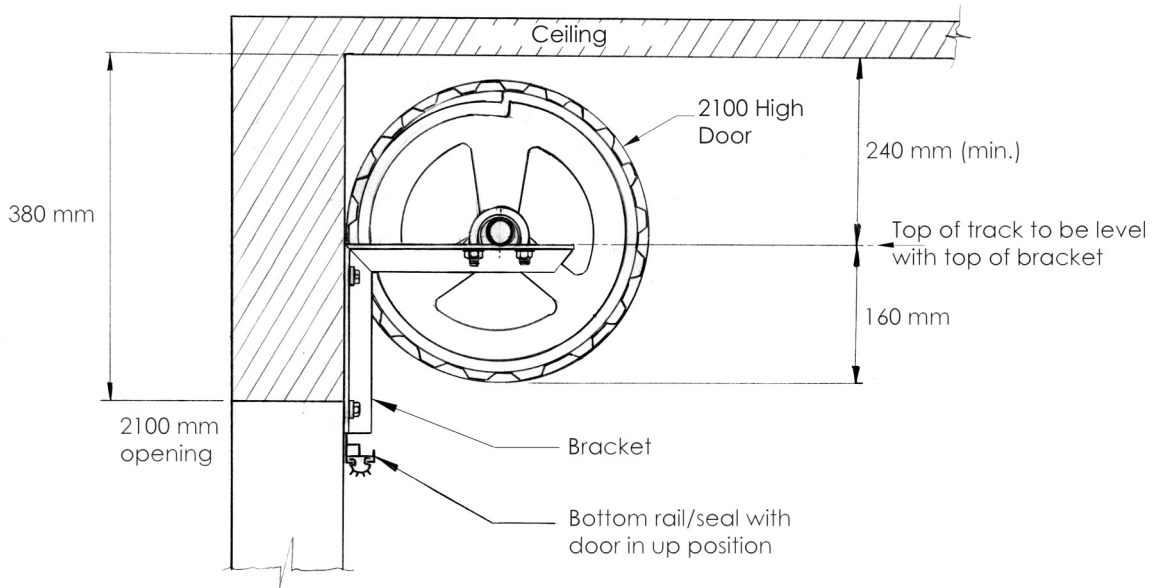
When installed the top of your bracket should be low enough so the door can roll freely without touching the ceiling. It is recommended that when the door is fully rolled up there should be 50mm clearance between the top of the door and the ceiling. This allows for the bottom rail which is thicker to clear the ceiling when tension is wound onto the door.

On installations where the headroom is greater than the diameterof the door then the brackets should be placed high enough that the bottom of the door roll is 40 mm above the daylight opening. The exception to this is that when the tracks are cut to length so that the bottom of the door stop is level with the opening then the the top of the bracket should be level with the top of the track.

Figures 1 & 2 below will assist in setting out the bracket location however as every installation is different so you will need to determine the bracket postion using the measurement off your door and the site.



**Figure 2**  
Roller door - End View



Once you have determined the bracket position mark the location with a marker pen.

Fix the bracket to the structure with suitable fixings



**Note the fixings supplied are suitable for installation into most masonry walls. It is the installer responsibility to ensure the correct fixing is used for the type of construction and that the fixings are installed in accordance with the fixing manufacturers recommendations.**

It is important that fixings are located in the centre of the slots on the brackets. This allows for minor levelling adjustments.

Once you have one bracket installed use your water level to level both brackets. It is extremely important that the brackets are level. This can only be accurately done with a water level (not a spirit level). Install the second bracket to the water leveled mark

## Door Installation

Before lifting the door onto its brackets ensure the axle is sitting in its neutral position by pushing it into the door from one end whilst rotating  $\frac{1}{2}$  a turn. The axle will spring back and find its neutral position. Mark the position of the drum wheel on the axle with a felt nib pen

With the aid of looped lifting ropes raise the door to allow the axles to sit on the brackets. Ensure U-bolt saddle is between bracket and axle

Place a "u" bolt over one axle and through the bracket with the nuts and washers provided. **Do not tighten the nuts at this time.** Repeat at the opposite end.

Make sure the door is central in the opening and the drum wheel aligned with the centralising mark you left on the axle for this purpose.

Check the axles are parallel with the opening (measurement X in Fig1)

Rotate axles to position the bottom rail of the door is at the 6 o'clock position (the bottom of the door roll)

**Securely** tighten the "u" bolts.



**Considerable tension will be applied to these "u" bolts when the springs are tensioned so it is important to ensure the "u" bolts are well tightened but not overtightened so as to distort the saddles.**

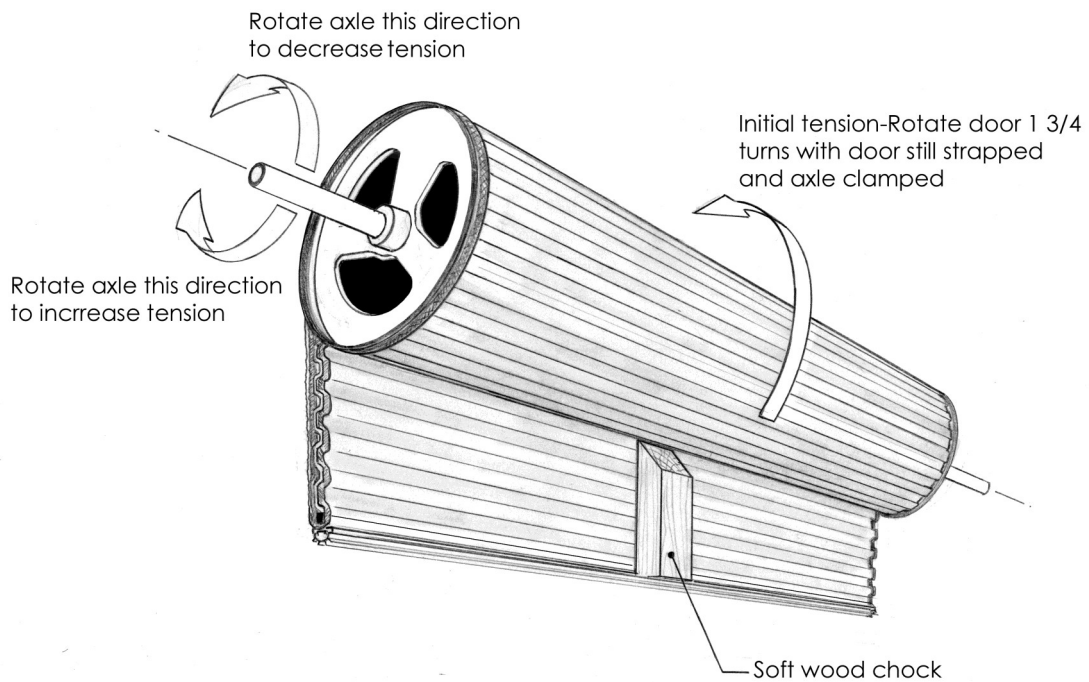


**Do not cut the stretch wrap plastic from the door. The door has been rolled up in the factory undertension. Cut the plastic prior to tensioning the door springs will result in the door unravelling which may damage the door and or result in serious injury or death**

Tension the springs by spinning the door in the direction as shown in figure 3. Rotate the door  $1\frac{3}{4}$  turns. If you positioned the bottom rail correctly before tightening the ubolts then  $1\frac{3}{4}$  turns will position the bottom rail at the 9 o'clock position when viewed from the left hand side (Viewed inside looking out)

Hold the door in position and cut the plastic wrapping, taking care not to damage the door with your knife. Once the plastic is released and the door down 200 to 300mm and fit a softwood chock as shown in figure 3 to prevent the door from rolling up.

**Figure 3**  
Roller door tensioning



### Guide fitting

Measure between the top of the bracket and the floor on each side of the opening. Trim the bottom of the corresponding tracks to these measurements. The bottom of the track is the opposite end to the stop welded to the track

**Special note guides are supplied in *pairs* and the correct tracks for each side must be identified.**

Using a rag dampened with kerosene clean the inside of the tracks.

Gently knock in the track fixing lugs in to the guides as shown in figure 1

Slide the tracks over exposed door curtain and fix the tracks to the walls with suitable fixings allowing a 2mm gap between the inside back of the track and the edge of the door.

Ensure the tracks are perpendicular and plumb. All fixings should be **central** in the slot of the track lug to allow for minor adjustments. All track fixings should be in line with each other across the opening

Do not tighten guide fixings at this stage rather the fixings should be a snug fit only.

**Ensure** the bottom rail is **below** the door stop welded to the top of the guide and the lead ins are bent out sufficiently to allow the curtain to feed into the guide without snagging.

Allow the door to travel the to the floor and check for correct tension adjusting guide positions as needed. Tighten all guide fixings securely.

Should the door be too heavy to lift additional tension must be added and this done as follows.

**Extreme care must be exercised so the tension on the springs does not slip during this process**

Roll up the door up to the stops welded to the guide and loosen the "u" bolts **one end only**.

Apply a pair of Stilsons to the axle at the other end in such a position as to allow the Stilsons to be pulled down at least 1/2 a turn. Refer to figure 3 for rotation direction

Loosen the other "u" bolt to a point where the axle can be turned with the Stilsons and apply a 1/4 turn by pulling the Stilsons down.

Re tighten the "u" bolt remove the Stilsons. Re tighten the other "u" bolt.

Check the operation of the door for tension and adjust as necessary.

Should the door tend to run away at the top too much tension has been applied and the reverse procedure must be carried out.

### **Lock Holes**

In the case of **manual** doors only.

Close the door so the weather seal engages the floor but is **not** compressed and mark the top of the lock rods accurately on both guides. Transfer this mark to the back of the guide with a square.

Drill a hole through the guide using a 12mm holesaw so the top of the hole is 5mm below the top of the guide mark.

Close the door and with minimum effort compress the weather seal and lock the door. Adjust the lock hole with a round file to obtain a satisfactory fit of the weather seal to the floor and easy of key operation.

**Clean off all burrs.**

Remove the protective plastic film on the door and ensure door is running smoothly.