

The new GDS door has been designed for ease of operation, security and attractive appearance with minimal maintenance. The door will perform efficiently if it is installed correctly.

Read these instructions carefully before commencing the installation. Warranty is void if the door is not installed correctly according to these instructions.

Section 1: Pre-installation Checks

A Roller Door is designed to be fitted behind the opening, so the following dimensions and conditions need to be checked before fully unpacking the door for installation.

- 1: OPENING WIDTH:-** Check that the door curtain supplied overlaps the opening width by a minimum of 25mm each side on single guide, (40mm on double guide).
- 2: SIDE CLEARANCE:-** The standard side clearance required is 100mm on each side of the opening on doors up to a maximum of 9' 6" wide and 8' high (130mm on doors wider than 9' 6" or higher than 8'), an extra 80mm side clearance is required to one side for automatic operation. (On special orders! Doors up to 9' 6" wide and 8' high can be fitted to a minimum of 75mm, on wider or taller doors a minimum of 120mm).
- 3: OPENING HEIGHT:-** The door will fit any opening height up to that stated on the packaging.
- 4: HEADROOM:-** A minimum clearance between the underside of the lintel and the ceiling of 330mm (To get full use of the opening height 460mm is required). The clearance must extend to a minimum of 500mm back from the face of the lintel. (see figure 1).

If optional grab handle is fitted, drive through height is reduced by 75mm.

5: STRUCTURAL CONDITIONS OF OPENING:-



Ensure that the area around the opening is strong enough to support the door.

The surface where the door is to be fitted must be flush and reasonably smooth. Small irregularities in brick work will be acceptable. The lintel must not protrude backwards or forwards from the brick piers.

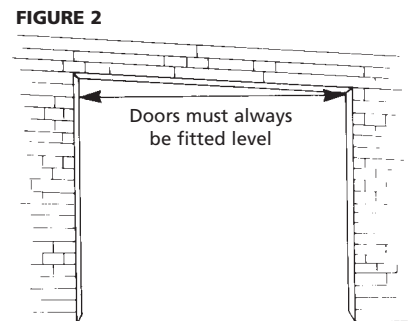
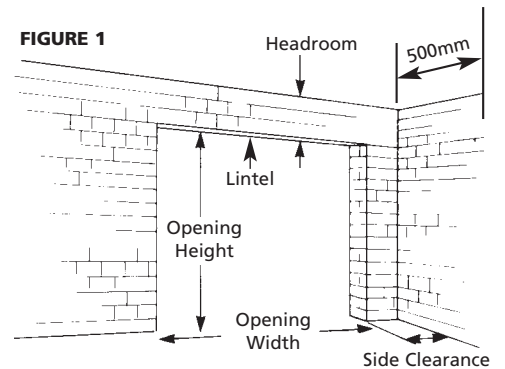
6: FITTING NOTES:-

(a) Door package and its contents should be checked for obvious damage before removal of protective steel outer wrapping (If on your door) . **Do not remove any wrapping, or steel protective outer wrapping if fitted to your door, until instructed (see figure 3 & 4).**

(b) A minimum of two people must be available for fitting. However due to the weight and spring tension of larger doors, we insist that three people be available for installation i.e. doors over 10ft wide or 9ft high.

(c) The door should only be fitted after any plastering of the area has been completed. Plaster splashes will damage the pre-finish on the curtain and cause premature wear of the nyloglide within the guides.

(d) **The door must be fitted square and level irrespective of the shape of the opening. On no account should any compensation be made to suit an irregular opening.** (see figure 2).



DO NOT remove any wrapping until instructed

FIGURE 3

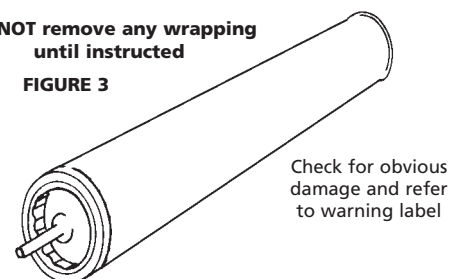
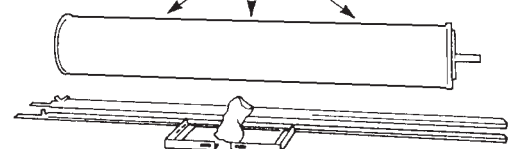


FIGURE 4

Do not remove any wrapping until instructed



Section 2: INSTALLATION

Have all the necessary tools to hand before starting. (Tape measure, stanley knife, pencil, spirit level - 17mm socket, 13mm socket, masonry drill, electric drill, drill bits - various, hacksaw - Two 18" pipe wrenches, hammer, screw drivers, allen key, square file, one piece of softwood - 450 x 80 x 30mm approx).

During installation we recommend appropriate safety wear be worn at all times i.e. safety glasses, rigger gloves, footwear.



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Do not remove any wrapping, or steel protective outer wrapping if fitted to your door, until instructed.

1: MARK DOOR POSITION:- From the pre-installation check you have made sure that the door supplied fits the opening. Mark the door curtain overlap on the wall to facilitate the fixing of the brackets and guides.

The necessary clearance between the curtain and support bracket is 10mm minimum/100mm maximum. If the door is to be automated please ensure there is an overall clearance of 165mm (minimum) from edge of curtain.

The correct support bracket height above bottom of the lintel is 220mm. A headroom of 460mm between the top of the opening and the ceiling or rafters is required to accommodate the rolled-up door and give full use of the daylight opening. If this headroom is not available fix a support bracket 240mm down minimum from the ceiling or rafters. (see figure 5).

Fitting packs are supplied for masonry fixing. M10 x 75mm sleeves for the support brackets. M10 x 40mm for the guides. (If you should be fixing to wood, you will require coach screws as above, not supplied).

2: THE OTHER SUPPORT BRACKET:- should then be positioned using a straight edge and spirit level so that when the door is placed on the brackets the axle will be perfectly level.

ENSURE THE SUPPORT BRACKETS ARE PERFECTLY LEVEL.

3: MOUNT DOOR TO BRACKETS:-

- Whilst the door is on the floor, rotate the axle back and forwards through the roll to centre it. (see figure 6).
- Check axle length does not foul any obstructions. Cut down if necessary.
- Lift the door onto brackets after ensuring that the roll is the correct way round. With the bottom bar/weather seal pointing up inside the garage. (see figure 7).
- Fit a 'U' bolt, nut and washers loosely at each support bracket. (see fig 7).

4: POSITION DOOR:-

- Centre the door roll in the opening by lifting and pushing the axle either way.
- Tighten the 'U' bolts with the axle. 220mm - 250mm from the lintel with the bottom rail at the start position shown in figure 7.
Lock very tightly as spring tension will be lost if the axle is not firmly clamped.

FIGURE 5: FIX BRACKETS

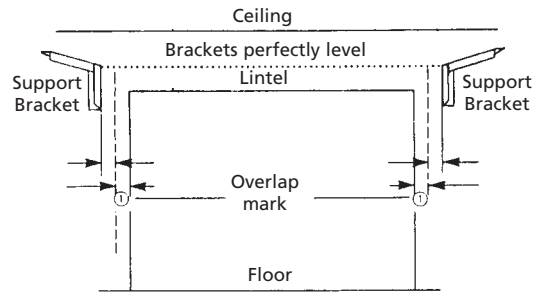


FIGURE 6

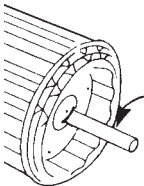


FIGURE 7

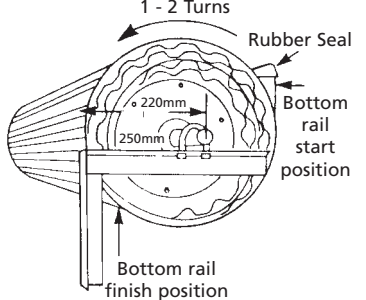


FIGURE 8

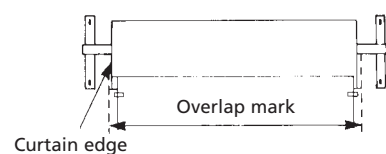
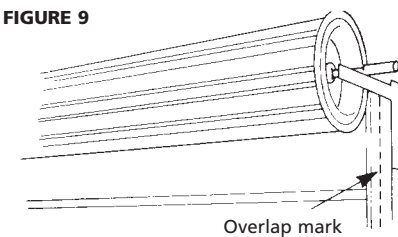


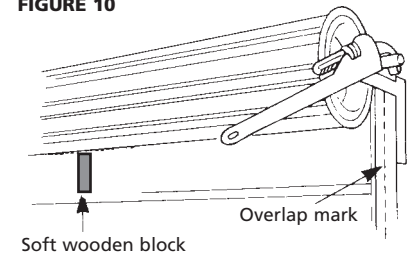
FIGURE 9



5: PREPARING GUIDES:- As in figure 12a and b, and (if necessary) cut and splay the guides creating a 3 sided funnel effect, **it is critical to (if not already done so) hammer flat the top 6" section which is exposed by the top notch.** (see figure 12b).

From the top of the horizontal leg of the support bracket measure down 220mm and mark the wall. This will be in line with the bottom edge of the stop bar (see fig. 11). From this mark measure to the finished floor level, this is the measurement of the guide from the bottom edge of the stop bar to the finished floor level. If your guides need shortening, cut any surplus from bottom of guide. If you are fitting the optional grab handle on the outside of the door. To give handle clearance, the stop bars on the guides need to be positioned 75mm below the lintel. This means you will not achieve full opening height as a drive through clearance.

FIGURE 10



For automatic installations this measurement of 220mm from the top of the horizontal leg of the support bracket to the bottom edge of the stop bar is critical. It must never be less than 220mm. This measurement can be increased to 295mm if required to facilitate grab handle.

6: PRE-TENSION:- Before you pre-tension, if the door has a protective steel wrapping, cut the bands and remove this. But do not cut the bands which hold the door curtain in a roll.

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Pre-tension should now be applied to the springs by turning the roll approx 1 - 2 turns forward (see figure 7). The amount of pre-tension may vary with individual doors and applications. (See adjustments section).

7: UNROLLING DOOR:- Still holding the door in its tensioned position with bottom bar adjacent to the lintel.

Now carefully cut the wrapping holding the door in a roll. At this stage the door will have a strong tendency to rise, which if uncontrolled could cause serious damage or injury due to spring tension. Continue to hold door until both guides are securely fixed in place.

Take a piece of soft wood approximately 450mm long x 80mm x 30mm wood and place it between bottom rail and door roll (see figure 10).

Take care when placing timber so as not to damage curtain. This will help to prevent the door from rolling up any further.

8: FITTING GUIDES:-

- (a) Ensure that the curtain is centred on the opening, checking with the overlap marks. (see figure 8 and 9).
- (b) Slide guide onto the door curtain allowing approx 3-5mm clearance. Drill wall and fix top lug with the 10mm x 40mm sleeve anchor. (in case of wood frame coach bolts - not supplied). (see figure 13).
Using a spirit level to ensure that the guide is absolutely vertical, fit the rest of the fixings.
- (c) Now do the same with the opposite guide allowing 3-5mm clearance.

NOW FIT THE STOP BAR CATCHERS TO THE BOTTOM RAIL ON ALL DOORS. (Fig. 11)

Locate at pre-drilled hole, (carefully extract only one side of bar/weatherseal, approx 50mm along from the guide side, using nut and bolt supplied, secure the stop bar catcher to the upper side of bottom rail, tighten nut and replace weatherseal using a small fine screwdriver. The optional grab handle can now be fitted. Check 75mm clearance is available. Fit handle centrally on aluminium rail at the bottom of the door. Do not fit handle on to door curtain.

Note the bottom edge of the stop bars must not be closer than 203mm/8" to the horizontal part of the support brackets. If they are the door will be difficult to close. (See figure 11).

FIGURE 11

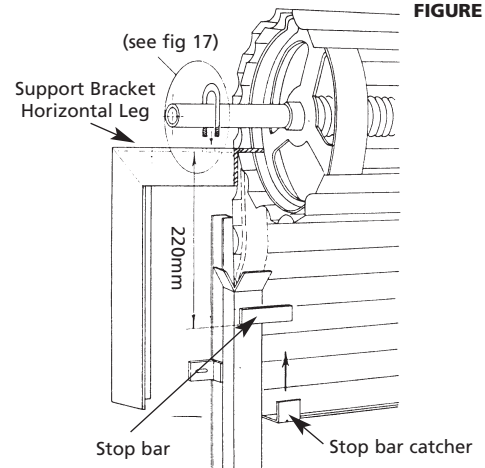


FIGURE 12 A

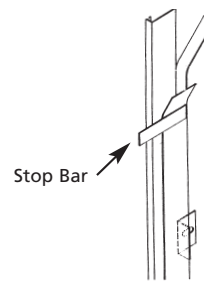


FIGURE 12 B

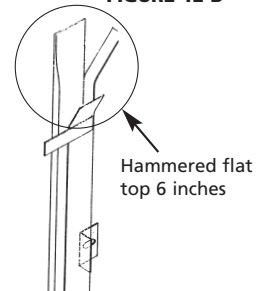
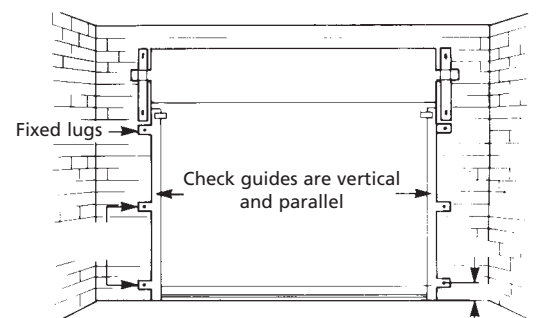


FIGURE 13



9: CHECK DOOR SETTINGS:-

GUIDES: Now that you have both guides firmly fixed, pull the curtain down slowly and remove the timber and packaging. Continue to pull the curtain down to the floor ensuring that it runs freely. If it does not, reposition guides for clearance 3-5mm as necessary.

CONING: (See section 3) Check that the door rolls up evenly and squarely with the ends of the roll. If door operation is satisfactory proceed with step 10 (if not go to section 3).

DOOR TENSION: (See section 3) The door is now installed and should not try to open or close on its own from the half open position.

The door should be over tensioned during this running in period. i.e. when put to the ground it should want to rise. 25mm - 40mm unless locked down.

10: CUT LOCK BAR HOLES:-

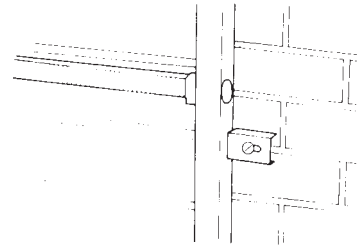
When you are satisfied with the door operation the lock bar holes must be cut into the guides. (see figure 14).

- Close the door fully and whilst pressing the weatherseal onto the floor, mark the position of each lock bar on the back of the guide.
- At this mark drill a series of holes and file out a guide slot, just large enough to accept each lock bar.

Note: To maintain the efficiency of the weather seal it will be necessary to ensure a very neat fit between the locking bar and the slot in the guide.

At this stage and as ongoing maintenance clean the inside of your guides with white spirits and polish with car or furniture polish. It is important not to oil or grease the guides as this will only hinder operation of the door.

FIGURE 14



WARNING: DO NOT RAISE DOOR WITH THE KEY IN LOCK

As the efficiency of the weather seal is dependant on the pressure of the seal on the floor, it may be necessary to relieve the pressure at the locking bars in the guide slots by placing a foot on the bottom rail or pushing down by hand on the door to eliminate any difficulty in turning the key when locking or unlocking the

Section 3: FINAL ADJUSTMENTS/TROUBLESHOOTING

1: DIFFICULT TO OPERATE IN EITHER DIRECTION:-

- Check that the curtain is not jamming in the guides.
- Check running clearance in the guides (3-5mm per side).

2: DIFFICULT TO CLOSE:-

Decrease the spring tension (See spring tension adjustments para 5).

3: GUIDE/AXLE RELATIONSHIP:-

If the door is very difficult to close the last 600mm, check that the guides are fitted in the correct relationship to the brackets and that the axle is the correct distance from the wall. (repeat step 8, section 2).

One or both will be incorrect, thereby increasing lead angle into the mouth of the guides, making the door difficult to close.

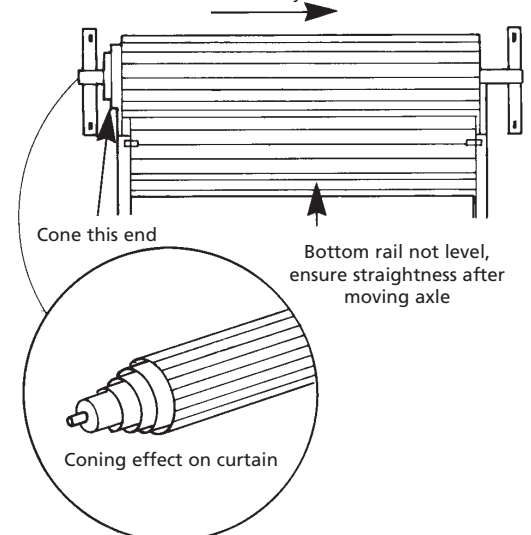
4: CONING:- See figure 15.

If the curtain rolls up unevenly (cones out at one end) and the bottom rail appears out of parallel with the door roll and guides, check the following:

- Brackets not level (see figure 5).
- Axle not correctly centralised in roll.

If the brackets are level, remove the coning by moving the axle through the roll in the opposite direction to the coning.

FIGURE 15 Move axle this way to centralise roll



THIS OPERATION SHOULD BE DONE BY MINIMUM OF TWO PEOPLE AND ENSURE THE DOOR IS FULLY ROLLED UP TO MINIMISE SPRING TENSION BEFORE STARTING

CONING ADJUSTMENTS:-

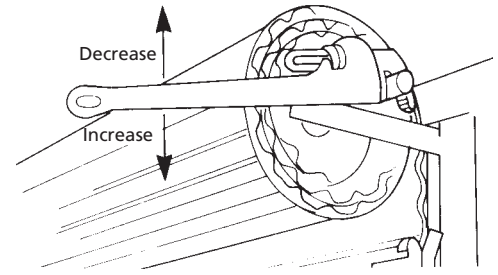
By following the steps in final spring tension adjustments, (see section 3, point 5) up to (e) where it states "to increase tension" do not rotate the axle unless spring tension is to be changed. While still retaining a firm hold on the axle to prevent axle rotation using the pipe wrench, the axle should be tapped in the direction of the coning (See figure 15). Move no more than 12mm at a time. Then follow the steps and secure axle. In extreme cases it may be necessary to fit 1 or 2 anti coning clamps.

5. FINAL SPRING TENSION ADJUSTMENTS:-

As a precaution, attach a pipe wrench at the opposite end to be worked at and ensure that they are held tightly by another person.

- (a) One 'U' bolt clamp should be selected to loosen first and the other side should remain fully tightened. One 'U' bolt clamp will retain the existing tension **so long as the door is fully open. (Rolled up)**. As a precaution attach a pipe wrench at the opposite end to be worked at and ensure it is held tightly by another person.

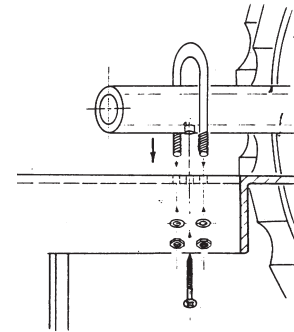
FIGURE 16



THIS OPERATION SHOULD NOT BE ATTEMPTED WITH THE DOOR UNROLLED AS THE TENSION IS VERY MUCH GREATER AND COULD LEAD TO DAMAGE OR SERIOUS INJURY.

- (b) Loosen the selected 'U' bolt clamp.
- (c) One person should then grip the axle on that side firmly with an 18" pipe wrench.
- (d) The other person should then move to the other end of the door roll and with an 18" pipe wrench, grip the axle firmly. Loosen the other 'U' bolt clamp until the axle is free.
- (e) To increase tension pull down on the pipe wrench and to decrease tension allow the pipe wrench to move up (see figure 16).
- (f) Fully tighten adjacent 'U' bolt clamp while holding tension with a pipe wrench. Do not release pipe wrench until 'U' bolts are tight. **(Ensure that it never slips as this would cause loss of tension and possibly injury or damage to door)**. If necessary repeat operation.

FIGURE 17 TECK SCREWS



6. TECK SCREWS/LOCK AXLE:-

To ensure that the axle will never slip or rotate, thereby causing loss of tension in the springs. Drill the teck screws up through the horizontal leg of the support bracket into the axle, locking the axle permanently. Do this on each bracket. (see figure 17).

Section 4: MAINTENANCE

The following suggestions will keep the door working efficiently.

- 1: Do not grease or oil the guides.
- 2: Periodically clean the inside of the guides with white methylated spirits or similar and spray with silicone spray or car/furniture polish.
- 3: It may be necessary to lightly oil the locking mechanism via the key hole occasionally if operation becomes difficult.
- 4: Periodically wash the finished surface of the door with car shampoo and water remembering the area which is always exposed on the roll inside the garage when the door is closed.



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Section 5:

IF YOU ARE FITTING AN ELECTRICALLY OPERATED ROLLER DOOR REMEMBER!

- 1: Door must be working properly manually. Ensure sufficient clearance between door and bracket to facilitate fitting of motor.
- 2: Turn off power before making any manual adjustments.
- 3: Make sure anti coning collar is adjusted and secure on drum shaft to eliminate sideways movement on the opposite side to which motor is to be fitted.
- 4: When setting up door manually, keep red manual release cord pulled down so motor is disconnected.
- 5: Never reconnect manual release with motor running.
- 6: The up cam should be set to stop the Roller door, just below the guide stop, to avoid jarring the drive gears.
- 7: Weigh bar must be attached to bottom bar with rivets/bolts.

SECURITY NOTE

Fully close the door, mark the corrugation just before the curtain leaves the top Roll.

Drill through the Curtain and Drum wheel rim and fix with a self tapping screw.

This must be done to stop people attempting to prise the bottom of the Door up.



Care must be taken when drilling to avoid wiring



TM

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