



- **ROLLER SHUTTERS**
- **STEEL DOORS**

- **ROLL FORMED SECTIONS**
- **MOTORS & COMPONENTS**

OPERATION AND MAINTENANCE FOR ELECTRICALLY OPERATED ROLLER SHUTTER DOOR

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In compliance with European Union Machinery Directive BS EN 13241-1:2003

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Safety Notices

- This Paramount 26 door has been designed to be compliant to the latest European CE Standards. On completion of install check to confirm the CE mark has been affixed/completed.
- Adding or removing parts may have an adverse effect on the operation and or safety of your new door.
- All users must read and understand safe use instructions prior to operating door.
- Repairs to the door and control systems should be carried out by qualified service personnel.
- Fixed covers protect moving components, never remove covers or operate the door with damaged covers.
- In the event of the door jamming contact a qualified service agent immediately as there is a possibility that the door may fall and cause injury.
- Always isolate power to the door prior to carrying out any work.
- Trained personnel only to carry out adjustments to the door.
- Daily check that the safety edge and safety beams are operating correctly (If fitted). Ensure that safety beam reflector lens is clean and in good condition. Check for any damage to curtain, covers and bottom rail. Check that the door operates smoothly. Report any damage immediately.
- This Paramount 26 industrial Roller Shutter should only be operated by suitable persons. Never let children operate and play with it.
- Essentially, no people, animals or other objects should be near the opening while the Roller Shutter is in operation.
- When operating the Roller Shutter, it should always be in sight. (unless the door is equipped with suitable monitored safety devices).
- Never lean against the door curtain and/or guide track, take care that fingers do not get caught in moving door curtain and/or other moving parts.
- Never climb up using the door leaf.

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- Never use the Paramount 26 Roller Shutter as a hoist.
- Never interfere with a moving Paramount 26 Roller Shutter or moving parts.
- If the electric drive no longer functions, the Paramount 26 Roller Shutter should always be operating manually. (if the motor is equipped with this facility).
- Ensure that your Paramount 26 Roller Shutter is fully functioning, and have the safety features checked regularly (when first installed and at your own discretion, but at least once a year) by a qualified firm, and ask for written confirmation / record.
- At least once a month, visually inspect your Paramount 26 Roller Shutter for damage.



Symbol for CUTTING, SNAGGING, CRUSHING, PINCHING. DANGER from moving parts



Symbol for General DANGER
Symbol for ATTENTION

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	Description	Danger / Hazard
1	Maintenance	Ensure shutter is serviced in accordance with manufactures recommendation (at least once a year) Document in writing, this will increase dependant on environment and use of door
2	Electric Drive	Refer to manufactures instructions for correct and safe operation of electric drive and other components.
3	Guide Track	Danger of pinching, catching, drawing in etc. Never lean in or touch guides when door is in operation.
4	Control panel	Always ensure the person operating the control panel has an unobstructed View of the moving door and surrounds, if unable to provide this then relevant safety devices must be used.
5	Rubber bottom seal	Never operate the door while persons are standing under the moving door leaf.
6	Manual override	Never operate the manual operation device while the shutter is moving, use of the manual operation should only be carried out by competent persons
7	Door Curtain (lath)	Large and heavy part of a door, potential to do harm so care must be used always when in operation.
8	Top of door	Potential of entrapment between curtain and barrel if door is perforated or letterbox punched, use of safety devices both sides of curtain at the head to be wired to the stop circuit to prevent entrapment.

Please Note: Alterations to the Paramount 26 Roller Shutter or alterations to the drive that are not in compliance with this manual **will invalidate the warranty** and thus release the manufacturers from any liability. This also includes damage resulting from incorrect operation, failure to follow the instructions in this manual and/or poor maintenance and/or care of the Paramount 26 Roller Shutter.

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Operating instructions

1. Manual operation

Tensioning or adjustment of the barrel should only be carried out by competent and qualified fitters. On completion of the install the shutter should move in a controlled manner without sudden tendency to either fall or rise in an uncontrolled manner.

Shutters designed without a safety brake **should not** be used to cover a door way and are only designed for use over a window or special applications such as conveyor systems where the likely hood of a single component failure is unlikely to cause injury to the user. If there is doubt even in these applications, then the use of a safety brake or other device to prevent sudden closure of the door in the event of single component failure should be installed in accordance with the current regulations in place.

Use of the manual hand chain operation system is to be carried out in a controlled manner, Sudden snatching of the hand chain can result in damage to the chain and drive components, uncontrolled motion of the shutter with the hand chain being left uncontrolled while in moving can result in injury to the operator when the chain snakes.

Any damage to the door from the above misuse or injury to the operator will invalidate the warranty and Paramount 26 will not accept any liability for costs or injury caused.

2. Operation via electric motor (Direct Drive)

The direct drive motor design is recommended as being the safest option especially for doors that have high or higher than normal usage.

This motor design includes an internal safety brake within the motor drive which prevents the door from falling in an uncontrolled manner.

Use of the manual operation is **prohibited while the motor is in use** and will cause serious damage to the operator.

Operation and wiring of this motor will necessitate reference to the operator manuals for the motor and control panel which can be provided separately.

3. Operation via electric motor (Chain drive)

The Chain driven motor utilized on the Paramount 26 shutter must always be used in conjunction with an inertia brake device which should always be wired into the stop or safety circuit of the controls to prevent any damage in the event the brake engages.

Frequent inspection of the drive chain should be undertaken with the chain being cleaned and lubricated at regular intervals (not less than once per year) but increasing

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in frequency dependant on the use and conditions operation, dusty and damp conditions can lead to premature failure.

Use of the manual operation is **Prohibited while the motor is in use** and will cause serious damage to the operator.

Operation and wiring of this motor will necessitate reference to the operator manuals for the motor and control panel which can be provided separately.

4. Operation via electric motor (Tube motor)



The Tube motor utilized on the Paramount 26 shutter must always be used in conjunction with an inertia brake device which should always be wired into the stop or safety circuit of the controls to prevent any damage in the event the brake engages.

Use of the manual operation is **Prohibited while the motor is in use** and will cause serious damage to the operator.

Manual operation of this motor can vary and advice should be sought for instruction of the specific type used on your door.

Heavy usage (more than 4 x per hour) will significantly reduce the life of this motor and invalidate the warranty, this motor type is designed for low usage doors with space restrictions due to its very small size.

Various control options exist for this motor type and installation and commission of these should be in conjunction with the relevant instructions.

Operating Method	To open/operate the shutter	To close/stop the shutter
Push button control The push button control station will be fitted in a safe position where the operator can see the shutter throughout its travel.	Push the button marked  and the shutter will be raised until it is fully opened where it will stop automatically by means of an open limit switch.	Push the button marked  and maintain pressure on the button until the shutter is fully closed where it will stop automatically by means of a close limit switch. The control is constant pressure, 'dead man' or 'hold to run' type and if released whilst the shutter is in downward motion will stop the shutter. Maintain pressure on the button to continue operation.
Rocker Switch control The rocker switch will be fitted in a safe position where the	Push on the rocker switch to open or close as marked and maintain pressure on the button until the shutter is fully closed where it will stop automatically	Push on the rocker switch to open or close as marked and maintain pressure on the button until the shutter is fully closed where it will stop automatically

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operator can see the shutter throughout its travel.	by means of an end limit switch. The control is constant pressure, 'dead man' or 'hold to run' type and if released whilst the shutter is in motion will stop the shutter. Maintain pressure on the button to continue operation.	by means of an end limit switch. The control is constant pressure, 'dead man' or 'hold to run' type and if released whilst the shutter is in motion will stop the shutter. Maintain pressure on the button to continue operation.
Key Switch control The key switch control station will be fitted in a safe position where the operator can see the shutter throughout its travel.	Insert the key and turn in the direction marked 'open' maintain pressure on the key until the shutter is fully open where it will stop automatically by means of an open limit switch. The control is constant pressure, 'dead man' or 'hold to run' type and if released whilst the shutter is in motion will stop the shutter. Maintain pressure on the button to continue operation.	Insert the key and turn in the direction marked 'closed'. Control is the same as the open operation.
Remote Control Remote control will be via a hand held or key fob transmitter. Use only in line of sight of the shutter and watch the shutter to the closed/open position. *depending on the type of remote control **To change handset batteries follow the instructions separately supplied with the handsets.	Direct the transmitter toward the shutter, press the relevant* button to open or close the shutter. Pressing the relevant* button again will reverse the direction of travel. The shutter will travel to the fully open or closed position and will stop automatically.	Direct the transmitter toward the shutter, press the relevant* button and the shutter will stop moving. The relevant* button initiates further movement.
Optional Operating/Safety/Control		
Safety beam/photocell	If a safety edge and/or photoelectric safety beam is provided to stop the shutter when an obstacle is encountered, the control is wired like the open operation i.e. when the button is pressed and released the shutter will run to the fully closed position.	
Radar Detector	Radar detectors can be provided to detect vehicle or personnel movement near the shutter, they are useful where high traffic flow is expected and it is desirable for the shutter to remain closed as much as possible. <u>To open the shutter</u> Approach the door slowly, the door will rise to the open position. Wait for the door to open fully. Ensure the area is clear of other users and proceed through the door carefully. Always ensure you have activated the control before proceeding through the doorway.	

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	The door will usually be fitted with an optional automatic timed return facility and will close automatically.
Photocell	<p>A photocell beam can be provided across the width of the opening, if the beam is broken by vehicles or personnel the door will open automatically.</p> <p><u>To open the shutter</u> Approach the door slowly, the door will automatically rise to the open position. Stop and wait for the door to open fully. Ensure the area is clear of other users and proceed through the door carefully. Always ensure you have activated the control before proceeding through the doorway. The door will usually be fitted with an optional automatic timed return facility and will close automatically.</p>
Induction Loop	<p>Induction loops are embedded under the surface of the floor and can detect metal vehicles.</p> <p><u>To open the shutter</u> Approach the door with vehicle slowly; the door will automatically rise to the open position. Stop and wait for the door to open fully. Ensure the area is clear of other users and proceed through the door carefully. Always ensure you have Activated the control before proceeding through the doorway. The door will usually be fitted with an optional automatic timed return facility and will close automatically.</p>
Auto Timed Return Facility	<p>Once the door has reached the fully open position it will remain there for a pre-determined adjustable period before automatically descending to the closed position. The door will also be equipped with a safety photocell mounted 900mm from floor level that directs a beam across the opening and a safety edge mounted to the underside of the leading edge of the curtain.</p> <p>Should the beam be broken or the safety edge encounter an obstruction while the door is closing, the door will stop and return to the open position. The door will automatically attempt to close again. The sequence will be repeated until the obstruction is cleared.</p>

- × Do not approach the door at speed, there may be an obstruction on the other side of the door or it may not move as expected resulting in damage or injury.
- × Do not attempt to use the door when it is already open.
- × Do not attempt to pass through the door until it is fully open
- × Never proceed through a closing door
- × Do not linger near the doorway
- × Do not leave obstructions around the doorway

Cleaning and Care

1. Galvanized lath

Laths manufactured from galvanized steel section are designed for external applications and require little or no maintenance under normal operating conditions. Any general build-up of dust or grime should be removed with a damp cloth using a proprietary soap and water mixture.

2. Plastisol lath

Laths manufactured from HP 200 Plastisol coated steel sections require little maintenance under normal conditions. Any general build-up of dust or grime should be treated as above.

3. Guide Channels

The Bottom of the guide channels should be kept clear of debris build up daily. Build up may cause the door to jam and not close properly. Simple brushing or scraping away of debris will suffice.

4. Winding Gear, Motor Units & Barrel Assemblies

Winding gear, motor units (electric doors) & barrel assemblies are generally under cover at high level and do not require regular cleaning between planned maintenance visits. However, if there is a heavy build-up of dirt then consideration of increasing maintenance visit frequency must be taken.

5. Powder Coated Surface

To retain the aesthetic qualities and the expected long-term durability of the powder coating system, it is important that the coating is cleaned regularly. The frequency of cleaning depends upon the environment in which the powder coating is in service. For areas of 'normal' urban environment we recommend a maximum period of 12 months between cleaning operations, unless any undue soiling is apparent on the coating, in which case cleaning should be more frequent. In areas of high pollution, coastal, marine and swimming pool environments cleaning should be carried out every 3 months.

It should be noted that one of the conditions of the Powder Coating Guarantee is that the coating is cleaned at the specified frequency and that the building occupier retains proof of cleaning. These cleaning records would be needed should a claim arise against the guarantee. Cleaning of the powder coating is an important part of the routine maintenance of any building. It is for this reason that we advise that only companies who specialise in this type of work are used for large commercial cleaning operations.

Emergency Manual Override

In the event of power failure, it is possible to manually lift the door to the open position as follows;

Safety first - when using a high-level system always gain access in a safe manner.

Always isolate the power supply before using the manual override.

Single phase tubular motor driven shutters

- Locate eye assembly projecting below motor assembly.
- Use removable crank handle supplied with the shutter, fit this to the eye assembly and wind in the appropriate direction to operate the shutter.
- On larger shutters (above 20M2 approx.) it may be necessary to pull the hand crank down till a click is heard prior to winding up and down. Once complete, push the hand crank till a click is heard enabling power operation once the supply is re-established.
- Always watch the door to ensure it moves in the direction intended. **Winding the door too far up or down will damage the motor.**

Industrial motor/gearbox driven shutters

Low level hauling chain

- Locate the red and green brake release handles and the manual haul chain suspended from the motor at one side of the door.
- Pull on the Red brake release handle to disengage motor brake.
- Operate the manual haul chain to move the door in the direction intended.
- Pull on the green handle to re-engage motor brake and enable operation once power is re-established.
- Always watch the door to ensure it moves in the direction intended. Hauling the door too far up or down will damage the motor.

High Level Hauling Chains

- Locate the hauling chains suspended from the motor at one side of the door.
- At high level lift the hauling chain off the motor interlock switch and onto the chain wheel.
- Operate the manual haul chain to move the door in the direction intended
- Lift the haul chain off the chain wheel and back onto the interlock switch to enable operation once power is re-established.
- Always watch the door to ensure it moves in the direction intended. Hauling the door too far up or down will damage the motor.

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High Level Hand Crank

- Use removable crank handle supplied with the shutter, fit this to the socket at the back of the motor and wind in the intended direction to operate the shutter.
- On completion remove the crank from the motor
- Always watch the door to ensure it moves in the direction intended. Hauling the door too far up or down will damage the motor.

Please Note: The manual override system is designed for use during a power failure. Its purpose is to either open a door to gain access or close a door to give security. It is not intended for day to day use to operate the door prior to site wiring. **Repeated use will damage the assembly and void the warranty.**

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Check	Daily Visual	Weekly Visual	Service Visit
Check door operation/condition	✓	✓	✓
Check safety edge (option)	✓	✓	✓
Check safety photocell (option)	✓	✓	✓
Check emergency stop (option)	✓	✓	✓
Check input devices	✓	✓	✓
Check audio / visual warning (option)	✓	✓	✓
Check manual override		✓	✓
Check structure mounting bolts			✓
Check motor mounting bolts			✓
Check endplate mounting angle bolts			✓
Check roller shaft bearing bolts			✓
Check covers & cover fixings			✓
Check guide fixings & condition			✓
Check condition of controls			✓
Check motor brake (where fitted)			✓
Check drive chain tension & condition where applicable			✓
Check gearbox oil levels where applicable			✓
Check condition of safety brake (where fitted)			✓

Maintenance and Service

Door Cycles per Day	Recommended Maintenance
Up to 15	6 Months
Up to 30	4 Months
Up to 45	3 Months
Over 45	2 Months

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Maintenance log

The following log should be used to record routine inspections, repairs and service visits.

Date	Visit Type	Signed	Detail

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CE labelling and compliance with standards

This Paramount 26 door has been provided with a CE label as required by the relevant standard, this should be affixed to the door on completion and should not be removed. This standard is a European requirement and supporting documentation is available on request.



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BS EN 13241-1:2003

MANUALLY OPERATED ROLLER SHUTTER DOOR

SERIAL No.

WATER TIGHTNESS

N.P.D.

RESISTANCE TO WIND LOAD

CLASS +5/-5

THERMAL RESISTANCE

N.P.D.

AIR PERMEABILITY

N.P.D.



(89/106/EC)

Essential Characteristics	Declared performance
Air permeability	NPD
Dangerous Substances	Pass
Definition of geometry of glass components	NPD
Durability of watertightness, thermal resistance and air permeability against degradation	NPD
Mechanical resistance and stability	Pass
Operating forces for power operated doors	Pass
Resistance to wind load	Class +5;-5
Safe opening for vertically moving doors	Pass
Thermal resistance	N/A
Watertightness	N/A