

OPERATION & MAINTENANCE MANUAL



MANUAL RISING AM BARRIERS



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Introduction

Speedy Street Solutions manual rising arm barriers are manufactured using designs that have been developed and refined through many years of practical use and installation. These proven designs ensure reliable access control solutions suitable for a wide range of commercial, industrial, and public environments.

Our barriers are manufactured using **mild steel and aluminium**, with carefully selected sections and material grades to ensure they are **robust, durable, and fit for purpose**, providing reliable operation over many years of service.

To help maximise the lifespan of the product and minimise the need for costly repairs or refurbishment, this guide has been produced to provide **maintenance recommendations and important handling guidance**. Following these guidelines will help ensure the barrier continues to operate safely and efficiently throughout its service life.

Speedy Street Solutions is committed to delivering **high-quality products while considering environmental responsibility and user safety throughout the manufacturing and operational lifecycle**.

During the design, manufacture, and finishing of these barriers, the following recognised standards have been considered:

- **BS EN 13438:2013** – Paints and varnishes: Powder organic coatings for galvanised steel products
- **BS EN ISO 13920** – Welding tolerances for shapes, dimensions, and lengths in welded constructions

By adhering to recognised manufacturing standards and recommended maintenance procedures, Speedy Street Solutions manual rising arm barriers are designed to deliver **long-term performance, durability, and dependable access control** in a wide range of environments.



Health & Safety Information

Certain health and safety considerations should always be observed during the **operation, inspection, and maintenance** of Speedy Street Solutions manual rising arm barriers.

When undertaking **routine maintenance**, it is essential that all relevant health and safety guidance relating to the tools, materials, and maintenance products being used is followed. It is the responsibility of the customer, site operator, or maintenance contractor to ensure that:

- The barrier is used **correctly and only for its intended purpose**
- Personnel involved in operation or maintenance are **properly trained**
- Appropriate **care and safety procedures** are followed at all times

Speedy Street Solutions cannot accept responsibility for **damage to property or injury to individuals** resulting from the incorrect use, misuse, or unsafe handling of the product.

If any **structural concerns, operational faults, product failures, or maintenance issues** arise, it is strongly recommended that **Speedy Street Solutions is contacted in the first instance** for technical advice and guidance before any repair work is undertaken. This helps ensure that the barrier continues to operate safely and as intended.



Materials & Processes

Speedy Street Solutions manual rising arm barriers are designed to meet a variety of **site requirements and operational environments**. Depending on the specific barrier model and configuration, a range of materials and manufacturing processes may be used during production.

Materials

The following materials may be used in the manufacture of manual rising arm barriers:

- **Mild steel** – Grade S235
- **Aluminium tube** used for the boom arm
- **Reflective tape applied to aluminium booms** for improved visibility
- **High-strength fixings** – typically Grade 8.8 or 10.9 steel, or stainless steel where appropriate
- **Ground anchors** – either sleeve anchor or resin anchor types depending on installation requirements
- **Rubber seals** used within certain components
- **Proprietary locking mechanisms** where specified (these may be supplied or installed separately depending on project requirements)

Material selection is intended to ensure the barrier provides **strength, durability, and reliable performance** in outdoor environments.

Processes Used

A variety of manufacturing and finishing processes may be used during production, including:

- **Bending, forming, fabrication, and welding** of structural components
- **Polyester powder coating** to provide a durable and weather-resistant finish
- **Application of reflective tape** to aluminium boom arms for increased visibility and safety
- **Electroplating of fasteners and fixings** to improve corrosion resistance

These processes help ensure that Speedy Street Solutions manual rising arm barriers provide **long service life, structural integrity, and dependable operation** in commercial and public access control applications.



Cleaning, Maintenance & Repair

Inspection & Maintenance

To maximise the service life of **Speedy Street Solutions manual rising arm barriers**, the units should be **visually inspected on a regular basis**. Inspections should check for signs of:

- Damage or impact
- Vandalism
- Deterioration or breakdown of surface finishes
- Build-up of dirt, salt, or atmospheric residue

If any issues are identified during inspection, the appropriate maintenance or repair procedures for the relevant materials should be followed.

In cases where **serious damage occurs to a main structural component**, Speedy Street Solutions should be contacted immediately for technical advice before any repairs are attempted.

Recommended Inspection & Maintenance Plan

Frequency	Type	Performed By	Details
Daily	Pre-use safety check	Barrier operator	Ensure the locking mechanism is functioning correctly and the barrier can be safely operated. Conduct a visual check for any obvious signs of damage or obstruction.
Every 3 Months	Cleaning	Maintenance personnel	Carry out a general clean of the barrier using warm water and mild detergent . Painted surfaces should be cleaned using a soft cloth or sponge , followed by rinsing with clean water.
Every 3 Months	Visual inspection	Maintenance personnel	Inspect the barrier to identify: <ul style="list-style-type: none"> • Signs of damage or wear • Breakdown of the surface finish • Reduction in operational performance • Any components requiring lubrication

Moving parts should be **lubricated as required** to ensure smooth operation and to prevent premature wear.

Maintenance Records

Comprehensive records should be maintained detailing all **inspections, maintenance, and cleaning activities** carried out on the barrier. Where possible, records should also include **photographic evidence** of inspections or repairs.

If **physical or impact damage** occurs that could affect the **structural integrity or safe operation** of the barrier, Speedy Street Solutions must be notified immediately so that appropriate advice and remedial actions can be provided.

Detailed **daily and three-monthly inspection log templates** are provided within the appendices for maintenance record keeping.



Powder Coating

Powder coating is a finishing process in which **polyester powder is applied to the metal substrate using an electrostatic spray gun**. The coated component is then **oven cured**, forming a durable, protective outer layer that provides both corrosion resistance and an attractive finish.

Powder coated finishes are designed to provide **long-term durability**, but their lifespan will depend on factors such as **site location, environmental conditions, exposure to pollutants, and the frequency of cleaning and maintenance**.

Cleaning Methods: The recommended cleaning frequency should follow the inspection and cleaning schedules outlined earlier in this guide.

Powder coated surfaces should be cleaned using one of the following methods:

1. **Warm, mild soapy water** applied using a soft cloth, sponge, or natural bristle brush, followed by rinsing with clean water.
2. A **proprietary car wash and wax system**, followed by rinsing with clean water.

During the cleaning process, **abrasive cleaners, solvents, or harsh chemicals must not be used**, as they may damage the powder coated finish.

To help maintain the appearance of the coating, an **annual application of automotive wax** may be used if desired. This is optional but can help enhance the finish.

Graffiti Removal: If graffiti is present on a powder coated surface, **solvent-based cleaners should not be used**. Instead, removal should be attempted using:

- A **car body polishing compound (such as a T-cut type product)**, or
- A **specialist graffiti removal cleaner**

Any cleaning product should first be **tested on a small, inconspicuous area** to confirm that it does not damage the coating.

Minor Repairs

For **small scratches or chips**, the following repair procedure is recommended:

- Where the **base metal is exposed**, carefully apply a **zinc-rich primer** to the affected area.
- Once the primer has cured, apply a **matching acrylic-based topcoat or touch-up paint** recommended or supplied by Speedy Street Solutions.

If the **substrate surface is exposed but the base metal is not**, the same repair method should be followed **without applying the zinc-rich primer**.

Major Damage

Where there are **larger areas of coating damage, vandalism, or coating breakdown**, customers should contact **Speedy Street Solutions** for technical advice and guidance on appropriate repair or refurbishment solutions.



Wet Painting

Wet painting is a finishing process where **liquid paint is applied directly to the base substrate**, which then cures to form a **durable and protective outer coating**. This coating provides both an attractive appearance and protection against environmental conditions.

Wet painted finishes can provide many years of service, although their lifespan will depend on factors such as **installation location, exposure to environmental conditions, and the frequency of cleaning and maintenance**. The recommended cleaning frequency is outlined earlier in this guide.

Cleaning Methods

Wet painted surfaces should be cleaned using one of the following methods:

1. **Warm, mild soapy water** applied with a soft cloth, sponge, or natural bristle brush, followed by rinsing with clean water.
2. A **proprietary car wash and wax system**, followed by rinsing with clean water.
3. A **low-pressure water wash**, such as a standard hosepipe.

During cleaning, **abrasive cleaners, solvents, or harsh chemicals must not be used**, as these can damage the painted surface.

Minor Repairs

For **small scratches or chips** where the base material is exposed, the following repair method should be used:

- Apply a **suitable primer** to the affected area.
- Once the primer has cured, apply a **matching acrylic-based topcoat or touch-up paint** recommended or supplied by Speedy Street Solutions.

If required, the damaged area may be **filled to restore the original surface level**. A proprietary automotive-style filler can be used for this purpose and can be sanded smooth before repainting.

Larger Repairs

Where there are **larger areas of paint damage or vandalism**, the affected area should be:

1. **Lightly sanded** to remove loose material and feather the edges of the surrounding coating.
2. **Filled if necessary** to restore the original surface profile.
3. **Primed and repainted** with a suitable primer and matching topcoat, applied either by brush or spray.

For further details relating to the **original paint system specification**, customers should contact **Speedy Street Solutions** for technical guidance.



Appendix A

Daily Inspection Log Template

The following template can be used to record **daily safety checks** for manual rising arm barriers. Regular inspections help ensure the barrier continues to operate safely and efficiently.

Date	Task	OK NOK Comments Signature
	Visually inspect locking barrel or locking pin for any obvious signs of damage or wear	
	Visually inspect the barrier for any obvious damage (e.g. impact from vehicles)	
	Check that the barrier can be fully opened and closed and moves freely during operation	

Important:

Any **physical damage** that may affect the **safe operation or structural integrity** of the barrier must be reported to **Speedy Street Solutions immediately** so that appropriate advice can be provided and any necessary remedial work can be arranged.

Appendix B

3-Monthly Inspection & Maintenance Log Template

The following template can be used to record **three-monthly inspections and maintenance activities** for manual rising arm barriers. These checks help ensure the barrier continues to operate safely and remains in good working condition.

Date	Task	OK NOK Comments Signature
	General clean down of barrier and all associated components	
	Thorough inspection of all barrier components for signs of physical damage, impact damage, or wear	
	Visual inspection of all paintwork or surface finishes for signs of damage or deterioration	
	Check barrier operation: <ul style="list-style-type: none"> • Barrier can be fully opened • Barrier can be fully closed • Barrier can be locked in the open position • Barrier can be locked in the closed position • No visible wear to the locking mechanism • Barrier moves freely during operation 	

Details of maintenance carried out: (e.g. paint repairs, lubrication of moving parts, replacement of worn components)

Where possible, photographic evidence of any damage or repair work should be attached to the inspection record.

Important:

Any **physical or impact damage** that may affect the **safe operation or structural integrity** of the barrier must be reported to **Speedy Street Solutions immediately** so that appropriate technical advice can be provided and any necessary remedial work can be arranged.



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Our extensive street furniture range includes: **Bollards-barriers-Anti Ram-Removable- Telescopic- Shelters- Cycle Stands-Seating- Benches- Planters-Bins- Speed Bumps** and lots more.