

Navigator

Ranger Manual

Original Instructions

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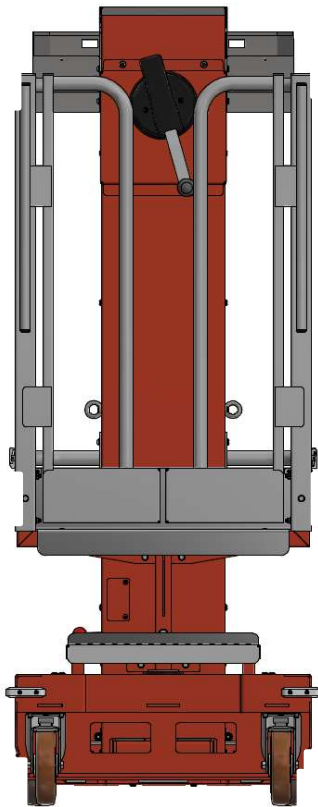
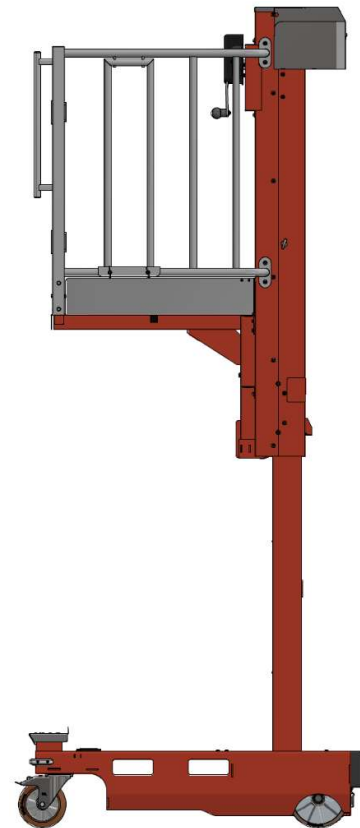


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1. Introduction

Pioneering Low-Level Access Technology

Step in with ease, engage the handle, and elevate smoothly to your working height—tools and materials ready at your side. Unlike conventional lifts, the Ranger operates without batteries or external power sources, eliminating the need for charging and delivering zero carbon emissions. Its self-powered mast lift system ensures uninterrupted operation—simply rotate the handle for a controlled, low-effort ascent or descent.

Safety is engineered into every detail. The Ranger features patented anti-climb vertical guardrails and offers emergency gates to cage sides to assist in emergency recovery.

Designed with a focus on efficiency, sustainability, and safety, the Ranger sets a new standard in low-level access solutions.

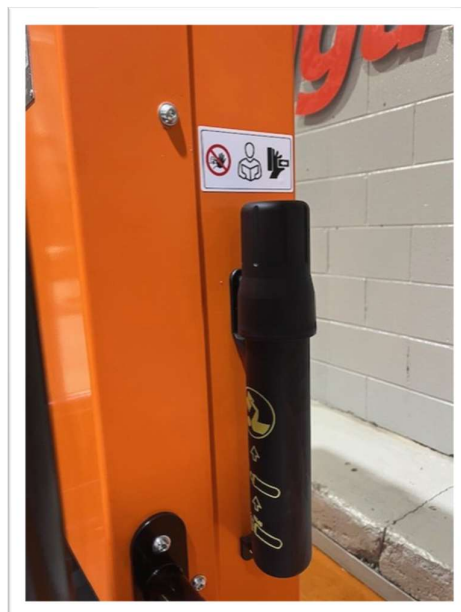
1.1. About this Manual

This manual is intended to provide the operator with the essential information required to operate and maintain the Ranger.

This is not a workshop manual. Please contact the manufacturer or their agent for specific operation or maintenance information if in doubt.

The health and safety of the operator or maintenance technician is the responsibility of the individual and/or their employer and not Navigator Lifts Ltd.

The illustration below indicates the location of the canister on the Ranger:



1.2. Technical Publications

Navigator Lifts Ltd. has made every effort to ensure the highest level of accuracy in this manual.

However, as part of our commitment to continuous product improvement, specifications and features are subject to change without prior notice. We welcome feedback and encourage users to report any errors or suggest improvements. All submissions will be carefully reviewed and considered for inclusion in future editions of this and other manuals.

1.3. Contact Us

Website: <https://navigatorlifts.com>

Sales: sales@navigatorlifts.com

Phone: +44 333 200 8691

Address: Navigator Lifts Ltd., Omni House, Sheene Road, Leicester, England, LE4 1BF

Or scan the QR code below:



1.4. Disclaimer on Specifications and Illustrations

Some illustrations may depict optional equipment or accessories and may not represent all standard features.

2. Safety Precautions



IMPORTANT: Read before operating.

Before operating this machine, it is essential that you read and fully understand all operational and safety instructions provided in this manual.

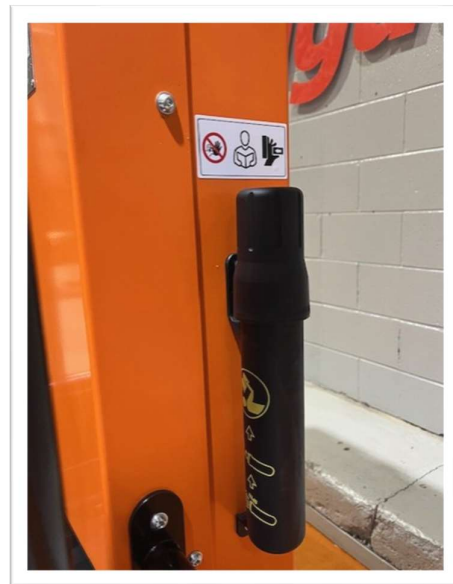
Operation of the Ranger is strictly limited to individuals who have:

- Completed familiarisation training,
- Successfully passed the required examination found at the address/QR code below:
(<https://navigatorlifts.com/online-training-exam/>)



- Received a valid operator certificate (download available upon completion),
- Confirmed they have read and understood this handbook.

Please Note: The manufacturer accepts no responsibility for the use or misuse of this equipment. Safe operation is the sole responsibility of the operator, and all personnel involved.



WARNING: The emergency lowering handle/system must only be used if an individual is incapacitated within the platform.
Unauthorized use may result in equipment damage or compromise safety procedures.

2.1. Trip and Fall Protection

2.1.1. Fall Protection Notice

The Ranger is equipped with an integrated guardrail system surrounding the platform, serving as the primary means of fall protection in accordance with EN 280 standards.

- Do not operate the Ranger if any part of the guardrail system is missing or removed. Operation under such conditions is strictly prohibited and poses a serious safety risk.
- Anchor points are provided solely for work positioning restraints. They are not intended for fall arrest systems.
- It is the responsibility of the operator or site owner to ensure that any lanyard used is of appropriate length to prevent the operator from reaching beyond the confines of the guardrail system.

Failure to comply with these guidelines may result in serious injury or equipment misuse.



WARNING: Do not use fall arrest systems attached to the Ranger's anchor points.

Doing so may cause the machine to become unstable or tip over, resulting in serious injury or death.

To ensure safe entry, exit, and operation of the Ranger platform:

- Always maintain three points of contact when climbing in or out of the platform.
- Enter and exit only through the designated gates, using extreme caution.
- Face the machine when entering or exiting the platform.
- Keep both feet firmly planted on the platform at all times during operation.
- Never use non-approved items (e.g., ladders, boxes) to gain additional height. This is unsafe and strictly prohibited.

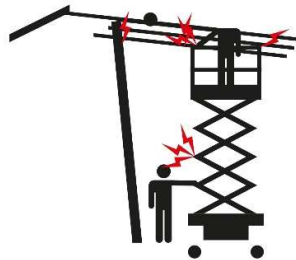
2.2. Electrocution Hazards

2.2.1. Electrical Hazard Warning

The Ranger is not electrically insulated and does not provide protection against contact with or proximity to electrical currents. Follow the sites electrical safety procedures. Consult a qualified electrician or safety officer for proper grounding methods.

- Operators must always maintain a safe distance from overhead power lines, electrical equipment, and any live components—whether exposed or insulated.
- This is a legal requirement and must comply with the Minimum Approach Distance (M.A.D.) guidelines provided in Table 1.
- Always allow additional clearance for potential machine movement and the natural sway of power lines.

Failure to observe these precautions may result in serious injury or fatality.



2.2.2. Safe Distance from Electrical Hazards

To prevent electrical accidents, always maintain a minimum clearance of 3 metres (10 feet) between any part of the machine—including the operator, tools, or equipment—and any electrical line or apparatus carrying up to 50 kV.

- For every additional 30 kV, increase the clearance by 0.3 metres (1 foot).

2.2.3. Use of Insulated Barriers

In certain situations, the Minimum Approach Distance (M.A.D.) may be reduced only if properly rated insulated barriers are installed. These barriers must:

- Prevent any contact with live electrical components
- Be rated for the specific voltage of the electrical line
- Be positioned to ensure the working distance remains within the protective range

Important:

The decision to reduce the M.A.D. must be made by a qualified person, in accordance with employer policies and local authority regulations.

Insulated barriers are not supplied with or attached to the Ranger.

Table 1 – Minimum Approach Distance (M.A.D.) guidelines.

Voltage	Distance (ft)
0 to 50,000	10
50,001 to 75,000	11
75,001 to 125,000	13
125,001 to 175,000	15
175,001 to 250,000	17
250,001 to 370,000	21
370,001 to 550,000	27
550,001 to 1,000,000	42

Warnings:

- Do not rely on the MEWP for electrical isolation.
- Do not use the MEWP in high-voltage environments unless it is specifically rated and approved for such use.
- Improper grounding can result in serious injury or equipment damage.

2.3. Tipping Hazard

2.3.1. Ground Surface Requirements

Before positioning the Ranger, always verify that the ground surface is firm, level, and capable of supporting the full weight of the machine, including any load being carried.

Operating on unstable, soft, or uneven surfaces may result in machine instability, posing a risk of tipping or operational failure.

WARNING: Do not elevate the platform on soft or unstable surfaces, or on any surface that has not been specifically designed to support the required floor load pressure of the Ranger. Failure to comply may result in machine instability, tipping, or structural damage.

DANGER: The Ranger is designed for indoor use only. Operating outdoors can lead to loss of stability, resulting in serious injury or death.

2.3.2. Platform Positioning and Safe Operation

To ensure safe and effective use of the Ranger, operators must follow these guidelines:

Familiarisation:

- Operators must be trained and familiar with the Ranger. Always position the machine on a hard, level surface.
- Never operate on slopes or inclines that could compromise stability.

Load Limits:

- Do not exceed the Safe Working Load (SWL) indicated on the decal.
- Ensure all loads are evenly distributed across the platform.

Lifting Restrictions:

- Never attempt to lift or lower any load that exceeds the SWL.

Intended Use:

- The Ranger is not designed to function as a material lift.

Hazard Clearance:

- Maintain a minimum distance of 0.6 metres from hazards such as holes, manhole covers, drop-offs, or unstable surfaces.

DANGER: STRICT PROHIBITIONS

- **Do not** use the Ranger outdoors.
- **Do not** use the Ranger as a material hoist.
- **Do not** tie the machine to nearby structures or secure it using wires, ropes, or cables.
- **Do not** modify or extend the platform with any unauthorised deck extensions.

3. Ranger Specifications and Uses

3.1. Introduction and General Information

This manual provides all essential information for the safe operation and maintenance of the Ranger — a single-person capacity, push-around, self-powered low-level access platform.

All operators and maintenance personnel must read and fully understand this manual before operating the machine or performing any maintenance tasks.

Additional copies of this manual are available from your supplier or can be downloaded directly on the Navigator website (see section 1.3)

4. About the Ranger

The Ranger provides a safe and straightforward alternative to ladders and steps for working at height.

Operating Environment:

The Ranger is designed for indoor use only.

Certification:

The Ranger is certified to exceed BS EN 280-1:2022 standards, ensuring high levels of safety and performance.

Environmental Responsibility:

Engineered with sustainability in mind, the Ranger contains no batteries, hydraulics, or electric motors, resulting in zero CO₂ emissions during operation.

5. Applications and Environments

The Ranger is ideal for use in a wide range of industries, including:

- Construction
- Retail
- Food Manufacturing
- Pharmaceutical and Medical Sectors
- Facility and Building Maintenance

The platform is specifically designed for use in clean, controlled environments and must always be operated within the limits specified in this Manual.

6. Training and Responsibility

All operators must be formally trained and competent in the safe use of this equipment.

Important:

The responsibility for safe operation rests solely with the individual operator and/or their employer. Navigator Lifts Ltd. does not assume responsibility for improper or unsafe use of the machine.

7. Specification

Table 2 – Ranger specifications.

Working Dimensions	
Maximum Working Height	4.2 m
Working Footprint	775 mm x 1528 mm
Platform Dimensions	722 mm x 840 mm
Rated Load, Manual Force, Weight	
Safe Working Load (SWL)	150 kg
Maximum Side Force	200 N
Maximum Windspeed	n/a – Indoor use only
Maximum Gradient	0.5 Degrees
Maximum Load per Fixed Wheel	800 kg
Maximum Load per Swivel Castor	2000 kg
Machine Weight	305 kg
Performance	
Ascent/Descent Rotations	36

WARNING: Never operate the platform while standing outside the confines of the guardrail. Doing so is strictly prohibited and may result in serious injury or fall-related incidents.

8. Design Compliance and Intended Use

The Ranger has been engineered in full compliance with the European Machinery Directive and meets the safety requirements of European Standard EN 280 for Mobile Elevating Work Platforms (MEWPs).

The following aspects of the machine have been developed to ensure the safe elevation of one person, along with essential tools and materials, for working at height:

- Design calculations
- Stability and structural integrity
- Construction methods
- Safety testing
- Independent third-party examinations

9. Environment

The Ranger is suitable for:

- Indoor use only.

It must always be operated on a firm, level surface capable of supporting both the weight of the machine and its Safe Working Load (SWL) of 150 kg.

WARNING: In the event of any special working methods or conditions not covered in this Manual, the user must obtain written guidance and approval from the manufacturer prior to use.

Failure to do so may result in unsafe operation and void any applicable warranties or certifications.

10. Operator Selection and Competency Requirements

Only personnel who have been properly selected, trained, and authorised—or those currently undergoing formal training under supervision—are permitted to operate a Ranger machine.

Employers are responsible for reviewing each operator's training records and prior experience to ensure they are suitably qualified for safe operation.

11. General Fitness and Impairment Policy

Operators must not be under the influence of alcohol, drugs, or any substance that may impair their judgment, coordination, or performance.

They must also be physically capable of safely performing all tasks associated with operating the Ranger, including climbing into the platform, maintaining balance, and responding to emergency situations.

12. Recommended Operator Attributes

Operators of the Ranger should demonstrate the following qualities and capabilities:

- Be physically fit and capable of handling the demands of the role
- Be comfortable working at height
- Display a responsible and safety-conscious attitude
- Be able to learn and follow instructions effectively
- Communicate clearly with other personnel on-site
- Understand and follow health and safety regulations
- Be aware of accident prevention and control measures
- Always Work safely at height
- Use appropriate Personal Protective Equipment (PPE)
- Operate and manoeuvre the machine safely and efficiently
- Accurately position the platform and complete tasks to a high standard
- Recognise and avoid foreseeable hazards and respond appropriately to unsafe conditions
- Perform daily pre-use inspections before operating the machine

WARNING: Operating the Ranger without proper training may result in severe injury. Only trained and competent individuals should operate this equipment.

We offer familiarisation, testing and certification for the Navigator model range.

Alternatively, in the UK, a recognised training course for the Push Around Vertical (PAV) category is available through IPAF-approved training centres.

For more information, visit: <https://www.ipaf.org/en-gb>

13. Additional Personnel Responsibilities: Site Surveyor, Planner and Demonstrator

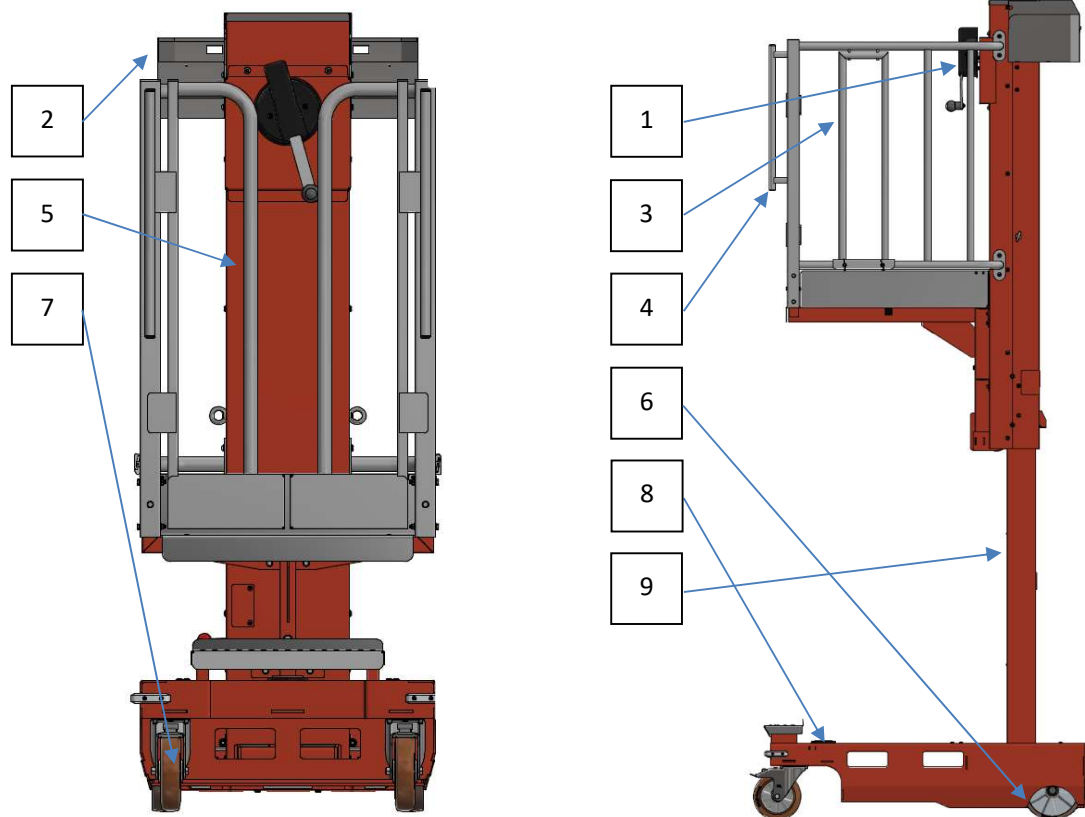
In addition to the machine operator, both the Site Surveyor and the Planner, as well as the Machine Demonstrator, must be suitably qualified and competent to perform their respective duties. This must be in accordance with the guidance provided in the *Safe Use of MEWPs – Code of Practice*, specifically sections 7.2.6 and 7.2.7.

14. Planning Responsibilities – Site Surveyor and Planner

When planning work involving a Ranger machine, the Site Surveyor and Planner must follow the steps below to ensure safe and effective task execution:

- Define the Task – Clearly identify the work to be performed at height.
- Select Suitable Equipment – Choose the appropriate access platform, such as a Push Around Vertical (PAV) or other MEWP, based on the task requirements.
- Identify Hazards – Assess the work environment to identify any potential hazards.
- Conduct Risk Assessment – Evaluate risks and establish appropriate control measures.
- Develop a Safe Work Method – Outline a safe and practical method for carrying out the task.
- Prepare a Method Statement – Document the work plan, including emergency rescue procedures.
- Communicate the Plan – Ensure all relevant personnel are briefed and understand the method statement.
- Review and Update – Reassess the plan before work begins and revise it to reflect any changes or newly identified risks.

15. Primary Components



No.	Item
1	Flywheel Handle
2	Tool Tray
3	Emergency Guardrail Hatch
4	Handlebars
5	Saloon Gates
6	Fixed Drive Wheel
7	Swivel Castor
8	Inclinometer / Spirit Level
9	Mast

16. Decals

16.1. Description

Decals are critical visual indicators affixed to the MEWP that provide essential safety, operational, and maintenance information. These include warning labels, instructional graphics, load capacity charts, emergency procedures, and manufacturer identification.

16.2. Purpose of Decals

- Communicate safety warnings to prevent accidents and injuries.
- Provide operational guidance for correct usage.
- Indicate maintenance schedules and inspection points.
- Identify the machine model, serial number, and manufacturer details.

16.3. Operator Responsibilities

Inspection:

- Before each use, operators must inspect all decals to ensure they are present, legible, and securely attached.

Reporting:

- Any missing, damaged, or illegible decals must be reported immediately and replaced before operation.

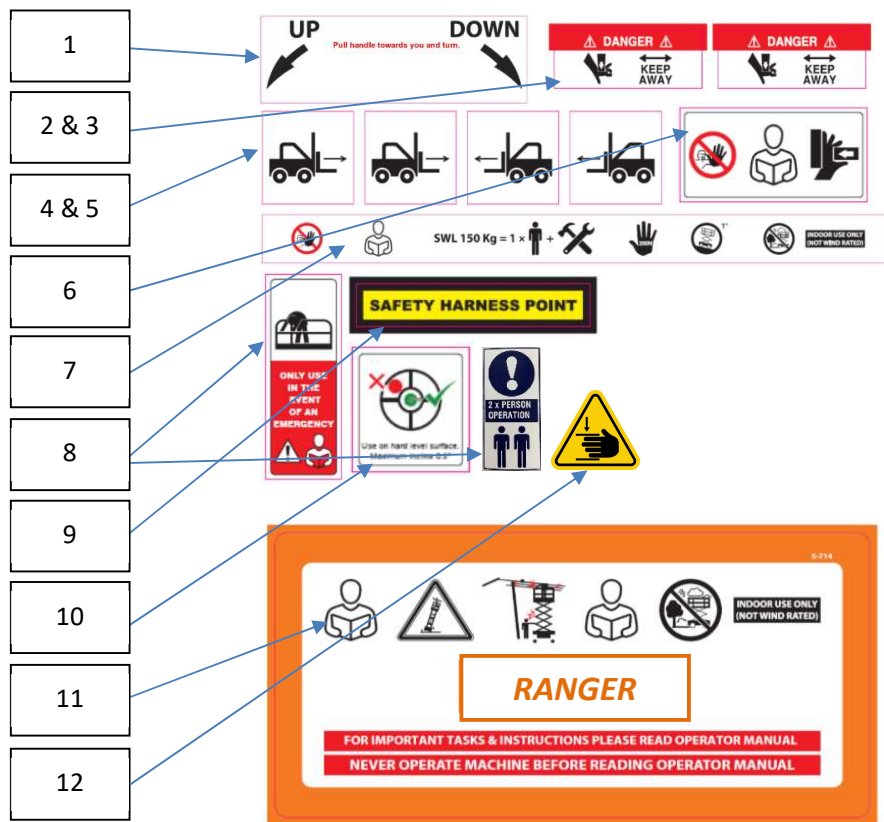
Understanding:

- Operators must understand the meaning of each decal and follow the instructions provided.

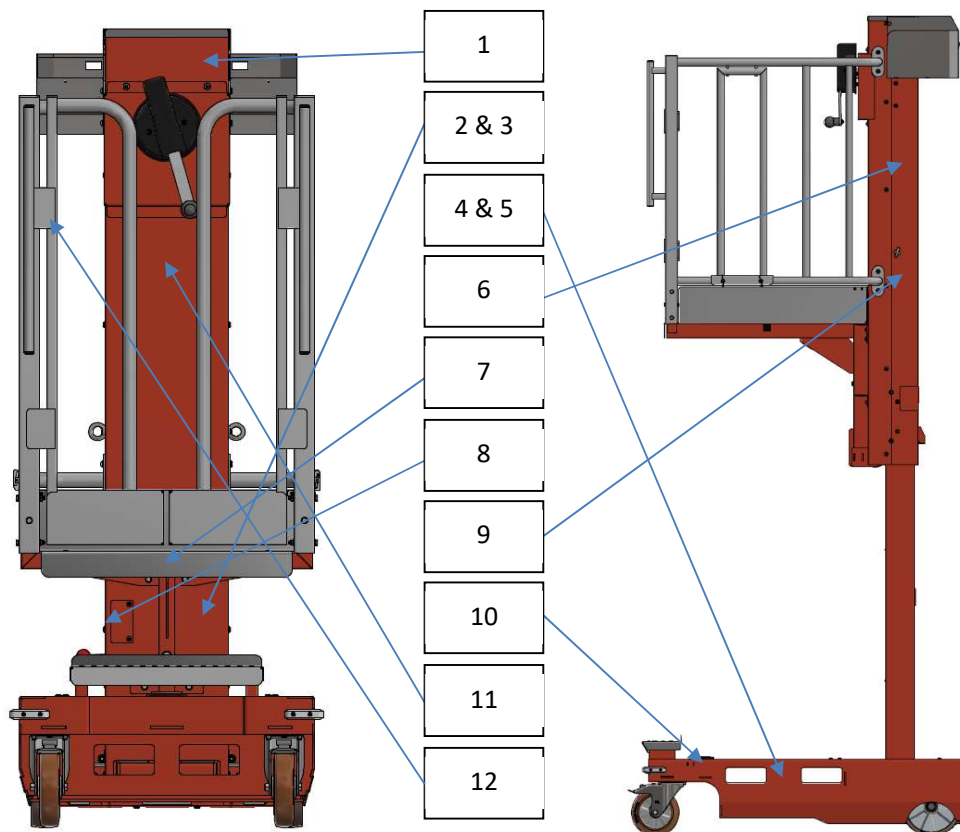
Image Reference:

- The images below show the typical placement and types of decals found on the MEWP. These may vary slightly between models and units.

Decals:



Decal Location:



17. Operating Procedures

It is the owners and/or the users' responsibility to ensure that the machine is maintained and operated in accordance with the operation and maintenance procedures contained within this manual.

Operating procedures are divided into three key areas:

- 1. Pre-operation checks** - *What to do before operating the machine.*
- 2. Normal operation** - *How to use the machine safely.*
- 3. Emergency operation** - *How to lower the machine in the event of operator incapacity.*

17.1. Pre-operation Checks

17.1.1. Visual Inspection

- Conduct a thorough visual inspection of the entire unit, starting from the wheels up to the guardrails. Look for any signs of damage, wear, or loose components that may affect safe operation.

17.1.2. Wheels and Castors

- Ensure that all castors rotate and move freely without any obstructions.
- Examine the axle bolts for secure fastening and check for any signs of wear or damage.
- Verify the functionality of the castor locking mechanism:
 - Press down on the pedal to engage the brake.
 - Lift the pedal to release the brake (refer to Picture A).

17.1.3. Spirit Level

- Verify that the spirit level is intact and bubble is centred to ensure machine is level (refer to Picture B).

17.1.4. Gates and Fixings

- Open and close the platform gates to confirm smooth and unobstructed operation.
- Inspect all gate fixings to ensure they are secure, intact, and free from damage.

17.1.5. Emergency Handle

- Inspect the Emergency Handle to ensure it is free from damage and obstructions.

17.1.6. Flywheel Handle

- Pull the handle toward your body and then release it to ensure it retracts and locks into place correctly (refer to Picture C).



WARNING: If any of the above checks fail, or if any component is found to be malfunctioning or damaged, do not operate the platform.

Take the following actions immediately:

- Isolate the machine to prevent use.
- Contact the supplier or authorized service provider for inspection and necessary repairs.

WARNING: The emergency lowering handle/system must only be used if an individual is incapacitated within the platform.

17.2. Normal Operation

Follow these steps to ensure safe and correct use of the Ranger:

17.2.1. Positioning the Platform

- Move the platform into place, ensuring it is directly beneath the intended work area.
- Check for any overhead obstructions and maintain a safe distance from live electrical cables.
- Engage the castor brakes to secure the platform in position.
- Use the spirit level to verify that the platform is level.
 - The bubble must remain within 0.5 degrees of the centre mark.
- Step onto the platform using three points of contact and enter through the access gates.
 - Ensure the gates close securely behind you.

17.2.2. Elevating the Platform

- Pull the handle toward your body and rotate anti-clockwise.
- To stop the ascent, simply release the handle at the desired height.
 - The handle will automatically retract and lock, securing the platform in place.

17.2.3. Lowering the Platform

- Pull the handle toward your body and rotate clockwise.

DANGER:

- The operation handle must only be used from within the platform's guardrail system.
- Never operate the handle from outside the guardrails—doing so presents a serious risk of severe injury.
- Always remain fully inside the guardrails while operating the Ranger to ensure maximum safety.

17.3. Emergency Operation

To be used only when the operator is incapacitated within the platform and requires immediate recovery.

- Pull the emergency lowering release handle to disengage the main ascent/descent handle (see Picture D).
- Pull the platform down manually.
- Locate and remove the emergency cage bars. The bars are tethered to the guardrail (see Picture E).
- Remove the operator and seek medical advice.



WARNING: The emergency lowering handle/system must only be used if an individual is incapacitated within the platform.

WARNING: Never attempt to recover the platform or operator if the equipment is in contact with potentially live electrical wires or cables.

17.4. Always



- Conduct daily pre-use inspections to confirm the machine is safe for operation.
- Ensure all instruction, warning, and safety labels are clean, legible, and clearly visible.
- Operate the Ranger strictly within its specified operating limits and parameters.
- Check for obstructions and ensure the area is clear of personnel before and during platform movement.
- Secure all tools and materials within the platform and inside the guardrails.
- Position the Ranger on firm, level ground capable of supporting the machine's weight and full Safe Working Load (SWL).
- Maintain a safe distance from overhead electrical cables and power lines.
- Use the machine only on flat, stable surfaces.
- Ascend only when the machine is on level, stable ground.
- Always keep both hands inside the platform during operation.
- Verify the rear castor pedal lock is functioning correctly before use:
 - Push down to lock
 - Pull up to unlock
- Ensure saloon gates close securely behind the operator before ascending.
- Always Wear appropriate Personal Protective Equipment (PPE) while operating the machine.
- Evenly distribute the platform load and never exceed the SWL.
- Ensure the safety of nearby personnel by keeping the work area clear.
- Keep other vehicles away from the platform operating area.
- Cordon off the area to prevent unauthorised access by personnel or vehicles.
- Ensure a second trained person is on-site and capable of operating the emergency controls if needed.
- Follow the emergency lowering procedure as outlined in this manual.
- Read and fully understand this Operator Manual before using the Ranger.
- Use only the designated lifting points when lifting or transporting the machine.
- Confirm that the Ranger's LOLER (Lifting Operations and Lifting Equipment Regulations) Certificate is valid and up to date before each use.

17.5. Never



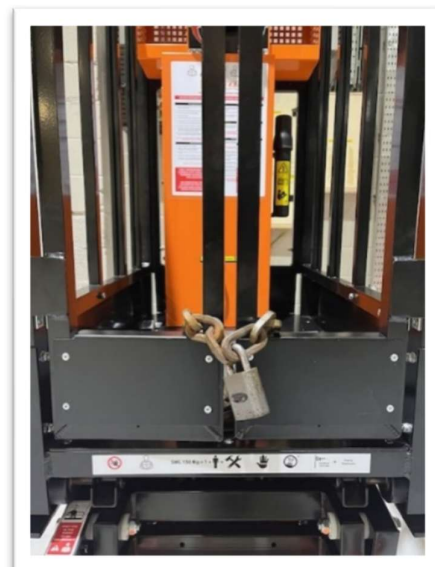
- Elevate the platform while actively performing work tasks.
- Operate the Ranger outside its designed parameters.
- Operate the Ranger outdoors.
- Enter or exit the platform while it is ascending or descending.
- Use the Ranger as a material lift.
- Modify the Ranger to gain additional height.
- Tamper with the lifting mechanism to increase lifting capacity.
- Operate the Ranger if it has been quarantined for inspection or repair.
- Use the Ranger with an expired LOLER certificate.
- Exceed the platform's Safe Working Load (SWL).
- Operate the Ranger with gates open or not securely closed.
- Override or disable the anti-surfing braking system.
- Move or reposition the machine while the platform is elevated.
- Move or reposition the machine with a person on the platform.
- Step or transfer between platforms without an approved Risk Assessment and Method Statement (RAMS).
- Drill into or modify any part of the machine in a way that compromises structural integrity.
- Allow ground personnel to activate emergency descent unless a genuine emergency exists.
- Operate the Ranger beneath or near overhead work in progress.
- Attempt to move the Ranger while someone is standing on the platform.
- Use the Ranger if any wheel is severely worn, damaged, or missing components.
- Tie the Ranger to external structures or attach ropes, cables, or similar items.
- Cover the sides of the Ranger during indoor use, as this may cause instability.
- Increase platform size using unauthorised deck extensions.
- Operate the Ranger on surfaces sloped more than 0.5°.
- Repeatedly use the Ranger outside its design parameters.

17.6. Securing when not in use

To prevent unauthorised access and ensure the safety of personnel and property, the Ranger must be securely locked when not in operation. This includes:

- Using physical barriers such as chains and padlocks on access gates or entry points, as illustrated.

Failure to properly secure the Ranger may result in unauthorised use, leading to potential safety hazards, equipment damage, or liability issues. Always follow site-specific security protocols and conduct regular checks to ensure the Ranger remains inaccessible to unauthorised individuals when idle.



18. Maintenance Procedure

Important Information

While this machine has been designed to be straight forward to maintain, all inspection, maintenance, and servicing tasks must be carried out by a suitably trained and competent person.

Under the Provision and Use of Work Equipment Regulations 1998 (PUWER), equipment providers must ensure machines are supplied in a safe, serviceable condition. Once the machine is in use, responsibility transfers to the owner or employer to ensure the equipment remains properly maintained and fit for use. The employer must also ensure that operators are adequately trained and familiar with both the equipment and the relevant operating procedures. Responsibility for health and safety rests with the operator and their employer at all times.

18.1. Daily Maintenance

The telescopic mast assembly is a sealed unit incorporating a pressurised cylinder. It must not be dismantled except by personnel authorised by Navigator Lifts Ltd. Daily checks and pre-operation inspection are the most critical maintenance activity and should be completed before each use.

18.2. Daily Checks

These checks must be performed at the start of each day or whenever there is a change of operator. The safety critical items to inspect daily as a minimum are:

18.2.1. Wheels and Pads

- Ensure all wheels and ground-contact pads, where fitted, are free from damage and securely attached. These components stabilise the machine; damaged parts must not be used.

18.2.2. Castor Wheels and Fixed Wheels

- Inspect all castors and brakes, ensuring no damage and that the fixings are secure.
- Engage the brake pedals and confirm that the castors lock securely in place.
- Disengage the brake pedals ensuring castors move freely.

18.2.3. Gates

- Ensure the gate hinges are secure and the gates fully close when released.
- Ensure gates can not open outwards.

18.2.4. Guardrails

- Confirm that all guardrails are intact and complete, undamaged, and securely fixed. Including emergency removable gates.

18.2.5. Flywheel Handle

- From inside the platform, operate the flywheel handle. It should rotate freely in both directions and return correctly to its engaged position when released.

18.2.6. Chassis

- Inspect the base structure for signs of damage. Verify that the spirit level is present and functional.

18.2.7. Mast

- Check mast fixings are all present and secure.

18.2.8. Anti-Surf Brake

- Elevate the platform approximately 250 mm to activate the anti-surf brake on the fixed wheels.
- Attempt to push or pull the unit and confirm that the fixed wheel brake has engaged.

18.2.9. Emergency Lowering Handle

- Inspect the emergency lowering handle to ensure it is free from damage and obstructions.

WARNING: The emergency lowering handle/system must only be used if an individual is incapacitated within the platform.

WARNING:

- If any of the periodic checks fail to meet the required standards, quarantine the machine immediately.
- Contact the hire supplier for inspection or repair.
- Failure to act may result in serious injury.

18.3. Monthly Checks

Carry out all daily checks listed above, along with a more detailed inspection for signs of wear, damage, or deterioration.

18.4. Six-Monthly Inspection (Thorough Examination / LOLER Support)

The following process should be completed by a competent person as part of a thorough inspection:

18.4.1. Access to Internal Components

- Remove necessary covers including the tool tray, mast cap, and handle cover to gain access to internal mechanisms. Use correct tools and take care when removing sealed or threadlocked fasteners.

18.4.2. Gear Mechanism

- Inspect gear components for wear and apply suitable high-performance grease. Avoid standard lubricants that may degrade quickly.

18.4.3. Rack Drive System

- Inspect the full length of the Rack. Check the associated components for wear or misalignment. Minor surface wear is acceptable; however, any damage requires immediate attention.

18.4.4. Upper & Lower Gearboxes

- Verify that retention plates and fixings remain secure and do not move during operation.
- Check for wear or damage to gears and associated components.
- Visually inspect drive chain for damage.

18.4.5. Mast Interlock System in Gear Boxes

- Inspect the interlock mechanism to ensure it is undamaged and functions correctly.
- Operate the system carefully and confirm full engagement and movement.
- Check torsion springs are functioning correctly and undamaged.

18.4.6. Emergency Lowering System

- Check emergency lowering lever, connecting rod and couplings for damage.
- Note: Please contact manufacturer for guidance when reassembling.

18.4.7. Automatic Wheel Lock System

- Inspect the braking system components, including cams and pins.
- Ensure free movement and proper engagement when the platform is elevated.
- Confirm mechanical engagement with the wheel discs.

18.4.8. Reassembly

After inspection:

- Refit all removed components correctly.
- Use appropriate threadlocking compounds where required.
- Ensure all fasteners are tightened to the correct specification.
- Apply tamper indicators where applicable.

18.4.9. General Notes

- Always use genuine or approved replacement parts.
- Do not modify the machine without written approval from Navigator Lifts Ltd.
- Remove the machine from service immediately if any safety-critical fault is identified.

18.5. Maintenance Frequency Table

Table 4 – Maintenance frequency table

Item	Daily	Monthly	6 Months (LOLER/thorough examination)
Manual	✓	✓	✓
Visual (welds, safety-critical fixings)	✓	✓	✓
Spirit Level	✓	✓	✓
Castor Condition	✓	✓	✓
Gates, Guardrails	✓	✓	✓
Central Castor Lock	✓	✓	✓
Mast Inspection	✓	✓	✓
Function Test	✓	✓	✓
Gear Mechanism Inspection / lubrication			✓
LOLER Certificate			✓
Emergency Lowering (LOLER)			✓
Safe Working Load (SWL – 110% - LOLER)			✓

18.5.1.Pre-Delivery Report

Please see example in Appendix.

18.5.2.LOLER Report (thorough examination)

Please see example in Appendix.

18.5.3.Safety Critical Fixings Torque Table

Table 5 – Safety Critical Fixings Table

Location	Fixing	Torque (Nm)	Comment
Castor Mounting Plate	M8	30	New Nyloc nut when replacing fixings.
Castor Axle Bolt	M16	50	New Pinch nut when replacing fixings.
Fixed Wheels Nut	M20	50	New Nyloc nut when replacing fixings or wheel.

19. Transportation and Manoeuvring Instructions

The Ranger is designed with integrated anchor points, tie-down locations, and forklift pockets on the chassis to support safe and secure transportation.

Although the method of site-to-site movement is at the discretion of the owner or operator, all transportation activities must be carried out in accordance with a comprehensive Risk Assessment and Method Statement (RAMS). This documentation must address the following key considerations:

Primary Transportation Features:

- Ensure all personnel involved in transportation are familiar with the following components:
 - Anchor Points – Used to secure the machine during transit.
 - Tie-Down Locations – Designated areas for applying restraints to prevent movement.
 - Forklift Pockets – Structural openings designed for safe lifting and positioning using forklift equipment.

20. Warranty Terms

Unless otherwise specified in this section, the following warranty applies to all Goods supplied:

Goods are covered under warranty provided they meet all of the following conditions:

- The Goods are located at the original Installation Site.
- Installation and maintenance have been carried out by authorised personnel.
- The Goods have been operated within rated and normal usage limits.

When these conditions are met, the Goods are warranted to:

- Conform to the Technical Specifications as quoted by the Seller.
- Be free from defects in materials and workmanship, subject to confirmation through inspection by the Seller.

20.1. Warranty Coverage

The following warranty terms apply to all eligible Goods:

- Parts and Labour
 - Standard coverage: 12 months from the date of installation
 - Optional extension: Additional 24 months available at an extra cost
- Structural Components
 - Covered under a 1-year structural warranty

20.2. Warranty Service Conditions

- All warranty repairs must be carried out either at Navigator Lifts Ltd. manufacturing facility or at an authorised warranty service centre, unless prior written approval is obtained from Navigator Lifts Ltd.
- Any defect reported and verified within 360 days of installation that falls within the scope of this warranty will be repaired free of charge, including both labour and materials.

20.3. Exclusions – Non-Warranty Conditions

The warranty does not cover the following conditions:

If, upon inspection, Navigator Lifts Ltd. determines that:

- No fault is present, or
- The issue is the result of any of the following:
 - Unauthorised modifications
 - Abuse, misuse, or accidental damage (e.g., dropping the unit)
 - Use of non-OEM parts or improper installation
 - Negligence in operation or maintenance
 - Tampering or unauthorised alterations by the Purchaser, their agents, employees, or customers

Then all repair costs, including labour and materials, will be the sole responsibility of the Purchaser.

This warranty constitutes the sole and exclusive warranty provided by Navigator Lifts Ltd. No other warranties, express or implied, shall apply beyond the terms stated herein, including but not limited to any implied warranties of merchantability or fitness for a particular purpose.

Under no circumstances shall Navigator Lifts Ltd. be liable for any incidental, indirect, or consequential damages. The Purchaser's sole and exclusive remedy under this warranty is limited to the repair or replacement of nonconforming parts or units, as determined by Navigator Lifts Ltd.

20.4. Warranty Transportation

It is the Owner's responsibility to arrange transportation of the Ranger to the manufacturer's facility for any warranty-related inspection or repair.

While the manufacturer may assist in coordinating transportation upon request, all associated costs will be charged to the Owner unless otherwise agreed in writing.

20.5. Warranty Process

When submitting a warranty claim or returning a unit for inspection, the following information must be provided to the manufacturer:

- Machine Serial Number
- Original Order Number

Important: Failure to provide this information may result in delays or rejection of the warranty claim.

WARNING: If the Ranger has sustained significant damage and any major structural components have been replaced, the unit must undergo a new LOLER (Lifting Operations and Lifting Equipment Regulations) / thorough examination, regardless of the validity of any previous certification.

Any major structural repair must be followed by a full LOLER re-certification to ensure continued safe operation.

Failure to comply may result in:

- Unsafe operation of the equipment
- Invalidity of warranty
- Loss of insurance coverage

21. Appendix

This check sheet (example) must be completed at the start of each shift or whenever there is a change of operator. The inspection must be carried out by a competent operator who is familiar with the equipment and trained in its use.

Instructions:

- Conduct a thorough visual and functional inspection of the Ranger.
- Ensure the machine is clean before inspection—a dirty unit cannot be properly assessed.
- Record all findings clearly and accurately.
- Report any discrepancies or faults immediately to your line manager.
- Maintain an up-to-date inspection log as part of your operational safety records.

WARNING: Failure to complete the daily inspection, or to perform it when changing operators, may result in serious injury.
Regular inspections are critical to ensuring the safe and reliable operation of the equipment.

Model:

Serial Number:

Key: Y – Yes (Acceptable), N – No (Unacceptable), R – Repaired	Y	N	R
Visual Inspection			
Check the Manual and Certificates are present.			
Check that there is no damage – Inspect from the ground upwards. Dents, wear and tear.			
Check Fixings are in place and not missing.			
Check the Labels are legible and easy to understand.			
Check the condition of the Spirit Level.			
Check the Guardrails and Gates can open/close, are loose and not damaged.			
Check the Platform and function Handles are free from debris/damage.			
Check the Flywheel.			
Check and inspect the Tool Tray and cover for damage.			
Check the Tyres. Any missing tread will reduce stability.			
Function Tests			
Operate the central Castor Brake Pedal and ensure the brakes operate correctly. Push/pull/hold.			
Step into the platform. Maintain three points of contact.			
Elevate the platform 250mm. Ensure the anti-surf brakes have been deployed.			
Elevate the platform to the full height and lower. Ensure to stop when elevating and descend to ensure the hand brake retracts to the original position.			
Emergency Lowering System – Do NOT TEST SYSTEM (Only tested during LOLER testing)			
Date:			
Inspected by:			

Ranger – LOLER Thorough Examination Report

1. Equipment & Owner Details

Owner / User Name:	
Address:	
Customer No:	
Machine Model:	
Serial Number:	
Machine Weight:	
Safe Working Load (SWL):	

2. Inspection Details

Inspection Type:	
Inspection Date:	
Previous Inspection Date:	
Next Due Date:	
Inspection Frequency:	
Inspector Name:	
Company:	
Competence:	

3. Inspection Key

Code	Y	N	C	NA
Meaning	Pass	Fail	Corrected	Not Applicable

4. General Condition

Item	Y	N	C	NA	Comments
No unauthorised modifications					
Paint & overall condition					
Safety bulletins completed					
Structural condition (incl. welds)					
All safety-critical fixings secure					
Wheels in serviceable condition					
Gates open/close correctly					

5. Manuals & Decals

Item	Y	N	C	NA	Comments
OEM manual present					
Capacity decals legible					
Safety/Instruction labels present					

6. Chassis & Running Gear

Item	Y	N	C	NA	Comments
Bolts & fixings (torque correct)					
Castors condition					
Castors rotate freely					
Brake system functions correctly					
Emergency lowering mechanism clear & functional					
Spirit level operational					

7. Platform Assembly

Item	Y	N	C	NA	Comments
Platform secure					
Guardrails secure					
Gates operate & secure					
Covers secured & undamaged					

8. Functional Tests

Item	Y	N	C	NA	Comments
Lift/Lower function operates correctly					
Handle stops when released					
Emergency lowering system operates					
Anti-surf brake activates when raised					

9. Load Test

Test	Result	Comments
SWL Test (110–120%) completed		
Platform holds load at full height		

10. Mechanical Components**Gas Struts**

Item	Y	N	C	NA	Comments
No leaks or damage					
Fixings secure					
Brackets move freely					

Drive / Lift Mechanism

Item	Y	N	C	NA	Comments
Chain condition & lubrication					
Gear system condition					

11. Defects & Corrective Actions

Defects identified:	
Immediate actions taken:	
Further actions required:	

12. Overall Assessment

PASS – Safe for continued use	☐
FAIL – NOT safe for continued use (remove from service):	☐

13. Declaration

I certify that this equipment has been thoroughly examined in accordance with LOLER requirements and relevant standards (EN 280), and that any defects have been recorded and addressed.

Inspector Name:

Signature:

Date: