



Operation and Maintenance Manual

CHANGING THE WAY

The **Navigator 6.0** is the world's first mechanical scissor operated push-around platform, reaching a working height of six metres.

As a manually operated unit, it can be continually used without any charging required.

The Navigator demonstrates the use of sustainable and ethical products and produces **Zero CO₂** emissions.



Introduction

The **Navigator 6.0** is the world's first mechanical scissor-operated push-around platform, reaching a working height of six meters.

As a manually operated unit, it can be continually used without any charging required.

The Navigator demonstrates the use of sustainable and ethical products and produces Zero **CO₂** emissions.

Important

The purpose of this Manual is to provide the Operative with the information required to use the Navigator 6.0 safely and correctly.

The manual is a part of the machine and will be stored in the canister on the Navigator 6.0.

Navigator 6.0 should be quarantined until provided with the manual.

The following figure shows the location of the Canister on the Navigator:



Technical publications

METAL AND MODULAR FABRICATION SERVICES has endeavoured to deliver the highest degree of accuracy possible. However, continuous improvement of our products is a FABRICATION SERVICES policy. Therefore, product specifications are subject to change without notice. Readers are encouraged to notify METAL AND MODULAR of errors and send in suggestions for improvement. All communications will be carefully considered for future printings of this and all other manuals.

Specifications, descriptions and illustrative material in this literature are as accurate as known at the time of publication, but are subject to change without notice. Illustrations may include optional equipment and accessories, and may not include all standard equipment.

Contact Us

Metal and Modular Fabrication Services

Vicarage Farm

Brington Road

Flore | Northamptonshire | NN7 4NQ

TEL: 01327 343300

WEB: www.metalandmodular.co.uk

Safety Rules



THE OPERATION AND SAFETY INSTRUCTIONS MUST BE READ AND UNDERSTOOD BEFORE OPERATING THE MACHINE.

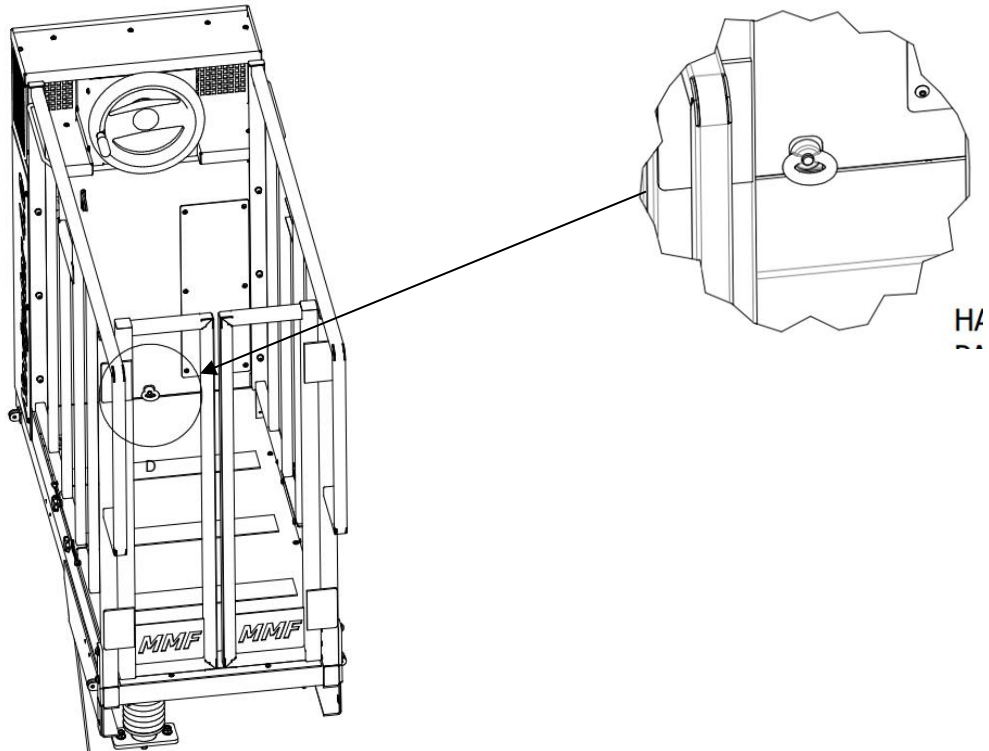
The user/operator should not accept operating responsibility until the handbook has been read and understood. The user should also have operated the Navigator 6.0 under the supervision of an experienced and qualified operator.

The manufacturer has no direct control over the machine application or operation. Proper safety practices are the responsibility of the user and all operating personnel.

Safety Precautions - Trip and Fall Protection 1.0

Fall Protection Notice:

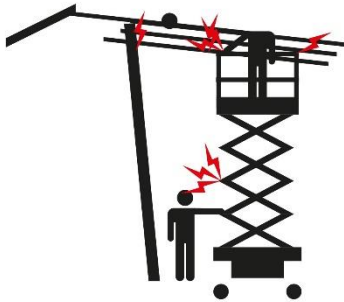
The guardrail system around the perimeter of the platform is the fall protection system for the Navigator as per the EN 280 standard. It is prohibited to use Navigator 6.0 with any portion of the guardrails removed. Anchor points are provided for work positioning restraints only. Lanyard lengths are to be determined by the operator/owner to restrict the operator to the confines of the guardrail system. **Please ensure to use a fall retaining lanyard.**



WARNING: USE OF FALL ARREST SYSTEMS ATTACHED TO ANCHOR POINTS ON EQUIPMENT MAY CAUSE THE MACHINE TO TIP RESULTING IN SERIOUS INJURY OR DEATH.

- Maintain three points of contact when climbing in and out of the platform.
- Ensure to enter and exit only through the gates and use extreme precautions.
- Ensure you face forward towards the machine when entering and exiting.
- When on the platform always ensure to plant both feet on the platform at all times and not to use steps or boxes to gain prohibited additional height.

Safety Precautions - Electrocution Hazards 1.1



The Navigator 6.0 is not insulated and does not protect from contact or proximity to electrical current.

You should maintain a safe distance from electrical lines, apparatus, or any energized parts, exposed or insulated, as legislated in the minimum approach distance as the table below, Minimum Approach Distance **M.A.D.** Allow for machine movement and electrical lines swaying.

Maintain a clearance of at least 3m (10 ft) between any part of the machine and its occupants, their tools, and their equipment from any electrical line or apparatus carrying a voltage of 50 kV.

A 0.3m (1ft) additional clearance is required for every additional 30 Kv or more.

The minimum approach distance may be reduced if insulated barriers are installed. This is to prevent contact and the barriers are rated for the voltage of the line being guarded. The minimum approach distance will be reduced to a distance within the designed working dimensions of the insulated barrier. This determination shall be made by a qualified person under the employer and local authorities' requirement practices near energized equipment.

These barriers are not part of (or attached to) the machine.

Minimum Required Clearance (Feet)	
0 to 50,000	10
over 50,000 to 75,000	11
over 75,000 to 125,000	13
over 125,000 to 175,000	15
over 175,000 to 250,000	17
over 250,000 to 370,000	21
over 370,000 to 550,000	27
over 550,000 to 1,000,000	42

Safety Precautions - Tipping Hazard 1.2

Ensure the Surface on which the Navigator 6.0 is going to be positioned is adequate to support the tire pressure from the Machine. Load restrictions are presented above the wheel on the chassis.



WARNING: DO NOT ELEVATE THE PLATFORM ON A SOFT SURFACE OR A SURFACE WHICH HAS NOT BEEN DESIGNED TO THE CORRECT FLOOR PRESSURE.

The operatives should be familiar with Navigator 6.0 and position the platform on a hard-level surface. Never place on a slope that may cause the platform to tip.

Never exceed the safe working load as specified on the tool tray and ensure that the load is distributed evenly on the platform. Under no circumstances should you try to lift or lower weight above the SWL. Keep the Navigator 6.0 at a distance of 0.6 m from any holes, drops manhole covers, and any other potential hazards.

Do not elevate the platform when the wind speed exceeds the maximum wind rate as specified on the tool tray decal or within this manual.

Safety Precautions - Tipping Hazard 1.2



DANGER: NEVER ELEVATE THE PLATFORM WHEN THE WIND SPEED IS ABOVE 12.5 M/S OR 28 MPH AS THIS MAY RESULT IN A SERIOUS INJURY OR DEATH.

Beaufort Number	Wind Speed		Description	Land Conditions
	mph	m/s		
0	0	0-0.2	Calm	Calm. Smoke rises vertically.
1	1-3	0.3-1.5	Light air	Wind motion visible in smoke.
2	4-7	1.6-3.3	Light breeze	Wind felt on exposed skin. Leaves rustle.
3	8-12	3.4-5.4	Gentle breeze	Leaves and smaller twigs in constant motion.
4	13-18	5.5-7.9	Moderate breeze	Dust and loose paper raised. Small branches begin to move.
5	19-24	8.0-10.7	Fresh breeze	Smaller trees sway.
6	25-31	10.8-13.8	Strong breeze	Large branches in motion. Flags waving near horizontal. Umbrella use becomes difficult.
7	32-38	13.9-17.1	Near Gale/Moderate Gale	Whole trees in motion. Effort needed to walk against the wind.
8	39-46	17.2-20.7	Fresh Gale	Twigs broken from trees. Cars veer on road.
9	47-54	20.8-24.4	Strong gale	Light structure damage.

- Never attempt to use the Navigator 6.0 as a material lift. Do not tie off to an adjacent structure or attach a wire, rope, cable, or any similar item to the structure.
- Do not cover the side of the Navigator 6.0 when used outdoors as this will cause the machine to become unstable.
- Do not increase the platform size with an unauthorized deck extension.

Safety Precaution - Safety Prop 1.3

Safety Prop: The Safety Prop must be placed into position whenever the machine is being serviced in a partially raised position. Serious injury and/or death could result if the maintenance lock is not used properly. The Safety Prop should only be used by a service engineer.

Please Note: Safety Prop doesn't come with the machine and therefore is part of the tools required to maintain the product and is issued to the technical competent technicians.



WARNING: FAILING TO DEPLOY THE SAFETY PROP AND ACCESS THE SCISSOR MECHANISM COMPONENTS WILL RESULT IN SERIOUS INJURY, OR DEATH.

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1- Navigator 6.0 specs and uses:

1.1-Introduction

This manual provides the necessary information to enable the safe operation and maintenance of the NAVIGATOR 6.0, Single Person Capacity Push Around Self-Powered Scissor Lift.

Maintenance engineers and operators should read and understand all the information in this manual before operating or carrying out any routine maintenance.

Additional manuals can be obtained from the manufacturer or by simply downloading them from the website: www.metalandmodular.co.uk

The NAVIGATOR 6.0 is a simple and safer alternative to gain access to height without climbing. It is designed to be used indoors and outdoors on a flat-level surface.

When outdoors the outriggers MUST be deployed. NEVER use the Navigator when wind speed exceeds 12.5 m/s with one person and tools.

The NAVIGATOR 6.0 has been accredited to and exceeds BS EN 280:2013+A1:2015. The lift has no batteries, hydraulics, or electric motors and therefore does not emit any CO₂ emissions when operating.

The NAVIGATOR 6.0 is a practical machine designed for the construction, retail, food manufacturing, pharmaceutical, medical and facility maintenance industries. The platform is intended to be used in a clean environment and within the specified parameters set out within the Operation and Maintenance Manual.

The operator must be trained on the equipment to ensure they are competent in using the product.

This is not a workshop manual. If a workshop manual is required, please contact the dealer or the manufacturer.

The health and safety of the operator is the responsibility of the individual and/or their employer and not Metal and Modular.

1.2-Specification:

Working Dimensions	
Maximum Working Height	6.0 m
Maximum Working Platform	4.0 m
Working footprint	1633 x 743 mm
Platform Dimensions	0.90 x 0.69
Rated load, manual force, and weight	
Safe working load	150 Kg
Maximum side force	200 N
Maximum Windspeed (outdoor)	12.5 m/s
Note: Stabilizers should be deployed when used outdoors.	
Maximum Gradient	1.0 Degrees
Maximum Point Load Wheel	1250 Kg
Maximum Point Load Castor	800 Kg
Machine Weight + SWL	650 Kg
Performance	
Ascent - Descent rotations	42



WARNING: NEVER OPERATE THE PLATFORM WHILST STANDING OUTSIDE THE CONFINES OF THE GUARDRAIL.

1.3-Intended Use

Navigator 6.0 has been designed to comply with the safety requirements of the European Machinery Directive and by the European Standard EN 280, Mobile Elevating Work Platforms.

Our design calculations, stability criteria, construction, safety examinations, and third-party examinations are intended to lift one person (plus essential tools and materials) to enable work to be undertaken at height.

The Navigator 6.0 machines are designed for indoor and outdoor use and must be used on level ground, which can support the weight of the machine and its maximum safe working load (150 Kg). Typical applications include building and construction, particularly fit and strip-out, shopfitting, painting and decorating, general maintenance, and cleaning at varying heights above ground level.



WARNING: THE USER MUST OBTAIN THE GUIDANCE AND WRITTEN APPROVAL OF THE MANUFACTURER IN THE EVENT OF ANY SPECIAL WORKING METHODS OR CONDITIONS OUTSIDE THOSE SPECIFIED IN THE OPERATING AND MAINTENANCE MANUAL.

Selection of and minimum attributes of operators/personnel operating a Navigator 6.0 machine should have either been selected, trained, and authorized to do so, or be undergoing formal training under supervision. Records of training and experience of personnel should be consulted to assist in the selection of a suitable operator.

Personnel should be instructed not to work under the influence of alcohol, drugs, or other impairment to efficiency. Personnel should also be assessed as to their physical ability to undertake the appointed tasks.

The Navigator 6.0 machine operator should:

- Be physically fit.
- Appear to be comfortable working at height when taken up in the work platform of a MEWP
- Have a responsible attitude.
- Demonstrate an ability to learn.
- Be able to communicate clearly with other personnel on-site.
- Be able to demonstrate an understanding of relevant health and safety regulations.
- Be able to demonstrate an understanding of accident prevention and control.

- Be able to demonstrate that they can work safely at height.
- Always use appropriate PPE.
- Operate the Navigator 6.0 machine safely and manoeuvre the machine as required.
- Correctly position and carry out the tasks accurately and adequately.
- Be able to identify and avoid foreseeable hazards plus recognize unsafe practices and developing situations.
- Carry out daily pre-use checks.



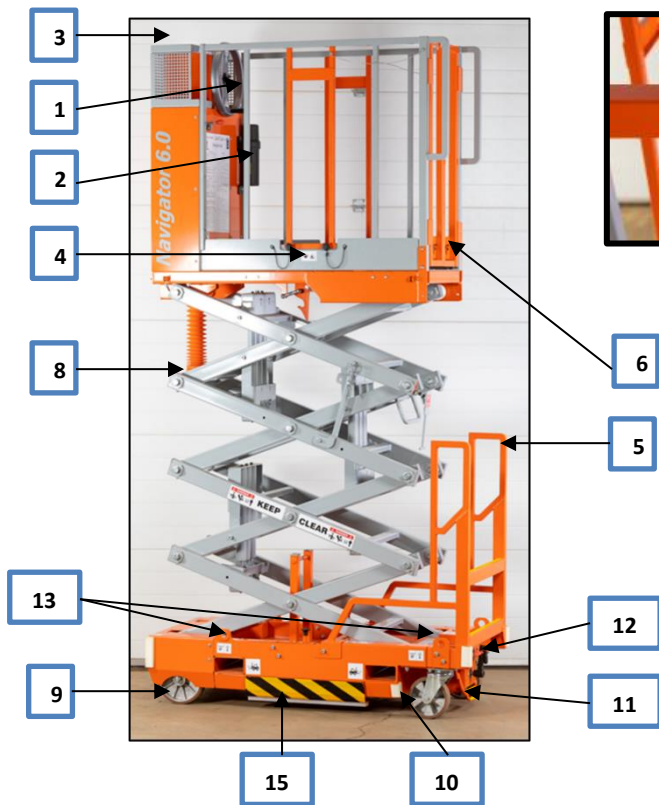
WARNING: OPERATION OF THE NAVIGATOR 6.0 MACHINE BY UNTRAINED OR INADEQUATELY TRAINED OPERATORS MAY RESULT IN SEVERE INJURY OR DEATH. A COURSE FOR THE CATEGORY PUSH AROUND VERTICAL (PAV) IS OFFERED BY IPAF-APPROVED TRAINING CENTRES IN THE UK.

In addition to the operator of the Navigator 6.0 machines, the Site Surveyor and Planner and the Machine Demonstrator should be competent to fulfil these roles as specified in the Safe Use of MEWP's– Code of Practice sections 7.2.6 and 7.2.7, respectively.

When planning the job, the Site Surveyor and Planner should work through the following stages:

- Identify the task to be undertaken.
- Select an appropriate MEWP.
- Identify the hazards associated with the task.
- Carry out a risk assessment and identify control measures.
- Develop the method to be used.
- Record the planning in a Method Statement (including any emergency activities for personnel rescue).
- Communicate the plan to all persons involved.
- Review the plan before the job starts and incorporate any changing circumstances.

2- Primary components:



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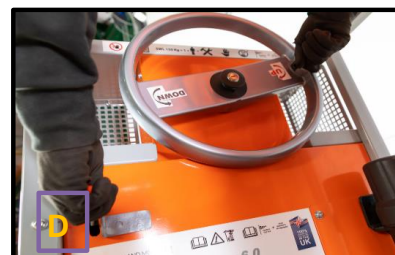
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1.	Flywheel
2.	Fly Wheel automatic Hand Brake
3.	Tool Tray
4.	Emergency Guardrail Hatch
5.	Handlebars
6.	Saloon Gates
7.	Gate Lock
8.	Scissor Pack
9.	Fixed Drive Wheel
10.	Castor
11.	Central Braking Pedal
12.	Emergency Lowering Ratchet Handle
13.	Tie Down and Lifting Eye
14.	Level indicator
15.	Outrigger

3- Operation instructions:

3.1- Pre-Operation Checks:

- Visually inspect wheels and all around the unit up towards the guardrail. Check for any signs of damage and general wear and tear.
- Check the lock bar pedal. Step on the Pedal and push down to brake, pull up to release to Unlock. Please see Picture A
- Check the wheels/castors move freely.
- Check the axle bolt.
- Check the Level Indicator is present and clear to read. See Picture B
- Check the gates open and close freely. Ensure the fixings are not damaged.
- Check the Outriggers, ensure they deploy correctly, and retract. Please see Picture C
- Check the emergency handle is not damaged. This is situated underneath the step.
- When standing in the platform, turn the flywheel clockwise a quarter a turn and depress the foot pedal to release the locking hook then turn the flywheel anti-clockwise whilst slightly pulling up on the automatic handbrake and releasing the handbrake.
- Ensure the brake retracts to lock the handle. A simple turn of the handle will ensure this. The platform should not elevate. Please see Picture D
- To ascend and descend turn the flywheel clockwise a quarter a turn and depress the foot pedal to release the locking hook then turn anti-clockwise whilst slightly pulling up on the automatic handbrake. To ascend turn anti-clockwise and clockwise to descend. Please see Picture D.



Notes

- **Climb into the platform and maintain three points of contact.**
- **Step through the gates and ensure the gates are close behind you.**
- **Never try to pull the gates towards you.**



WARNING: IF ANY OF THE ABOVE POINTS DO NOT CONFORM TO THE OUTLINED CHECKS AND DO NOT FUNCTION CORRECTLY. DO NOT USE THE PLATFORM. INSTEAD, QUARANTINE AND CALL THE HIRE SUPPLIER

3.2- Normal Operation:

- Manoeuvre the platform into position.
- Position the platform under the working area ensuring there are no overhead obstructions or near any live electrical cables.
- Apply the brake bar. Pull and push to ensure the brakes are working correctly.
- Spirit Level; check the bubble is in within the parameters and doesn't exceed 1 degree.
- Step onto the platform whilst maintaining three contact points and step through the gates. Ensure they close firmly behind you.

3.2.1- Elevate process:

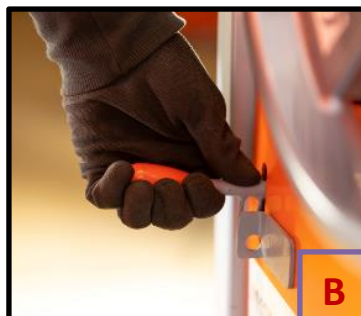
- When standing on the platform, turn the flywheel clockwise a quarter a turn and stand on the foot pedal situated on the top left-hand corner of the platform. See Picture A.
- Turn anti-clockwise whilst gently pulling on the automatic handbrake with your left hand. Turn the handle simultaneously anti-clockwise to ascend.
- To stop, release the automatic hand brake. The platform can be stopped at any preferred height. See Picture B.

Notes

- **never release the handle of the operating wheel without engaging the automatic hand brake.**
- **The foot pedal can be released once you are out of the transport position. When returning to the stowed position listen for two clicks from the foot pedal to ensure the platform is fully compressed.**



WARNING: NEVER ELEVATE THE UNIT IF THE GATES DO NOT CLOSE.



3.2.2- Lower Process:

- Maintain contact with the fly-wheel and turn clockwise whilst gently pulling upwards on the automatic hand brake. Continue to turn clockwise to lower. When recovering the platform to the transport position there is no need to continue to depress the foot pedal.

Notes

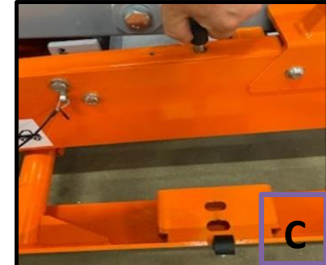
- never release the handle of the operating wheel without engaging the automatic hand brake.
- The foot pedal can be released once you are out of the transport position. When returning to the stowed position listen for two clicks from the foot pedal to ensure the platform is fully compressed.



DANGER: IT IS CRUCIAL TO ONLY OPERATE THE HANDLE FROM INSIDE THE GUARDRAILS. AT NO POINT SHOULD YOU OPERATE THE HANDLES FROM OUTSIDE THE GUARDRAIL'S CONFINES. THIS COULD RESULT IN SEVERE INJURY OR POSSIBLE DEATH.

3.2.3- Outdoor uses:

- Locate the locking pin and remove it. These are located on the opposite side of the stabilizer and within the chassis. Please see picture A.
- Locate the plunger on the Chassis. See Picture B.
- Pull Up and pull Out the stabilizer from each side. See Picture C.
- Once the stabilizer is deployed, locate the securing pin and locate it in the hole to prevent the stabilizer from retracting. See Picture D.



WARNING: WHEN NAVIGATOR IS USED OUTDOORS THE STABILISERS MUST BE DEPLOYED



DANGER:

- **NEVER USE THE NAVIGATOR 6.0 WHEN THE WIND SPEED IS GREATER THAN 12.5 M/S.**
- **NEVER ELEVATE THE PLATFORM WITHOUT THE SECURING PIN LOCATED.**

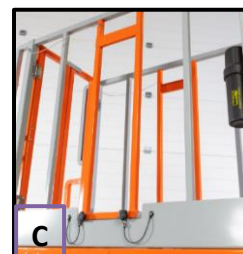
3.3- Emergency Lowering Procedure:

The emergency lowering procedure should only be actioned when the operator is incapacitated in the platform and requires immediate recovery from height.



WARNING: NEVER TRY TO RECOVER THE PLATFORM/OPERATOR WHEN IN CONTACT WITH POSSIBLE LIVE WIRES/CABLES.

- Locate the emergency lowering handle underneath the step and turn it anti-clockwise until it comes into contact with the scissor section. Please see Picture A.
- Pull the Flywheel hand brake cable to disengage the hand brake. This is located on the third scissor section. Please see Picture B.
- Continue to turn the handle anti-clockwise to screw the threaded bar to retrieve the platform. The platform will start to descend.
- Keep turning the handle but beware of the descending platform and make sure not to come in contact with it.
- When in the stowed position or at a sensible height to retrieve the operator, Disengage the Emergency Cable, by pulling on the emergency handle, this will disengage the locking handle.
- Emergency Guard. Locate and remove the bars. The bars are tethered to the guardrail, so allow them to swing down. Please see Picture C.
- Ensure the Emergency automatic hand brake is located.
- Remove the operator and seek medical advice.



Note

This action takes between 60-90 seconds for it to come into contact with the scissor and wind it down.



WARNING: DO NOT OPERATE THE EMERGENCY LOWERING BAR IF SOMEONE IS STANDING WITHIN THE CONFINES OF THE PLATFORM/SCISSOR AREA.

4- Safety Instructions:

4.1- ALWAYS:

- Conduct your daily routine checks outlined in the operating and maintenance manual.
- Ensure all instructions, warnings, and safety instructions are clean and legible.
- Operate the platform within the parameters of the machine.
- Ensure there are no obstructions/personnel that the platform may strike before and during the raising or lowering of the platform.
- Deploy the Stabilisers when using equipment outdoors. Ensure the wind rating does not exceed 12.5 m/s.
- Carry tools within the confines of the guardrail.
- Ensure the Navigator 6.0 machine is positioned on adequate ground to support the weight of the machine and its rated load.
- Keep the Navigator 6.0 machine clear of electrical cables and overhead electrical wires.
- Make sure to use the equipment on flat and level ground.
- Ascend the platform only when on flat level ground.
- Keep both hands within the confines of the platform.
- Ensure the Navigator 6.0 brake bar (located at the rear of the machine) is working before standing on the platform of the machine. Push down to lock. Pull up to unlock.
- Ensure the saloon gates close behind the operator before ascending the platform.
- Ensure the Operator wears the correct PPE.
- Ensure the safe working load is evenly distributed when ascending or descending.
- Ensure the safety of persons that may enter the area around the platform.
- Keep other vehicles clear of the work area.
- Cordon off the unit to prevent persons and vehicles from entering the area around the unit.
- Always Ensure that another responsible person on site knows how to use the emergency controls.
- Always Adhere to the emergency lowering procedure.
- Always Read and understand this user guide before using the machine.
- Always Use the lifting points provided when lifting the machine.
- Always Check that the LOLER/Thorough Examination) certification of the machine is in date before use.

4.2- NEVER:

- Elevate the Platform whilst trying to carry out work.
- Use the machine outside the parameters for which it has been designed.
- Access the working area when ascending or descending.
- Use Navigator 6.0 as a material lift.
- Modify the Navigator 6.0 to gain extra height.
- Tamper with the lifting mechanism to increase lifting capacity.
- Use Navigator 6.0 when it has been quarantined for repair.
- Use Navigator 6.0 when LOLER/Thorough Examination is out of date.
- Exceed the Safe Working Load of the platform.
- Use Navigator 6.0 when the gates are held open or not closing correctly.
- Override the anti-surfing braking system.
- Manoeuvre the machine when the platform is elevated.
- Walk off the platform onto another platform without the correct risk assessment and method statement.
- Drill or attempt to manipulate the machine, which may compromise the material.
- Allow a person on the ground to deploy the emergency descent unless there is an emergency.
- Use Navigator 6.0 as a material lift.
- Remove the scissor pack pins when unsupported and in an elevated position.
- Remove the gas struts when scissors are unsupported and in an elevated position.
- Overreach when the stabilizers have not been deployed and exceed 200 N.
- Operate the machine when overhead work is being conducted.
- Attempt to manoeuvre the Navigator 6.0 when someone is standing on the platform.
- Use the Navigator 6.0 outdoors without the Outriggers being deployed.
- Use Navigator 6.0 if the Outriggers do not deploy or are damaged in any way.
- Use the Navigator if the wheels are severely worn, damaged, or have a portion missing as this will reduce the stability of the equipment.
- Tie off to an adjacent structure or attach a wire, rope, cable, or any similar item to the structure.
- Cover the side of the Navigator 6.0 when used outdoors as this will cause the machine to become unstable.
- Never Increase the platform size with an unauthorized deck extension.
- Never Use Navigator 6.0 outside the design parameters.
- Never Operate the Navigator 6.0 above an incline of 1.0° Degrees

5- Maintenance Procedure:

5.1-Daily Maintenance:

The most critical checks as part of the daily maintenance are outlined in the pre-operation checks, Section 3.1. The most important part of the daily maintenance is the visual inspection.

5.2- Daily checks:

This should be conducted at the start of the day, or when there is a change of operator.

Visually check there is no damage to:

- Certificate: Check the manual and LOLER/Certificate of conformity is present and is in date.
- Decals: Check the decals are legible and easy to read.
- Castors: Inspect the castors and ensure they are not damaged or loose as this will reduce stability.
- Structure: Check the main unit and ensure there is no damage. Check that the structure hasn't been impacted as this will compromise the material and/or the whole unit.
- Gates: Check the gates open and close freely. Climb onto the platform and maintain three points of contact. Step through the gates and ensure the gates are closed behind you. Do not open in both directions, and lock.
- Emergency: Check the emergency lowering handle isn't damaged and that This is situated underneath the step.
- Scissor: Check the scissor structure and end caps are present.
- Chassis: Check the chassis is free from any debris.
- Brakes: Check the Central Castor brake. Manoeuvre the platform around and depress the rear brake pedal and ensure it stops. Push – Pull test.



WARNING:

- **DO NOT MANOEUVRE THE PLATFORM AROUND ON A GRADIENT OF MORE THAN 5 DEGREES BY YOURSELF. ENSURE YOU HAVE A SECOND PERSON TO ASSIST.**
- **IF ANY OF THE ABOVE DO NOT MEET THE CRITERIA, PLEASE QUARANTINE THE UNIT AND CONTACT THE HIRE SUPPLIER. FAILING TO DO SO MAY RESULT IN SEVERE INJURY OR EVEN DEATH.**

Function Checks

- Handles – Pull the automatic handbrake and release. Ensure the handbrake retracts on its own accord.
- Foot Pedal – Depress and release, ensure the pedal retracts to its normal position, and locks the platform.
- Anti-Surf Brake - Elevate the platform by 250mm to operate the anti-surf brake on the fixed wheels. Push or pull and ensure the fixed wheel brake has engaged.
- Ascent/Descent -Turn the handle a quarter of a turn clockwise and depress the foot pedal. Gently pull on the handle brake and turn the flywheel anti-clockwise to elevate. To Stop, release both the flywheel and handle brake simultaneously to stop elevation at the preferred height. To descend, repeat the process in reverse but turn the handle clockwise.
- Emergency Lowering - Place someone standing in the confines of the guardrail on the platform. Elevate the platform high enough to enable you to operate the emergency lowering handle. Pull on the handle to disengage the handle lock, Next, turn the handle anti-clockwise and lower the platform to the stowed position. To return to its normal use, reengage the handle lock, and return the lowering bar to the full elevation position.
- Stabilizers – Deploy and retract correctly.



WARNING:

- **IF ANY OF THE DAILY CHECKS OR MONTHLY CHECKS DO NOT COMPLY, QUARANTINE THE MACHINE AND CONTACT THE HIRE SUPPLIER. FAILING TO DO SO MAY RESULT IN SOMEONE BEING SEVERELY INJURED OR RESULT IN DEATH.**

5.3- Monthly Maintenance:

Carry out the Daily Checks 1-9 and Function Checks 1-7

Lifting Mechanism, Chain:

- Remove the Tool Tray.
- Remove the Front and Rear covers and ensure put them in a place where they cannot be damaged or lost.

Using a Torch:

- Inspect the chain and ensure this is free from debris and corrosion. If it is found to be dry and/or slightly corroded apply lubricant along the length of the chain.
- Inspect the gear teeth and ensure they are not damaged and are free from debris and corrosion. If slightly corroded and dry, apply lubricant to the gear mechanism in a circular movement. (Please Note: It may be essential for someone to elevate the platform to allow you to apply lubricant adequately to the whole gear.)
- Inspect the condition of the handbrake, foot pedal springs, and gas struts. The emergency lowering system can be used as ground control to assist in this task:
 - Step into the platform and release the platform lock. Follow the elevating instructions to release.
 - At a sensible height of 100mm step out of the platform maintaining three points of contact.
 - Wind the emergency handle anti-clockwise until it comes into contact with the scissor pack.
 - Release the emergency cable and begin to wind the handle clockwise to allow the platform to elevate safely.
 - Stop turning the handle when lowered and release the Emergency Lowering cable and lock off.
 - If you are carrying out major maintenance on the scissor pack, please ensure to deploy the safety prop.



WARNING:

- **ANY REPAIRS SHOULD BE CARRIED OUT BY A TRAINED COMPETENT PERSON. ALL SPARE PARTS CAN BE PURCHASED FROM THE MANUFACTURER AND OEM PARTS SHOULD ONLY BE USED WHEN PARTS ARE BEING REPLACED.**

5.4- Maintenance Frequency Table:

Maintenance Frequency Table			
Item	Daily	Monthly	6 Month (LOLER/Thorough Examination)
Manual	•	•	•
LOLER certificate	•	•	•
Visual (Welds, Safety-Critical Fixings)	•	•	•
Spirit Level	•	•	•
Castor Condition	•	•	•
Gates, Guardrails	•	•	•
Central Castor Pedal (Push-Pull)	•	•	•
Scissor Pack Inspection	•	•	•
Emergency Lowering	•	•	•
Function Test	•	•	•
Cantilever	•	•	•
Gear Mechanism Inspection		•	•
Safe Working Load (120%)			•

5.5- Pre-Delivery Report:

Please see attachment Sub Section 1.0.

5.6- LOLER (Thorough Examination) Report:

Please see attachment Sub Section 1.1

5.7- Safety Critical Fixings Torque Table:

Safety Critical Fixings Table			
Location	Fixing	Torque	Comment
Castor Mounting Plate	M8	30 Nm	New Nyloc Nut When replacing Fixings
Castor Axle Bolt	M12	40 Nm	New Pinch Nut when replacing fixings
Scissor Pivot Bolt	M28	50 Nm	
Fixed Wheels Nut	M20	50 Nm	New Nyloc Nut when replacing fixing or wheel

6- Transportation and Manoeuvring Instructions:

Navigator 6.0 has an anchor and tie-down point on the chassis as well as forklift pockets. It is up to the owner's discretion how they wish to transport the machine from site to site. However, please ensure that the following risks are outlined throughout the risk assessment and method statement. See the primary components to identify the anchor, tie-down, and fork-lifting pockets.

When manoeuvring around and above an inclination of 2 degree's. It is advised to use a second person.

7- Warranty Terms:

Except as otherwise provided in this Section 7, any Goods sold hereunder which (1) at the Installation Site, (2) have been properly installed and maintained by authorized persons, and (3) have been operated within the limits of rated and normal usage, are warranted to conform to Seller's quoted Technical Specifications and to be free of defects in material and workmanship, as determined by Seller's inspection, as follows:

- Twelve (12) months warranty on Parts and Labour (24 months is available for an additional fee).
- Two (2) years structural warranty.

which comes into effect upon installation completion.

All repairs covered by this warranty must be carried out at the Company's factory, or other such warranty repair facilities the of Company as designated by the Company unless the Company specifically directs that this service be performed at another location. Any defect corrected within three hundred and sixty (360) days and found to be within this scope of the warranty will be repaired by Company and all charges for labour and material will be borne by Company. If it is determined that either no fault exists, or the damage to be repaired was caused by:

- modifications carried out without the manufacturer's approval,
- damage caused by abuse or misuse, or by accidentally dropping the machine from any height.
- the use and installation of non-OEM-approved parts
- negligence,
- tampering, or alterations

by the Purchaser, its agents, employees, or customers, the Purchaser agrees to pay all charges associated with each such repair.

THIS CONSTITUTES THE SOLE WARRANTY MADE BY THE COMPANY EITHER EXPRESSED OR IMPLIED. THERE ARE NO OTHER WARRANTIES EXPRESSED OR IMPLIED WHICH EXTEND BEYOND THE FACE HEREOF, HEREIN, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT THE ALL COMPANY BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGE AND THE PURCHASER'S REMEDIES SHALL BE LIMITED TO THE REPAIR OR REPLACEMENT OF NONCONFORMING UNITS OR PARTS.

7.1- Warranty Transportation:

It is the Owner's responsibility to arrange transportation back to the manufacturer's premises to undergo any warranty inspection and repair. The manufacturer can arrange this, but this will be chargeable.

7.2- Warranty Process:

When claiming for a warranty repair or sending an access platform back for inspection, the following information must be given to the manufacturer:

- Serial Number.
- Order Number.

Failure to do so will result in the warranty claim not being processed.



DANGER:


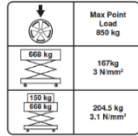






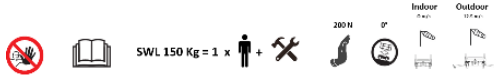
- **IF THE NAVIGATOR HAS BEEN SEVERELY DAMAGED AND MAJOR PARTS OF THE STRUCTURE HAVE BEEN REPLACED, THEN THE NAVIGATOR 6.0 SHOULD BE RE-LOLERED/THOROUGH EXAMINATION EVEN IF THE ACCESS PLATFORM HAD AN IN-DATE CERTIFICATE.**
- **ANY MAJOR STRUCTURAL REPAIRS CARRIED OUT AND THEN THE PLATFORM SHOULD BE RELOLERED/THOROUGH EXAMINATION AND CERTIFIED.**

8- Decal Placement:

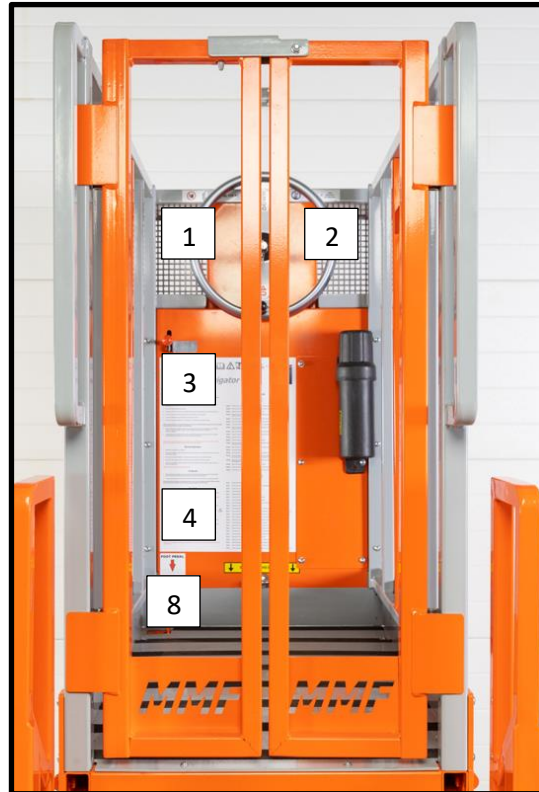
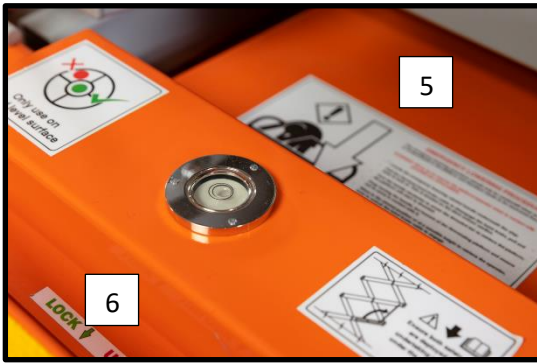
The Decals are to be placed on both the left and right-hand of the Navigator 6.0.



8.1- Side Elevation:

1.	Emergency Guardrails							
2.	Castor, Fixed Wheel loading	 <table border="1"> <tr> <td>↓ 660 kg</td> <td>Max Point Load 850 kg</td> </tr> <tr> <td>↓ 167kg 3 N/mm²</td> <td></td> </tr> <tr> <td>↓ 1750 kg 660 kg</td> <td>204.5 kg 5.1 N/mm²</td> </tr> </table>	↓ 660 kg	Max Point Load 850 kg	↓ 167kg 3 N/mm²		↓ 1750 kg 660 kg	204.5 kg 5.1 N/mm²
↓ 660 kg	Max Point Load 850 kg							
↓ 167kg 3 N/mm²								
↓ 1750 kg 660 kg	204.5 kg 5.1 N/mm²							
3.	Stabilizers							
4.	Forklift Pockets							
5.	Tie down/Lifting Point							
6.	Keep Clear							
7.	Hand Trap (Upright on the Chassis)							
8.	Safety Prop	 <p>Ensure the safety prop is deployed as shown before undertaking any maintenance under the raised platform.</p>						
9.	Front Edge Platform							

8.2- Front / Back Elevations:



Please Note: Located on the cover above the Emergency Lowering Handle.

1.	Handle Direction Up LHS		5.	Emergency Lowering Procedure (Upright on the chassis)	
2.	Handle Direction Down RHS		6.	Central Brake Pedal	
3.	Hand Brake		7.	Spirit Level 3 (On the right-hand corner of the Chassis)	
4.	Main Info Sheet (A3)		8.	Foot Pedal	

1.0 Daily Inspection/PDI Check sheet

The Check sheet is to be used as part of a daily inspection at the beginning of each shift, or the change of operative. This is to be conducted by a competent Operative who is using the product and is familiar with it.

Please Keep an up-to-date record and report any discrepancies to your line manager. A dirty Navigator cannot be inspected correctly.

WARNING: FAILING TO COMPLETE THE DAILY INSPECTION OR INSPECTION WHEN CHANGING AN OPERATIVE MAY LEAD TO INJURY OR DEATH.

Model **Serial Number**.....

Y-Yes Acceptable N-No Unacceptable R- Repaired	Y	N	R
Visual Inspection			
Check the Manual and Certs 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 are open closed lose and not damaged			
Check the platform for damage and debris, and check the function handles, foot pedal, and Is for damage			
Check the flywheel			
Check and inspect the Tool tray and cover for damage.			
Check the tires. Any missing tread chunks will reduce the stability			
Check and inspect the emergency lowering handle for damage.			
Function Tests			
Operate the Central Castor Brake Pedal and ensure the brakes operates correctly. Push – Pull/hold			
Step into the platform. Maintain three points of contact.			
Operate the foot Pedal and release. Ensure it retracts to the original position and locks off			
Operate the hand brake and release. Ensure it retracts to the original position and locks off			
Operate both brakes simultaneously and elevate the platform 250mm. Ensure the anti-surf brakes have been deployed			
Deploy the Stabilizers and ensure they lock off.			
Retract the stabilizers.			
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.			
Whilst the Platform is elevated ensure the gravity lock has deployed and the gates do not open when elevated.			
Emergency Lowering Procedure			
Someone on the platform operates the emergency lowering procedure. <ul style="list-style-type: none"> • Locate the Emergency Lowering Handle underneath the step. • Start to turn clockwise to recover the platform • Stop at a sensible height • Deploy the emergency guardrails 			
Date:	Inspected By:		

Navigator 6.0															
LOLER (Thorough Inspection) Report.															
Product Owner/User Name & Address															
Serial Number:				Customer No. :				Owner/User							
Machine Model:															
Hour Meter Reading:															
INSPECTION TYPE:				LOLER (Inspection Date)				LOLER (Previous Inspection Date)							
LOLER				Must be carried out by a competent technician or qualified CAP engineer.											
FREQUENCY				Frequency Inspection of this machine every six months (LOLER/Thorough Inspection).											
Check each item below. (Refer to Operators & Safety, Service & Maintenance Manuals for specific information regarding inspection procedures and criteria.) Indicate in the appropriate space as each item has been performed.															
If the item is found to be unacceptable, describe each discrepancy in the comments space at the bottom of the form. Use additional paper if necessary. Immediate action must be taken to correct all discrepancies. The owner shall not place the machine in service until all discrepancies have been corrected.															
Y=Yes (Passed) N=NO (Failed) C=Corrected NA=Not Applicable				Y N C NA				Y=Yes (Passed) N=NO (Failed) C=Corrected NA=Not Applicable				Y N C NA			
GENERAL				CHASSIS				MANUALS.							
1. Lift is free of unauthorized modifications or additions.				1. Wheel axle bolts and fixings bolts properly, please see the manual for torque values				1. Manual of Responsibilities in a manual storage box.							
2. Paint and overall appearance.				2. Check tires for damage & wear. (no more than 10 mm +/-)				2. Operators & Safety Manual in a manual storage box.							
3. Applicable Safety Bulletins completed.				3. The castor and fixed wheels move freely and the braking system is working correctly. To test, press the central castor pedal to brake, Push – Pull /Hold. To release, Pull Up on the pedal and push the product.				3. OEM Handbook in a manual storage box.							
4. Inspect general structural condition including all welds.				4. Anti-surf brake. To test, elevate the platform 100 mm to activate the anti-surf brake, please ensure to operate the handle from inside the guardrail and with a payload within the platform				4. Capacity decals in place, secure & legible at both ground & platform stations							
5. All safety-critical fixings are present and tight.				5. Ensure the emergency lowering mechanism is in working order and is free from debris				5. All instruction & safety placards are installed & legible.							
6. Wheels are in good serviceable condition.				6. Spirit Level, ensure the spirit level is in working order and easily readable.											
7. Gates Open and Close freely, and the lock mechanism retracts.												COMMENTS:			
				<u>FUNCTIONS</u>											
Comments.				1A. Flywheel handbrake: disengage the handbrake and release to ensure the handbrake engages.											
				2. Foot Pedal. disengage the handbrake and release it to ensure the handbrake engages.											
<u>PLATFORM ASSEMBLY</u>				3. Turning Handle; With the Flywheel handbrake disengaged and turn the flywheel anticlockwise to elevate and clockwise to descend, at any point release both mechanisms to stop at the desired height, ensure the platform stops.											
				4. Elevate the platform and ensure the gravity lock has operated											
1. Platform installed & Emergency rails are secure				5. Emergency Lowering Procedure. With someone in the confines of the guardrail. Operate the emergency lowering mechanism by turning the handle clockwise to Lower											
2. Covers are secured and undamaged				6. Remove the covers to the flywheel and inspect the mechanism and lightly spray the chain with chain grease.											
3. Gates Open and Close freely, and the lock mechanism retracts.				Wind-rated stabilizers operate and lock out when deployed.											
Comments.				8. SWL test; with 120% of the SWL. Elevate the platform to full height and release the handle. Ensure the platform locks off and supports the weight.											
<u>SCISSOR ARMS</u>															
1. Scissor arms free of damage, cracks and distortion.				<u>Gas Struts</u>											
2. Arm safety props operational.				1. All Struts are free of leaks and damage.											
3. Cylinder pins, pivot pins & attaching hardware secure & undamaged				2. Struts safety fixings are torqued.											
4. Arm circlips, wear pads & attaching hardware secure & undamaged.				3. Strut housing brackets move freely with the cylinder.											
The undersigned certifies that this machine has been tested to EN 280 per each area of inspection, and any discrepancies have been brought to the attention of the Owner/User and all discrepancies have been rectified.															
Owner/User:				Print Name:				Date							
Authorised Signature:															