snorkel

MHP14AT
MHP13AT
TL39



OPERATIONS MANUAL

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Appendix A. Glossary

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■ Specifications MHP13AT

SPECIFICATIONS	MHP13AT	
Nominal working height	12.9m	42.3'
Maximum height to basket floor	10.9m	35.8'
Maximum outreach	6.4m	21.0'
Maximum width of base		
Stabilisers retracted	1.6m	5.2'
Stabilisers extended	3.6m	11.8'
Safe working load (unrestricted)	215kg	474lbs
Platform size	1.15 x 0.70m	3.8' x 2.3'
Construction	Steel	Steel
Travelling height	2m	6.6'
Overall length	4.7m	15.4'
Maximum towing speed	80km/h	50mph
Turntable rotation	540° Non continuous	
Trailer tongue weight (approximately)	Less than 100kg	Less than 225lbs
Maximum rated axle capacity	2000kg	4409lbs
Insulation rating	Nil (on standard models)	
Weight	1460kg (Petrol model)	3218lbs (Petrol model)
Allowable manual force	400N	
Maximum permitted chassis inclination	1°/1°	
Maximum load on stabilisers	978kg	2156lb

☐ Recommended hydraulic oil

Shell Tellus 32 or Castrol AWS 32 or similar.

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At the start of each work day (or 8 hour shift) an MHP or TL qualified operator must perform the Pre-Operational Inspection as listed in the table below.

The purpose of the Pre-Operational Inspection is to keep the MHP or TL in proper working condition and to detect signs of malfunction at the earliest possible time.

This chapter shows how to perform the inspection and maintenance required for each item in the Pre-Operational Inspection table.

The MHP or TL should be in the stowed position and the master key switch set to off before you begin this inspection.

Defective parts and/or equipment malfunctions jeopardize the safety of the operator and other personnel, and can cause damage to the machines.

⚠ WARNING

Do not operate an MHP or TL that is known to be damaged or malfunctioning. Repair all equipment damage or malfunctions, before placing the MHP or TL into service.

■ Pre-Operational Inspection Table

Item	Service Required
Stabiliser/Boom interlock test	Perform the test to ensure the system is functioning
Engine fuel level	Look to see that the fuel tank is full
Fuel tank cap	Check to see that the cap is tight
Engine oil level	Check oil level (between dipstick lines)
Fuel leaks	Visually inspect (hoses and connections)
Engine cooling	Check that grills are not blocked
Wiring harnesses	Visually inspect (installation, condition)
Battery terminals	Visually inspect (no corrosion)
Battery fluid level	Check fluid level (1/4" or 6 mm below filler neck)
Hydraulic oil level	Visually inspect level (between lines on decal)
Hydraulic oil leaks	Visually inspect (hoses, tubes)
Tires and wheels	Visually inspect (condition)
Tire pressure	Check pressure (measure)
Bolts and fasteners	Visually inspect (condition)
Structural damage and welds	Visually inspect (weld cracks, dents)
Lanyard anchor points	Visually inspect (condition)
Platform gravity gate	Check condition and operation
Platform guardrails	Visually inspect (condition)
Flashing light (option)	Visually inspect (operation)
Ground control switches	Actuate and inspect for proper operation
Ground control valve levers	Check operation (causes correct motion)
Ground emergency lower	Check operation (causes correct motion)
Emergency lower	Check operation (causes correct motion)
Platform control box switches	Actuate and inspect for proper operation
Platform emergency lower	Check operation (causes correct motion)
RCD/ELCB AC outlet (option)	Check operation
Platform work lights (option)	Check operation
Placards and decals	Visually inspect (installation, condition)
Platform entry ladder	Visually inspect (condition)

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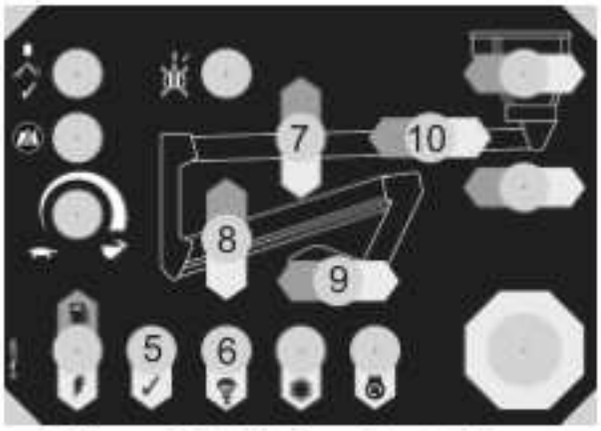


Figure 9.5 - Platform Control Box

6. Whilst still operating the enable switch, press and hold the emergency lower switch (6) down (see figure 9.5) and the booms will begin lowering.

7. To slew during the emergency lower the following switches (see figure 9.5) must be operated together.

Enable (5) or (4) (foot switch - figure 9.3)
Emergency lower (6)
Upper or lower boom (7) or (8)
Slew (9)

8. To tele during emergency lower the following switches (see figure 9.5) must be operated together.

Enable (5) or (4) (foot switch - figure 9.3)
Emergency lower (6)
Upper or lower boom up (7) or (8)
Tele (10)

Both booms will descend at the same time when lowering.

⚠ IMPORTANT

Slewing and / or telescoping the boom in must be completed before the booms are fully lowered.

☐ **Operation from the ground control position**

⚠ CAUTION

When performing this function, extreme care must be taken to ensure that the person carrying out the task does not become trapped by the structure as the booms descend.

⚠ DANGER

Do not, under any circumstances, climb down the elevating assembly to operate these valves.

There are two main bleed down valves to operate from the ground position.

One controls the descent of the lower boom and the other controls the descend of the upper boom.

The lower boom must be lowered first.



Figure 9.6.1 - Manual Lower Valve, Lower Boom

1. Open the manual valve (1) to lower the lower boom (see figure 9.6.1). This valve is located at the base of the main lift cylinder. To operate this valve, push in the red knurled knob and turn it anti clockwise 180 degrees and release it. The lower boom will begin to descend.

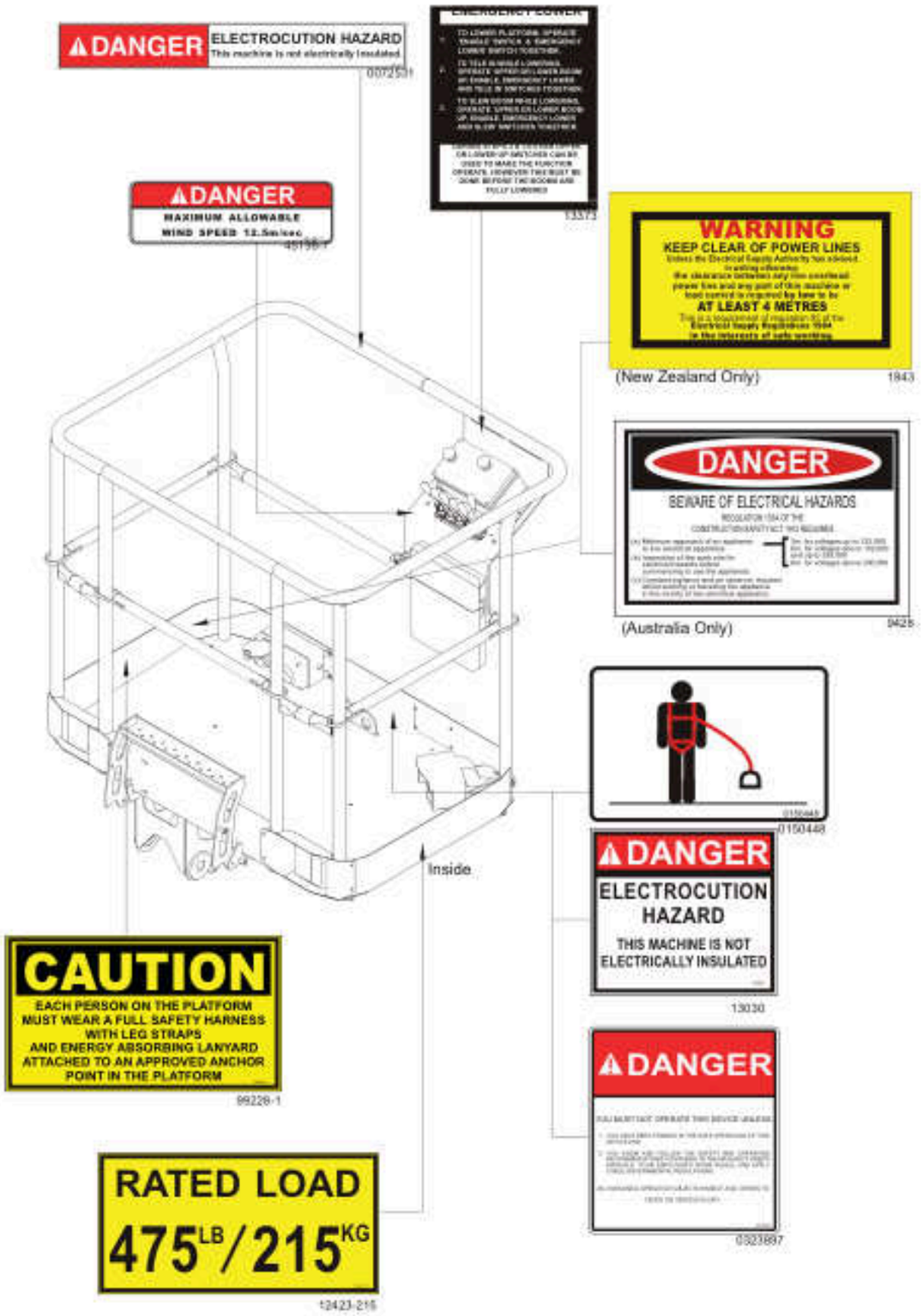
When the lower boom has fully descended you can open the valve for the upper boom (see figure 9.6.2).



Figure 9.6.2 - Manual Lower Valve, Upper Boom

2. Open the manual valve to lower the upper boom. This valve is located at the base of the main lift cylinder for the upper boom in the floating turret. Operation of this valve is the same as for the previously described lower boom. The upper boom will begin to descend.

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SAFETY RULES

⚠Warning

All personnel shall carefully read, understand and follow all safety rules and operating instructions before operating or performing maintenance on any Snorkel aerial work platform.

Electrocution Hazard	Tip Over Hazard	Collision Hazard	Fall Hazard
			
THIS MACHINE IS NOT INSULATED!	**NEVER** elevate the platform or drive the machine while elevated unless the machine is on a firm, level surface	**NEVER** position the platform without first checking for overhead obstructions or other hazards.	**NEVER** climb, stand, or sit on platform guardrails or midrail.

USE OF THE AERIAL WORK PLATFORM: This aerial work platform is intended to lift persons and his tools as well as the material used for the job. It is designed for repair and assembly jobs and assignments at overhead workplaces (ceilings, cranes, roof structures, buildings etc.). Uses or alterations to the aerial work platform must be approved by **Snorkel**.

THIS AERIAL WORK PLATFORM IS NOT INSULATED! For this reason it is imperative to keep a safe distance from live parts of electrical equipment!

Exceeding the specified permissible maximum load **is prohibited!** See "Platform Capacity" for details.

The use and operation of the aerial work platform as a lifting tool or a crane **is prohibited!**

NEVER exceed the manual force allowed for this machine. See "Manual Force" for details.

DISTRIBUTE all platform loads evenly on the platform.

NEVER operate the machine without first surveying the work area for surface hazards such as holes, drop-offs, bumps, curbs, or debris; and avoiding them.

OPERATE machine only on surfaces capable of supporting wheel loads.

NEVER operate the machine when wind speeds exceed this machine's wind rating. See "Beaufort Scale" for details.

Do not operate the aerial platform in windy or gusty conditions. Do not add anything to or take anything into the aerial platform that will increase the wind loading such as billboards, banners, flags, etc.

IN CASE OF EMERGENCY push EMERGENCY STOP switch to deactivate all powered functions.

IF ALARM SOUNDS while platform is elevated, STOP, carefully lower platform. Move machine to a firm, level surface.

Climbing up the railing of the platform, standing on or stepping from the platform onto buildings, steel or prefab concrete structures, etc., **is prohibited!**

Dismantling the entry gate or other railing components **is prohibited!** Always make certain that the entry gate is closed!

It is prohibited to keep the entry gate in an open position when the platform is raised!

To extend the height or the range by placing of ladders, scaffolds or similar devices on the platform **is prohibited!**

NEVER perform service on machine while platform is elevated without blocking elevating assembly.

INSPECT the machine thoroughly for cracked welds, loose or missing hardware, hydraulic leaks, loose wire connections, and damaged cables or hoses before using.

VERIFY that all labels are in place and legible before using.

NEVER use a machine that is damaged, not functioning properly, or has damaged or missing labels.

To bypass any safety equipment **is prohibited** and presents a danger for the persons on the aerial work platform and in its working range.

NEVER charge batteries near sparks or open flame. Charging batteries emit explosive hydrogen gas.

Modifications to the aerial work platform **are prohibited** or permissible only at the approval by **Snorkel**.

AFTER USE, secure the work platform from unauthorized use by turning the keyswitch off and removing key.

The driving of MEWP's on the public highway is subject to national traffic regulations.

Certain inherent risks remain in the operation of this machine despite utilizing proper design practices and safeguarding.

Harness attachment points are provided in the platform and the manufacturer recommends the usage of a fall restraint harness, especially where required by national safety regulations.

Care must be taken to ensure that the machines meets the requirements of stability during use, transportation, assembly, dismantling when out of service, testing, or foreseeable breakdowns.

In the event of an accident or breakdown see "Emergency Operation." Do not operate the aerial platform if it is damaged or not functioning properly. Qualified maintenance personnel must correct the problem before putting the aerial platform back into service.

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