Snorkel

NEW ZEALAND

Operator's Manual

MHP14AT
MHP13AT

Engine Powered

Gasoline, Diesel,

Battery Electric,

Bi-Energy Options



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3. Specifications

■ 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)

❑ 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 MHP14AT / MHP13AT 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 MHP14AT / MHP13AT in proper working condition and to detect signs of malfunction at the earliest possible time.

The MHP14AT / MHP13AT 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 machine.

⚠DANGER

DO NOT operate an MHP14AT / MHP13AT that is known to be damaged or malfunctioning.

Repair all equipment damage or malfunctions, before placing the MHP14AT / MHP13AT into service.

■ Pre-operational Inspection Table

Item	Service Required
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 ❻ 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 ❺ or ❹ (foot switch - Figure 9.3)
   Emergency Lower ❻
   Upper or Lower Boom Up ❼ or **❽**
   Slew ❾
8. To **TELE** during emergency lower the following switches (see Figure 9.5) must be operated together.

   Enable ❺ or ❹ (foot switch - Figure 9.3)
   Emergency Lower ❻
   Upper or Lower Boom Up ❼ or **❽**
   Tele ❶❿

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 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 manual bleed down valves to operate from the ground position.

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

The lower boom must be lowered first

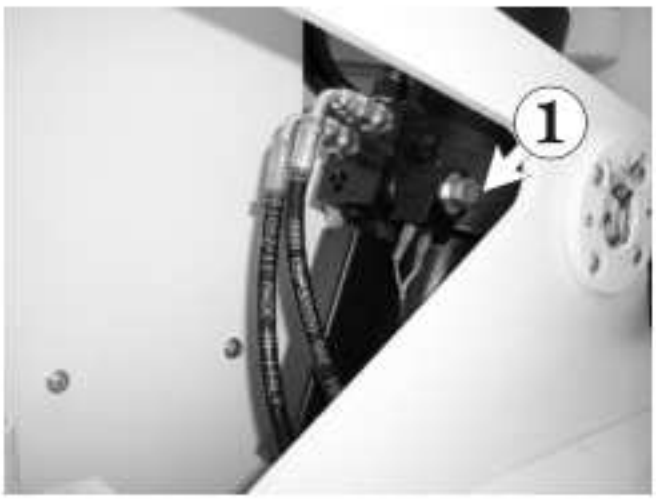


Figure 9.6.1 - Manual Lower Valve, Lower Boom

1. Open manual valve ❶ to lower the lower boom (see Figure 9.6.1). This valve is located at the base of the main lift cylinder.

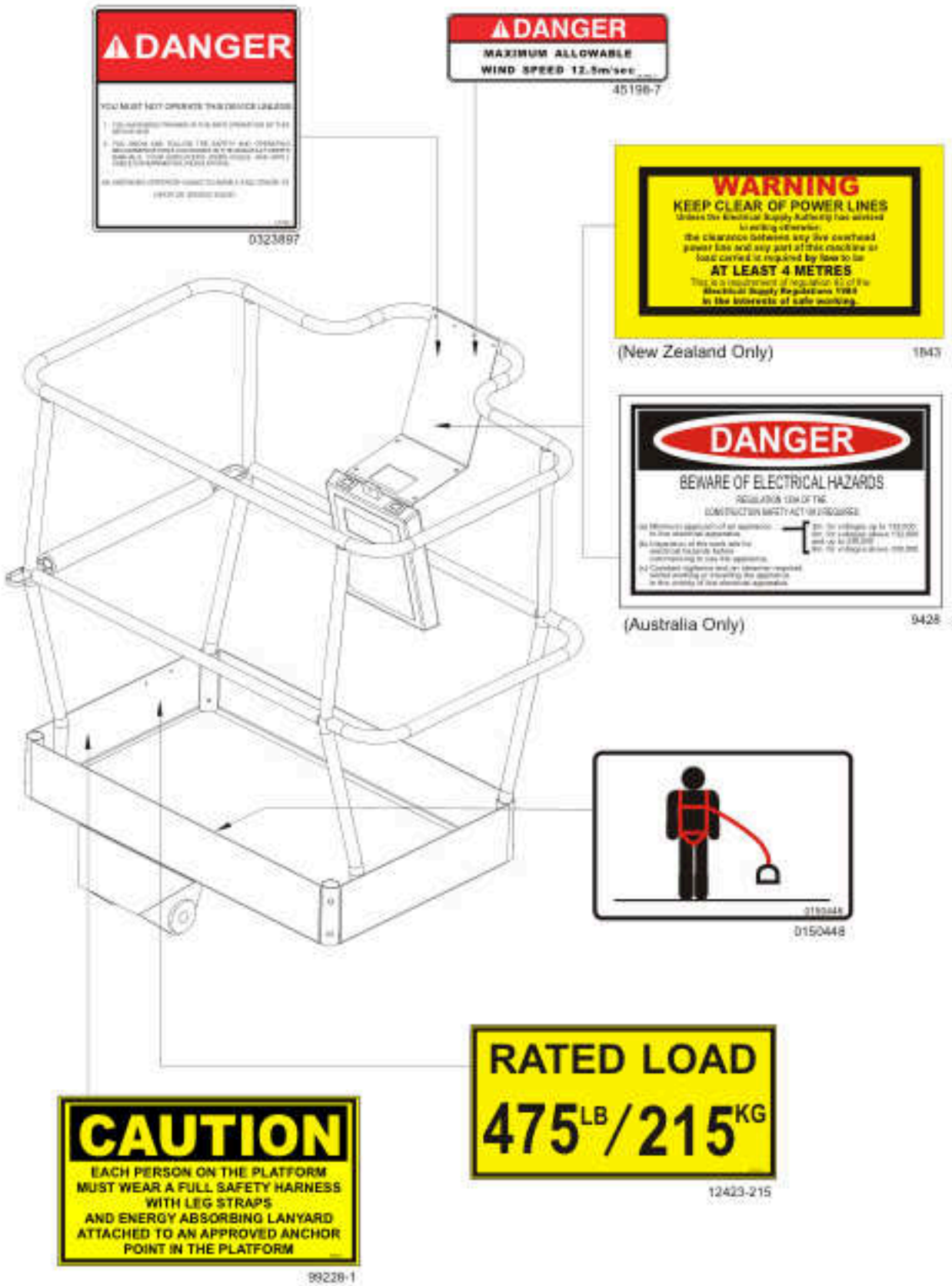
   To operate this valve push in the red knurled knob and turn it anti-clockwise 180 degrees and release it. The lower boom will begin to descend.

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

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■ Controls Description

This chapter explains what each control does.

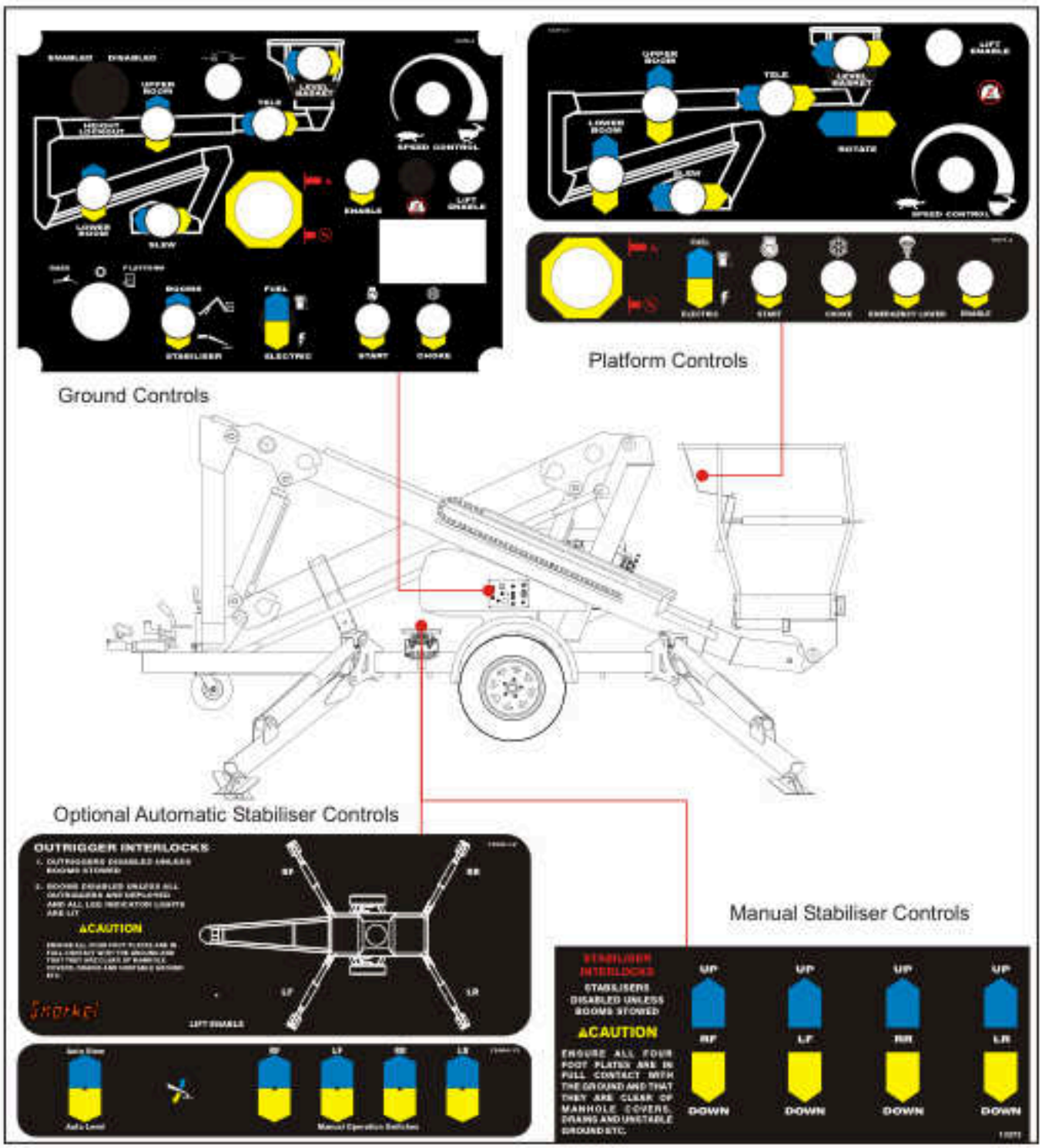
This chapter **DOES NOT** explain how to use the controls to produce useful work, refer to the "Operation" chapter 8 for that after you have read this chapter.

For optional equipment controls, see the "Options" chapter.11

See the "Emergency Operation" chapter 9-1 for the location of the emergency bleed down control and for correct emergency bleed down procedures.

The main operating functions of an MHP14AT / MHP13AT can be controlled from the ground control box or from the platform control box.

❑ Controls and Control Decal Locations



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