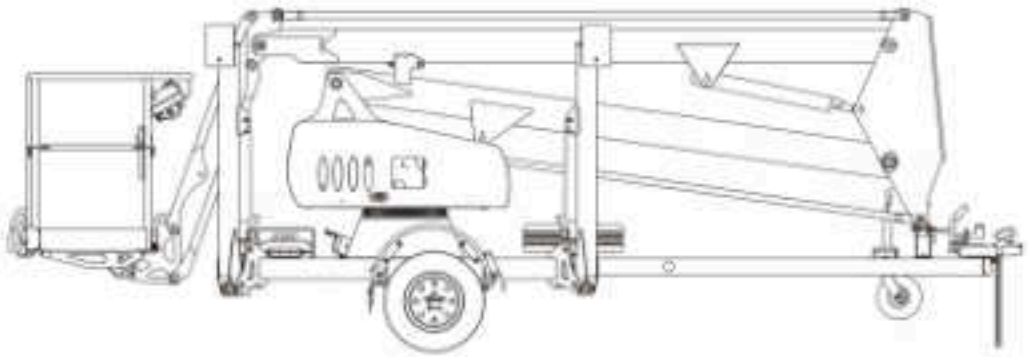
snorkel

MHP1335
MHP1544



Diesel
Gasoline
Battery Electric
Bi-Energy Options

OPERATION MANUAL

Part Number 13619-1
November 2012 (Rev C)
Version 3

Serial Number MHP1335-07-000003 and after

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Appendix A. Glossary

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3. Specifications

■ General Specifications

SPECIFICATIONS	MHP15/44 V3	
Working height	15.4m	50'
Platform height	13.4m	44'
Rated load	227kg	500lb
Rated load (with rotator)	200kg	440lb
Platform size	1.2 x 0.7 x 1.14m	4' x 2' 6" x 3' 7"
Platform construction	Steel	
Platform levelling	Mechanical	
Boom type	Articulating	
Horizontal reach	6.45m at 8m	21' 1" at 26' 3"
Maximum wind speed 12.5m/s	45kph	28mph
Turntable rotation	540° non-continuous or 360° continuous	
Power source (std.)	Gasoline engine 5.5hp	
Hydraulic system	Proportional electro/hydraulic	
Stabilisation	4 independently operated hydraulic outriggers with safety interlocks	
Stabiliser footprint (max.)	3.7 x 3.6m	12' 1" x 13' 9"
Standard colour	Snorkel orange base and covers, white turret and booms	
Transport height	2.1m	6' 10"
Overall length	7.45m	24' 5"
Overall width - outriggers extended	3.95m	13'
Overall width - outriggers stowed	1.77m	5' 9"
Tyre size	185 x R14	
Brakes	Hydraulic disc	
Maximum towing speed	90kph	55mph
Maximum rated axle capacity	2000kg	4409lb
Weight (standard model)	1500kg (approx)	3306lb (approx)
Insulation rating	Nil	
Trailer tongue weight	90kg	198lb
Maximum outrigger load	1040kg	2292lb
Maximum chassis inclination	1°/1°	
Maximum allowable manual force	400N	

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At the start of each work day (or 8 hour shift), an MHP13/35 / MHP15/44 V3 qualified operator must perform the Daily Inspection and Maintenance as listed in the table below.

The purpose of the Daily Inspection and Maintenance is to keep the MHP13/35 / MHP15/44 V3 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 Daily Inspection and Maintenance Table.

The MHP13/35 / MHP15/44 V3 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.

⚠WARNING

The potential for an accident increases when operating an MHP that is damaged or malfunctioning. Death or serious injury can result from such accidents. Do not operate an MHP that is damaged or malfunctioning.

■ Daily Inspection and Maintenance 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)
Operator's manual	Check that it is in the holder on the machine
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 gauge)
Hydraulic oil leaks	Visually inspect (hoses, tubes)
Tyres and wheels	Visually inspect (condition)
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
Level sensor (option)	Check operation
Emergency lower	Check operation (causes correct motion)
Platform control box switches	Actuate and inspect for proper operation
RCD/ELCB AC outlet (option)	Check operation
Platform work lights (option)	Check operation
Placards and decals	Visually inspect (installation, condition)

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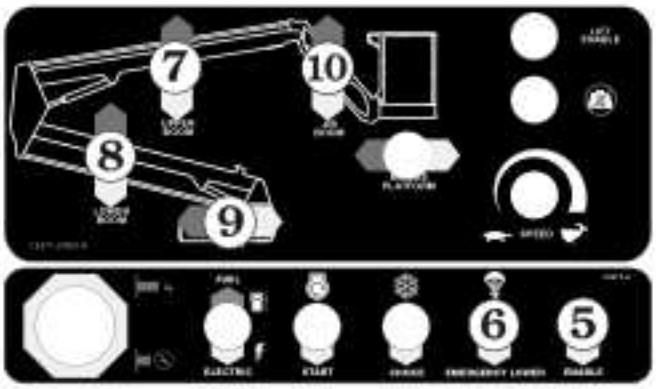


Figure 9.5 - Platform Control Box

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 Lower the jib boom 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**
   Jib ❶❿

Both booms will descend at the same time when lowering.

NOTE:

When emergency lowering, it is only possible to Slew or lower the Jib Boom whilst the Upper and Lower booms are lowering.

❑ 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.

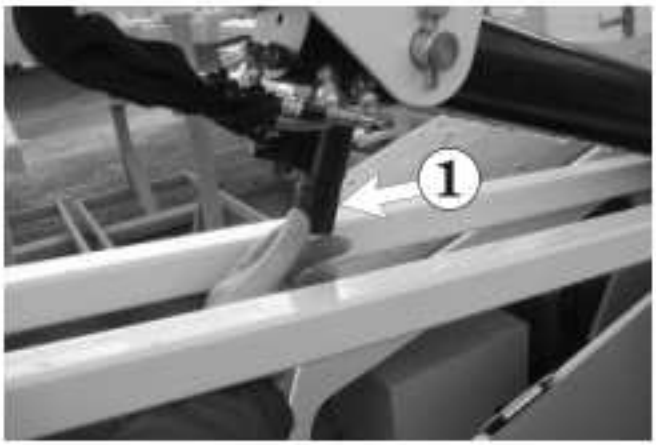


Figure 9.5 - Manual Lower Valve, Lower Boom

1. Open manual valve to lower the platform by turning the knob clockwise and holding it in that position as the boom lowers.

⚠CAUTION

You will need to access the valve by reaching through the levelling rods (as shown in Figure 9.5) to prevent any danger of crushing to your hand.

2. When the boom has fully descended you can open the valve for the upper boom (see Figure 9.5.2).

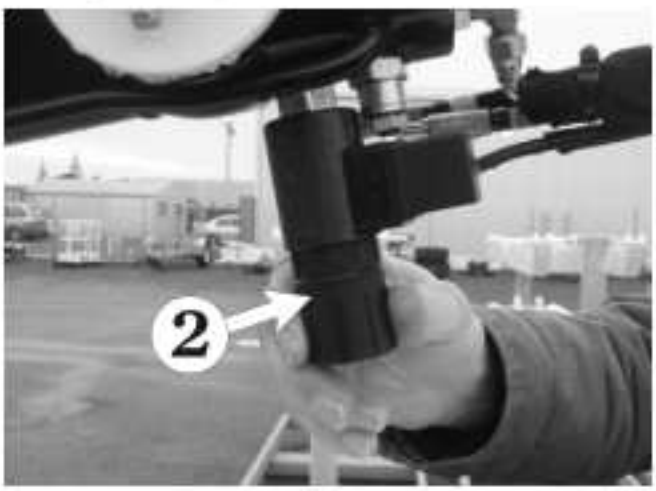
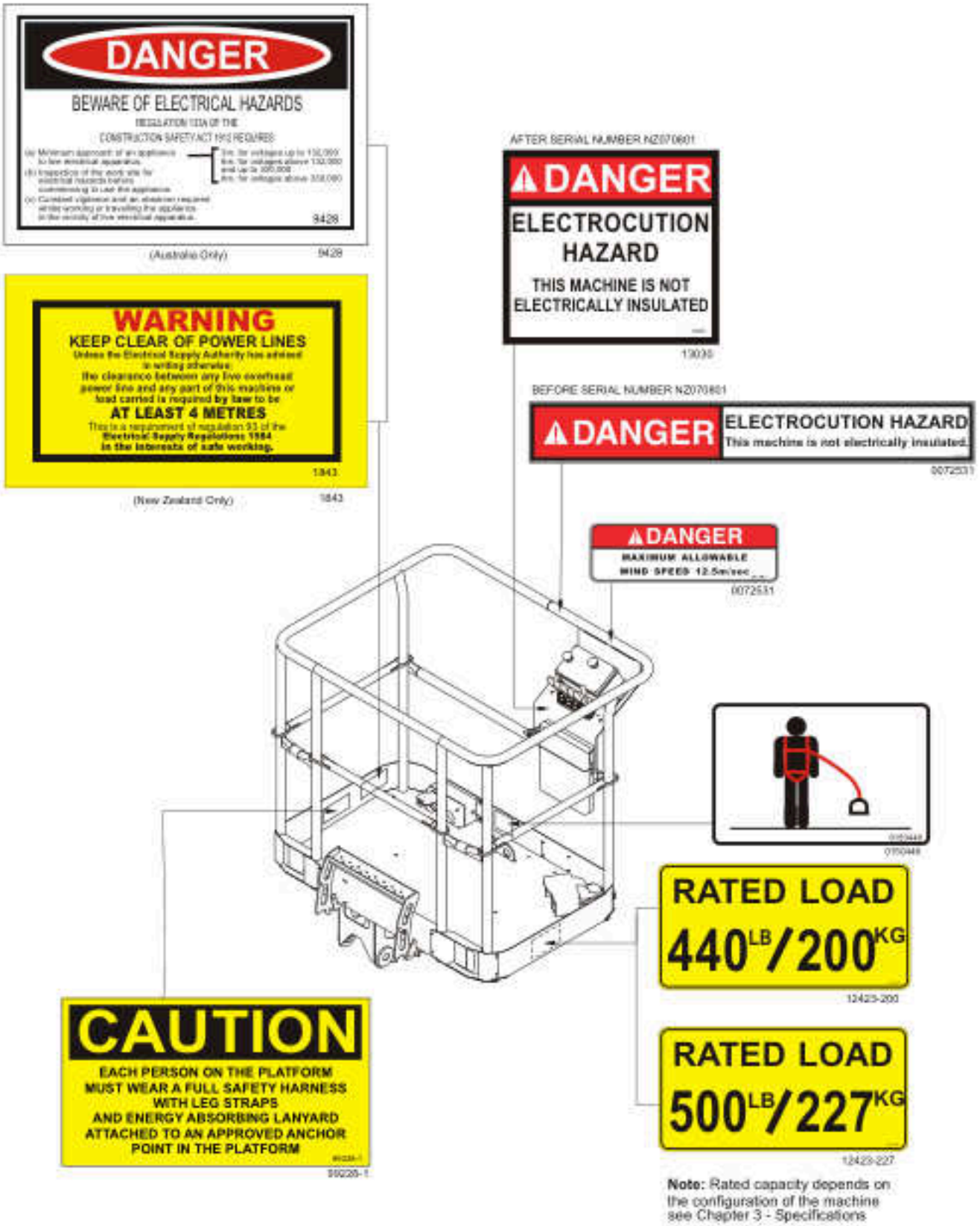


Figure 9.5.2 - Manual Lower Valve,Upper Boom

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NOTE:

Refer to Placards and Decals Inspection Chart and Drawing in the "Daily Inspection and Maintenance" chapter 7, for part numbers, location, and required quantities of all placards and decals.

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■ Emergency Operation Procedures

The following procedures are emergency procedures only. **DO NOT** use them for normal operation. Their purpose is to get the platform and operator safely to ground when the MHP13/35 / MHP15/44 V3 will not start or some other problem keeps the platform from lowering in the normal way.

❑ Operation From Platform Control Box

Switch settings listed in the two (2) steps below must exist at the ground before emergency operation procedures will work at the platform control box:

➟ Ground control station settings

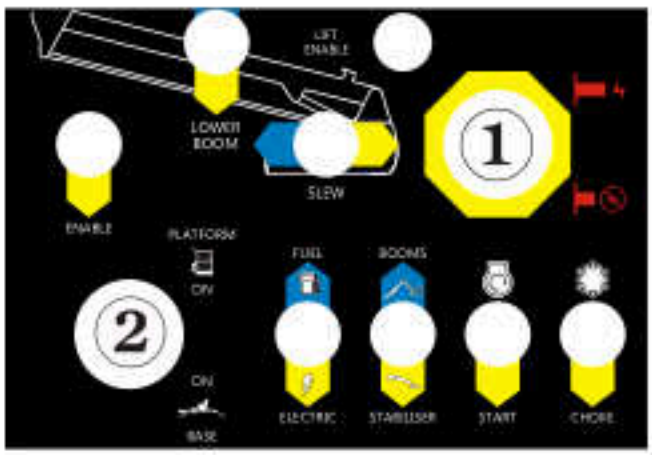


Figure 9.1 - Ground Control Box

1. The **Emergency Stop** switch ❶ must be (ON) (see Figure 9.1).
2. The **Platform/Ground Selector** switch ❷ (see Figure 9.1) must be set to PLATFORM.

➟ Platform control station

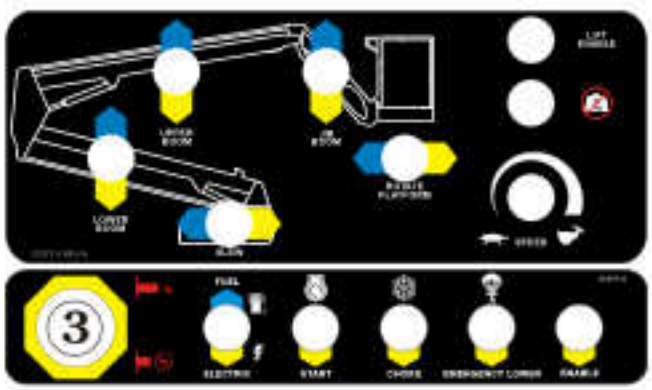


Figure 9.2 - Platform Control Box

3. Set the **Emergency Stop** switch ❸ to ON (see Figure 9.2).

⚠ IMPORTANT

The MHP13/35 / MHP15/44 have an ENABLE switch fitted to the Upper & Lower control boxes. (see Chapter 6 for a full explanation of the operation of this switch).

Some machines will <u>also</u> be fitted with a FOOT OPERATED ENABLE switch.
On those machines fitted with the foot switch option, <u>both</u> the switch on the control box <u>and</u> the foot switch perform the same function.
However it is assumed that for units fitted with a foot switch this will be the preferred method of operation.

If the FOOT OPERATED ENABLE SWITCH option is installed on your machine go to Step 4 - otherwise go to Step 5.

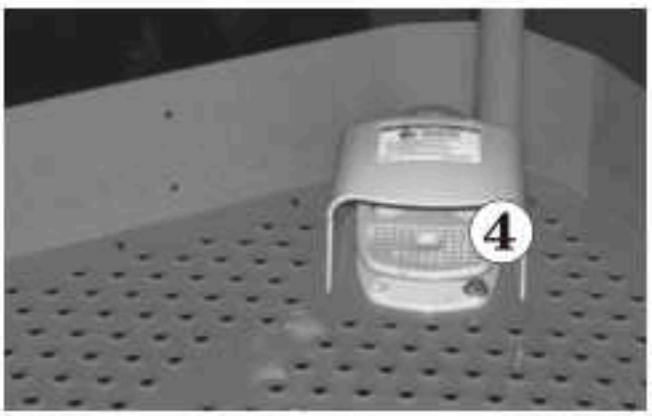


Figure 9.3 - Enable Switch (Foot)

4. Step on the platform foot switch ❹ (see Figure 9.3).
   Go to Step 6.
5. Operate the Enable switch ❺ by pressing the switch down and hold it down (see Figure 9.4).

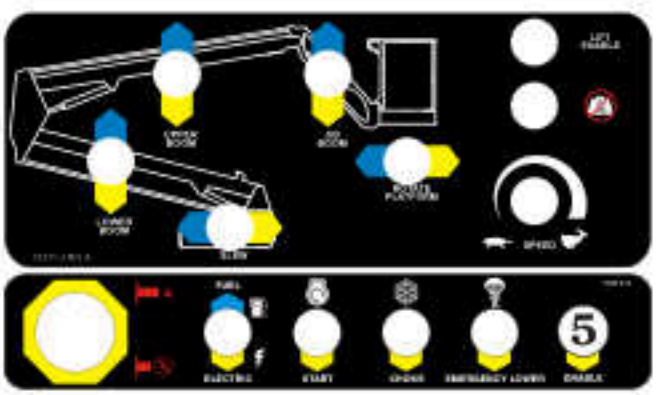


Figure 9.4 - Enable Switch, Platform Control Box

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