



Maintenance Manual

A14JE

Mobile Elevating Work Platform

 Warning
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<p>Before operation and maintenance, the drivers and service personnel shall always read and thoroughly understand all information in this manual. Failure to do so may result in, fatal accidents or personal injury.</p>
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<p>This manual must be kept with this machine at all times.</p>

Mobile Elevating Work Platform Maintenance Manual

880*1230 mm 16 format 8 printed sheets

First edition and printed for the first time in December 2021

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Foreword

Thank you for choosing to use this Mobile Elevating Work Platform from LGMG. This machine is designed according to AS/NZS1418.10:2011+A1:2017. The information specified in this manual is intended for the safe and proper operation of this machine for its' intended purpose.

For maximum performance and utilization of this machine, thoroughly read and understand all the information in this manual before starting, operating, or performing maintenance on this machine.

Due to continuous product improvements, LGMG reserves the right to make specification changes without any prior notifications. For any updated information, contact LGMG.

Ensure all preventive maintenance to the machine is performed according to the interval specified in the maintenance schedule.

Keep this manual with this machine for reference at all times. When the ownership of this machine is transferred, this manual shall be transferred with this machine. This manual must be replaced immediately if it is lost, damaged, or becomes illegible.

This manual is copyrighted material. The reproduction or copy of this manual is not allowed without the written approval of LGMG.

The information, technical specifications and drawings in this manual are the latest available when this manual is issued. Due to continuous improvement, LGMG reserves the right to change the technical specifications and machine design without notice. If any specifications and information in the manual are not consistent with your machine, please contact the service department of LGMG.

WARNING

Only personnel who have been properly trained and qualified to operate or maintain this machine can operate, repair and maintain this machine.

Improper operation, maintenance, and repair are dangerous and can cause personal injury and death.

Before any operation or maintenance, the operator shall thoroughly read this manual. Do not operate, perform any maintenance or make any repairs on this machine before reading and understanding this manual.

The user shall load the platform strictly according to the load rating of the platform. Do not overload the platform or make any modifications to the platform without permission from LGMG .

The operation regulations and preventions in this manual are only applicable for the specified use of this machine.

Safety Precautions

The operator of this machine shall understand and follow the existing safety regulations of state and local governments. If these are unavailable, the safety instructions in this manual shall be followed.

To help prevent accidents, read and understand all warnings and precautions in this manual before operation or performing maintenance.

It is impossible to foresee every possible hazard and the safety instructions in this manual may not cover all safety prevention measures. Always ensure the safety of all personnel and protect the machine against any damage. If unable to confirm the safety of some operations, contact LGMG.

The operation & maintenance prevention measures listed in this manual are only applicable to the specified uses of this machine. LGMG assumes no responsibility if this machine is used beyond the range of this manual. The user and the operator shall be responsible for the safety of such operations.

Do not perform any operation forbidden in this manual in any situation.

The following signal words are applicable for identifying the level of safety information in this manual.

 **Danger:**

An imminent situation, that if not avoided, will result in severe injuries or death. This is also applicable to situations that will cause serious machine damage, if not avoided.

 **Warning:**

A potentially dangerous situation, that if not avoided, may result in severe injuries or death. This is also applicable to situations that may cause serious machine damage, if not avoided.

 **Notice:**

A situation, that if not avoided, may result in minor or intermediate injury. This is also applicable to situations that may cause machine damage or shorten machine service life.

Chapter 1 Maintenance

1.1 Compliance

- 1) The operator can only perform routine maintenance items as specified in this manual.
- 2) Regular maintenance inspections should be performed by qualified authorized service technicians as required by the manufacturer

Maintenance symbol legend

The following symbols appear in this manual to indicate the relevant meaning in the operation instructions. When one or more symbols appear in front of the maintenance procedure, the meanings expressed are as follows.



It indicates that a tool is required to perform this procedure.



It indicates that a new part is required to perform this procedure.



It indicates that this procedure should be performed by the dealer.

1.2 Inspecting the Drive Hub

Oil Level

- 1) Inspect the oil level of the drive hubs every 250 h or quarterly. Improper oil level will result in reduced performance. Continuous use will result in damage to components.
- 2) Inspect oil level



Figure 1-1 Traveling slowdown
1. Oil filler 2. Viewing port

- Drive the machine until one plug is located at the horizontal position as shown as shown in Figure 1-1.
- Remove the viewing port plug at the horizontal position, and inspect oil level.
- Result: Oil level shall be flush with the bottom of the viewing port.
- If necessary, add oil at the oil filler until the oil level is flush with the bottom of the viewing port, select gear oil by referring to Machine Specifications section.
- Coat the plugs with pipe thread sealant and install the plugs.
- Repeat this step for every drive hub.

1.3 Inspecting the Hydraulic

Oil And Filter

- 1) Inspect hydraulic oil level every 8 h or every day.



Caution: Perform this step when

the boom is in the retracted position.

- Park the vehicle on the flat site. Fully retract the boom.

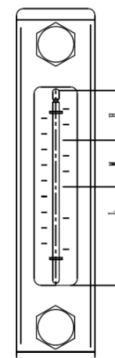


Figure 1-2 Oil Level Sight Gauge

- Examine the oil level on the hydraulic oil tank, i.e., level shall fall within the M range shown as Figure 1-2, and in the case of level lower than L, it is necessary to add hydraulic oil.
- 2) Inspect hydraulic oil leakage every 8 h or daily.



Caution: Personal injury danger,

i.e., leaking hydraulic oil can penetrate or burn skin. Wear goggles and protective gloves.

- Leakage of high-pressure oil may be invisible to eyes, use cardboard or wooden boards as a search tool for hydraulic oil leakage. Hands shall be prohibited from being used for leakage confirmation. Inspect oil drops or residual oil on the following components:
- Hydraulic oil tank, filter, pump, hydraulic oil cylinder, motor, reduction gear, valve block and hydraulic tubing.
- Inspect oil drops or residual oil at the following areas:

Rear of boom, fly jib, upper side of turntable, upper and lower sides of chassis, and ground underneath equipment.

- 1) Test or replace hydraulic oil every 1,000 h or annually.



Caution: If the oil isn't replaced

after the two year interval, it must be tested quarterly and replaced when it no longer passes the testing.

Replace hydraulic oil suction filter, oil return filter every 1000 h or every year. Replace oil suction filter, oil return filter after first 500 h of use. It is necessary to replace the hydraulic filter to maintain performance and service life of the machine. Dirt or a clogged filter may cause performance degradation of hydraulic components, and continuous use will cause damage to components. In dirty work environments it is necessary to increase the change intervals.

1.4 Checking the battery

This check should be performed every 250h or two month, whichever comes first.

Good battery condition is critical to normal vehicle performance and safe operation. Improper electrolyte levels or damaged cables and wires may result in component damage and dangerous situations.



Risk of electric shock

Any live operation can cause serious personal injury or death. Remove all rings, watches and other accessories before operation.



Risk of bodily injury

The battery electrolyte is corrosive. Avoid contact with spilled electrolytes on your hands or other parts of your body for fear of injury. The spilled electrolyte can be neutralized with soda and water.



Caution: The following checks

should be performed after the battery is charged.

- 1) Wear protective clothing and goggles.
- 2) Make sure the battery cable is securely wired and not corroded.
- 3) Make sure the battery lock lever is secure.
- 4) Remove the battery vent cap.
- 5) Check the battery electrolyte level. If necessary, add the distilled water from the bottom of the battery filler tube. Do not add excessive distilled water
- 6) Reset the vent cap.



Caution: Adding terminal protectors and anti-corrosion sealants will help eliminate corrosion on battery terminals and cables.

1.5 Regular maintenance

- 1) Maintenance work on a quarterly, annual and biennial basis must be performed by those who are trained and qualified in the vehicle maintenance according to the procedures specified in this manual.
- 2) If a machine has been idle for more than three months, a quarterly maintenance must be performed before it is operated.

1.6 Details of A14JE Maintenance Parts

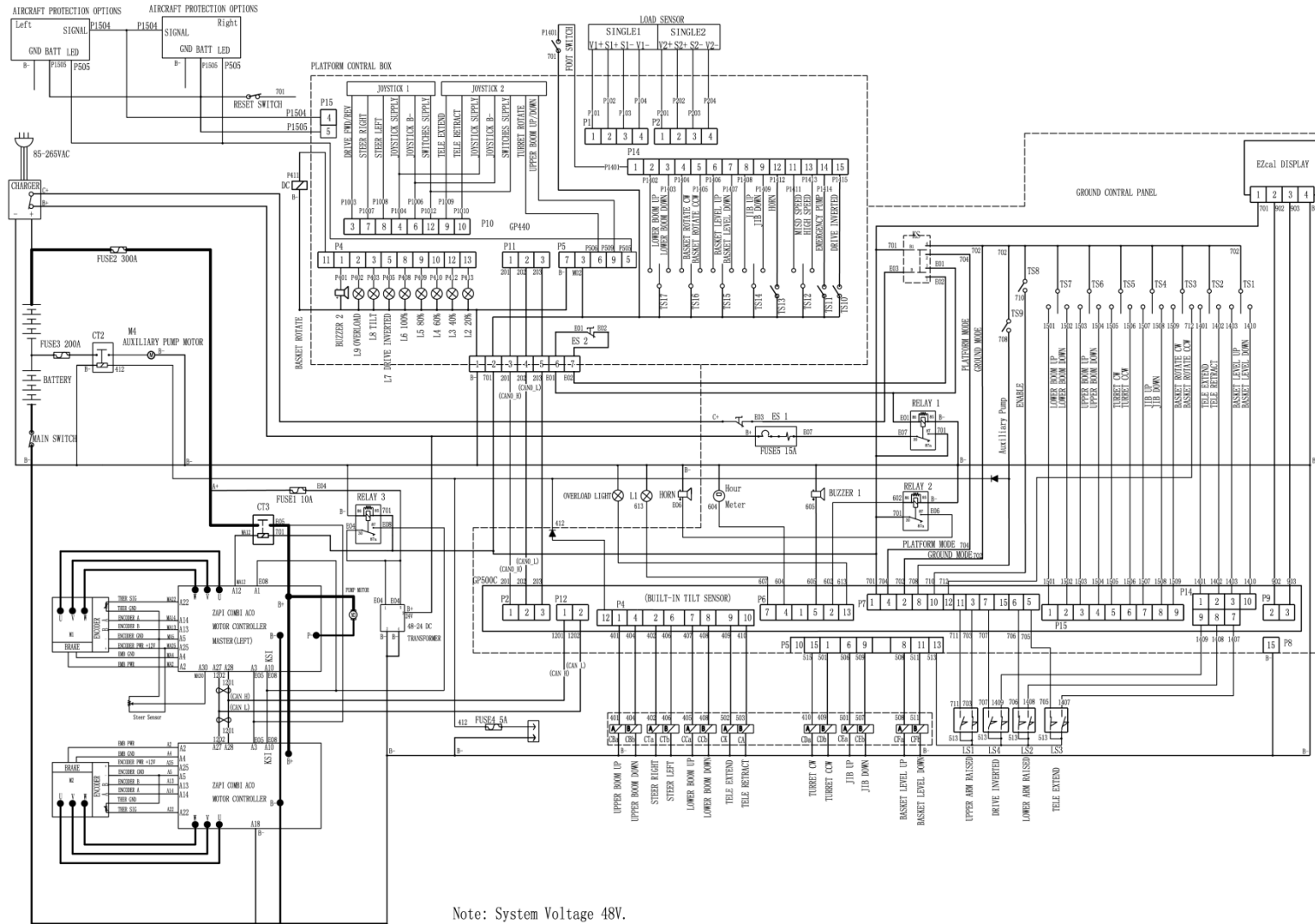
Period	Material Code	Material Name	Specification	Unit	Qty	Remarks
100h	/	Lithium grease	/	/	Appropriate	Rotary support, first 50h
2000h	/	Lithium grease	/	/	Appropriate	Wheel bearing
1000h	4120001128001	Filter element	SPX-06x10	Piece	1	Hydraulic Oil return filter(If equipped)
1000h	5301000007	Gear oil GL-5 85W-90 barrel	SAE85W/90GL-5	L	0.68*2	For the first-time operation of the reducer, replenish oil after 150h. Later, replenish oil every 250h.
1000h	4120001424	Oil suction filter WU-63x180-J	WU-63x180-J	Piece	1	
	4120001427	Air filter EF2-32	EF2-32	Piece	1	
1000h (or every year)	5301000175	Hydraulic oil L-HV32#	L-HV32#	L	30	Hydraulic oil analysis

Maintenance items of every level are given in the following table

Period	Description	Maintenance measures	Remarks
250h	Battery	Charging with matching charger	1. No matter whether the battery is loaded or not, if the battery is not charged for a long time, the service life of the battery will be shortened. 2. For the battery that has been loaded, in addition to the above maintenance measures, the power main switch should be disconnected timely when the battery is not in use for a long time
		Add distilled water	Check whether the battery plate is bare. If the plate is bare, only add water to the discharged or partially charged battery. In this case, add water just above the plate, then charge the battery, then add water to 3mm/0.12in below the exhaust well (plastic cover in the exhaust hole), and reassemble the vent cap after adding water.
250h	Harness	Check electrical wiring	1. Check whether there is burned, worn, corroded, extruded and loosen wiring 2. Check whether all harness joints except connectors are coated with sufficient insulating grease.

Chapter 2 Schematic Diagram

Electrical schematic diagram



Hydraulic schematic diagram

