snorkel

A46JRTE



CE

OPERATOR'S MANUAL

Part Number 516786-000
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ANSI/CSA/CE/AS/NZS
A46JRTE-01 SERIAL NUMBERS ONLY

Original Instructions - English

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Table of Contents

Electrical Danger ..... Inside Front Cover
Proposition 65 Warning ..... Inside Front Cover
Danger Symbols ..... Inside Front Cover
Fall Restraint Lanyard Anchor Points ..... Inside Front Cover
Safety Rules ..... Inside Front Cover

Chapter 1 – Introduction

Aerial Platform Features 1
Options 1
Operator's Manual 1
Safety Alerts 1
Operation 1
Maintenance 2
Used Material Disposal 2
Manual of Responsibilities – ANSI 2
MEWP Safe Use – AS/NZS 2
AS/NZS 1418.10 Commissioning 2
CE Compliance 2
Additional Information 2

Chapter 2 – Specifications

Component Identification 3
Working Envelope – Single Capacity 4
Working Envelope – Dual Capacity 5
General Specifications – Single Capacity 6
General Specifications – Dual Capacity 7

Chapter 3 – Safety

Electrocution Hazards 9
Minimum Safe Approach Distance – ANSI 9
Minimum Safe Approach Distance – AS/NZS 10
Platform Capacity 10
Manual Force 10
Wind Speeds 10
Prestart Inspection 10
Work Place Inspection and Practices 10
Operation 11
Tip-Over and Falling Hazards 11
Electrical System 12
Hydraulic System 12
Placards and Decals 12
General Safety Rules 12

Chapter 4 – Safety Devices

Emergency Stop Controls 15
Emergency Power System 15
Ground Operation Switch 15
Platform Foot Switch 16
Guardrails 16
Fall Protection Anchors 16
Ground Fault Circuit Interrupter (ANSI Only) 16
Platform Overload Sensing System 16
Boom/Drive Cut-out 17
Tilt Alarm/Warning Lights 17
Horn 17
Power Preservation System 17
Drive Motion Alarm 17
All Motion Alarm 17
Flashing Lights 17
Driving Lights 18
Platform Work Lights 18
Snorkel Guard 18

Chapter 5 – Gauges and Displays

Diagnostic Center Displays 19
Diagnostic Center LCD 19
Battery Charge Indicator 19
Platform Overload/Tilt Warning Lights 19
Dual Platform Capacity System 20
Hydraulic Fluid Filter Gauge 20
Hydraulic Fluid Level Sight Gauge 20
Power Preservation System 20
Power System Run LED 20
Power System Fault 21

Chapter 6 – Controls

Battery Disconnect Switch 23
Lower Controls 23
Start Button 23
Emergency Stop Button 23
Controls Selector Switch 23
Ground Operation Switch 23
Rotation Switch 23
Riser Switch 24
Boom Elevation Switch 24
Boom Extension Switch 24
Jib Articulation Switch 24
Platform Level Switch 24
Platform Rotation Switch 24
Emergency Power Switch 25
Platform Overload Warning Light 25
Dual Platform Capacity System – Option 25
Diagnostic Center Display 25
Battery Charge Indicator 25
Power LED 25
Circuit Breaker Reset Buttons (ANSI Only) 26
Upper Controls 26
Start Button 27
Emergency Stop Button 27
Drive Joystick 27
Steer Switch 28
Drive Range Switch 28
Boom Speed Knob 28
Rotation Switch 28
Riser Switch 28
Boom Elevation Switch 28
Boom Extension Switch 28
Jib Articulation Switch 28
Platform Level Switch 28
Platform Rotation Switch 28
Emergency Power Switch 28
Horn Switch 29
Override Switch 29
Platform Foot Switch 29

MidWestTech | Snorkel A46JRTE Articulating Boom Lift Operator's Manual | Publication 51... Order the manual at mid-west-tech.com >

Platform Overload Warning Light 29
Dual Platform Capacity System – Option 29
Tilt Alarm 29
Driving and Platform Work Lights 29
Battery Charge Indicator 29

Chapter 7 – Prestart Inspection

Operator's Manual Holder 31
Electric Motor / Batteries 31
Battery Charge Indicator 31
Normal Operation 31
Battery Charge Point 32
Charging Status Indicators 32
Emergency Electrical System 32
Power System Fault 32
Battery Fluid Levels 33
Battery Terminals 33
Cables and Wiring Harness 33
Hydraulic System 33
Fluid Level 33
Fluid Filter 33
Hoses, Tubes, and Fittings 34
Tires and Wheels 34
Air Filled 34
Foam Filled 34
Lower Control Station 34
Operating Controls 35
Emergency Stop 35
Emergency Power 35
Diagnostic Center Display 35
Flashing Lights 35
Structures 36
Weldments 36
Boom Slide Pads 36
Fasteners 36
Upper Control Station 36
Guardrail System 36
Fall Protection Anchors 37
Operating Controls 37
Emergency Stop 38
Emergency Power 38
Horn Switch 38
Snorkel Guard 38
Level Sensor 38
Electrostatic Discharge Strap 38
Drive Motion Alarm 38
All Motion Alarm 38
Sandblast Protection Kit 38
Air Line to Platform 39
Driving and Platform Work Lights 39
Tow Kit 39
Platform Glazier Package 39
Platform Welder 39
Placards and Decals 39
Prestart Inspection Checklist 45
Inspection and Maintenance Schedules 46

Chapter 8 – Operation

Cold Weather Start-Up 47
Manually Warming The Hydraulic System 47
Preparing for Operation 47
Lower Controls 47
Upper Controls 48
Boom Operation 48
Dual Platform Capacity System 49
Driving and Steering 49
Drive Speeds 50
Pivoting Front Axle 50
Drive Motion Alarm 50
Boom/Drive Cut-out 50
Platform Overload Sensing System 50
Snorkel Guard 51
Override Switch 51
Gradeability 51
Percent vs. Degree of Slope 51
Driving on a Slope 52
Calculating Percent Grade 52
Machine Gradeability 53
Battery charge indicator 53
No signal received 53
Normal Operation 53
Battery Fault 54
Motor Fault 54
Power System Fault 54
Electrical Power Outlet (optional) 54
Air Line (Optional) 55
Driving Lights 55
Platform Work Lights 55

Chapter 9 – Stowing and Transporting

Stowing 57
Transporting 57
Driving 57
Winching 58
Hoisting 58
Securing for Transport 59
Storage 60

Chapter 10 – Emergency Operation

Emergency Power System 61
Lower Controls 61
Upper Controls 61
Override Switch 62
Towing 62

Chapter 11 – Troubleshooting

Troubleshooting Chart 65

Appendix A – Glossary

Appendix C – Inspection Checklists

Limited Warranty

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General Specifications – Dual Capacity

Aerial Platform

Working height	52' 4" (15.95 m)
Maximum platform height	46' 4" (14.12 m)
Up and over height	25' 2" (7.67 m)
Maximum horizontal reach	
At 650 lb capacity	24' 9" (7.54 m)
At 750 lb capacity	22' 11" (6.98 m)
Main boom	
Articulation	0° to +72°
Extension	80" (2.0 m)
Jib	
Articulation	-70° to +70°
Extension	5' (1.5 m)
Turntable rotation	360° non-continuous
Turning radius	
Inside	4' 2" (1.27 m)
Outside	13' 9" (4.19 m)
Tail swing	0
Wheelbase	8' 6" (2.5 m)
Ground clearance	12" (304.8 mm)
Maximum wheel load	10,113 lbs (4587.4 kg)
Maximum ground bearing pressure	144 psi (10.08 kg/cm²)
Maximum distributed floor load	222 psf (1,084 kg/m²)
Level sensor setting	3.5 degrees
Weight, EVW Approximate	17,422 lbs (7,902.5 kg)
Maximum allowable manual force (side pull)	90 lb (400 N)
Width	7' 5" (2.26 m)
Stowed length	18' 8" (5.7 m)
Stowed height	7' 4" (2.23 m)

Platform

Dimensions	
Standard Aluminum	30" x 72" (76 cm x 183 cm)
Rated work load unrestricted	650 lb (295 kg)
Rated work load restricted	750 lb (340 kg)
Optional Aluminum	
With swing gate	30" x 60" (76 cm x 153 cm)
Rated work load unrestricted	650 lb (227 kg)
Rated work load restricted	750 lb (227 kg)
Toeboard height	6" (15.2 cm)
Rotation	80° CW to 80° CCW
Maximum number of occupants	2 people

Function Speed

Turntable rotation	75 to 95 seconds
Total raise time	101 seconds
Total lower time	98 seconds
Riser	
Up	35 to 45 seconds
Down	20 to 30 seconds
Main boom	
Up	25 to 35 seconds
Down	20 to 30 seconds
Extend	22 to 32 seconds
Retract	20 to 30 seconds
Platform rotation	10 to 15 seconds
Jib	
Up	25 to 35 seconds
Down	25 to 35 seconds
Drive	
High, booms stowed	3.2 mph (5.1 km/h)
Low, booms raised/extended	0.8 mph (1.2 km/h)

Drive System

Standard	4WD
Gradeability	40%
Axle	front oscillating
Maximum drive height	46' 4" (14.12 m)

Tires

Bar lug – foam filled	355/55D625NHS, 14 ply
Width	9" (22.9 cm)
Weight	175 lb (79.4 kg)

Emergency Electrical System

Voltage	12 V DC negative chassis ground
Source	One - 12 V 600 CCA batteries

Electrical System

Voltage	52 V DC negative chassis ground

Power Source

Batteries	5.8kwh x 3 Batteries Li-ion

Hydraulic System

Pressure	
Drive circuit max. pressure	5,000 psi (34,473 kPa)
Boom circuit max. pressure	3,100 psi (21,373 kPa)
Reservoir capacity	25 US gal (94 l)
System capacity	43 US gal (162 l)
Maximum operating temperature	200°F (93°C)
Hydraulic fluid recommended	
Above 10°F (-12°C)	ISO VG32
Below 10°F (-12°C)	ISO VG15

Electric Motor

Motor	IPM 200-66, AJ01, SAE B Z=15

Ambient Air Temperature Operating Range

Fahrenheit	0°F to 110°F
Celsius	-18°C to 43°C

Maximum Wind Speed

Gust or steady	28 mph (12.5 m/s)
	Beaufort scale 6

Vibration

Whole Body Vibration < 0.5 m/s²
Hand Arm Vibration < 2.5 m/s²

Sound Pressure Level

At work station	below 68 dB(A)

Group Classification

Heavy duty – intended life	100,000 load cycles

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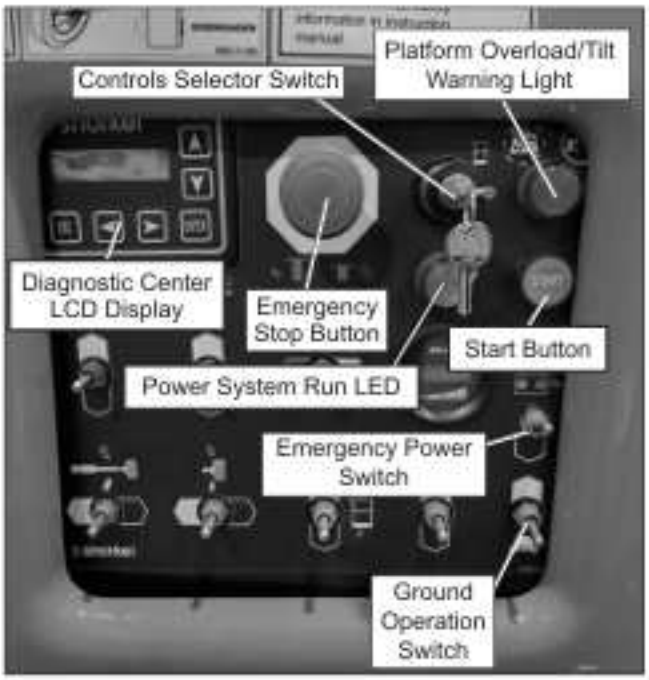


Figure 7.10 – Lower Controls

Operating Controls

Use the following procedure to operate the machine from the lower controls.

1. Turn the battery disconnect switch on.
2. Pull the emergency stop button outward. Place the controls selector switch in the lower control position.
3. Press the Start button and release, wait for the Power System Run LED to illuminate. The Power System Run LED will remain illuminated while the machine is powered on.
4. Hold the ground operation switch upward.

⚠Danger

Pinch points may exist between moving components. Death or serious injury will result from becoming trapped between components, buildings, structures, or other obstacles. Make sure all personnel stand clear of the aerial platform while performing the pre-start inspection.

⚠Warning

The potential for an accident increases when operating an aerial platform that is damaged or malfunctioning. Death or serious injury could result from such accidents. Do not operate the aerial platform if it is damaged or malfunctioning.

5. Test the operation of each function in both directions.

Note
When checking the turntable rotation function in the counterclockwise direction, the turntable will rotate toward you.

Emergency Stop

To test the emergency stop button from the lower controls:

1. Push the emergency stop button inward to turn off electrical power.
2. Test the lower control functions to make sure they do not operate.

Emergency Power

To test the emergency power system from the lower controls:

1. Place the battery disconnect switch and the emergency stop button in the on position. Place the control selector in the lower control position.
2. Hold the emergency power switch down and the ground operation switch upward to operate the aerial platform from the lower controls using the emergency power system.

Diagnostic Center Display

To test the diagnostic center display on the lower control panel (refer to Figure 7.10), from the lower controls:

1. Turn the battery disconnect switch on.
2. Pull the emergency stop button outward to the on position.
3. The display on the LCD screen should indicate:
   - The accumulated aerial platform operating time.
   - "Mode Neutral" when no functions are being operated. When the machine is operated, the display will indicate the name of that function.

Flashing Lights

The machine may be equipped with two optional flashing lights mounted to the top of the counterweight.

To inspect the flashing lights:

1. At the lower controls, pull the emergency stop button outward and turn the controls selector switch to the lower control position. Start the machine. Hold the ground operation switch upward to verify operation of the lights.
2. Turn the controls selector switch to the upper control position.
3. At the upper controls, pull the emergency stop button

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Annual Maintenance – Every 500 Hours

Item	Procedure	Information	P/F/R
90 day or 150 hour maintenance	Perform maintenance per schedule	Retain copy of checklist	
Hydraulic oil reservoir	Clean and replace fluid	Above 10°F (-12°C) ISO VG32 Below 10°F (-12°C) ISO VG15	
Hydraulic return filter	Replace	After first 50 hours, then at recommended interval	
Hydraulic reservoir suction filter	Clean and reinstall		
Hydraulic pressures	Drive pump setting	Differential pressure: 450-500 psi	
		Maximum pressure: 5,000-5,100 psi	
	Boom pump setting	Maximum pressure: 3,100-3,200 psi	
	Function pressures: check at manifold, except level	Steer right/left: 3,100-3,200 psi	
		Riser boom down: 3,300-3,400 psi	
		Main boom down: 1,400-1,500 psi	
		Extend: 1,900-2,000 psi	
		Jib up/down: 3,100-3,250 psi	
		Rotate: 1,200 psi max on level	
		Pressure reducing valve: 3,100-3,200 psi	
		Drive/boom relief: 3,400 psi	
	Level Pressure: install gauge between valve and slave cylinder	Level: 2,000-2,050 psi - Single Capacity 3,600 psi - Dual Capacity	
Gear hubs	Replace fluid	Gear lubricant SAE Grade 80W-90	
Swing drive	Replace fluid	Gear lubricant SAE Grade 80W-90	

Maintenance Table Key: P = Pass, F = Fail, R = Repaired

Performed by: _____ Date: _____

Model Number: _____ Serial Number: _____

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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.
NEVER touch battery terminals or cables under secured covers unless authorized to do so, high voltages could cause electrical shock.

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.

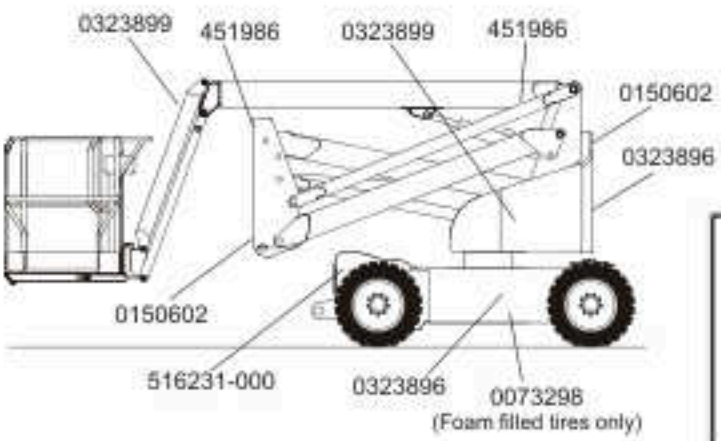
Certain inherent risks remain in the operation of this machine despite utilizing proper design practices and safeguarding.

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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Right Side



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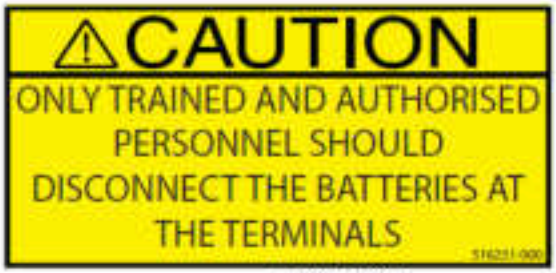
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