snorkel

S9033RT
S9043RT
S9053RT



CE

OPERATOR'S MANUAL

ANSI/CSA/CE/AS/NZS
Serial number 000000 and after
Replaces December 2024

Part Number 1442308
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Original Instructions

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Table of Contents

Electrical Danger ..... Inside Front Cover
Proposition 65 Warning ..... Inside Front Cover
Danger Symbols ..... Inside Front Cover
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
General Specifications – S9033RT 4
General Specifications – S9043RT 5
General Specifications – S9053RT 6
Engine Specifications 7
Engine Oil Viscosity 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
Engine and Fuel Handling Precautions 12
Placards and Decals 13
General Safety Rules 13

Chapter 4 – Safety Devices

Emergency Stop Controls 15
Emergency Power System 16
Ground Operation Button/Switch 16
Upper Control Interlock Switch 16
Guardrails 16
Fall Protection Anchors 16
Ground Fault Circuit Interrupter 16
Overload Protection 17
  ANSI/CSA Machines 17
  CE/AS/NZS Machines 17
Platform Raise/Lower Light 17
Platform Overload/Tilt Warning Lights 17
Engine Protection Systems 17
  High Engine Temperature Alarm 18
  Low Oil Pressure Alarm 18
Stabilizers 18
  Stabilizer Down/Lift Interlock 18
Emergency Lowering 18
  PG Control System 18
  Parker Control System 18
Safety Prop 18
Horn 19
Flashing Light 19
Snorkel Guard 19

Chapter 5 – Gauges and Displays

Diagnostic Center Display 21
Platform Overload/Tilt Warning Indicators 21
Diesel Particulate Filter Warning Light 22
Engine Warning Lights 22
Fuel 22
Engine Oil 23
Hydraulic Fluid Filter Gauge 23
Hydraulic Fluid Level/Temperature Gauge 23

Chapter 6 – Controls

Battery Disconnect 25
Lower Controls 25
  Diagnostic Center LCD Display 26
  Emergency Stop Button 26
  Control Selector Switch 26
  Engine Start Button – PG Control System 26
  Start/Emergency Power/Ground Operation Switch – Parker Control System 27
  Engine Start Switch 27
  Ground Operation Button/Switch 27
  Stabilizer Controls – Auto Level/Stow Button/Switch 27
  Platform Raise/Lower Button/Switch 27
  Platform Extension Deck Retract Button – PG Control System 27
  Platform Extension Deck Switch – Parker Control System 27
  Diesel Particulate Filter Switch 27
  Dual Fuel 27
Upper Controls 27
  Emergency Stop Button 28
  Engine/Emergency Power Switch 28
  Drive/Lift Selector Switch 28
  Dual Fuel 29
  Drive Range Switch 29
  Joystick 29
  Interlock Switch 29
  Steer Switch 29
  Platform Extension Deck Selector Switch 29
  Stabilizer Controls – Manual 29
  Stabilizer Controls – Auto Level 30
  Horn Button 30
  Platform Raise/Lower Light 30

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AC Generator Switch 30
Hydraulic System Warm-Up Switch – Diesel Option 30

Chapter 7 – Prestart Inspection

Operator's Manual 31
Engine 31
Oil Level 31
Coolant 31
Radiator 32
Fuel Tank 32
Fuel Line 32
Electrical System 32
Battery Fluid Level 33
Battery Terminals 33
Safety Prop 33
Cables and Wiring Harness 34
Hydraulic System 34
Fluid Level 34
Hoses, Tubes, and Fittings 34
Tires and Wheels 35
Lower Control Station 35
Operating Controls 35
Emergency Stop 36
Stabilizer Interlock Test 36
Stabilizer Locked Out When Platform is Elevated 36
Platform Raise Locked Out When Axle is Not Locked 36
Platform Raise Locked Out When Chassis Tilted 36
Diagnostic Center Display 36
Emergency Lowering – PG System 36
Emergency Lowering – Parker System 37
Structures 37
Weldments 37
Rollers and Slide Blocks 38
Fasteners 38
Upper Control Station 38
Guardrail System 38
Operating Controls 38
Emergency Stop 39
Emergency Power 39
Horn Button 39
Snorkel Guard 39
Electrical Power Outlet 40
Flashing Lights 40
Placards and Decals 40
Prestart Inspection Checklist 44

Chapter 8 – Operation

Cold Weather Start-Up 45
Hydraulic System Cold Weather Warm-Up 45
Hydraulic System Warm-Up Switch 45
Manually Warming The Hydraulic System 45
Preparing for Operation 46
Lower Controls 46
Upper Controls 47
Stabilizers 48
Auto Level – All 48
Manual Level – Individual 48
Platform 48
Raising and Lowering 48
Platform Extension Deck – Powered 48
Overload Protection 48
ANSI/CSA Machines 49
CE/AS/NZS Machines 49
Fold Down Guardrails 49
Driving and Steering 49
Drive Range Switch 50
Drive Speeds 50
Pivoting Front Axle 50
Machine in Stowed Position 50
Machine Not in Stowed Position 50
Drive/Lift Level Sensor Interlock 50
Snorkel Guard 50
Override Button 51
Gradeability 51
Percent vs. Degree of Slope 51
Driving on a Slope 51
Calculating Percent Grade 52
Machine Gradeability 53
Electrical Power Outlet 53
Diesel Particulate Filter Regeneration 53
AC Generator 54
Dual Fuel 54
After Use Each Day 54

Chapter 9 – Stowing and Transporting

Stowing 55
Transporting 55
Driving 55
Winching 55
Lifting With a Forklift 56
Securing for Transport 56
Storage 57

Chapter 10 – Emergency Operation

Emergency Power System 59
Upper Controls 59
Override Button 59
Emergency Lowering – PG System 60
Emergency Lowering – Parker System 61
Towing 61

Chapter 11 – Troubleshooting

Troubleshooting Chart 63

Appendix A – Glossary

Appendix B – Inspection Checklists

Limited Warranty

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General Specifications – S9043RT

Aerial Platform	
Working height	49' (15.1 m)
Maximum platform height	43' (13.1 m)
Turning radius	
Inside	6' 8" (2.03 m)
Outside	17' 4" (5.28 m
Wheelbase	112" (2.84 m)
Ground clearance	11" (274 mm)
Maximum wheel load	5,870 lbs (2660 kg)
Maximum ground bearing pressure	104 psi (7.21 kg/cm²)
Floor load pressure	195 psf (955 kg/m²)
Tread contact patch	56.7 in² (365.8 cm²)
Floor area	90.5 ft² (8.41 m²)
Maximum stabilizer load	1,500 lbs (680 kg)
Weight, EVW without stabilizers	
Approximate	16,700 lbs (7,575 kg)
Weight, EVW with stabilizers	
Approximate	18,530 lbs (8,405 kg)
Maximum allowable manual force (side pull)	
Outdoors	45 lb (200 N)
Maximum allowable manual force (side pull)	
Indoors	90 lb (400 N)
Stowed width	7' 6" (2.28 m)
Stowed length	12' 11" (3.95 m)
Stowed height	9' 10" (2.99 m)
With rails folded	7' 2" (2.18 m)

Platform	
Dimensions	
Stowed	12' 11" x 7' 4" (3.95 m x 2.24 m)
Deck extension length	4' 8" (1.44 m)
Single deck extended	17' 6" x 7' 4" (5.33 m x 2.24 m)
Dual deck extended	21' 10" x 7' 4" (6.65 m x 2.24 m)
Guardrail height	39" (0.99 m)
Toeboard height	6" (15.2 cm)
Rated work load	
Total	1,500 lb (680 kg)
Maximum number of occupants	7 outdoors 7 indoors

Function Speed	
Platform raise	48 seconds
Platform lower	48 seconds
High drive	
Platform stowed to 10% of height	4.0 mph (6.4 km/h)
Mid drive	
Platform stowed to 10% of height	1.0 mph (1.6 km/h)
Low drive	
10% of height to full height	0.3 mph (0.48 km/h)

Drive System	
Standard	Four-wheel drive
Gradeability	45%
Axle	front pivoting
Vertical wheel travel	9" (22.8 cm)
Maximum drive height	43' (13.1 m)

Drive/Lift Level Sensor Interlock	
Side-to-side	2 degrees
Front-to-rear	3 degrees

Maximum Stabilizer Leveling	
Side-to-side	12 degrees
Front-to-rear	7 degrees

Tires	
Foam filled	315/55D20-12PR

Electrical System	
Voltage	12 V DC negative chassis ground
Source	One - 12 V 1,000 CCA battery
Fluid recommended	distilled water

Hydraulic System	
Maximum pressure	
System	3,000 psi (20,684 kPa)
Drive	5,000 psi (34,473 kPa)
Reservoir capacity	39 US gal (148 l)
System capacity	58 US gal (220 l)
Maximum operating temperature	160°F (71°C)
Hydraulic fluid recommended	
Above 10°F (-12°C)	ISO VG32
Below 10°F (-12°C)	ISO VG15

Engine	
Diesel	Kubota V1505-KEA Stage 5
Output	44.3 hp (33.0 kW)
Dual fuel	Kubota WG1605
Output – gasoline	43.7 hp (32.6kw)
Output – LPG	42.6 hp (31.8kw)

Fuel Tank Capacity	
Diesel	29 US gal (108 l)
Dual fuel	
Gasoline	29 US gal (108 l)
LPG	43.5 lbs (19.7 kg)

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)

Sound Pressure Level	
At work station	90 to 95 dB(A)

Group Classification	
Light Duty – intended life	40,000 load cycles

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Tires and Wheels

Visually inspect the tires and wheels (refer to Figure 7.9) to make sure they are suitable for service.

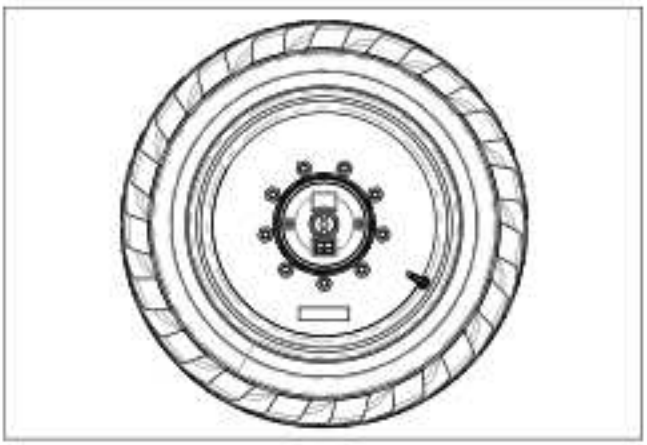


Figure 7.9 – Tires and Wheels

Foam filled tires do not have a pressure decal or a valve core.

To inspect foam filled tires and wheels:

1. Check the wheel lug nuts to see that none are missing, damaged, or loose.
2. Carefully inspect for large holes or cuts where foam is coming out of the tire.
3. Look for large embedded objects, such as angle iron, that can rip a tire open.

Note
Punctures caused by bolts, screws, or nails are not a problem for foam filled tires.

Lower Control Station

With no personnel or materials in the platform, test the operation of each control from the lower controls (refer to Figure 7.10).

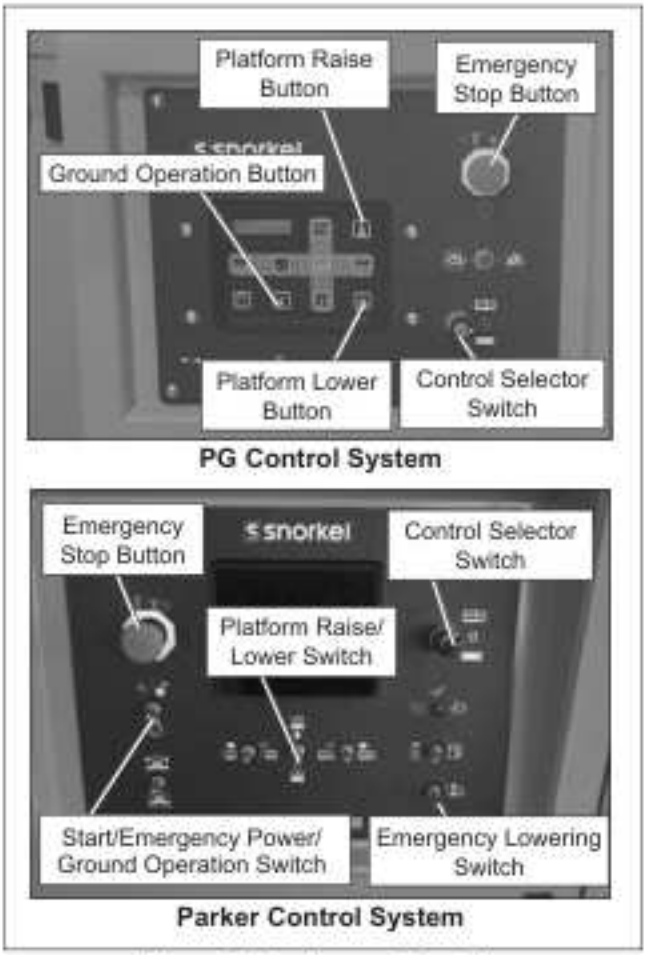


Figure 7.10 – Lower Controls

Operating Controls

Use the following procedure to operate and test the machine from the lower controls:

1. Turn the battery disconnect switch on.
2. Pull the emergency stop switch outward to the on position.
3. Press and hold the ground operation button/switch.

⚠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 prestart 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.

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Annual Maintenance – Every 500 Hours

Item	Procedure	Information	P/F/R
Frequent Maintenance Checklist	Complete Frequent Maintenance		
Hydraulic System			
Hydraulic fluid condition	Drain, flush, and clean hydraulic system. Refill with new fluid.	Above 10°F (-12°C) ISO VG32 Below 10°F (-12°C) ISO VG15	
Return filter	Replace	Refer to Parts Manual for filter part number	
Pressures	Check system relief pressure	System Relief Pressure 3,000 psi (20,684 kPa)	
	Check drive relief pressure	Drive Relief Pressure 5,000 psi (34,473 kPa)	

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

Performed by:_____ Date:_____

Model:_____ 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, their tools and materials used for the job. It is designed for repair, assembly, stockpicking jobs, etc., and assignments at workplaces above head height (ceilings, cranes, roof structures, buildings, shelving, etc.). All other uses of the aerial work platform are prohibited and the rules below must be adhered to!

THIS AERIAL WORK PLATFORM IS NOT INSULATED! Refer to applicable national standards for safe approach distances.

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 stationary or moving obstacles and surface hazards such as holes, drop-offs, bumps, curbs, or debris; and avoiding them. **NEVER** strike or bump into stationary or moving obstacles while driving or raising, lowering, or extending the platform.

USE THREE POINTS OF SUPPORT when entering or exiting the platform. Grasp the handrails, not the doors, with one hand on each side. Use two hands and one foot on the step when climbing into and out of the platform.

PLATFORM passengers should watch their hands and fingers for pinch points while holding on the guardrails while the platform is moving.

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! NEVER** exit or enter the platform when it is elevated.

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.

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 Lowering." 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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Minimum Safe Approach Distance – AS/NZS

Minimum safe approach distances to energized power lines and their associated parts must be observed while operating the aerial platform.

⚠Danger

The aerial platform is not electrically insulated. Death or serious injury will result from contact with, or inadequate clearance from, an energized conductor. Do not go closer than the minimum safe approach distance as defined by national safety regulations.

AS/NZS 2550.10:2006 define minimum distances that must be observed when working near overhead power lines on poles and overhead power lines on towers. Refer to the clearance requirements decals on the machine to determine safe approach distances (refer to Figure 3.1).

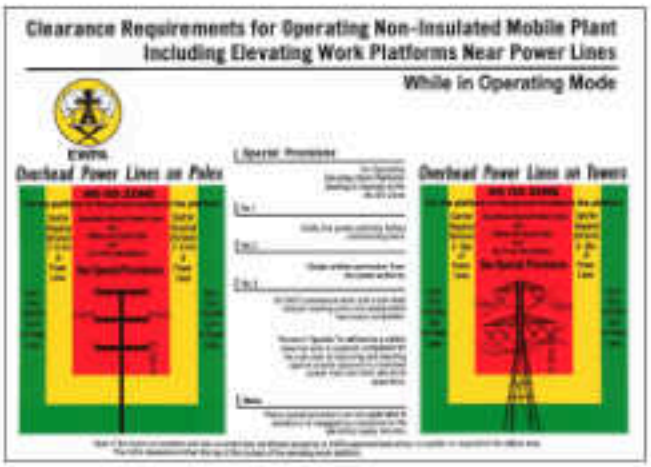


Figure 3.1 – Minimum Safe Approach Distance

Platform Capacity

The maximum unrestricted rated load capacity and the maximum number of occupants for the aerial platform are stated on machine decals, placards, and in the machine specifications in this manual.

⚠Danger

The aerial platform can tip over if it becomes unstable. Death or serious injury will result from a tip-over accident. Do not exceed the capacity values indicated on the machine decals, placards, and in the machine specifications in this manual.

Manual Force

Manual force is the force applied by the occupants to objects such as walls or other structures outside the work platform.

⚠Danger

The aerial platform can tip over if it becomes unstable. Death or serious injury will result from a tip-over accident. Do not exceed the maximum allowable manual force indicated on the machine decals, placards, and in the machine specifications in this manual.

The maximum allowable manual force outdoors is limited to 45 lbs (200 N), with a maximum of 90 lbs (400 N) indoors.

Wind Speeds

Do not add anything to the aerial platform that will increase the wind loading such as billboards, banners, flags, etc.

⚠Danger

The aerial platform can tip over if it becomes unstable. Death or serious injury will result from a tip-over accident. Do not operate the machine in wind speeds of 28 mph (12.5 m/s) or greater.

Do not operate the aerial platform in windy conditions with wind gusts or steady wind speeds of 28 mph (12.5 m/s) or greater. Refer to Figure 3.2.

Prestart Inspection

Perform a prestart inspection before each shift as described in Chapter 8. Do not use the aerial platform on the job unless you are trained and authorized to do so.

Work Place Inspection and Practices

Do not use the aerial platform as a ground connection when welding.

- The welding ground clamp must be attached to the same structure that is being welded.
- Electrical current flow can be very intense, causing serious internal damage to some components.

BEAUFORT RATING	WIND SPEED				GROUND CONDITIONS
	m/s	km/h	ft/s	mph	
3	3,4~5,4	12,25~19,4	11.5~17.75	7.5~12.0	Papers and thin branches move, flags wave.
4	5,4~8,0	19,4~28,8	17.75~26.25	12.0~18	Dust is raised, paper whirls up, and small branches sway.
5	8,0~10,8	28,8~38,9	26.25~35.5	18~24.25	Shrubs with leaves start swaying. Wave crests are apparent in ponds or swamps.
6	10,8~13,9	38,9~50,0	35,5~45.5	24.5~31	Tree branches move. Power lines whistle. It is difficult to open an umbrella.
7	13,9~17,2	50,0~61,9	45.5~56.5	31.~38.5	Whole trees sway. It is difficult to walk against the wind.

Figure 3.2 – Beaufort Scale

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