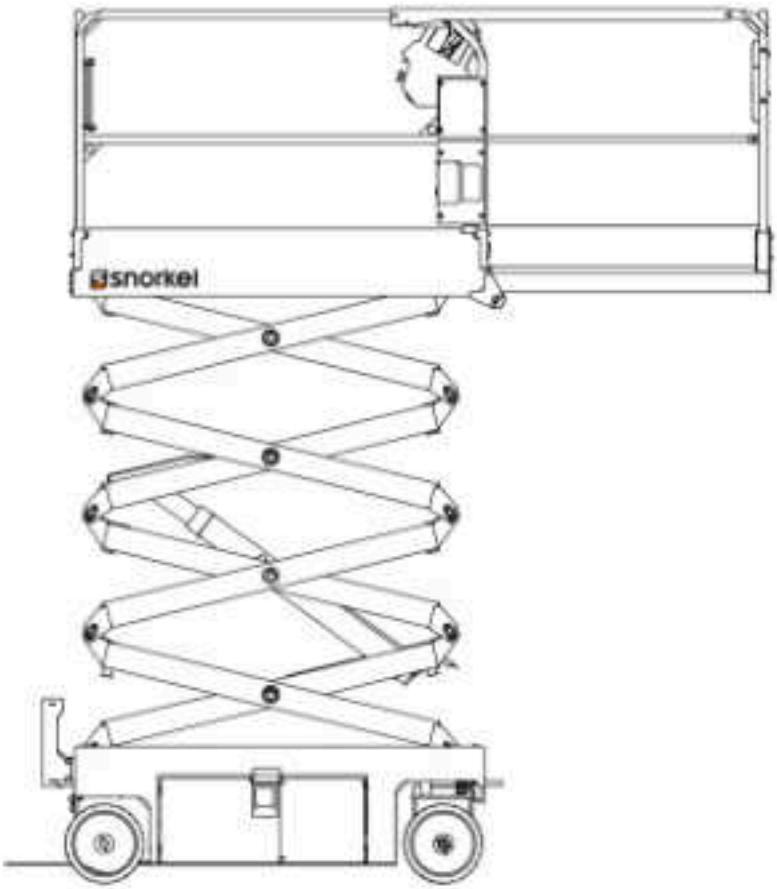
snorkel

S3215L
S3215E
S3219E
S3220E
S3226E
S4726E
S4732E



CE

OPERATOR'S MANUAL

ANSI/CSA/CE/AS/NZS
Serial number 000017, 000019 and after
Replaces July 2025

Part Number 1500834
August 2025
Original Instructions

MidWestTech | Snorkel S3215L, S3215E, S3219E, S3220E, S3226E, S4726E, S4732E Scis... Order the manual at mid-west-tech.com >

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 3

Chapter 2 – Specifications

Component Identification 5
General Specifications – S3215L 6
General Specifications – S3215E 7
General Specifications – S3219E 8
General Specifications – S3220E 9
General Specifications – S3226E 10
General Specifications – S4726E 11
General Specifications – S4732E 12

Chapter 3 – Safety

Electrocution Hazards 13
Minimum Safe Approach Distance – ANSI 13
Minimum Safe Approach Distance – AS/NZS 14
Platform Capacity 14
Manual Force 14
Wind Speeds 14
Prestart Inspection 14
Work Place Inspection and Practices 14
Operation 15
Tip-Over and Falling Hazards 15
Electrical System 16
Hydraulic System 16
Placards and Decals 16
General Safety Rules 16

Chapter 4 – Safety Devices

Emergency Stop Controls 19
Control Select/Ground Operation Switch 19
Upper Control Interlock Switch 19
Drive Motion Alarm 20
Pothole Protector Skids 20
Drive/Lift Pothole Protector Interlock 20
Drive/Lift Level Sensor Interlock 20
Progressive Tilt 20
Lowering Alarm 20
Emergency Lowering Lever/Handle 21
Safety Prop 21
Guardrails 21
Ground Fault Circuit Interrupter 22
Tilt Alarm 22
Overload Protection 22
Lowering Interrupt – CE/AS/NZS 22
Horn 22
Flashing Light 22
Snorkel Guard 22
Perimeter Lights 23

Chapter 5 – Gauges and Displays

Battery Charge Indicator – ProCharger 25
Battery Charge Indicator – Pylon 25
Battery Condition Indicator 25
Diagnostic Center Display 26

Chapter 6 – Batteries

General Maintenance 27
Charging 27

Chapter 7 – Controls

Battery Disconnect 29
Lower Controls 29
  Emergency Stop Button 29
  Control Selector/Ground Operation Switch 29
  Platform Raise/Lower Switch 29
Upper Controls 30
  Emergency Stop Button 30
  Drive/Lift Selector Switch 30
  Joystick 30
  Interlock Switch 31
  Steer Switch 31
  Drive Range Switch 31
  Horn Button 31
  Battery Condition Indicator 31
Loading Controls 31
  Emergency Stop Button 31
  Interlock Button 32
  Drive Switch 32
  Steer Switch 32
  Override Switch 32

Chapter 8 – Prestart Inspection

Operator's Manual 33
Electrical System 33
  Battery Fluid Level 33
  Battery Terminals 34
  Battery Charger 34
Safety Prop 34
Cables and Wiring Harness 35
Hydraulic System 35
  Fluid Level 35
  Hoses, Tubes, and Fittings 35
  Free-Wheeling Valve 36
Diagnostic Center Display 36
Tires and Wheels 36

MidWestTech | Snorkel S3215L, S3215E, S3219E, S3220E, S3226E, S4726E, S4732E Scis... Order the manual at mid-west-tech.com >

Ground Strap....36
Lower Control Station....36
Operating Controls....36
Emergency Stop....37
Lowering Alarm....37
Pothole Protector Interlock....37
Emergency Lowering System....38
Structures....38
Weldments....38
Rollers and Slide Blocks....39
Fasteners....39
Upper Control Station....39
Guardrail System....39
Platform Extension – Foot Activated Deck Lock....39
Platform Extension – Handle Lock....40
Operating Controls....41
Emergency Stop....42
Horn Button....42
Lowering Alarm....42
Drive Alarm....42
Electrical Power Outlet....42
Flashing Light....42
Perimeter Lights....43
Pipe Rack....43
Panel Carrier....43
Placards and Decals....43
Prestart Inspection Checklist....46

Chapter 9 – Operation
Preparing for Operation....47
Lower Controls....47
Upper Controls....47
Removable Upper Controls/Side Drive....48
Platform....48
Raising and Lowering....48
Lowering Interrupt – CE/AS/NZS....48
Overload Protection....49
Extending – Foot Activated Deck Lock....49
Extending – Handle Lock....50
Fold Down Guardrails....50
Driving and Steering....50
Drive Range Switch....51
Drive Speeds....51
Drive/Lift Pothole Protector Interlock....51
Drive/Lift Level Sensor Interlock....52
Progressive Tilt....52
Swing-Out Trays....52
Electrical Power Outlet....52
Pipe Rack – Top Rail Mount....53
Pipe Rack – Guardrail Mount S3219E Only....54
Panel Carrier....55
Snorkel Guard....55
Override Button....56
Snorkel OnSite....56
Perimeter Lights....56
After Use Each Day....56

Chapter 10 – Stowing and Transporting
Stowing....57
Transporting....57
Lifting With a Forklift....57
Winching....57
Driving....60
Hoisting....61
Securing for Transport....62
Storage....62

Chapter 11 – Emergency Operation
Emergency Lowering....63
Towing....63

Chapter 12 – Troubleshooting
Troubleshooting Chart....67

Appendix A – Glossary

Appendix B – Inspection Checklists

Appendix C - EC Declaration of Conformity

Appendix D – Progressive Tilt

Limited Warranty

MidWestTech | Snorkel S3215L, S3215E, S3219E, S3220E, S3226E, S4726E, S4732E Scis... Order the manual at mid-west-tech.com >

General Specifications – S4732E

Aerial Platform

Working height	38' (11.6 m)
Maximum platform height	32' (9.8 m)
Turning radius	
Inside	21" (53.3 cm)
Outside	95" (2.41 m)
Wheelbase	69.72" (1.77 m)
Ground clearance	
Pothole protector raised	2.63" (6.68 cm)
Pothole protector lowered	0.75" (1.9 cm)
Maximum wheel load	2,730 lbs (1241 kg)
Maximum ground bearing pressure – ANSI	325 psi (15.8 kg/cm²)
Maximum ground bearing pressure – CE/AS/NZS	245 psi (17.2kg/cm²)
Floor load pressure – ANSI	250 psf (1221 kg/m²)
Floor load pressure – CE/AS/NZS	260 psf (1269 kg/m²)
Tread contact patch	9.0 in² (58.2 cm²)
Floor area	27.7 ft² (2.57 m²)
Weight, EVW – ANSI	
Approximate	5,700 lbs (2591 kg)
Weight, EVW – CE/AS/NZS	
Approximate	5,925 lbs (2693 kg)
Maximum allowable manual force (side pull)	
Indoors	90 lbs (400 N)
Outdoors	45 lbs (200 N)
Stowed width	47" (1.20 m)
Stowed length	90.6" (2.30 m)
With step removed	88.7" (2.25 m)
Stowed height	94.2" (2.39 m)
With rails folded	76.88" (1.95 m)

Platform

Dimensions	
Main	43" x 84.38" (109.2 cm x 214.3 cm)
Extension	43" x 48" (109.2 cm x 121.9 cm)
Total length with extension	132.38" (336.2 cm)
Guardrail height	43.3" (1.1 m)
Toeboard height	6" (15.2 cm)
Rated work load	
Total – ANSI	700 lb (318 kg)
Total – CE/AS/NZS	770 lb (350 kg)
Total – CE/AS/NZS Option	700 lb (318 kg)**
Extension	250 lb (113 kg)
Maximum number of occupants	1 outdoors 2 indoors

Function Speed

Platform raise	46 to 50 seconds
Platform lower	52 to 58 seconds
High Drive	
Platform lower than 6' (1.8 m)	0 to 2 mph (0 to 3.2 km/h)
Low Drive	
Platform higher than 6' (1.8 m)	0 to 0.4 mph (0 to 0.6 km/h)

Drive System

Standard	Two-wheel drive
Gradeability	25%
Maximum drive height	32' (9.8 m)

Drive/Lift Level Sensor Interlock

Side-to-side – ANSI	2 degrees*
Side-to-side – CE/AS/NZS	1.5 degrees*
Front-to-rear	4 degrees

Tires

Nonmarking solid rubber	15" x 5" (38.1 cm x 12.7 cm)

Electrical System

Voltage	24 V DC
Source	Four - 6 V 240 amp hour batteries
Fluid recommended	distilled water
Charger	25 amp
Input	120/240 V

Hydraulic System

Maximum pressure	3,300 psi (22,750 kPa)
Reservoir capacity	4.5 US gal (17 l)
System capacity	5 US gal (19 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

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)

Vibration

Hand/arm	less than 2.5 m/sec²
Body	less than 0.5 m/sec²

Sound Pressure Level

At work station	73 dB(A)

Group Classification

Heavy Duty – intended life	100,000 load cycles

** Refer to Chapter 4 – Safety Devices, Progressive Tilt*
*** Refer to Serial Number placard at rear of machine.*

MidWestTech | Snorkel S3215L, S3215E, S3219E, S3220E, S3226E, S4726E, S4732E Scis... Order the manual at mid-west-tech.com >

- Hold the switch upward to raise the platform.
- Hold the switch downward to lower the platform.
- An alarm will sound as the platform lowers.

Upper Controls

The upper controls (refer to Figure 7.3) are located on the control panel in the platform. The upper control pendant is located at the right front of the platform. Platform and drive functions can be operated from the upper controls.

⚠Warning

The potential for an accident increases from improperly driving or steering the aerial platform. Death or serious injury could result from such accidents. Make sure the upper control panel is securely fastened inside the platform and facing the front of the machine.

Avoid driving the platform with the upper controls facing the rear or side of the machine. In this position the machine is difficult to control because the drive and steer control movements and their resulting machine movements will not correspond.

Only operate the upper controls when the upper control panel is securely fastened inside the platform and facing the front of the machine. Some machines may have an optional removable upper control panel. Remove the pin to remove the panel from the guardrails.

The following are located on the upper control panel:

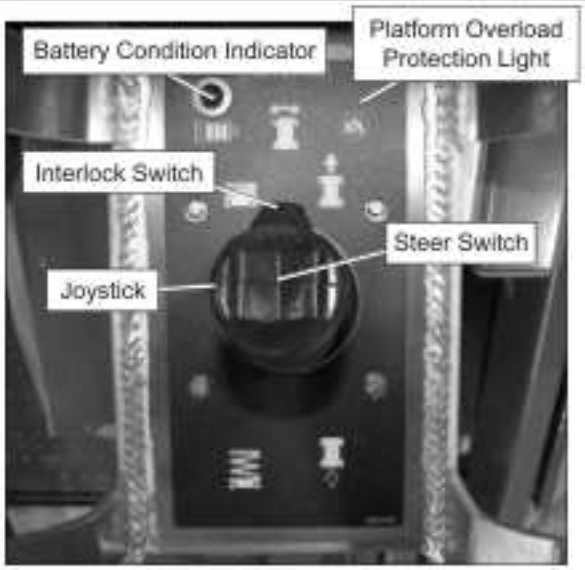
- Emergency stop button
- Drive/lift selector switch
- Drive range switch
- Joystick to control platform lift, drive, and steer
- Horn button
- Battery condition indicator
- Platform overload protection light

Emergency Stop Button

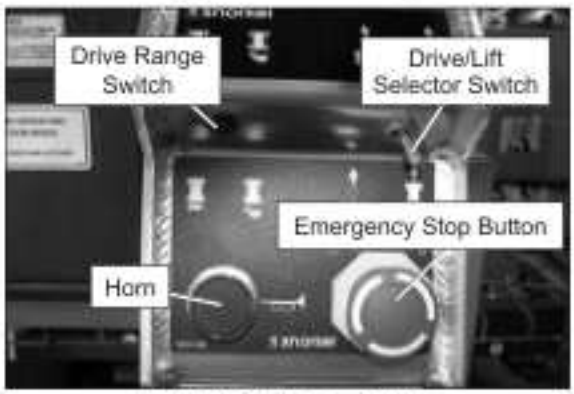
The emergency stop (refer to Figure 7.3) is a two-position, red push button on the front of the upper control panel.

- Push the button inward to disconnect power from all control circuits at the upper controls.
- Pull the button outward to restore power. Some early buttons require twisting to restore power.
- **Push the emergency stop button inward when the upper controls are not in use to protect against unintentional operation.**

Note
On ANSI machines, the lower controls override the upper controls. If the upper control emergency stop button is engaged, the lower controls can still be used to operate the aerial platform. On CE/AS/NZS machines, if one emergency stop is engaged the machine will not operate.



Upper Controls – Top



Upper Controls – Front

Figure 7.3 – Upper Controls

Drive/Lift Selector Switch

The drive/lift selector switch (refer to Figure 7.3) is used to select either machine drive or lift functions. Both functions can not be operated at the same time.

- Place the drive/lift selector switch in the drive position to drive the aerial platform using the joystick. The platform will not raise or lower while driving.
- Place the drive/lift selector switch in the lift position to raise and lower the platform using the joystick.

Joystick

Use the joystick (refer to Figure 7.3) to operate the following functions:

- Aerial platform steering
- Aerial platform drive and speed
- Platform raise/lower and speed

MidWestTech | Snorkel S3215L, S3215E, S3219E, S3220E, S3226E, S4726E, S4732E Scis... Order the manual at mid-west-tech.com >

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	
System pressures	Check system relief pressure	System Relief Pressure S3215L Only 3,200 to 3,300 psi (220 to 227 bar) System Relief Pressure 2,900 to 3,100 psi (200 to 214 bar)	

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

Performed by:_____ Date:_____

Model:_____ Serial Number:_____

MidWestTech | Snorkel S3215L, S3215E, S3219E, S3220E, S3226E, S4726E, S4732E Scis... Order the manual at mid-west-tech.com >

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.

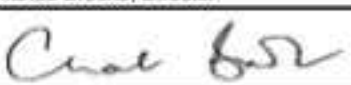
The driving of MEWP's on the public highway is subject to national traffic regulations.

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.

MidWestTech | Snorkel S3215L, S3215E, S3219E, S3220E, S3226E, S4726E, S4732E Scis... Order the manual at mid-west-tech.com >

snorkel	This declaration is issued under the sole responsibility of the manufacturer
Manufacturer's name and full address	Snorkel Europe Ltd Vigo Centre, Birtley Road, Washington, Tyne & Wear, NE38 9DA, UK
Description and identification of the machinery	
Product description	Mobile elevating work platform
Models	S3219E
Serial numbers	XXXXXX - _ _ - _ _ _ _ - _ _ _ _ _ (model)-(manufacturer)-(YYMM)-(5-digit sequential starting at 00001)
EU DECLARATION OF CONFORMITY	
This machinery conforms to all the requirements of the Machinery Directive 2006/42/EC	
This machinery also conforms to	EMC Directive 2014/30/EU; Noise Emissions directive 2000/14/EC
The following standards have been used	EN 12100: 2010, EN 280-1:2022, EN 60204-1: 2018
The machinery has been examined by	Kuiper Certificering **Kuiper Certificering B.V** Van Slingelandtstraat 75, 7331 NM Apeldoorn, NL
Notified Body No	2842
Certificate Number	KCEC5444
Name and address of the person authorised to compile the technical file	Ahern Deutschland GmbH Unter den Eichen 13 - D57635 Weyerbusch Germany
UK DECLARATION OF CONFORMITY	
This machinery fulfils all the relevant provisions of the Supply of Machinery (Safety) Regulations 2008 (SI 2008/1597) as amended (SI 2011/1043, SI 2011/2157, SI 2019/696).	
This machinery fulfils all the relevant provisions of the Electromagnetic Compatibility Regulations 2016 (SI 2016/1091) as amended (SI 2017/1206, SI 2019/696).	
This machinery fulfils all the relevant provisions of the Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001 (SI 2001/1701) as amended (SI 2001/3958, SI 2005/3525, 2015/98).	
The following standards have been used	EN 12100: 2010, EN 280-1:2022, EN 60204-1: 2018
The machinery has been examined by	amtri veritas **Amtri Veritas Ltd** Veritas House, Pierce St, Macclesfield, SK11 6ER, UK
Approved Body No	463
Certificate Number	AVUK5444
Name and address of the person authorised to compile the technical file	Snorkel Europe Ltd Vigo Centre, Birtley Road, Washington, Tyne & Wear, NE38 9DA, UK
Person authorised to make this declaration	
Name, Function	Charles Brooks, Director
Signature	
Place of Declaration	Snorkel Europe Ltd Vigo Centre, Birtley Road, Washington, Tyne & Wear, NE38 9DA, UK
Date of Declaration	06/08/2025

SAMPLE

MidWestTech | Snorkel S3215L, S3215E, S3219E, S3220E, S3226E, S4726E, S4732E Scis... Order the manual at mid-west-tech.com >