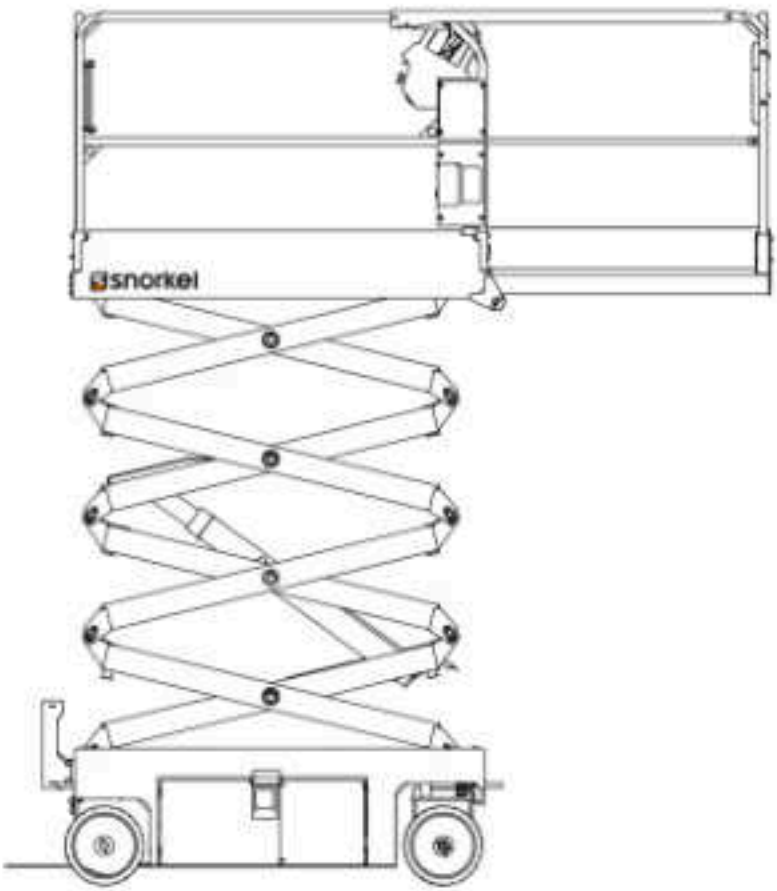
snorkel

S4740E



CE

OPERATOR'S MANUAL

Part Number 1503332
July 2025
Original Instructions

ANSI/CSA/CE/AS/NZS
Replaces May 2024

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Appendix B – Inspection Checklists

Limited Warranty

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General Specifications – S4740E Electric Drive

Aerial Platform

Working height	45.4′ (13.83 m)
Maximum platform height	40′ (12.2 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	2,700 lbs (1225 kg)
Maximum ground bearing pressure	410 psi (28.9 kg/cm²)
Floor load pressure	266 psf (1303 kg/m²)
Tread contact patch	9.0 in² (58.2 cm²)
Floor area	27.7 ft² (2.57 m²)
Weight, EVW	
Standard capacity approximate	7,160 lbs (3248 kg)
High capacity approximate	7,600 lbs (3447 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	101″ (2.56 m)
With rails folded	76″ (1.93 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	
Standard capacity total	550 lb (250 kg)
High capacity total	770 lb (350 kg)
Extension	250 lb (113 kg)
Maximum number of occupants	1 outdoors 2 indoors

Function Speed

Platform raise	68 to 71 seconds
Platform lower	72 to 75 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 electric	Two-wheel drive
Gradeability	25%
Maximum drive height	40′ (12.2 m)

Drive/Lift Level Sensor Interlock

Side-to-side	1.5 degrees*
Front-to-rear standard capacity	4 degrees*
Front-to-rear high capacity	3.5 degrees*

Tires

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

Electrical System

Voltage	24 V DC negative chassis ground
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	6 US gal (22.7 l)
System capacity	6.5 US gal (24.6 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*

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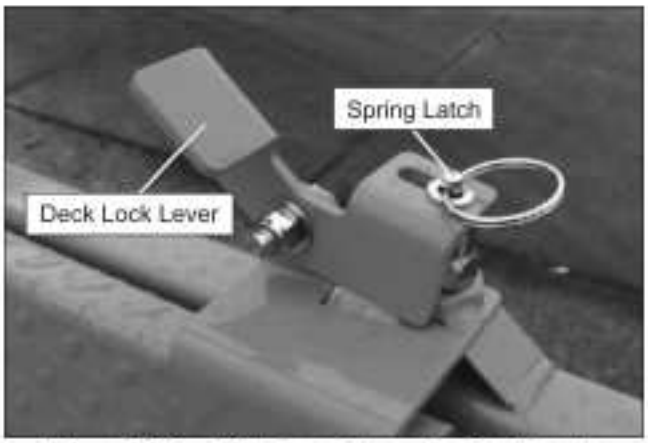


Figure 8.18 – Platform Extension Deck Lock

3. Inspect the rollers on the platform extension. They must be in place, in good condition, and free to move without obstruction.

4. Inspect the weldments for deformation and damage. Try to move the rails back and forth to make sure the platform extension deck fully locks in position.

5. Visually check the platform welds for cracks.

6. While facing the front of the platform, grasp the platform extension handles and raise them. Step on the deck lock lever (refer to Figure 8.18) to release the spring latch pin and pull the extension deck backward to retract the deck. Make sure the platform extension deck is locked in position.

7. Fully lower the handles and ensure they are locked in their stowed position (refer to Figure 8.17).

Operating 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.

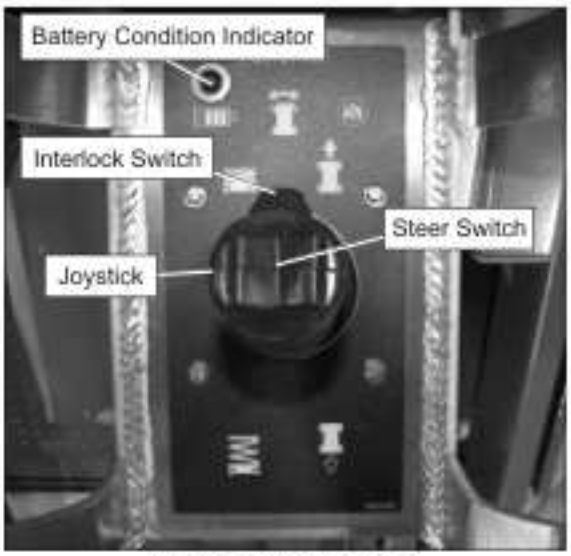
Use the following procedure to operate and test the machine from the upper controls:

1. Make sure the battery disconnect is turned on.

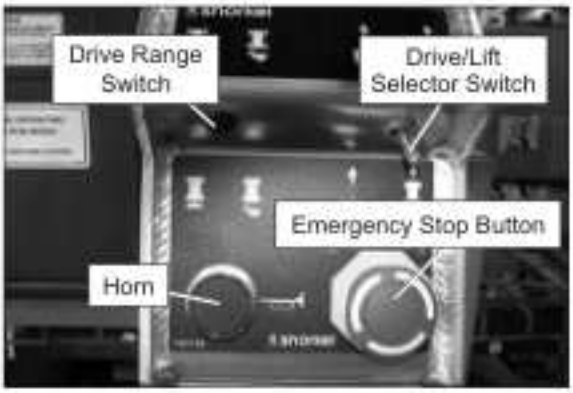
2. At the lower controls, pull the emergency stop button outward.

3. Turn the control select/ground operation switch to the upper control position.

4. At the upper controls (refer to Figure 8.19), pull the emergency stop button outward.



Upper Controls – Top



Upper Controls – Front

Figure 8.19 – Upper Controls

⚠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 interlock switch by moving the joystick without engaging the interlock switch.

   If movement occurs, the interlock is not functioning properly. Do not operate the machine until the problem is corrected.

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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	
System pressures	Check system relief pressure	System Relief Pressure 3,200 to 3,300 psi (220 to 228 bar)	

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 1).

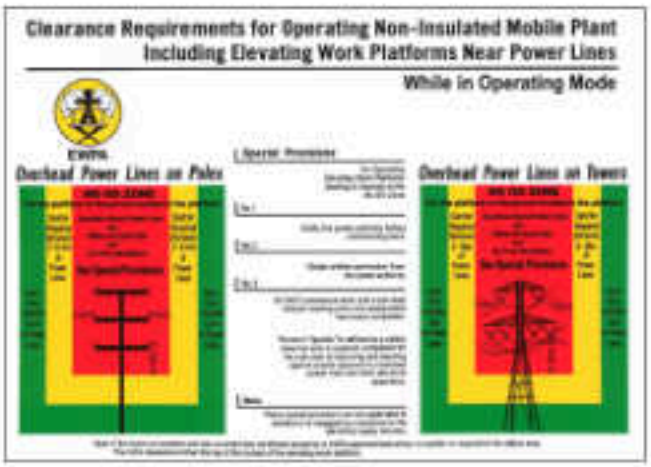


Figure 1 – Minimum Safe Approach Distance

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 is limited to 45 lbs (200 N) of force per occupant, with a maximum of 90 lbs (400 N) for all occupants.

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 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 2 – Beaufort Scale

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