snorkel

# 600S



CE

# OPERATOR'S MANUAL

Part Number 1433542
May 2024

ANSI/CSA/CE/AS/NZS
Replaces March 2023


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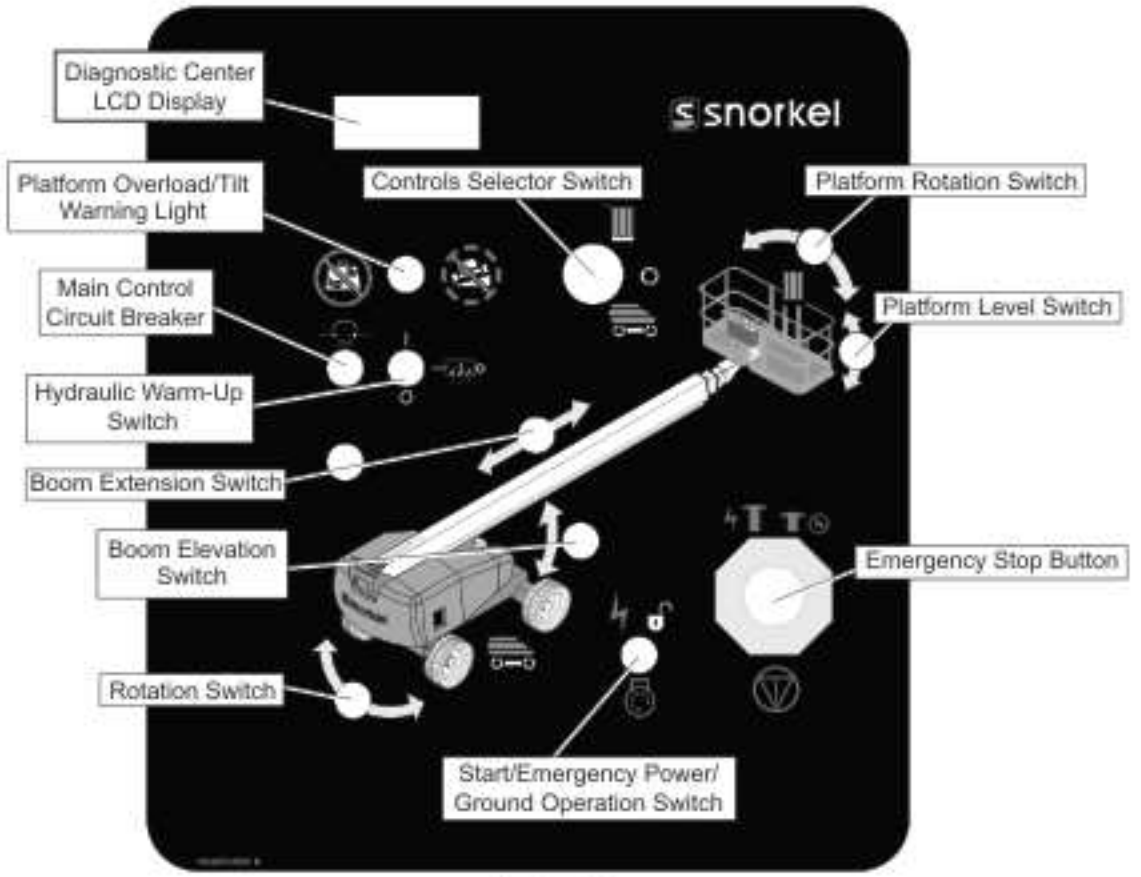
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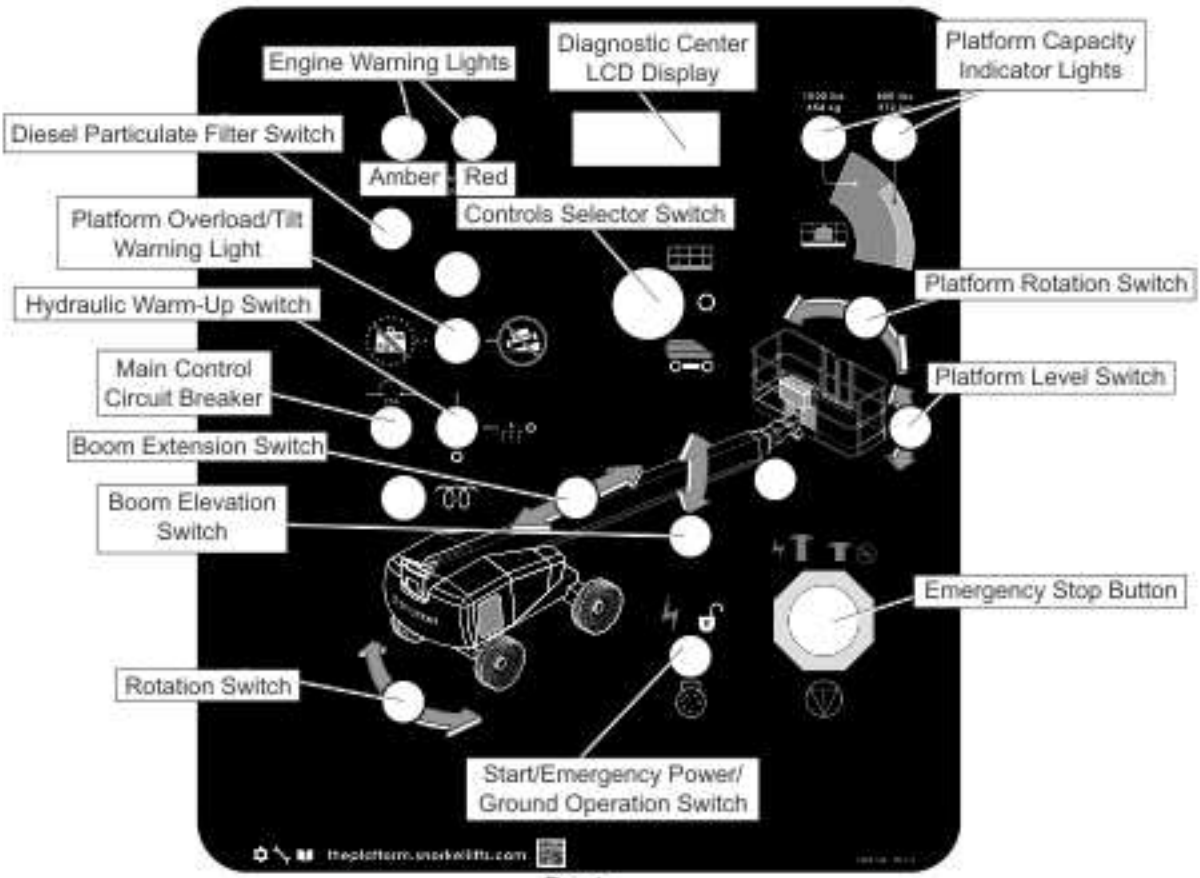
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**Cummins**




**Deutz**

**Figure 6.2 – Lower Controls**



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**Figure 8.20 – Pipe Rack Rated Load and Platform Capacity**

A pipe rack decal is located on the front of each support at the rear of the platform.

The platform rated work load is the total weight of the personnel and equipment that may be lifted in the platform.

Capacity values indicate the rated lifting capacity and do not indicate aerial platform stability.

The load carried in the pipe rack reduces the platform capacity by the weight of the load being carried.

The platform capacity is reduced by the weight of the two supports and by the weight of the load being carried.

### ⚠Danger

**The aerial platform can tip over if it becomes unstable. Death or serious injury will result from a tipover accident. Do not exceed the stated pipe length requirements or use with any other platform option.**

The pipe rack is not to be used with any other platform option.

When loading the pipe rack:

- Pipe length cannot exceed 10 feet (305cm).
- The height of the pipes in the rack cannot exceed 6 inches (150mm).
- The load in the racks cannot exceed 150 lbs (68kg).
- Pipes must be centered and overhangs must be equal.

The operator bears ultimate responsibility for ensuring that the aerial platform is properly set up for the particular condition encountered.

Use the following procedure to load the pipe rack.

1. Make certain no one is beneath the platform when operating the machine with the pipe racks loaded.
2. At the front and rear, press on the latch lever to release the latch and unfasten the straps.
3. Place the load evenly on the left and right cradles. Do not exceed the rated load on the pipe rack per pair of supports. Refer to the capacity decals on the pipe rack supports and Figure 8.20.
4. Feed the straps through the latch and pull on the straps to secure the load.
5. Secure the load in the racks before operating machine functions.

## Snorkel OnSite

Snorkel OnSite is powered by Trackunit telematics. OnSite provides real-time access to machine information such as machine status (on/off), hours, location, and battery level. This data can help identify usage and maintenance trends to maximize operator efficiency. An optional keypad may be used to limit access to only authorized personnel by PIN code or RFID card.

For more information, please refer to the Trackunit information provided with the machine. For Trackunit Technical Support email supportus@trackunit.com or phone 1-844-661-0340. When contacting Trackunit Technical Support, have the Trackunit serial number, (7 digits starting with 3) available to aid in troubleshooting. The serial number can be found on the fleet list or under Fleet/Unit Page/Telematics tab.

## Tire Pressure Monitoring System – Flotation Tires Only

There are two tire pressure warning lights on the lower and upper control panels (refer to Figure 8.21).



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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 | Dexron III ATF | |
| Hydraulic return filter | Replace | After first 50 hours, then at recommended interval | |
| Hydraulic high pressure filter | Clean and reinstall | | |
| Hydraulic pressures | Pump setting | Standby pressure: 300 psi | |
| | Function pressures | Boom up: 2,900 – 3,000 psi | |
| | | Boom down: 1,750 – 1,850 psi | |
| | | Steer: 1,100 – 1,200 psi | |
| | | Level: 2,800 – 2,950 psi | |
| | | Extend/Retract: 2,850 – 2,950 psi | |
| | | Swing: 1,450 – 1,550 psi | |
| Gear hubs | Replace fluid | SAE Grade 80W-90 | |
| Swing drive | Replace fluid | Sae Grade 80W-90 | |
| Engine coolant | Check condition | See engine owner's manual | |

*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**



**THIS MACHINE IS NOT INSULATED!**

**Tip Over Hazard**



**NEVER** elevate the platform or drive the machine while elevated unless the machine is on a firm, level surface

**Collision Hazard**



**NEVER** position the platform without first checking for overhead obstructions or other hazards.

**Fall Hazard**



**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.

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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## 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).

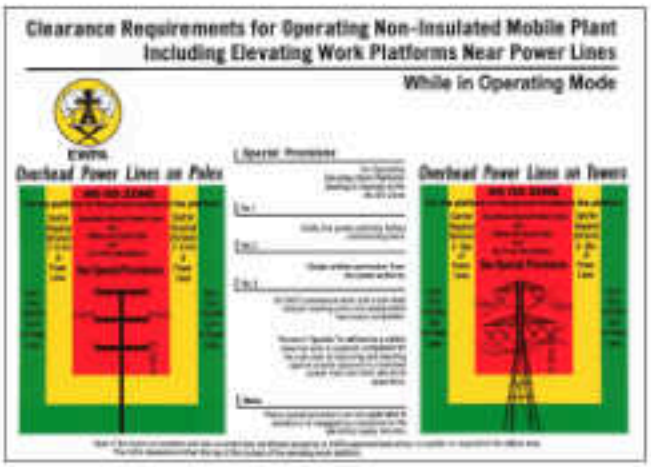



**Figure 1 – Minimum Safe Approach Distance**

## Platform Capacity

Two people and their work materials may occupy the 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 capacity values indicated on the machine decals, placards, and in the machine specifications in this manual.**

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.

## 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 two 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 7. 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.

| 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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