

■ Safe Operation

Knowledge of the information in this manual, and proper training, provide a basis for safely operating the S2255RT / S2755RT. Know the location of all the controls and how they operate to act quickly and responsibly in an emergency.

Safety devices reduce the likelihood of an accident. Never disable, modify, or ignore any safety device. Safety alerts in this manual indicate situations where accidents may occur.

If any malfunction, hazard or potentially unsafe condition relating to capacity, intended use, or safe operation is suspected, stop the operation of the S2255RT / S2755RT and seek assistance.

The operator bears ultimate responsibility for following all manufacturers instructions and warnings, regulations and safety rules of their employer and/or any country or regional law.

■ Pre-start Inspection

At the start of each work shift, the S2255RT / S2755RT shall be given a visual inspection and function test. See the Daily Inspection and Maintenance chapter , in this manual for a list of items to inspect and test.

▲ WARNING

DO NOT operate the S2255RT / S2755RT unless you are trained and authorized, understand the operation characteristics of the S2255RT / S2755RT, and have inspected and tested all functions to be sure they are in proper working order.

■ Work Place Inspection and Practices

Do not use the S2255RT / S2755RT as a ground for welding. Ground to the work piece.

Before the S2255RT / S2755RT is used, and during use, check the area in which the S2255RT / S2755RT is to be used for possible hazards such as, but not limited to:

- Drop-offs or holes.
- Side slopes.
- Bumps and floor obstructions.
- Debris.
- Overhead obstructions and electrical conductors.
- Hazardous locations.
- Inadequate surface and support to withstand all load forces imposed by the aerial platform in all operating configurations.

- Wind and weather conditions.
- Presence of unauthorized persons.
- Other possible unsafe conditions.

Before the S2255RT / S2755RT is used, determine the hazard classification of any particular atmosphere or location according to ANSI/NFPA 505-1987.

Any S2255RT / S2755RT operated in a hazardous location must be approved and of the type required by ANSI/NFPA 505-1987.

While operating the S2255RT / S2755RT a recommended safety practice is to have trained and qualified personnel in the immediate work area of the S2255RT / S2755RT to:

- Help in case of an emergency.
- Operate emergency controls as required.
- Watch for loss of control by platform operator.
- Warn the operator of any obstructions or hazards that may not be obvious to them.
- Watch for soft terrain, sloping surfaces, drop-offs, etc., where stability could be jeopardized.
- Watch for bystanders and never allow anyone to be under, or to reach through the booms while operating the aerial platform.

▲ DANGER

Pinch points may exist between moving components. Death or serious injury can result from becoming trapped between components, buildings, structures, or other obstacles. Make sure there is sufficient clearance around the machine before moving the chassis, booms, or platform. Allow sufficient room and time to stop movement to avoid contact with structures or other hazards.

Keep ground personnel from under the platform when the platform is raised.

Secure all accessories, containers, tools, and other materials in the platform to prevent them from accidentally falling or being kicked off the platform.

Always look in the direction of travel. Drive with care and at speeds compatible with the work-place conditions. Use caution when driving over rough ground, on slopes, and when turning.

Do not engage in any form of horseplay or stunt driving while operating the S2255RT / S2755RT.

1. Safety

Do not permit riders on the machine anywhere other than on the platform.

Remove all loose objects stored in or on the machine, particularly in the platform. Remove all objects which do not belong in or on the machine.

Never steady the platform by positioning it against another platform.

Do not operate an S2255RT / S2755RT that is damaged or not functioning properly. Do not use the S2255RT / S2755RT until the machine has been repaired by a qualified maintenance person.

Do not operate a S2255RT / S2755RT that does not have all its decals and placards attached and legible.

Watch for bystanders and never allow anyone to be under, or to reach through, the machine and its equipment while operating.

Use the recommended transport device when loading the machine.

■ Operation

If you encounter any suspected malfunction of the aerial platform, or any hazard or potentially unsafe condition relating to capacity, intended use, or safe operation, cease operation immediately and seek assistance from management.

Use three points of support when getting on or off the platform (two hands and one foot or a similar set of points). Keep the platform clean.

Maintain a firm footing on the platform floor. Operate the controls slowly and deliberately to avoid jerky and erratic operation. Always stop the controls in neutral before going in the opposite direction.

Do not dismount while the platform is in motion or jump off the machine.

Do not start until all personnel are clearly away from the machine.

Never cover the floor grating or otherwise obstruct your view below. Make sure the area below the platform is free of personnel before lowering.

■ Tipover and Falling Hazards

Operate the S2255RT / S2755RT only on a firm, flat, level surface capable of withstanding all load forces imposed by the S2255RT / S2755RT in all operating conditions.

▲ DANGER

The S2255RT / S2755RT can tip over if it becomes unstable. Death or serious injury

can result from a tip-over accident. Do not drive or position the S2255RT / S2755RT platform for elevated use near any drop-off, hole, slope, soft or uneven ground, or other tip-over hazard.

Do not operate the S2255RT / S2755RT from a position on trucks, trailers, railway cars, floating vessels, scaffolds, or similar equipment unless the application is approved in writing by Snorkel.

Care shall be taken to prevent rope, electric cords, and hoses, etc., from becoming entangled in the aerial platform. If the platform or elevating assembly becomes caught, snagged, or otherwise prevented from normal motion by an adjacent structure or other obstacle such that control reversal does not free the platform, remove all personnel from the platform before attempts are made to free the platform using ground controls.

Under normal working conditions it is best not to transfer from the platform to another structure or vice versa, unless that is the safest way to do the job. Each situation must be judged separately taking the work environment into account. The following guidelines apply:

1. Where possible, place the work platform over a roof or walking structure to do the transfer.
2. Transfer your anchorage from one structure to another before you step across.
3. Remember, you might be departing the work platform to a structure where fall arrest is required.
4. Do not climb over or through the guardrails. Use the platform entrance.

All platform occupants **MUST** wear and use fall restraint. Attach fall restraints to the platform lanyard anchor points.

Do not exceed the unrestricted platform capacity as indicated on the capacity placard at the entrance to the platform. Do not carry loads from any point outside of the platform.

Make sure that all protective guards, cowlings, and doors are in place and secure. Be sure the guard-rail system, including the gate, is in place and secure.

Do not climb on the guardrails or use ladders, planks, or other devices to extend or increase your work position from the platform.

Do not use the S2255RT / S2755RT as a crane, hoist, or jack, or for any other purpose other than to position personnel, their tools, and materials.

Do not operate the S2255RT / S2755RT in winds, or wind gusts, of 28 mph, 45kph 12.5 m/s) or more.

▲ DANGER

Do not add banners, flags, screens or shelters etc., to areas of the S2255RT / S2755RT that are exposed to wind forces as this will increase the wind loading and effect stability.

■ General Safety Precautions

Do not modify the S2255RT / S2755RT in any way.

When parts or components are replaced, they shall be identical or equivalent to original Snorkel parts or components.

Do not override any of the safety features of the S2255RT / S2755RT.

■ Hydraulic System Precautions

The hydraulic system contains hoses with hydraulic fluid under pressure.

▲ DANGER

Hydraulic fluid escaping under pressure can have enough force to inject fluid into the flesh. Serious infection or reaction can result if medical treatment is not given immediately. In case of injury by escaping hydraulic fluid, seek medical attention at once.

DO NOT place your hand or any part of your body in front of escaping hydraulic fluid. Use a piece of cardboard or wood to search for hydraulic leaks.

Do not attempt repairs to hydraulic systems unless you are trained. Refer to experienced repair personnel for help.

■ Fire Prevention

Never operate your machine near a flame or spark. Hydraulic oil and gasoline are flammable and can explode.

■ Engine and Fuel Handling Precautions

▲ DANGER

Engine exhaust contains carbon monoxide, a poisonous gas that is invisible and odorless. Breathing engine exhaust fumes can cause death or serious illness. Do not run the engine in an enclosed area or indoors without adequate ventilation.

Only refuel your machine outdoors in a clear area void of gas fumes or spilled gas.

Never remove the fuel cap or refuel a gasoline engine while the engine is running or hot. ALWAYS allow the engine to cool before refueling. Never allow fuel to spill on hot machine components.

▲ CAUTION

DO NOT smoke or permit open flames while fueling or near fueling operations.

Maintain control of the fuel filler nozzle when filling the tank.

▲ WARNING

ENSURE you use an approved fuel container with appropriate fuel filler nozzle

Do not fill the fuel tank to capacity. Allow room for expansion.

If gasoline is spilled, clean up spilled fuel immediately, push/tow the S2255RT / S2755RT away from the area of the spill and avoid creating any source of ignition until the spilled fuel has evaporated.

Tighten the fuel tank cap securely. If the fuel cap is lost, replace it with an approved cap from Snorkel. Use of a non-approved cap without proper venting may result in pressurization of the tank.

Never use fuel for cleaning purposes.

For diesel engines, use the correct fuel grade for the operating season.

■ Batteries

Charge batteries in a well ventilated area free of flame, sparks, or other hazards that might cause fire or explosion.

▲ WARNING

Batteries give off hydrogen and oxygen that can combine explosively. Death or serious injury can result from a chemical explosion. Do not smoke or permit open flames or sparks when checking batteries.

Battery acid can damage the skin and eyes. Serious infection or reaction can result if medical treatment is not given immediately. Wear face and eye protection when working near batteries.

1. Safety

Batteries contain sulfuric acid that can damage your eyes or skin on contact. Wear a face shield, rubber gloves, and protective clothing when working around batteries. If acid contacts your eyes, flush immediately with clear water and get medical attention. If acid contacts your skin, wash off immediately with clear water.

■ Safety Decals and Placards

There are several safety decals and placards on the S2255RT / S2755RT. Their locations and descriptions are shown in this section. Take time to study them.

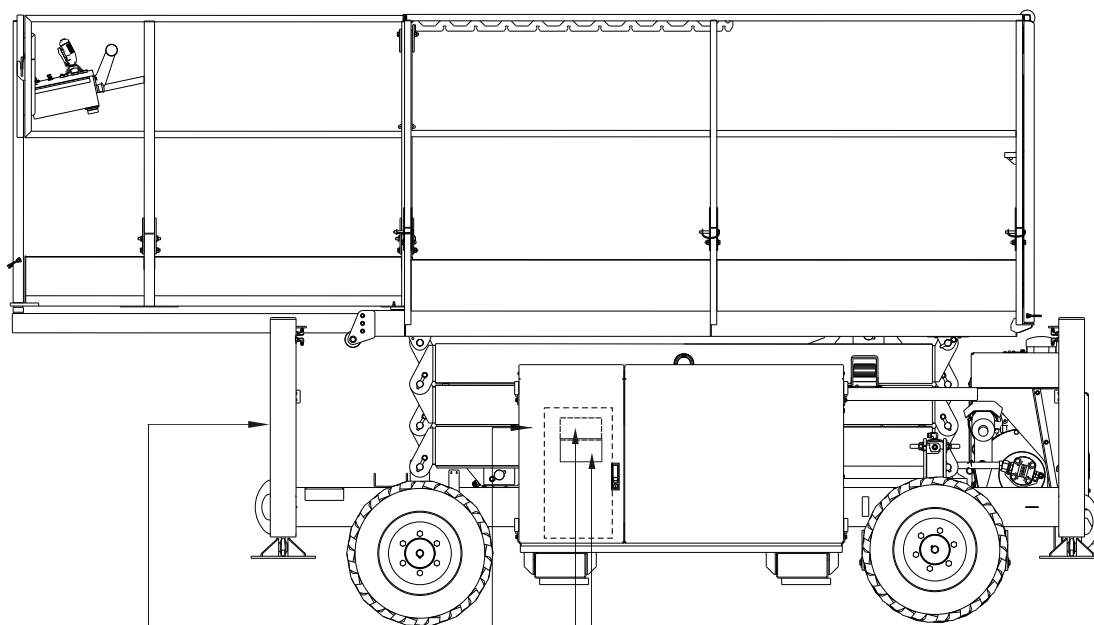
▲ CAUTION

Be sure that all the safety decals and placards on the S2255RT / S2755RT are legible. Clean or replace them if you cannot read the words or see the pictures. Clean with soap & water and a soft cloth. Do not use solvents.

You MUST replace a decal or placard if it is damaged, missing, or cannot be read. If it is on a part that is replaced, make sure a new decal or placard is installed on the replaced part. See your Snorkel dealer for new decals and placards.

■ Safety Placards and Decals Location

LEFT HAND SIDE OF THE SR



On Fuel Tank Inside Cabinet & Outside Of Cabinet & on Cabinet Door



On all 4 Stabilisers

1. Safety

RIGHT-HAND SIDE OF SR




⚠ DANGER

SHEARING HAZARD/CRUSHING HAZARD
Death or serious injury might result from having body parts sheared or crushed as the platform descends. Keep away from closing scissor arms and keep out from under the platform as the platform comes down.

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EMERGENCY OPERATION

1. EMERGENCY LOWERING
In the event of total power failure pull the emergency lowering handle [A] mounted at the front of the chassis until the platform starts to descend. Once the platform is lowered the handle can be released.



2. TOWING OR PUSHING THE MACHINE

⚠ DANGER

A runaway machine can cause death or Serious Injury. Do Not proceed unless the machine is on a level surface or is attached to an object that can hold the machine on a slope.

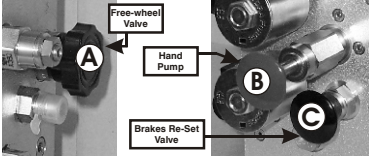
⚠ CAUTION

The machines Drive motors will be ruined if the machine is pushed or towed faster than 3.2 kph (2 mph).
In order to push or tow the machine the following steps **MUST** be taken.

Free-wheel the Drive Motors
Open the free-wheeling valve [A] by turning counterclockwise until the knob stops.

Release the Brakes
To release the brakes, pump the hand pump [B] 5 - 10 times. The brakes will now be released and the machine is ready to be pushed / towed.

Resetting the Brakes
Once the machine has been safely pushed / towed it is **IMPORTANT** to re-apply the brakes by pulling the re-set valve [C] and close the free-wheel valve [A] by turning fully clockwise.



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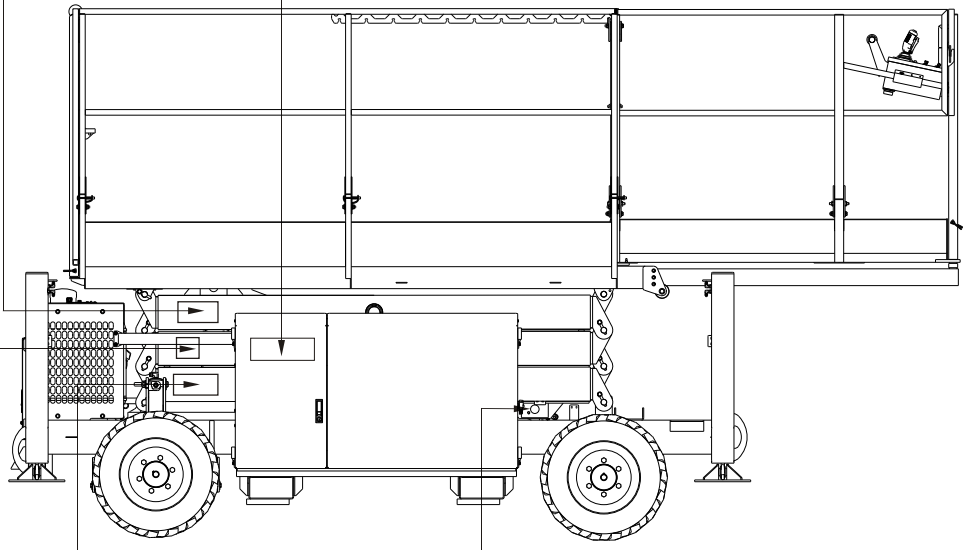
⚠ DANGER

YOU MUST NOT OPERATE THIS DEVICE UNLESS:

1. YOU HAVE BEEN TRAINED IN THE SAFE OPERATION OF THIS DEVICE AND
2. YOU KNOW AND FOLLOW THE SAFETY AND OPERATING RECOMMENDATIONS CONTAINED IN THE MANUFACTURER'S MANUALS, YOUR EMPLOYER'S WORK RULES, AND APPLICABLE GOVERNMENTAL REGULATIONS.

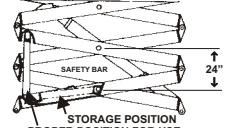
AN UNTRAINED OPERATOR SUBJECTS HIMSELF AND OTHERS TO DEATH OR SERIOUS INJURY.

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⚠ DANGER

DEATH OR SERIOUS INJURY MAY RESULT IF SAFETY BAR IS NOT USED AND OR PROPERLY POSITIONED. USE SAFETY BAR AT ALL TIMES WHEN SERVICING MACHINE WITH PLATFORM RAISED.



STORAGE POSITION
PROPER POSITION FOR USE

24"

PROPER USE OF SAFETY BAR

- * REMOVE ALL MATERIAL FROM PLATFORM
- * RAISE PLATFORM UNTIL THE OPEN HEIGHT IN BETWEEN CENTER PINS IS APPROXIMATELY 24 INCHES.
- * SWING SAFETY BAR UP FROM STORAGE POSITION.
- * REMOVE HANDS AND ARMS FROM SCISSORS AREA.
- * LOWER PLATFORM UNTIL SCISSORS ARE SUPPORTED BY SAFETY BAR.

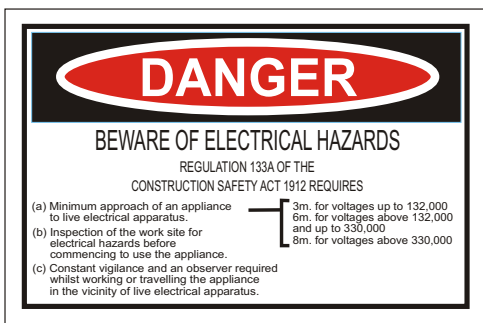
TO STORE SAFETY BAR

- * RAISE PLATFORM UNTIL THE OPEN HEIGHT BETWEEN CENTER PINS IS APPROXIMATELY 24 INCHES.
- * SWING BAR DOWN TO STORAGE POSITION.

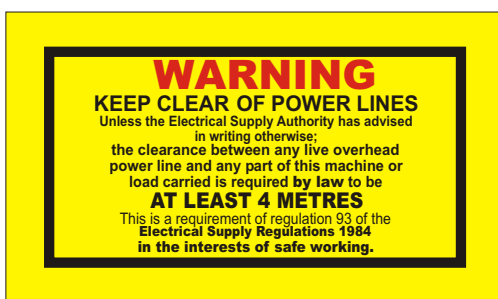
⚠ DANGER

DO NOT ALTER OR DISABLE LIMIT SWITCHES, SAFETY SWITCHES, OR INTERLOCKS.

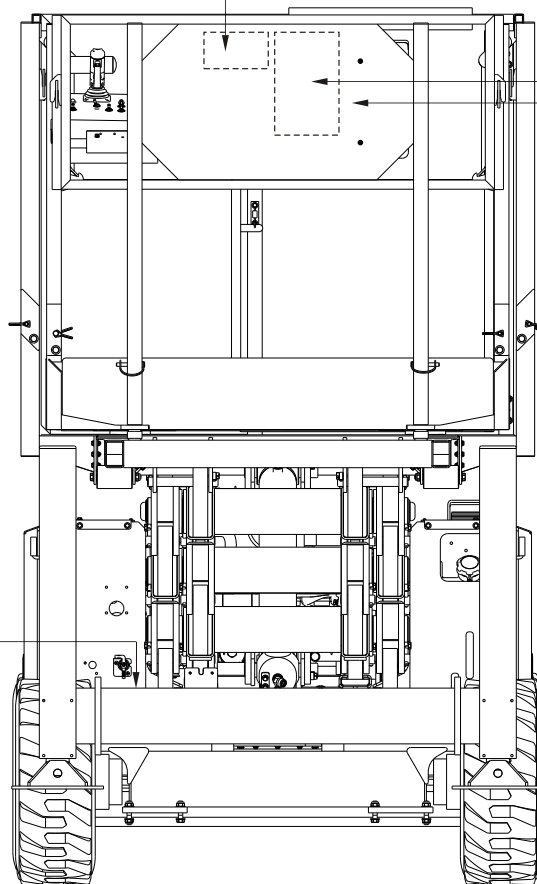
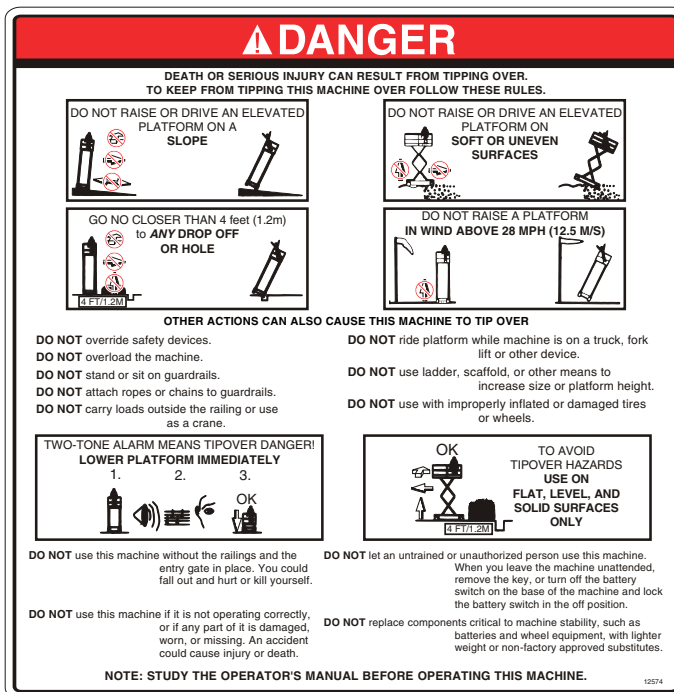
FRONT END OF SR



Australia Only



New Zealand Only

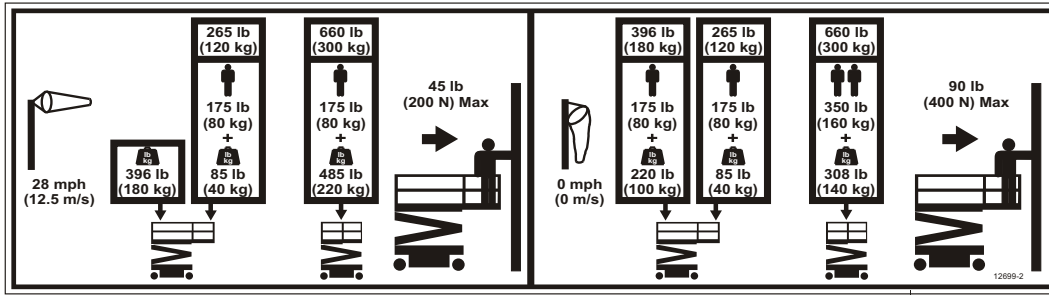


ALL DECALS ON REVERSE SIDE OF PANEL



1. Safety

REAR END OF SR



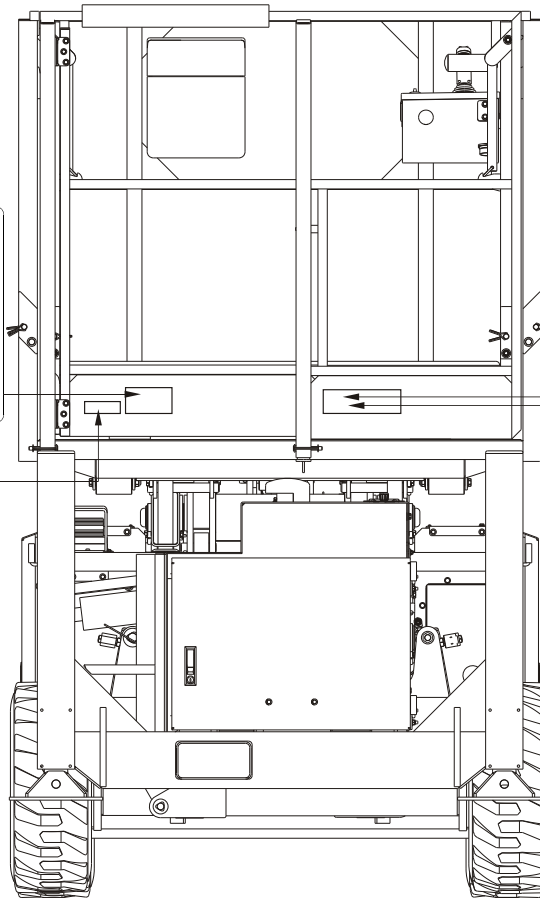
SR2755

⚠ DANGER

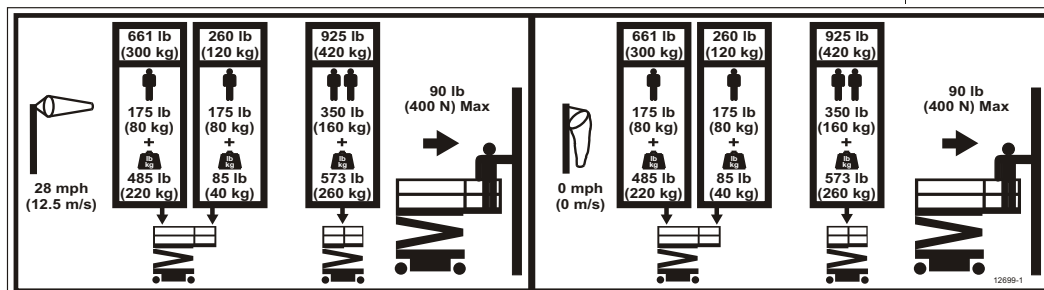
- THIS UNIT IS EQUIPPED WITH FOAM FILLED TIRES, WHEEL WEIGHT IS CRITICAL FOR UNIT STABILITY.
- REPLACE WITH FACTORY APPROVED FOAM FILLED TIRES ONLY.
- DO NOT ATTEMPT TO INFLATE.

⚠ DANGER

DO NOT ALTER OR DISABLE LIMIT SWITCHES, SAFETY SWITCHES, OR INTERLOCKS.



SR2255



■ Safety Device Information

For emergency operation controls and procedures see the Emergency Operation chapter 9, in this manual.

The devices listed in this chapter are safety devices.

They are on the machine to increase safety in the work place for both the operator and other people near the machine.

▲ WARNING

Do not by-pass, disable, modify, or ignore any of these devices. Check them carefully at the start of each work shift to see that they are in working order (see Daily Inspection & Maintenance chapter 7). If any is found to be defective, remove the S2255RT / S2755RT from service immediately until a qualified service technician can make repairs.

■ Emergency Stop Switches

□ At platform control box



Figure 2.1 - Platform Control Box Emergency Stop Switch

Press the large red **EMERGENCY STOP** button in and the entire machine stops, the engine turns off, and nothing moves. This switch must be out (on) to control the S2255RT / S2755RT from the platform (pull the switch and it will pop out).

□ At ground control box

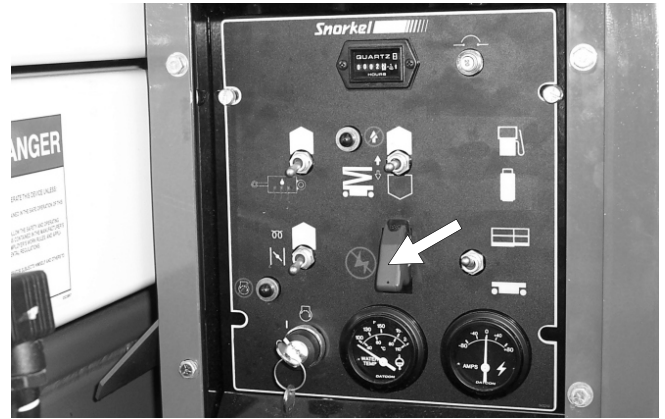


Figure 2.2 - Ground Control Box Emergency Stop Switch

Press the red **EMERGENCY STOP** switch cover down, at any time, under any conditions, and the entire machine stops, the engine turns off, and nothing moves. the **EMERGENCY STOP** switch must be up for anything on the S2255RT / S2755RT to work.

■ Alarms

There are two alarms on the machine. One is located in the platform control box, the other is located in the ground control box.

The alarms are connected in parallel, they both emit the same pattern of sound at the same time. The different alarm sound patterns are shown in the table immediately below and discussed below the table.

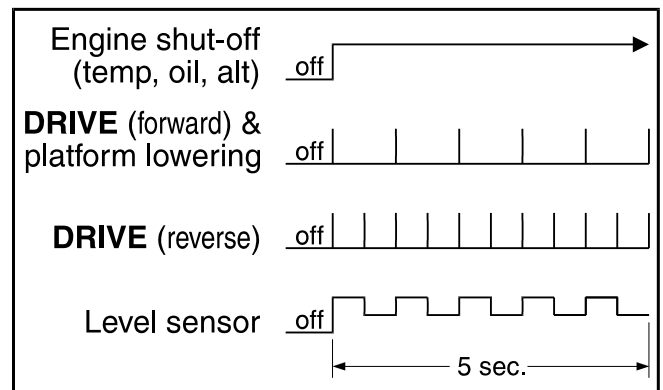


Figure 2.3 - Alarm Sound Patterns

The high-temperature, low oil-pressure, and alternator not-charging alarms are each a continuous tone.

2. Safety Devices

The DRIVE (forward) and the platform-lowering alarms beep at one beep per second. DRIVE (reverse) beeps at two beeps per second. The level sensor alarm is a high-low warbling sound.

Load sensing system

The load sensing system sounds an alarm and illuminates a lamp to warn the operator that the platform is overloaded.

The alarm will sound and the overload light ❶ (see figure 2.4) will illuminate as soon as the overload point is reached.

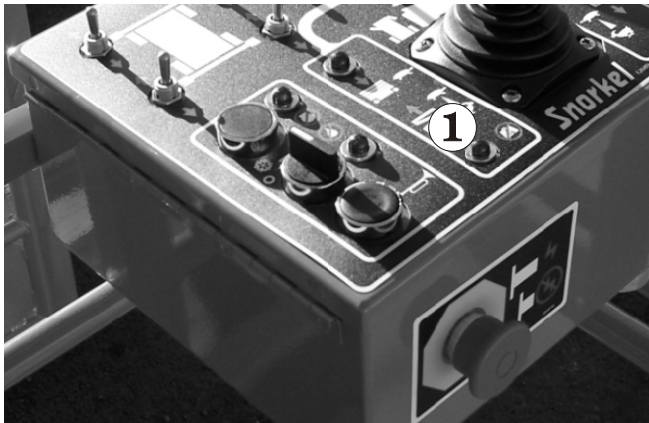


Figure 2.4 - Platform Overload Light

NOTE:

When the alarm sounds all platform movement [drive forward / reverse and lift up / down] is prevented.

The alarm and function interlock will be active until the load is reduced.

Level sensor

The level sensor alarm warns the S2255RT / S2755RT operator that the S2255RT / S2755RT is not level. When you hear this alarm, immediately lower the platform completely down. When the platform is completely down, determine and correct the cause of the tilt before raising the platform again.

NOTE

While the alarm is sounding it is not possible to drive the S2255RT / S2755RT nor raise the platform

Lowering

The lowering alarm warns people near the machine that the platform is coming down and the scissor arm assembly is closing.

High temperature

The high-temperature alarm warns you that the engine is overheating. When the alarm sounds you should immediately lower the platform completely down then turn the engine off until the condition that caused the overheating has been corrected. (See Automatic Shut-Offs & Circuit Breakers chapter 5 for more information.)

Low oil pressure

The low pressure alarm warns you that the engine oil pressure is near the lower limit for safe operation of the engine. When the alarm sounds you should immediately lower the platform completely down then turn the engine off until the condition that caused the low oil pressure has been corrected. (See Automatic Shut-Offs & Circuit Breakers chapter 5 for more information.)

Drive (reverse)

The DRIVE (reverse) alarm alerts people that the S2255RT / S2755RT is traveling backward along the ground. This alarm beeps twice as fast as the DRIVE (forward) alarm.

Drive (forward)

The DRIVE (forward) alarm alerts people that the S2255RT / S2755RT is traveling forward along the ground. This alarm beeps half as fast as the DRIVE (reverse) alarm.

■ Guardrails



Figure 2.5 - Guardrails

The guardrails help protect you from falling off the platform. Be sure the guardrails are properly installed and that the gate is in place.

■ Safety Prop



Figure 2.6 - Safety Prop

Always raise the safety prop then lower the scissor-arm assembly onto the safety prop before reaching into the scissor-arm assembly for any reason.

■ Swinging Gate



Figure 2.7 - Swinging Gate

The swinging gate should be closed at all times except when someone is entering or leaving the platform.

■ Safety Control

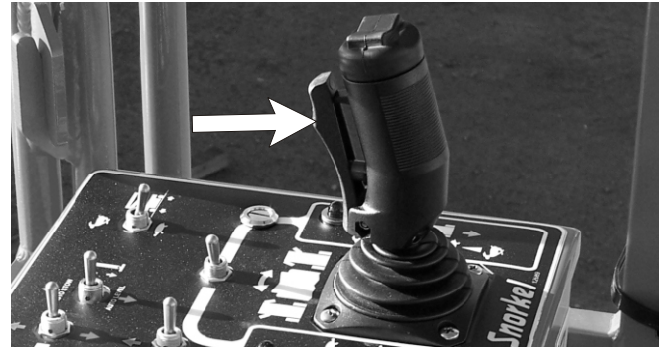


Figure 2.8 - Joystick Safety Control

The safety control must be squeezed and held to activate the joystick. The safety control prevents the joystick from moving the platform if something accidentally pushes the joystick. Do not disable the safety control in any way.

■ Bubble Level

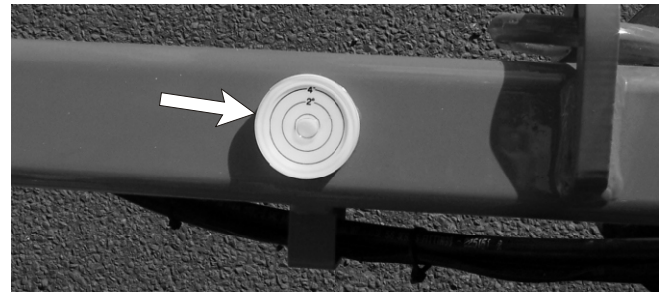


Figure 2.9 - Bubble Level

See the Gauges chapter 4 for a discussion of the bubble level.

■ Operator Horn

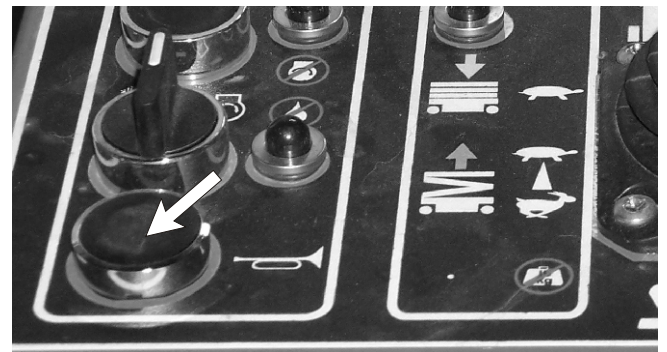


Figure 2.10 - Operator Horn

The operator horn is used primarily to get the attention of people on the ground when you are working aloft. For the horn to work the following switches, on the ground control box, must be set as indicated:

2. Safety Devices

MAIN POWER.....ON
EMERGENCY STOP.....ON (up)
SELECTOR.....PLATFORM

■ Stabilisers



Figure 2.11 - Stabilisers

The stabiliser controls are on the upper left side of the platform control box. The stabilisers are used to level the S2255RT / S2755RT (for complete stabiliser operating procedures see the Operation chapter 8).

NOTE

The S2255RT / S2755RT must be on a firm surface capable of withstanding all load forces imposed by the aerial platform in all operation conditions before the stabilisers are used.

■ RCD/ELCB AC Outlet (option)

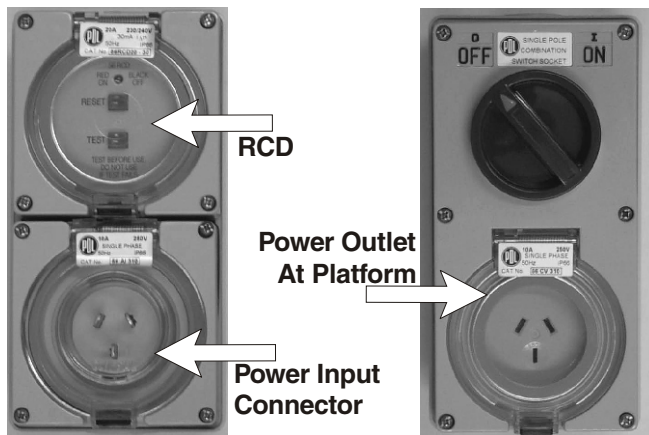


Figure 2.12 - RCD/ELCB AC Outlet

The RCD (Residual Current Device) is located at the ground and will protect against short circuits to earth. When there is a short circuit the RCD will shut down the 230v AC power to the platform outlet. To reset the outlet disconnect the power tool lead from the platform box and reset the RCD at the ground. If the problem persists call a trained service technician.

■ Flashing Light

The flashing light alerts people that the S2255RT / S2755RT is present and that the S2255RT / S2755RT is moving. The light flashes at about one flash per second any time the S2255RT / S2755RT engine is running. There is no ON/OFF switch for the flashing light, it cannot be turned off while the S2255RT / S2755RT is running.

■ Lanyard Anchor Points (option)

There are four anchors on the floor of the platform, one at the front of the roll-out deck, one at the back of the platform, and one on each side of the platform.

NOTE

These anchors are not for lifting or tying down the machine.

You should attach your fall protection to the anchors if work rules require it.