At the start of each work day (or 8 hour shift), the machine qualified operator must perform the Daily Inspection and maintenance (or Pre-Operation Inspection as it is sometimes referred to), as listed in the table below.

The purpose of the Daily Inspection and Maintenance is to keep the S2255RT / S2755RT in proper working condition and to detect signs of malfunction at the earliest possible time.

Set the Key Switch to OFF before you begin this inspection.

Defective parts and/or equipment malfunctions jeopardize the safety of the operator and other personnel, and can cause damage to the machine.

⚠DANGER

DO NOT operate the machine that is known to be damaged or malfunctioning.

Repair all equipment damage or malfunctions, before placing the S2255RT / S2755RT into service

■ Daily Inspection and Maintenance Table

Item	Service Required
Fuel level	Visually inspect
Fuel filter	Visually inspect (condition)
Fuel leaks	Visually inspect (hoses and connections etc)
Engine oil	Check oil level (between dipstick lines)
Engine coolant	Check fluid level
Radiator cap	Visually inspect (installation)
Swinging gate	Visually inspect (installation, operation)
Wiring harnesses and connectors	Visually inspect (installation, operation)
Battery terminals	Visually inspect (no corrosion)
Battery fluid level	Visually inspect (covers plates)
Hydraulic tank cap	Visually inspect installation)
Hydraulic oil level	Check fluid level (at line on side of tank)
Hydraulic oil leaks	Visually inspect (hoses,tubes)
Tires and wheels	Visually inspect (condition)
Bolts and fasteners	Visually inspect (looseness)
Structural damage and welds	Visually inspect (welds, cracks, dents)
Guardrails	Visually inspect (condition)
Lanyard anchorages (option)	Visually inspect (condition)
Bubble level on platform	Visually inspect (condition)
Guides, rollers and slides	Visually inspect (condition)
Non slip tread grip	Visually inspect (condition)
Wrist support	Visually inspect (condition)
Placards, decals, and Operators Manual	Visually inspect (installation and condition)
START THE ENGINE FROM THE GROUND CONTROL BOX	
Charging system	Check condition (gauge)
Ground controls	Actuate and visually inspect for operation
Emergency lowering	Check operation (causes correct motion)
Platform controls	Actuate and visually inspect for operation
Flashing light	Visually check (operation)
RCD / ELCB (option)	Check operation
Air filter	Check condition
Safety prop	Check operation

7. Daily Inspection and Maintenance

The rest of this chapter shows how to perform the inspection and maintenance required for each item in the daily inspection and maintenance table.

■ Fuel Level

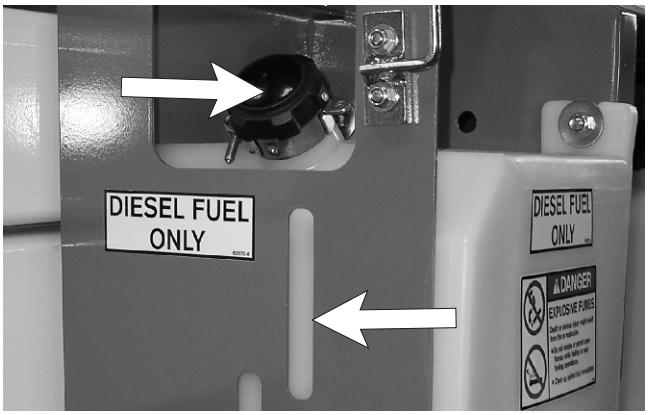


Figure 7.1 - Fuel Level

Unlock and remove the fuel tank cap. Visually Check the inspection slots to see that the diesel tank is full. Replace the tank cap and tighten and lock.

■ Fuel Filter

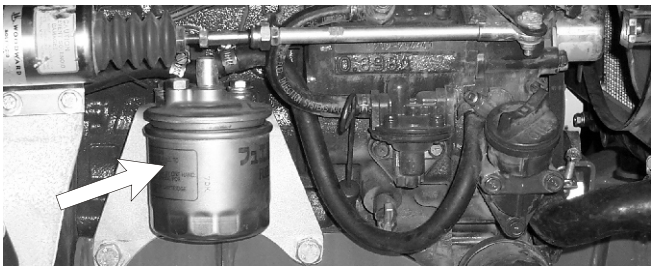


Figure 7.2 - Fuel Filter

Check to see that there is no water or contaminants in the bottom of the filter.

■ Fuel Leaks

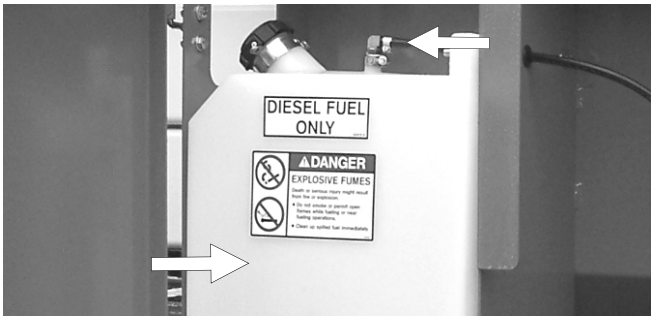


Figure 7.3 - Fuel Leaks at Tank

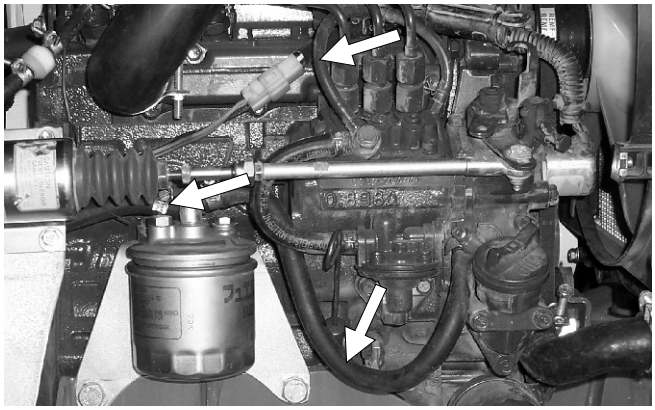


Figure 7.4 - Fuel Leaks in Hoses & Joints

Visually inspect the entire length of the fuel line, from the engine to the fuel tank, for leaks.

■ Engine Oil

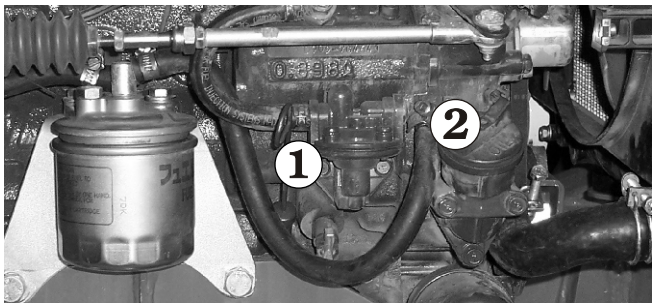


Figure 7.5 - Engine Oil Level

Keep the oil level between the marks on the dip-stick ❶ and add oil at the filler ❷ as required (see Figure 7.5).

■ Engine Coolant

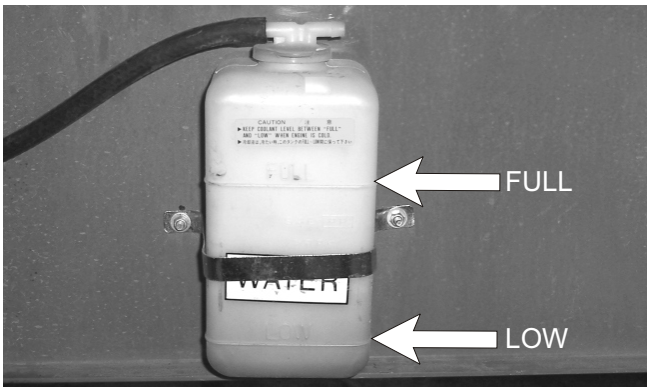


Figure 7.6 - Engine Coolant Level

The Kubota engine is liquid cooled and uses a half water and half ethylene glycol mixture. When cold the coolant level should be between the "full" and "low" marks on the coolant bottle attached to the

inside of the door to the engine bay (see Figure 7.6).

❑ To add coolant:

Turn the engine OFF at the ground box Key Switch. Open the the inspection/access flap on the top of the engine cabinet (see Figure 7.7).

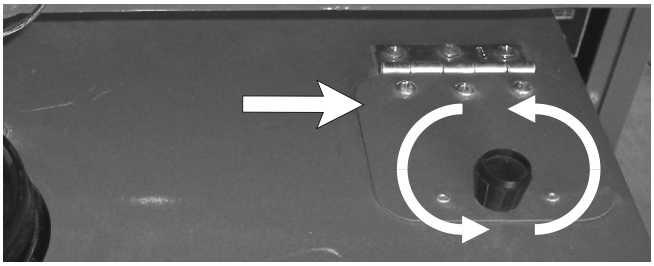


Figure 7.7 - Radiator Cap Access Hatch

Remove the radiator cap, add coolant and replace the cap (see Figure 7.8).

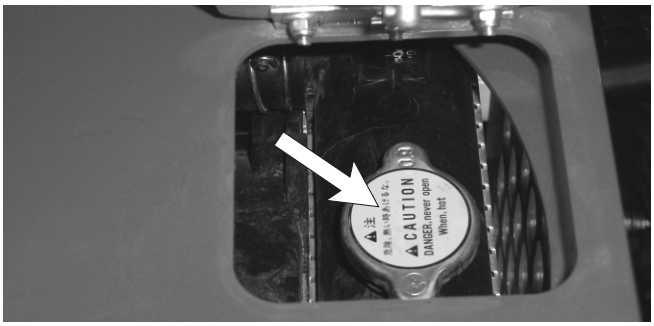


Figure 7.8 - Radiator Cap

Regardless of the need to add coolant, the radiator cap should always be checked to see that it is in place and tight.

■ Swinging Gate

Figure 7.9 - Swinging Gate

Inspect the gate to see that it swings freely, latches securely, and is not deformed in any way.

■ Wiring Harnesses and Connectors

Inspect all the wiring harnesses, on the machine, for loose connections, broken wires, and frayed insulation.

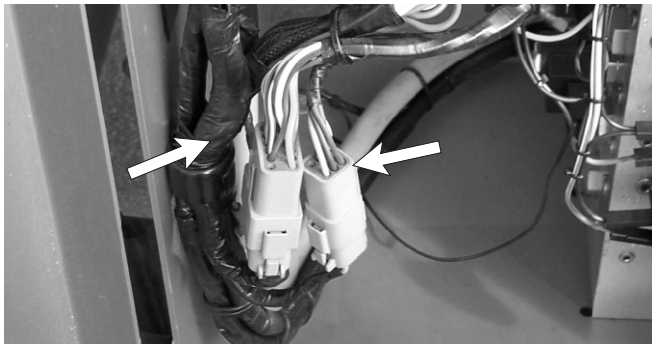


Figure 7.10 - Wiring Harnesses and Connectors

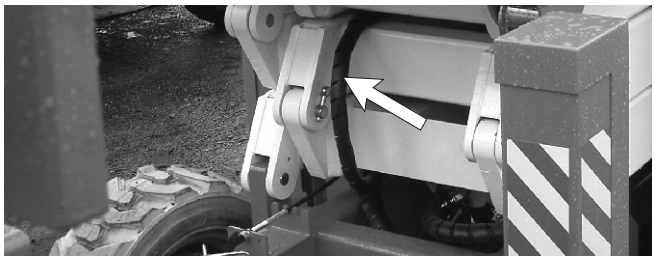


Figure 7.11 - Wiring Harness in the Scissor Stack

Pay particular attention to the wiring harnesses that are attached to the scissor stack. Note that the wire harness runs with the main hose bundle.

■ Batteries

❑ Battery Terminals

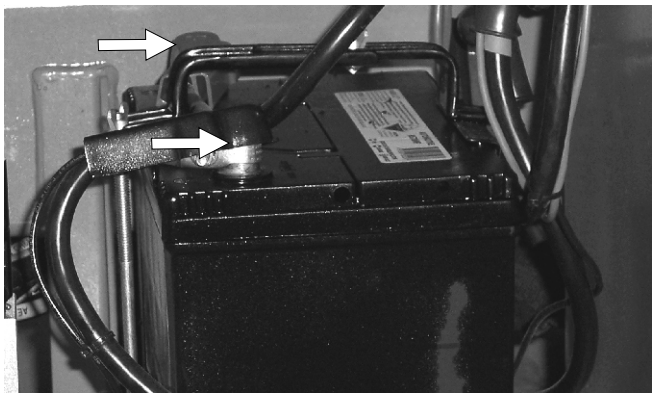


Figure 7.12 - Battery Terminals

Battery terminals should be clean and free of corrosion and the battery leads firmly attached.

❑ Battery Fluid Level

⚠DANGER

Batteries emit hydrogen and oxygen, elements 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.

Remove the caps from the battery and visually check to see that the battery fluid is 1/4 (6 mm) below the bottom of the filler neck inside each hole.

Note

Some units may be fitted with a "maintenance free" battery.

■ Hydraulic Oil Tank

Figure 7.13 - Hydraulic Oil Tank

❑ Hydraulic tank cap

Check to see that the cap ❶ is in place and is tight (see Figure 7.13).

❑ Hydraulic oil level

To check the hydraulic oil level:

Completely lower the platform. The hydraulic oil level should be at the full level according to the gauge ❷ (see Figure 7.14) . If necessary, add hydraulic oil at the Hydraulic oil tank cap. See the Specifications chapter for type and grade of hydraulic oil.

■ Hydraulic Oil Leaks

⚠DANGER

Leaking hydraulic oil can cause burns, fires, falls (slipping), cuts, and puncture wounds (if under high pressure). Do not tolerate hydraulic oil leaks. They are dangerous.

Do not search for leaks with your hand, use a piece of cardboard or wood

Hydraulic oil leaks are easily visible and can show up anyplace. Visually inspect the entire machine for hydraulic oil. Check the ground under the machine for leaked oil.

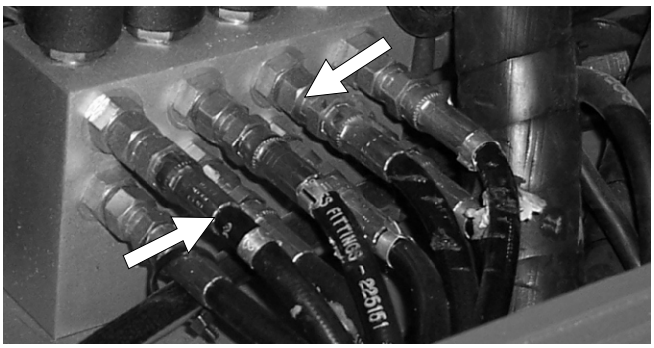


Figure 7.14 - Check Fittings at Valve

Check all fittings and hoses for leaks. Inspect hoses for signs of damage from chaffing or rubbing against protrusions on the chassis or scissor stack.

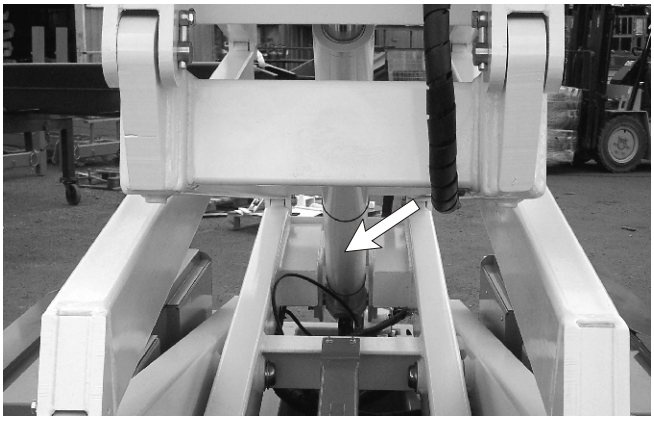


Figure 7.15 - Check Hydraulic Cylinders

Pay particular attention to the cylinders, check to see that there is no oil leaking from the seal, also check all hoses that run to the cylinders.

Have a qualified trained maintenance person repair all hydraulic fluid leaks before you operate the machine.

■ Tires and Wheels

The tires are foam filled. Punctures of the type caused by bolts, screws, or nails are not a problem.

Look for large holes or long cuts completely through the tire body: holes or cuts where foam is being forced or eroded out of the tire.

Also look for large imbedded objects, such as angle iron, that can rip a tire body open under some conditions.

■ Bolts and Fasteners

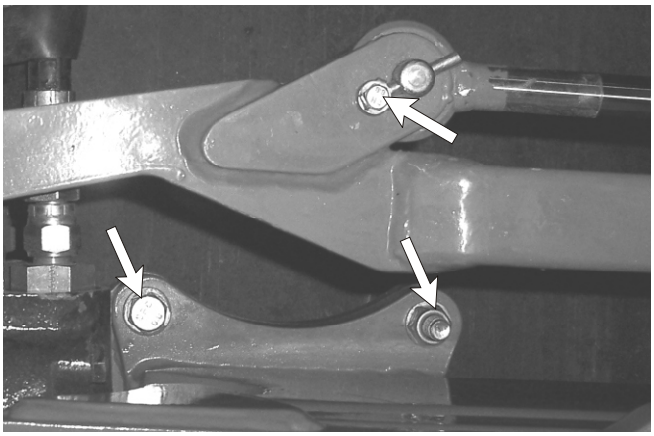


Figure 7.16 - Bolts and Fasteners

Visually inspect all fasteners to see that none are missing or obviously loose.

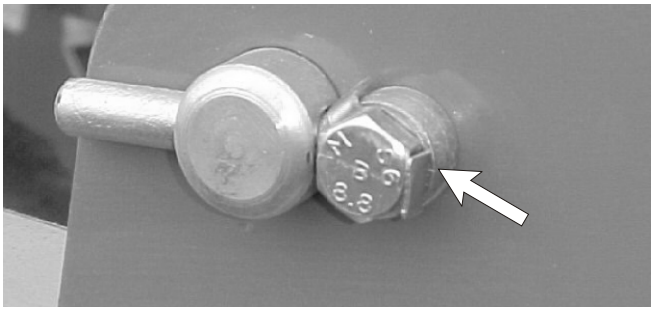


Figure 7.17 - Critical Pin Retainer Bolts

Critical pin retainer bolts have lock tab washers fitted, they should all be present and not damaged in any way.

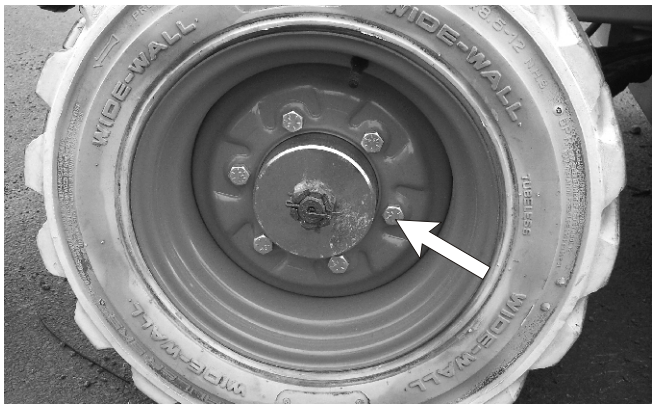


Figure 7.18 - Wheel Nuts

Pay particular attention to all of the wheel nuts. None should be visibly loose, missing, or deformed.

⚠CAUTION

Do not over tighten wheel nuts. Over tightened wheel nuts can damage or deform the wheel rim. This could lead to stability problems.

⚠IMPORTANT

The correct torque setting for the S2255RT / S2755RT wheel nuts is 65 lb ft or 88 Nm. Do not tighten beyond these settings.

■ Structural Damage & Welds

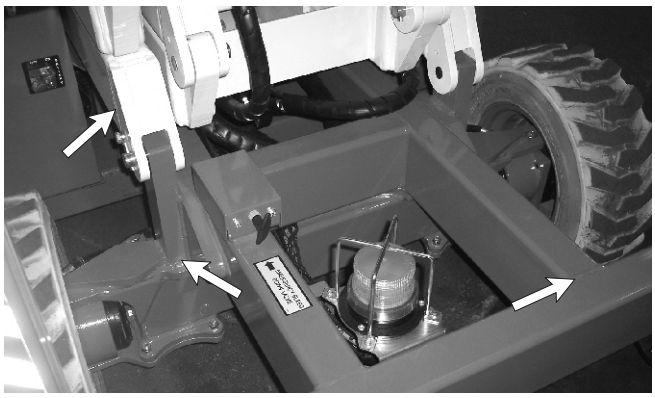


Figure 7.19 - Structural Damage and Welds

Visually inspect all welds for cracks, all structural members for deformity, and all sheet metal for dents that could interfere with machine operation.

■ Guardrails

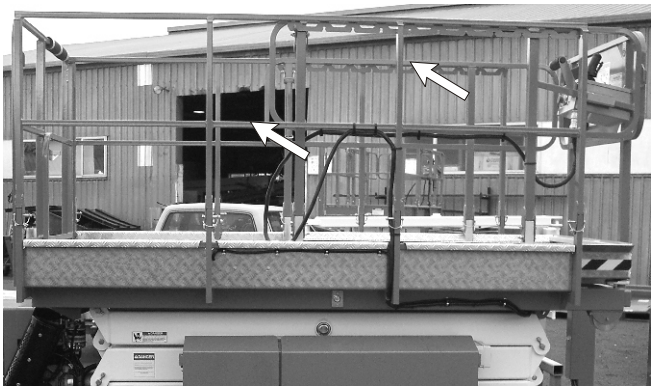


Figure 7.20 - Guardrails

Pay particular attention to the guardrails. Make sure the guardrails are properly installed, that all the fasteners are in place, and that the swinging gate is in place and works properly.

■ Bubble Level

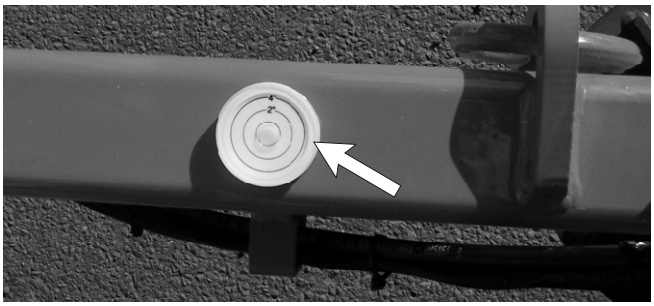


Figure 7.21 - Bubble Level

Visually check to see that the bubble level is not damaged, that it is full of fluid, that the bubble does not exceed the diameter of the center black circle, and the surface on which the bubble level is mounted is not deformed or bent out of level.

■ Guides, rollers, and slides

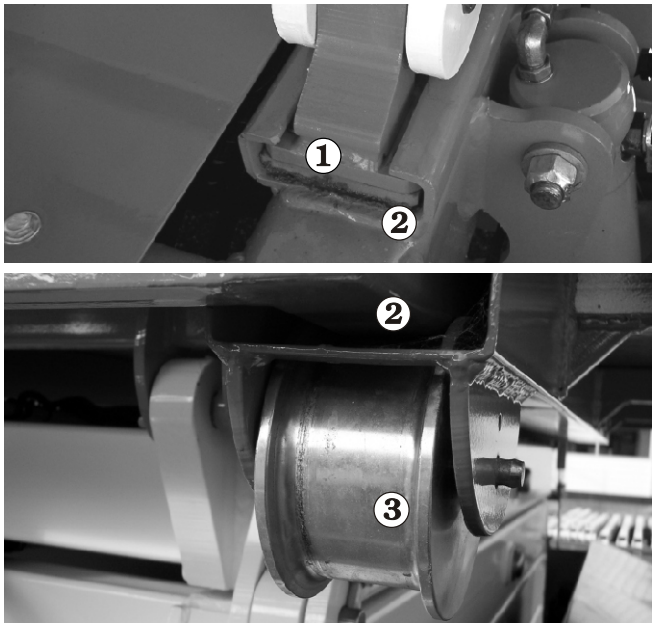


Figure 7.22 - Guides Rollers and Slides

Visually check slides ❶ and rollers ❸ for wear or damage. Be sure that the guides ❷ are free of debris and allow the slides and rollers to move smoothly.

■ Charging System

Figure 7.23 - Ammeter Gauge

With the engine idling, the needle in the AMPS gauge should not be to the left of 0" (left of 0" is discharging).

NOTE

Leave the engine running for the next step

■ Ground Controls

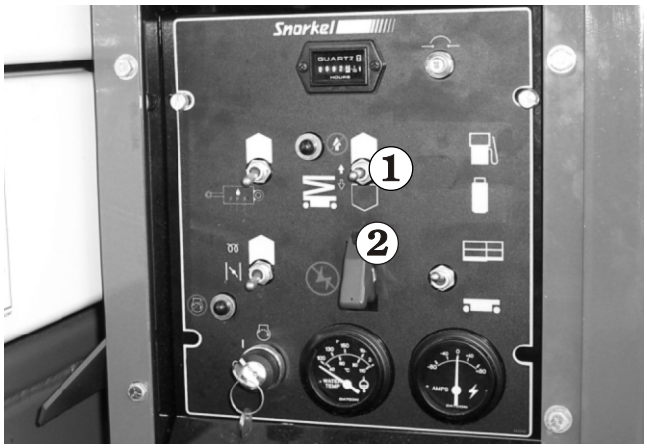


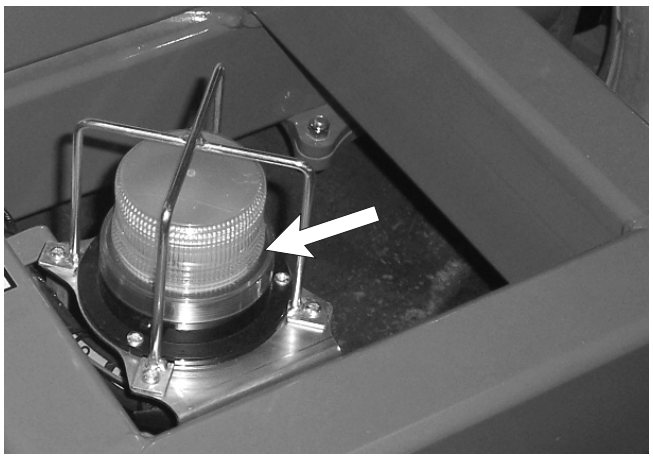
Figure 7.24 - Ground Controls

Check the Platform Lift/Lower switch ❶ (see Figure 7.24) to see that it is functioning properly by holding the switch up to rise platform and pushing the switch down to lower the platform.

Pay particular attention to the Emergency Stop switch ❷ (see Figure 7.24) to see that it turns the S2255RT / S2755RT engine off when struck.

■ Flashing Light

Check to see that the light flashes approximately once a second when the S2255RT / S2755RT engine is running.



7.25 - Flashing Light

■ Platform Controls

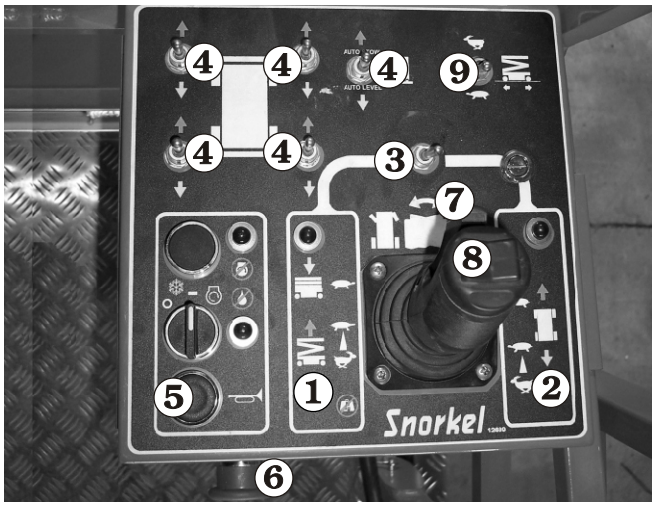


Figure 7.26 - Platform Controls

Check all of the lift ❶, drive ❷, steer ❸, speed ❾, and stabiliser ❹ functions from the platform control box to see that they cause the S2255RT / S2755RT to move the way it should (see Figure 7.26). (for correct operating procedures see the Operation chapter).

Listen for the lowering alarm while the platform is going down. Listen for the motion alarm while the S2255RT / S2755RT is being driven forward. Listen for the back-up alarm while the S2255RT / S2755RT is backing up.

Press the operator horn ❺ (see Figure 7.26) to see that it works.

Pay particular attention to the **Emergency Stop** switch ❻ to see that it turns the engine off when struck (see Figure 7.26).

Pay particular attention to the **Safety Control** ❼ to see that it deactivates the **Joystick Controller** ❽ when the safety control ❼ is released (see Figure 7.26).

■ Emergency Lowering

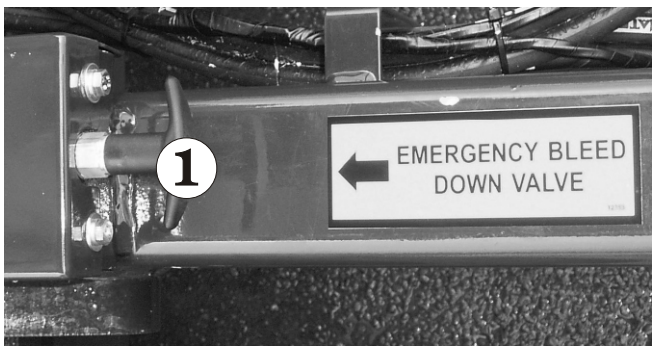


Figure 7.27 - Emergency Lowering

To check the emergency lowering: Raise the platform and turn the engine OFF at the ground control box KEY SWITCH.

Operate the emergency lower by pulling on the cable ❶ (see Figure 7.28) located at the front of the chassis. When the platform is fully lowered release the cable.

NOTE:

On machines fitted with the 24V DC motor option the emergency bleed down valve 'pull handle' is located on the side of the battery compartment (see Figure 7.28)

Figure 7.28 - Emergency Lowering, Units Fitted With 24V DC Option

■ RCD / ELCB (Option)

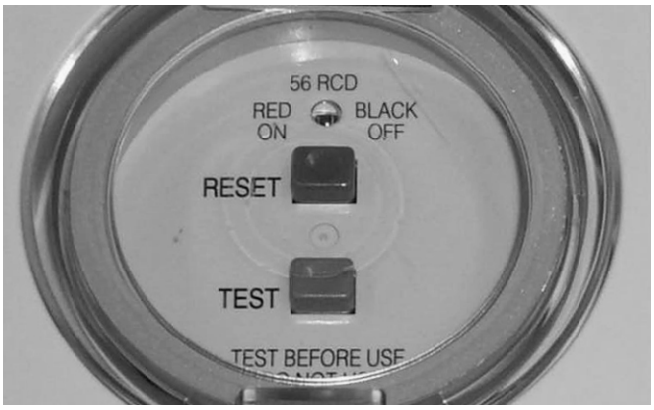


Figure 7.29 - RCD / ELCB

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.

■ Safety prop

Figure 7.30 - Safety Prop

Inspect the safety prop(s) to see that it is present and moves freely.

■ Lanyard Anchorages (Option)

Check all four lanyard anchorages on the floor of the platform to see that they are present, not deformed, that they move freely, and that they are securely attached to the platform.

■ Non-Slip Tread Grip

Figure 7.31 - Non-Slip Grip Strip

Check that the non-slip protective strip is in place and in good condition

■ Wrist Support

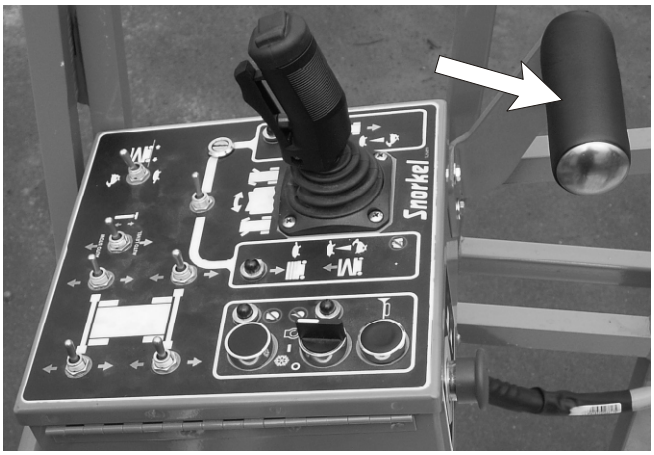


Figure 7.32 - Wrist Support

Check the condition of the rubber on the upper control box wrist support. Replace it if it is worn or damaged.

■ Placards and Decals

Look to see that all placards and decals are in place and legible. Replace any missing or illegible placards or decals before placing the S2255RT / S2755RT into service for the daily work shift.

Decal and placard kits for the S2255RT / S2755RT are available from Snorkel dealers.

❑ Standard placards and decals

- See page 7 - 11 for the following items:

No	Part No	Description	Req
1	1843	Decal - Warning, N.Z. only	1
	9428	Decal - Electrical hazard, Australia only	1
3	96924-9	Decal - Warning stripes yellow/black	4m
4	0070901E	Decal - Serial number	1
5	9751	Decal - N.Z. made	1
6	12671-1	Decal - S2255RT	2
	12671-2	Decal - S2755RT	2
7	12699-1	Decal - Rated load, S2255RT	1
	12699-2	Decal - Rated load, S2755RT	1
8	0073298	Decal - Foam tyres	1
9	451986	Decal - Interlocks	2
10	476706	Decal - Explosive fumes	3
11	12574	Decal - Danger with alarm	1
12	569295	Decal - Snorkel logo	5
13	560240	Decal - Lower control box	1
14	12689	Decal - Upper control box	1
15	560272	Decal - Emergency stop upper box	1
16	605726	Decal - Diesel fuel	1
17	12753	Decal - Emergency bleed down	1
18	12814	Decal - Hydraulic fluid	1
19	58365-6	Decal - Safety prop	1
20	9223-3	Decal - Chevron	4
21	300699	Decal - Operators checklist	1
22	0323897	Decal - Must not operate	1
23	621486	Decal - Forklift	4
24	302950	Decal - Hydraulic oil level	1
25	300700	Decal - Shearing hazard	1

No	Part No	Description	Req
26	13370 Rev B	Decal - Emergency operation, emergency lowering & emergency pushing	1
27	0083427	Decal - Lifting/tie down	4
28	12815-1 Rev B	Decal - Hydraulic circuit,	1
29	12815-2	Decal - Electrical circuit,	1
30	562426	Decal - Operators manual enclosed	1
31	13089-2	Decal - 24V DC (when option fitted)	1
32	13089-1	Decal - Diesel (when option fitted)	1

❑ Inspection drawing