snorkel

SL30SL



OPERATOR'S MANUAL

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Limited Warranty

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Engine Specifications

Engine	Displacement	Fuel Grade	Coolant	Oil Capacity	Oil Grade
Perkins 403C-11	69 cu. in. (1.13 l)	**Diesel** ASTM No. 2D fuel with a minimum Cetane number of 45.[1] For operating temperatures below 32°F (0°C) use winterized No. 2D.	50% Water 50% Ethylene Glycol[2]	4.6 US qt. (4.4 l)	API CH4[3]

Note 1: Refer to the Perkins Operator's Manual for specific fuel recommendations and specifications.

Note 2: Refer to the Perkins Operator's Manual for specific coolant recommendations and specifications.

Note 3: Refer to the Perkins Operator's Manual for specific lubricating oil recommendations and specifications.

Engine Oil Viscosity

Engine	Ambient Temperature	Engine Oil Weight
Perkins 403C-11	Above 77°F (25°C)	SAE 30W or 10W30
	32°F to 77°F (0°C to 25°C)	SAE 20W or 10W30
	Below 32°F (0°C)	SAE 10W

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2. Remove the cap from the radiator (refer to Figure 7.2) and check the coolant level. If necessary, add coolant.

Note
Refer to Chapter 2 for engine coolant specifications. The need to regularly add fluid indicates a leak that should be corrected.

3. Tightly replace the cap.

Radiator
To inspect the radiator:

1. Inspect the radiator hoses and clamps for wear, leakage, or damage.
2. Make sure the hoses are not hardened, cracked, or feel spongy.
3. Make sure the cap is in place and tight.
4. Check under the chassis for coolant that has leaked. Coolant leaks are easily visible on the ground.
5. Make sure the radiator core and ventilation openings on the cover are free of bugs, dirt, or foreign material that might restrict airflow.

Fuel Tank
The fuel level gauge is behind the doors on the right side of the chassis (refer to Figure 7.3). The gauge shows the actual level of fluid in the tank.

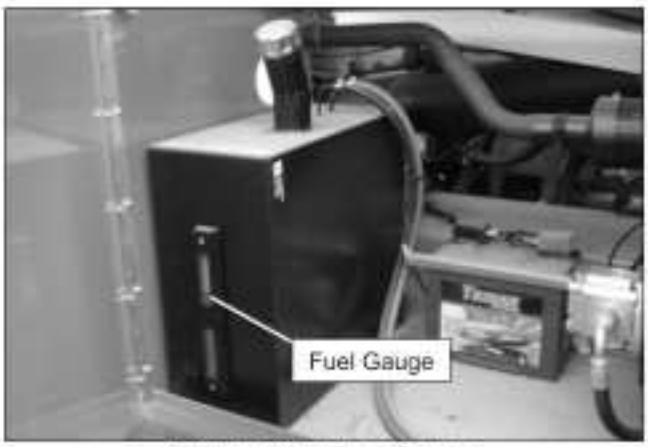


Figure 7.3 – Fuel Gauge

To inspect the fuel tank:

1. Open the doors on the right side of the chassis to access the fuel gauge.
2. Check fuel level indicated on the gauge.
3. If necessary, add fuel.

Note
Refer to Chapter 2 for fuel grade specifications.

4. Make sure the cap is securely fastened.

Fuel Line
To inspect the fuel line:

1. Visually inspect the entire length of the fuel line starting at the fuel tank.
2. Trace the line to the engine, inspecting for leaks and damage.

Air Filter
The air filter gauge (refer to Figure 7.4) has an indicator to show when the filter needs replaced.

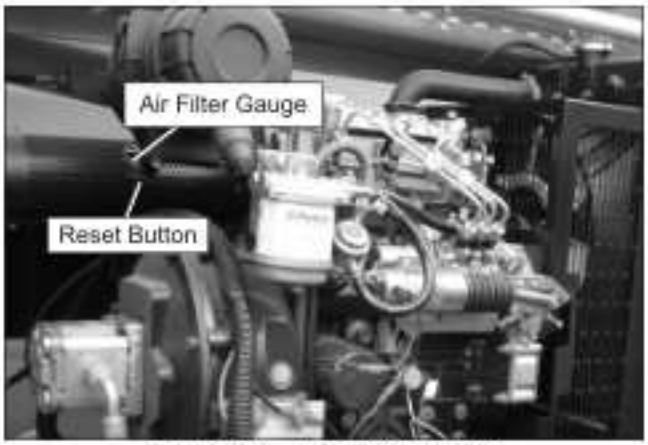


Figure 7.4 – Air Filter Gauge

To inspect the air filter:

3. At the lower controls, twist the emergency stop button clockwise and place the on/off switch to the on position.
4. Press and hold the start button until the engine starts.
5. Open the doors on the right side of the chassis to access the air filter gauge (refer to Figure 7.4). Check the clear zone after running the engine for 30 seconds.
   - If the indicator is red, replace the filter. After replacing the filter, press the reset button to reset the indicator disk.
   - If the indicator is clear, the filter is OK.
6. Shut off the engine.

Electrical System

Electrical power is supplied from a 550 CCA, 12 V battery. The battery is behind the doors on the right side of the chassis, next to the fuel tank (refer to Figure 7.5). The battery supplies 12 V DC electrical power to operate the aerial platform electrical and electrohydraulic components.

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2. Enter the platform and securely close the gate.

3. At the upper controls, twist the emergency stop button clockwise (refer to Figure 8.4).

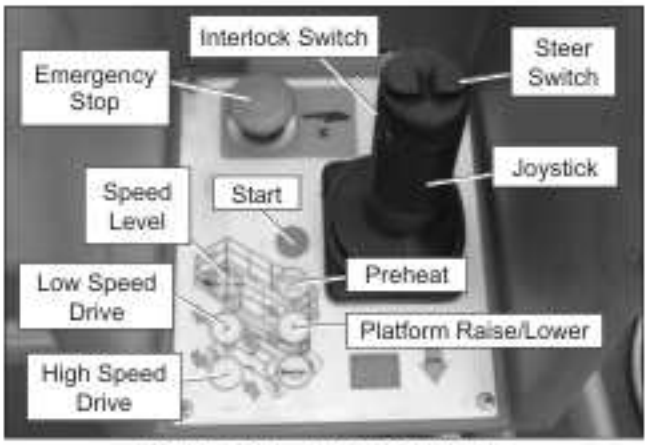


Figure 8.4 – Upper Controls

4. Operate the preheat button if required.

   - When the engine is cold, press and hold the preheat button for approximately five seconds before starting the engine.

5. Press the start button until the engine starts, then release. Let the engine warm to operating temperature.

Push the emergency stop button inward when the upper controls are not in use to protect against unintentional operation.

Platform

Use care when entering and exiting the platform to avoid slipping and/or falling. Fully close the entry gate when the platform is occupied.

⚠Danger

The potential for an accident increases when the fold down rails are lowered. Death or serious injury can result in such accidents. Do not elevate the platform with the fold down rails lowered. Use extreme care when moving the aerial platform while the fold down rails are lowered.

Be sure the fold down guardrails are up and the hardware is securely tightened, anytime the machine is not being transported.

Raising and Lowering

The raise speed is proportional to the joystick position. The farther the joystick is moved, the faster the platform raises. There is only one lowering speed.

Use the following procedure to raise the platform:

1. Move the aerial platform to a firm, flat, level surface.

2. Press the platform raise/lower button and then push the joystick forward while engaging the interlock switch.

3. If the tilt alarm sounds, lower the platform and drive to a level surface or activate the speed level to level the platform.

Leveling

The speed level button (refer to Figure 8.4) may be used to level the platform when the aerial platform chassis is out of level more than four degrees side-to-side or front-to-rear. The speed level cannot be set if the aerial platform chassis is out of level more than 13 degrees side-to-side and 9 degrees front-to-rear.

⚠Danger

The aerial platform can tip over if it becomes unstable. Death or serious injury will result from a tip-over accident. Do not drive or position the aerial platform for elevated use near any drop-off, hole, slope, soft or uneven ground, or other tip-over hazard.

The aerial platform must be on a firm, flat surface capable of withstanding the load forces imposed by the aerial platform in all operating conditions before the speed level is used.

To operate the speed level:

1. Press the platform raise/lower button and use the joystick to raise or lower the platform to approximately 2' (600 mm).

   - The tilt alarm will sound if the aerial platform chassis is out of level more than four degrees side-to-side or front-to-rear when the platform is raised.

2. Press and hold the speed level button and the interlock switch until the platform is level.

   - The tilt alarm will continue to sound until the platform is level.

   - While the speed level is set, only the platform raise and lower functions will work.

3. Press the platform raise/lower button and then push the joystick forward to raise the platform to the desired height.

4. To drive the machine, the speed level must be deactivated.

   - To deactivate the speed level, press the platform raise/lower button and then pull the joystick backward and fully lower the platform.

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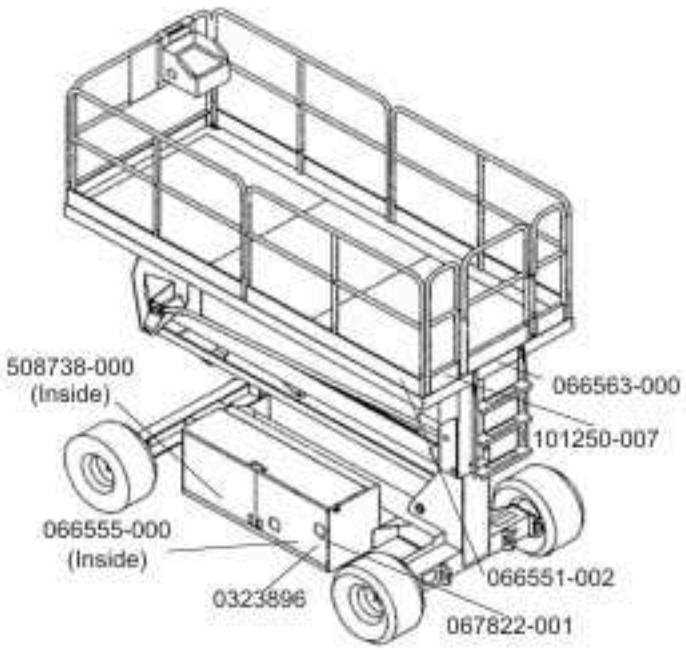
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