snorkel

S3970BE
S3370BE
S2770BE
S3970RT
S3370RT
S2770RT



Diesel
Gasoline
LPG
Bi-Energy 24V DC

OPERATION MANUAL

Part Number 13579-1
November 2012 (Rev C)
Version III

Serial Number NZ110203 and after

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Specifications

The S3970RT / S3370RT / S2770RT series machines are scissor-supported elevating work platforms built to conform to the following standards.

OSHA Paragraph 1910.67 Title 29, C.F.R., Vehicle-Mounted Elevating and Rotating Work Platforms - Labour.OSHA Paragraph 1926.556 Title 29, C.F.R., Aerial Lifts - Construction.Australian Standard AS1418-10(Int) 2004 Elevating Work Platforms.

General Specifications, Standard Machine S3970RT

SPECIFICATIONS	S3970RT	
Nominal working height (wheels)	13.5m	44.2'
Nominal working height (stabilisers)	13.81	45.3'
Roll out deck size	1200mm	48"
Drive speed (below 2.4m)	0 to 4.5kph	0 to 2.8mph
Drive speed (above 2.4m)	0 to 0.35kph	0 to 0.22mph
Safe working load - Main deck (Roll out deck not extended)	350kg	771lbs
Safe working load - Main deck Safe working load - Roll out deck extended	230kg 120kg	507lbs 264lbs
Platform size	2.73 x 1.65m	8' 11" x 5' 5"
Stowed height	2.95m	9.6'
Stowed height (hand rails folded down)	2.15m	7'
Overall length	3.36m	11' 0"
Overall width	1.77m	5' 9"
Gradeability	30%	
Lift time	50 seconds	
Turning radius (inner)	2.38m	7' 8"
Turning radius (outer)	4.75m	15' 6"
Maximum wind speed (12.5m/s)	45km/h	28mph
Insulation rating	Nil	
Tyres - Poly filled loader lug	27" x 10.5" x 15"	
Overall weight	3790kg	8355lbs
Ground clearance	350mm	13.8"
Maximum sound level at platform	86db	
Stabiliser maximum load	2075kg	4574lb
Maximum chassis inclination	2.5°/4°	

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Hours



Figure 4.5 - Hour Gauge

The HOURS gauge is basically an electric clock. It accumulates time only when the engine is running. The HOURS gauge cannot be reset. the machine-qualified service technician uses it to tell when it is time for the periodic maintenance listed in the Maintenance Manual.

Fuel Level (option)

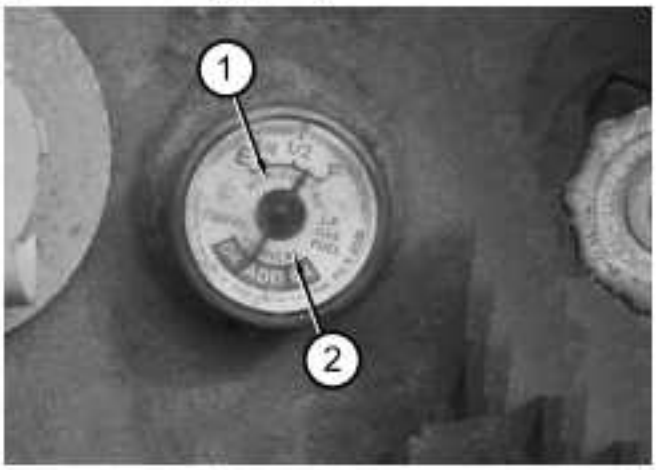


Figure 4.6 - Fuel Level Gauge

LPG tanks have two (2) fuel gauges on top. One measures correctly when the tank is standing on end (VERTICAL) the other measures correctly when the tank is laying down (HORIZONTAL) . Both read in fractions-of-a-full-tank. (see Figure 4.6).

NOTE:

LPG fuel installations are usually fitted post production and may vary from machine to machine. It is the operator's responsibility therefore, to be aware of how the system is installed on their individual machine and know which gauge, (horizontal or vertical) to read.

Bubble Level

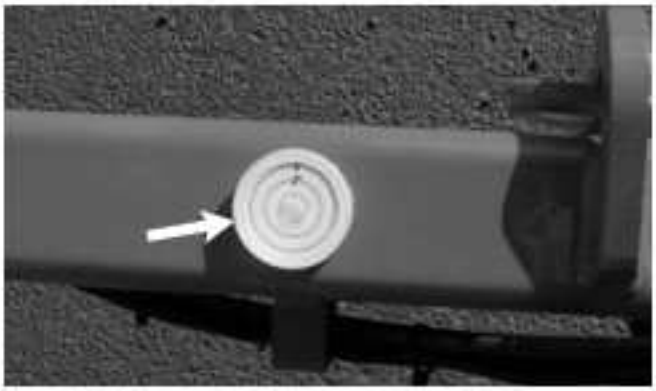


Figure 4.7 - Bubble Level

A bubble level is located on the platform side rail, below the platform control box. Watch the bubble level while you set the stabilisers manually. Lower the stabilisers, one at a time, just enough to center the bubble in the circle on top of the gauge. When the bubble is centered the platform is level and can safely be raised.

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Figure 9.4

1. Check to be sure the **Battery** switch ❺ is ON. (See Figure 9.4)



Figure 9.5

2. Check to be sure the **Emergency Stop** switch ❻ (see Figure 9.5) is on (up).
3. Check to be sure the **Main Power** switch ❼ is on (see Figure 9.5).
4. Check to be sure the **Selector** switch ❽ is set to platform (up) (see Figure 9.5).
5. If the **Battery** Switch ❺ (see Figure 9.4), **Emergency Stop** ❻, **Main Power** ❼, and **SELECTOR** switch ❽ (see Figure 9.5) are all set correctly, and the engine will not start from the platform control box, set the **Selector** switch ❽ to ground (down) and try to lower the platform from the ground control box.

⚠DANGER

Pinching And Crushing Hazard. At the next step the platform will come down and the scissor arms will close. Keep all body parts out of the scissor arms and out from under the platform.



Figure 9.6 - Manual Bleed Down Control

6. If the platform will not lower, the person on the ground will need to use the manual bleed down ❾ (see Figure 9.6) located at the front of the chassis.To lower the platform pull on the cable ❾) until the platform is fully lowered.

NOTE

If the platform does not come down, refer the problem to a qualified trained service technician.

■ Pushing / Towing

the machine can be safely pushed or towed by hand on level firm surfaces. To do so:



Figure 9.7

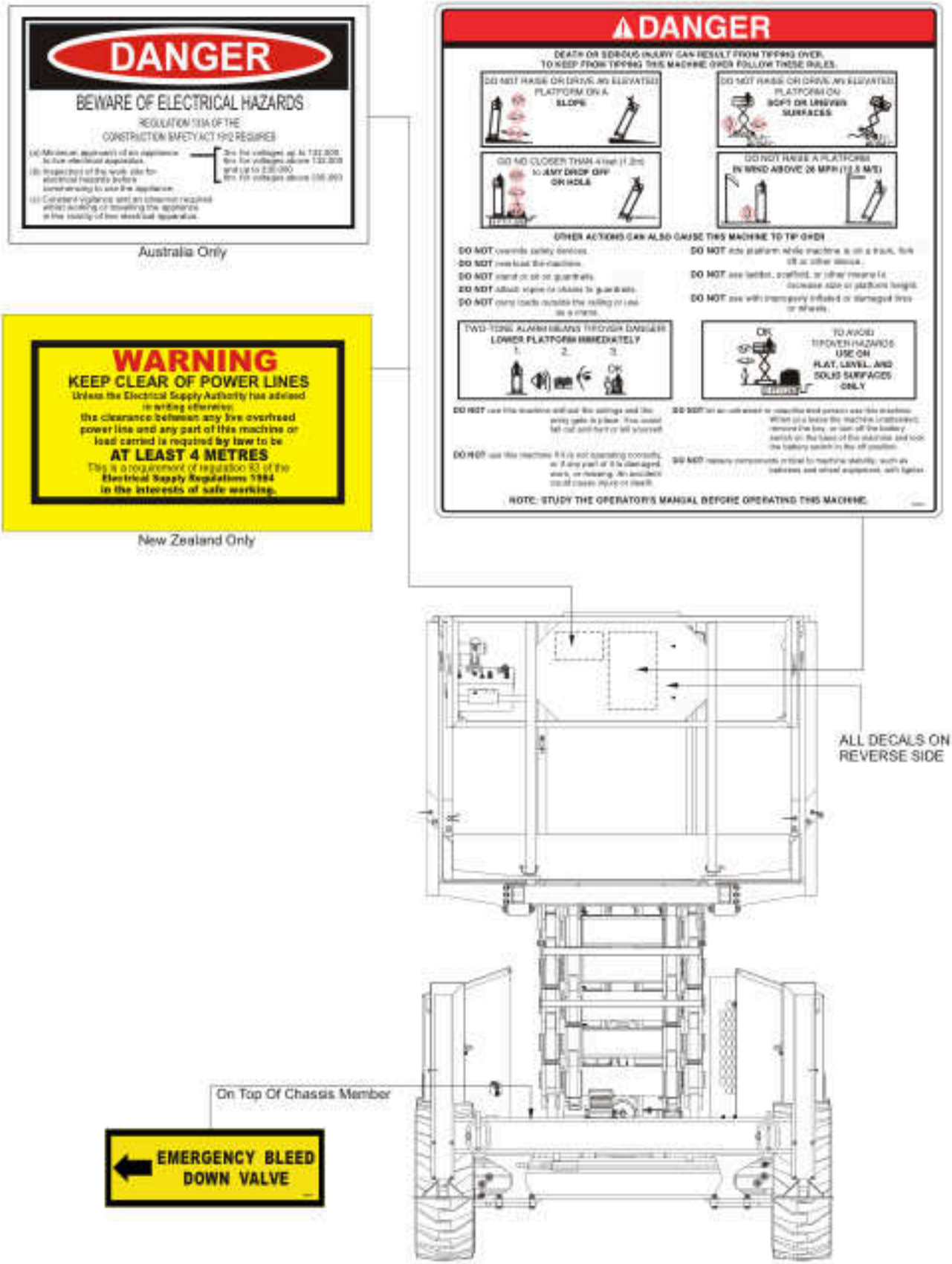
1. Turn the **Battery** switch ❶ to off (see Figure 9.7).



Figure 9.8

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FRONT END OF THE MACHINE



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- **aerial platform**

  a mobile device that has an adjustable position platform, supported from ground level by a structure.

- **ambient temperature**

  the air temperature of the immediate environment.

- **ammeter**

  an instrument for measuring the strength of an electric current in amperes.

- **authorised personnel**

  personnel approved as assigned to perform specific duties at a specific location.

- **base**

  the relevant contact points of the aerial platform that form the stability support (e.g. wheels, casters, outriggers, stabilisers).

- **boom**

  a movable cantilever beam which supports the platform.

- **center of gravity**

  the point in the aerial platform around which its weight is evenly balanced.

- **chassis**

  the integral part of the aerial platform that provides mobility and support for the booms.

- **fall arrest system**

  is the form of fall protection which involves the safe stopping of a person already falling. The system includes:

  A - Anchorage - a fixed structure to which the components of the system are rigged.

  B - Body Wear - a full body harness worn by the person (referred to as a "safety harness" in this manual).

  C - Connector - a subsystem component connecting the harness to the anchorage, such as a lanyard.

  D- Deceleration Device - a subsystem component designed to dissipate the forces associated with a fall arrest event.

- **fall restraint**

  is the form of personal fall protection which prevents persons who are in a fall hazard area from falling. The system includes:

  A - Anchorage - a fixed structure to which the components of the system are rigged.

  B - Body Wear - a full body harness worn by the person (referred to as a "safety harness" in this manual).

  C - Connector - a subsystem component connecting the harness to the anchorage, such as a lanyard. The lanyard is short enough that the person can not reach the fall hazard.

- **ground pressure**

  the maximum pressure, expressed in pounds per square inch, a single wheel concentrates on the floor or ground.

- **gradeability**

  he maximum slope that the aerial platform is capable of travel.

- **ground fault circuit interrupter or residual current detector**

  a fast-acting circuit breaker that opens to stop electrical circuit flow if it senses a very small current leakage to ground. Also called GFCI or RCD. The GFCI/RCD is used to protect personnel against a potential shock hazard from defective electrical tools or wiring.

- **guardrail system**

  the primary fall protection system to eliminate the fall hazard. The system includes Toe boards, Midrail, Toprail and uprights.

- **hazardous location**

  any location that contains, or has the potential to contain, an explosive or flammable atmosphere as defined by ANSI/NFPA 505.

- **jib boom**

  a boom assembly located between the main boom and the platform.

- **level sensor**

  a device that detects a preset degree of variation from perfect level. The level sensor is used to sound an alarm if operating on a slope greater than the preset value. It may also (depending on the machine) prevent the it from operating further until it is brought back within the preset parameters.

- **lower controls**

  the controls located at ground level for operating some or all of the functions of the aerial platform.

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