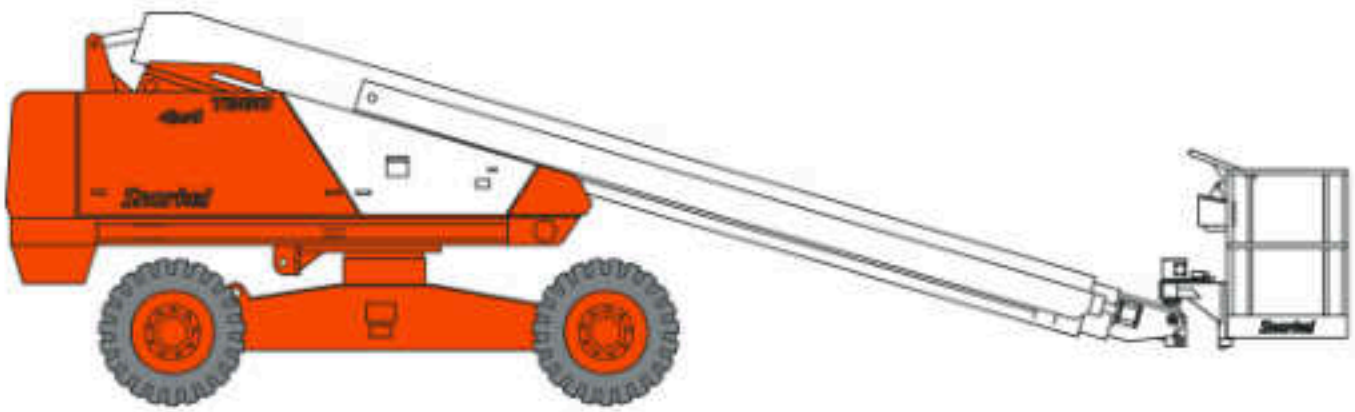
snorkel

TB60



OPERATOR'S MANUAL

Part Number 0083739
July 2018

Models TB60/TB60RT
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Appendix A – Glossary

Limited Warranty

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Engine Specifications

Engine	Displacement	Fuel Grade	Coolant	Operating Temperature	Oil Capacity	Oil Grade
Cummins B3.3	199 cu. in. (3.26 liter)	**Diesel** ASTM No. 2D fuel with a minimum Cetane no. of 40.[1] For operating temperature below 0°C (32°F) use winterized No. 2D.	50% Water 50% Antifreeze[2]	140°F to 212°F 60°C to 100°C	2 US gal (7.5 liter)[3]	SAE 15W-40[3] API CH4/SG
Deutz F4L-1011F	190 cu. in. (3.11 liter)[3]	**Diesel** • DIN 51 601 (February 1986).[1] • BS 2869: A1 and A2 (with A2 refer to Deutz manual about sulfur content)[1] • ASTM D 975-88: 1-D and 2-D • CEN EN 590 or DIN EN 590 • NATO Code F-54 and F-75 • For operating temperatures below 0°C (32°F) use winter grade diesel.	Air	172°F to 203°F 78°C to 95°C	2.75 US gal (10.4 liter)	API: CD or higher[3]
Deutz F4L-2011F	190 cu. in. (3.11 liter)	**Diesel** • DIN 51 601 (February 1986).[1] • BS 2869: A1 and A2 (with A2 refer to Deutz manual about sulfur content)[1] • ASTM D 975-88: 1-D and 2-D • CEN EN 590 or DIN EN 590 • NATO Code F-54 and F-75 • For operating temperatures below 0°C (32°F) use winter grade diesel.	Air	172°F to 203°F 78°C to 95°C	2.75 US gal (10.4 liter)	API: CD or higher[3]
Kubota V2403-M-T	148.5 cu. in. (2.43 liter)	**Diesel** Diesel Fuel No. 2-D ASTM D975[1]	50% water 50% Antifreeze[2]	NA	2.51 gal (9.5 liter)	API: CF grade or higher[3]

Note 1: Refer to the engine manufacturers manual for specific fuel recommendations and specifications.

Note 2: Refer to the engine manufacturers manual for specific coolant recommendations and specifications.

Note 3: Refer to the engine manufacturers manual for specific lubricating oil recommendations and specifications.

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The aerial platform is equipped with several gauges to monitor the condition of the machine before and during operation.

Hour Meter

The hour meter is located on the wiring box on the left side of the lower controls (refer to Figure 5.1). It measures the accumulated engine operating time.



Figure 5.1 – Wiring Box

Engine Temperature Gauge

The temperature gauge is located on the lower control panel (refer to Figure 5.2).

Machines with Kubota engines do not have an engine temperature gauge.

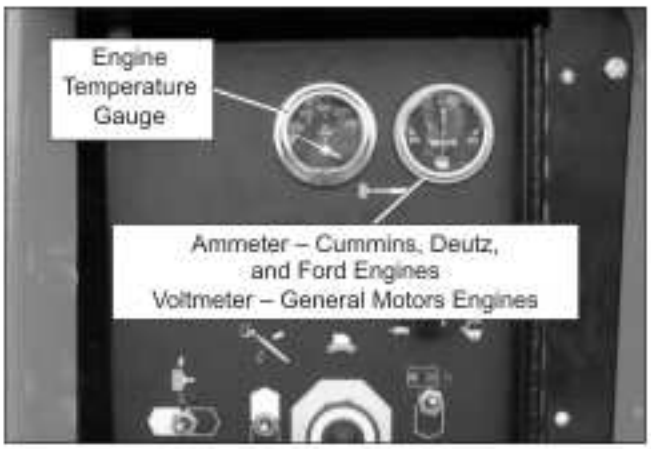


Figure 5.2 – Lower Controls

- The gauge on liquid cooled engines shows the temperature of the water and antifreeze mixture in the engine block.
- The gauge on air cooled engines shows the temperature of the engine oil as the oil leaves the filter.

Ammeter – Cummins, Deutz and Ford Engines

The ammeter is located on the lower control panel (refer to Figure 5.2). The ammeter displays the level of current flow from the alternator to the batteries.

- After the engine has been running for a few minutes under normal operating conditions, the ammeter gauge indicator should read "0."

Machines with Kubota engines do not have an engine ammeter gauge.

Voltmeter – General Motors Engines

The voltmeter is located on the engine gauge panel above the lower controls. The voltmeter displays battery voltage.

- After the engine has been running for a few minutes under normal operating condition, the voltmeter should indicate between 12.5 and 14 volts.

Engine Air Filter Gauge

The air filter gauge (refer to Figure 5.3) is located on the engine gauge panel above the lower controls.



Figure 5.3 – Air Filter Gauge

The air filter gauge measures the air pressure between the intake manifold and the air filter.

- The yellow indicator disk inside the sight glass stays at its highest level when the engine is turned off.
- When the yellow indicator disk reaches the red area, it's time to change the filter element.
- After changing the filter, press the reset button to reset the indicator disk to the bottom of the sight glass.

Fuel Gauge

The fuel gauge is located on top of the diesel or gasoline tank (refer to Figure 5.4). Access the gauge by opening the door on the right side of the chassis.

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Figure 8.10 – Upper Controls

The lights are operational when the upper controls emergency stop button is pulled up and the start switch is turned on.

The engine speed increases to high idle when the platform work lights are turned on.

Note
Working with the platform work lights on, while the engine is off, can discharge the batteries enough that the engine will not start and the emergency power system will not operate. If the engine cannot be left running while the lights are on, start and run the engine for at least 15 minutes each hour.

Platform Glazier Package

The glazier package allows the platform operator to position glass at the work place. Refer to the Glazier Package manual (Snorkel Part Number 0421269) for information on proper use of the glazier package.

The package includes two lined trays with keeper pins, platform rail padding, and tie-down straps with protectors (refer to Figure 8.11).

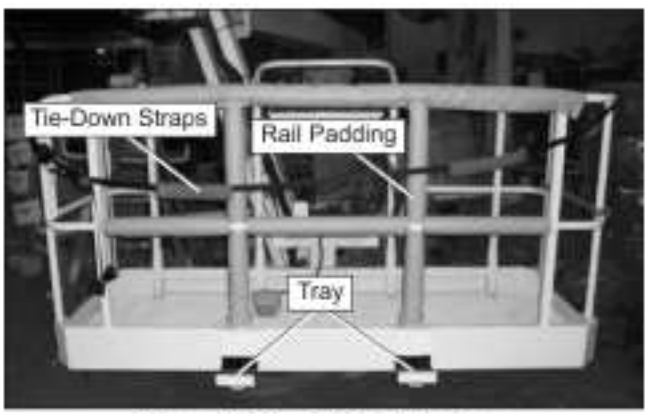


Figure 8.11 – Glazier Package

Platform Capacity

The platform rated work load is the total weight of the personnel and equipment that may be lifted in the platform. The work load is stated on the platform rating placard mounted on the toeboard at the rear of the platform.

The maximum total load carried by the glazier trays must not exceed 250 lb (113 kg). The weight of the load in the trays reduces the platform capacity by the amount of the load.

Bump Guard System

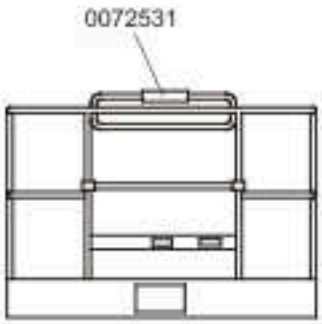
The optional bump guard system is a spring mounted padded railing below the platform. There are two infrared lights mounted along the bottom of the platform next to two infrared sensitive switches. The lights shine on reflectors on the bump guard system and are reflected back to the switches.

If the bump guard comes into contact with a stationary object, the bump guard moves and one or both of the light beams is broken. A dark switch removes control from the platform control box, immediately stopping all platform movement.

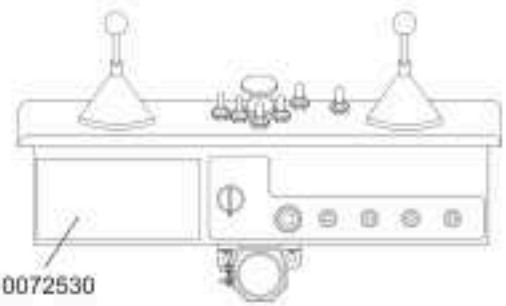
To override the bump guard infrared switch, in order to move away from the stationary object, do the following:

1. At the upper controls, hold the proximity override switch up.
2. Use the controls on the upper control box to move the platform away from the stationary object.
3. Return the proximity override switch to normal operation.

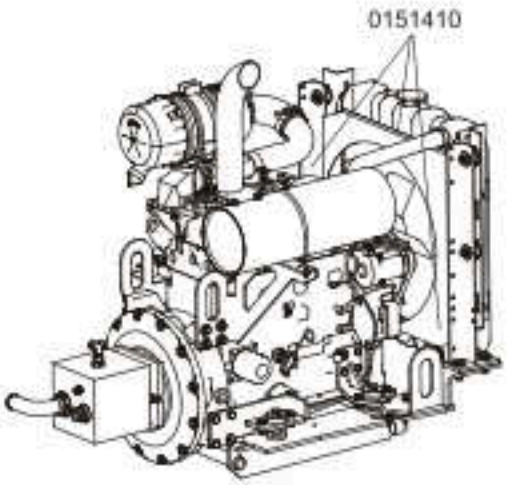
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Platform



Upper Control Panel Front



Radiator



Platform Glazier Package



0072531



0072530



0151410



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