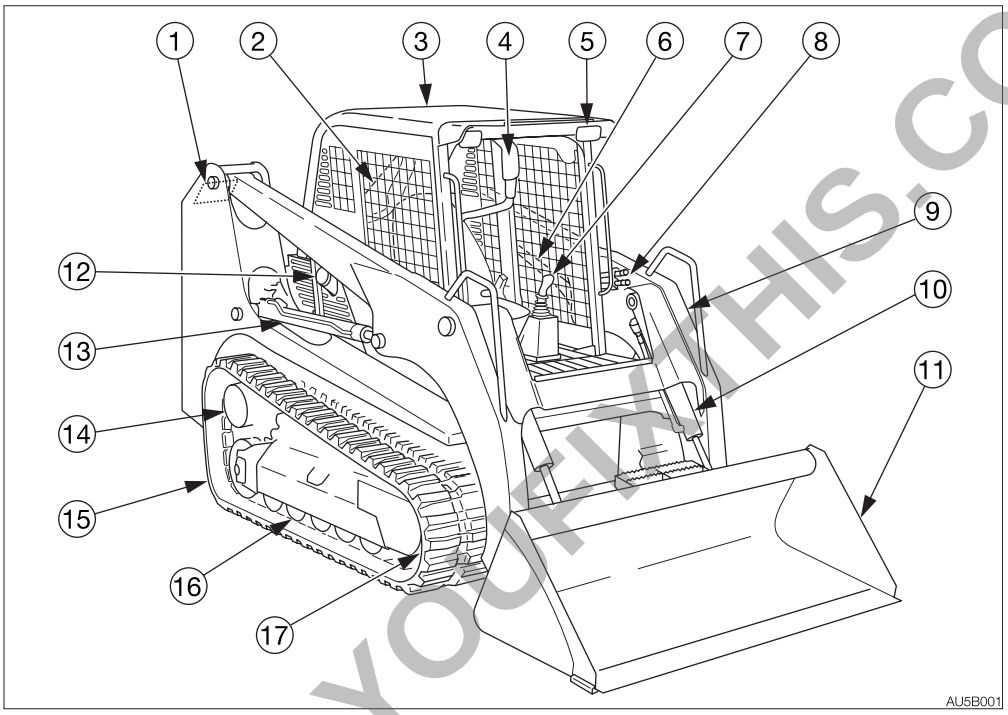
NAMES OF COMPONENTS



1. Tail light
2. Hydraulic tank
3. Canopy
4. Safety bar
5. Front light
6. Lift arm stopper
7. Left control lever
8. Auxiliary hydraulic lines
9. Lift arms
10. Bucket cylinder
11. Bucket
12. Fuel filler cap
13. Lift cylinder
14. Travel motor
15. Rubber track
16. Track roller
17. Idler

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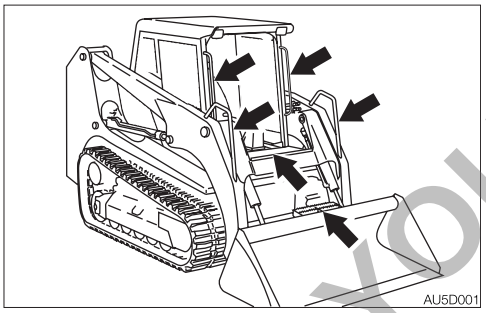
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BEFORE STARTING OPERATION

GETTING ON OR OFF THE MACHINE

⚠ WARNING

- **Do not jump on or down from the machine. Never attempt to get on or off the moving machine.**
- **When getting on or off the cab, first fully open the door to the locked position and check that it does not move. (If equipped with a cab door)**



- **Climb up/down the steps facing the machine and holding the handrail to support your weight in a three point secure stance (hand and feet).**
- **Never use the safety bar or control levers as hand holds.**

WALK-AROUND INSPECTION

Perform the walk-around inspections once a day before starting the engine for the first time that day.
Refer to “MAINTENANCE, Walk-around inspection”, on pages 5-14 and 5-15.

DAILY INSPECTION

Perform the daily inspections once a day before starting the engine for the first time.
Refer to “MAINTENANCE, Daily inspection”, on pages 5-16 to 5-20.

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GENERAL

MAINTENANCE OVERVIEW

To keep the machine in good condition and use if for a long period, perform the inspection and maintenance properly and safely following the procedures recommended by this manual.

The inspection and maintenance items are divided into groups according to the machine's total operating time: every 10 hours (walk-around and daily inspection), every 50 hours, every 250 hours, etc. Refer to the hour meter readings to determine when to schedule an inspection and maintenance. Items for which it is not possible to determine the inspection and maintenance interval are included under "When Required".

When operating the machine in extremely harsh environments (with high dust levels or high temperatures), inspection and maintenance should be performed earlier than the times specified on the Maintenance List.

CAUTIONS ON MAINTENANCE

Do not perform any other inspection and maintenance works than those listed in this manual.
For works not listed in this manual, ask your sales or a service dealer for help.

Keep the machine clean
- Clean the machine before performing inspection and maintenance and try to keep it clean.
- Stop the engine before washing the machine. Cover the electrical parts so that water cannot enter. Water on electrical parts could cause short-circuits or malfunctions. Do not use water or steam to wash the battery, electronic control components, sensors, connectors or the operator's compartment.

Fuel, lubricant and grease
- Choose fuel, lubricant and grease by following to the "Fuel and lubricant table".
- Use fuels, lubricants and greases which do not contain water, and be careful to keep dirt out when changing or replenishing fuel, lubricant or grease.
- Store fuels, lubricants and greases in the prescribed places and in such a way that no water or dirt can get in them.

Cautions on refueling
- If the port includes a strainer, do not remove the strainer when fueling.
- After fueling, be sure to securely tighten the fuel filler cap.
- Do not add more than the specified amount of fuel.

Do not use fuel to clean parts
Do not use fuel to clean parts. Use a non-combustible cleaning agent.

Keep dirt out
When mounting and removing parts, do so in a place where there is no dust, clean the working area and the part, and keep dirt out.

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SYMPTOMS THAT ARE NOT MALFUNCTIONS

The symptoms listed below are not malfunctions.

- The lift arms go up or stop by themselves at the stroke end, when the bucket operation is performed at the same time as the lowering of the lift arms.
- The travel motor produces noise when stopped suddenly from its high speed traveling.
- The control valve produces noise if excessive force is applied to the working equipment or when it moved to the stroke end.
- It becomes less easy to operate the machine when an attachment weighing more than a standard bucket is installed.
- In some cases smoke may be emitted from the tail pipe while the DPF regeneration is being performed. This is not a failure; it is due to burning of the particulate matter (PM).
- In some cases the noise associated with the DPF regeneration operation or cancel operation may change; this is not a failure.

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BASIC SPECIFICATIONS

<TL8>

Type				Canopy	Cab
MASS					
Operating mass	kg (lb)	Rubber tracks (400W)		3835 (8455)	3915 (8631)
		Rubber tracks (320W)		3785 (8344)	3865 (8521)
PERFORMANCE					
Bucker capacity (Standard bucket)	m^3 (cu. ft.)	Heaped		0.351 (12.4)	
Travel speed	km/h (mph)	Rubber tracks	1st	7.4 (4.6)	
			2nd	11.0 (6.8)	
Gradeability	(degrees)			30	
Ground pressure	kPa (psi)	Rubber tracks (400W)		30.2 (4.38)	30.8 (4.47)
		Rubber tracks (320W)		37.2 (5.39)	38.0 (5.51)
Noise level	dB (A)	Sound power level (ISO 6395:2008)		L_{WA} 103	
		Sound pressure level (ISO 6396:2008)		L_{pA} 85	
ENGINE					
Manufacturer and model				KUBOTA V3307-CR-TE4B	
Rated output	Gross (SAE J1995)	kW/min^{-1} (hp/rpm)		55.4/2600 (74.3/2600)	
	Net (ISO 14396)	kW/min^{-1} (hp/rpm)		54.6/2600 (73.2/2600)	
	Net (ISO 9249/ SAEJ 1349)	kW/min^{-1} (hp/rpm)		53.2/2600 (71.3/2600)	
Displacement		ml (cu.in.)		3331 (203.3)	
Starter		V-kW		12-3.0	
Alternator		V-kW		12-0.72	
Battery (IEC 60095-1)		V-A·h		12-90	

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GENERAL PRECAUTIONS

It is your responsibility to observe all pertinent laws and regulations and to follow the manufacture's instructions on machine operation, inspection and maintenance.

Virtually all accidents occur as the result of a failure to observe basic safety rules and precautions.
Most accidents can be prevented by identifying the potentially hazardous situations beforehand.
Read and understand all safety messages which describe how to prevent accidents.
Do not operate the machine until you are sure that you have gained a proper understanding of its operation, inspection and maintenance.

Observe all safety rules

- Operation, inspection and maintenance of this machine must be performed only by a trained and qualified person.
- All rules, regulations, precautions and safety procedures must be understood and followed when performing operation, inspection and maintenance of this machine.
- Do not perform any operation, inspection and maintenance of this machine when under the adverse influence of alcohol, drugs, medication, fatigue or insufficient sleep.

When a problem is found on the machine

If any problem (noise, vibration, smell, disorder of instrument, smoke, oil leak, wrong indication of alarm or unusual indication in the instrument cluster, etc.) is detected during the operation or inspection and maintenance of the machine, immediately inform your sales or service dealer and take proper actions. Do not operate the machine until the trouble is cleared.

Operating temperature range

To maintain the performance of machine and to prevent it from early wear, observe the following operating conditions.

- Do not operate the machine if the ambient temperature is higher than +45°C (+113°F) or lower than –15°C (+5°F).
  - If operated at an ambient temperature of higher than +45°C (+113°F), the engine may overheat and cause the engine oil to degrade.
  - If operated at an ambient temperature of lower than –15°C (+5°F), the parts made of rubber such as gaskets may get hardened to cause an early wear or damage to the machine.
  - If the machine is to be used outside the ambient temperature range described above, consult your sales or a service dealer.

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INTRODUCTION

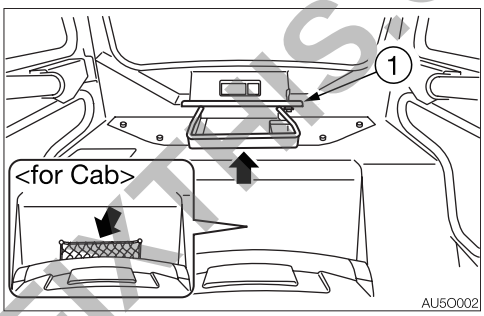
FOREWORD

This manual describes operation, inspection and maintenance of the machine, as well as safety instructions to be heeded during these operations. If you have any questions about the machine, please contact a Takeuchi sales or service outlet.

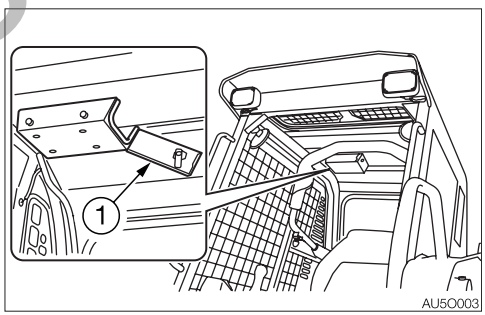
MANUAL STORAGE COMPARTMENT

A compartment for storing this manual is provided at the position shown on the diagram below.

Type A



Type B



1. Insert the ignition key and turn it counterclockwise to open the cover (1).
2. After using the manual, place it in the plastic pouch and store it back in the manual storage compartment.

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1. No.06593-00012



AVOID DEATH
Before removing seat belt and leaving seat
- Lower lift arms to ground or rest lift arms on stops.
- Stop engine.

2. No.08800-30010



3. No.06593-00013



AVOID INJURY
- Loader can move suddenly and violently
- Always wear seat belt

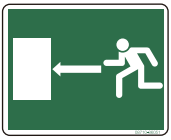
4. No.06593-00011

AVOID INJURY
- Lift arms move close by window opening
- Never place hands or arms, through screen opening



5. No.08710-86051

Position of Emergency Exit



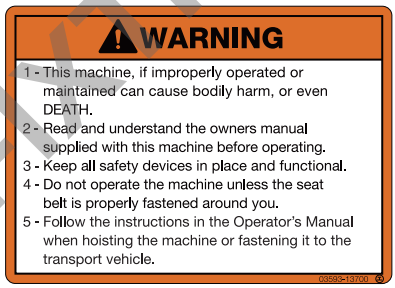
6. No.08800-31005



7. No.08810-30026



8. No.03593-13700

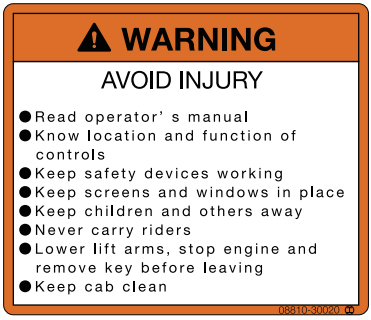


9. No.08820-31135

Sign indicates a burn hazard from spurting hot water or oil if radiator or hydraulic tank is uncapped while hot.
Allow radiator or hydraulic tank to cool before removing cap.



10. No.08810-30020



AU7A0021E

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WEATHER BAND OPERATION

14 Accessing the Weather Band

Press WB (14) to directly access the weather band mode from any other function mode.

What is the NOAA Weather Radio?
This is a nationwide system that broadcasts local weather emergency information 24 hours a day. The U.S. network has more than 530 stations covering the 50 states as well as the adjacent costal waters, Puerto Rico, the U.S. Virgin Islands and the U.S. Pacific Territories. Each local area has its own transmitting station and there are a total of seven broadcasting frequencies used: 162.400MHz (CH1), 162.425MHz (CH2), 162.450MHz (CH3), 162.475MHz (CH4), 162.500MHz (CH5), 162.525MHz (CH6) and 162.550MHz (CH7).

How many stations can I expect to receive?
Since the broadcasts are local weather and information, the transmission power is usually very low (much less than AM or FM stations) so you will usually receive only one station unless you are on the edge of two or more broadcast signals. The most you will receive will be two or three, and that is rare.

Is it possible I won't receive any stations?
Depending on location, it's possible you will receive a very weak signal or none at all. Also, similar to AM and FM signals, weather band signals are subject to surrounding conditions, weather, obstructions of the signal by hills or mountains, etc. If no NOAA signals are found/received, the "NO SIG" icon will flash in the display and the tuner will scan all seven NOAA frequencies every 30 seconds.

How will I know I am tuned to the weather band?
When you select the weather band, the "WB" icon will appear on the display panel, along with the current channel indication. Press TUN+ or TUN– to tune to each of the seven channels until you find the weather band station broadcasting in your area.

NOAA Weather Alert
The Weather Alert function adds an additional level of user safety by automatically switching from the current function mode to weather band mode for a minimum of 60 seconds if a NOAA warning tone (1050 Hz) is received/detected. If no additional warning tone is received for 60 seconds, the unit will switch back to the last known function mode.
The Weather Alert function can be turned "on" or "off" by the Audio/Menu key, as described on page three. When "ON" (default), the Weather Alert icon appears in the display and the weather tuner remains active, even when the radio is turned off (as long as the power is still applied to the radio). If a weather alert is issued, the radio will turn on and play the announcement. for 60 seconds, then turn back off and revert to weather alert monitor mode.
If the Weather Alert function is set to "OFF", no Weather Alert icon appears in the display. The radio will not respond to any weather alerts when it is off and will not automatically switch to the weather band if an alert is issued.
Note: If the unit is programmed for European operation, the WB function will be disabled.

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SERVICE DATA

FUEL AND LUBRICANT TABLE

Select the appropriate fuel, lubricant and grease according to the temperature by referring to the table below.

- Regardless of the specified time, change the oil if it becomes too dirty or degraded.
- When refilling, never mix oils of different brands. If a brand is to be changed, replace the whole fuel/oil.

Fuel

Diesel fuel specifications

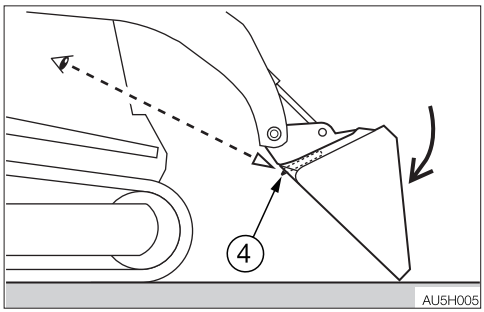
Diesel fuel should comply with the following specifications. The table lists several worldwide specifications for diesel fuels.

Diesel fuel specification	Location	Diesel fuel specification	Location
ASTM D975 No. 1-D, S15 No. 2-D, S15	USA Canada	ISO 8217DMX	International
EN590: 96	European union	BS2869-A1 or A2	United kingdom

Fuel tank	**Diesel fuel**	To maintain the performance and service life of the engine, always use clean and high-quality fuel. • To avoid freezing in cold climates, use a diesel fuel that still functions when the temperature is at least 12°C (53.6°F) below the lowest expected ambient temperature. • Use a diesel fuel that has a cetane number of 45 or higher. When operating at a very low temperature or at a high altitude, a higher cetane number fuel will be required. • Use fuel with sulfur content of less than 0.05 to 0.0015% by volume. Especially in the U.S.A. and Canada, ultra-low sulfur fuel should be used. A higher sulfur content fuel may cause sulfuric acid corrosion in the cylinders of the engines. • Never mix kerosene, used engine oil, or residual fuels with the diesel fuel. • Poor quality fuel can reduce engine performance and / or cause engine damage. • Fuel additives are not recommended. Some fuel additives may cause poor engine performance.

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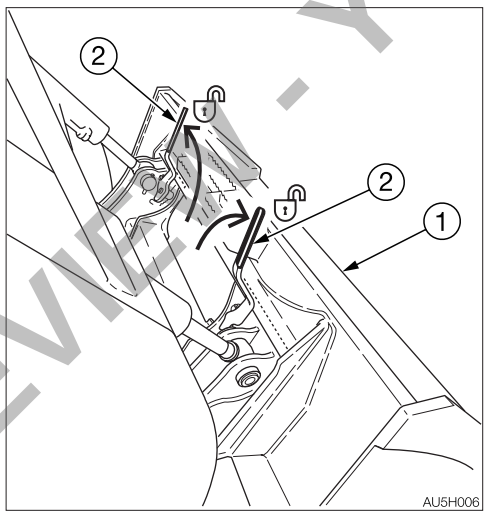
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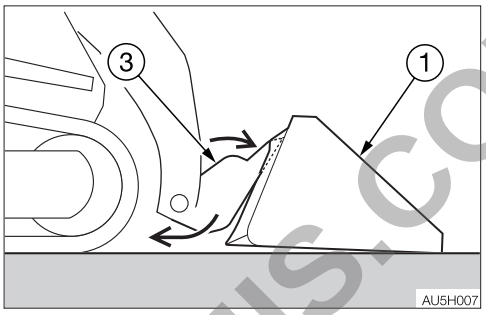
9. Check that the tips of the pins (4) are projecting through the bracket holes on the bucket to indicate that the latch is properly engaged.
10. If the pins (4) do not come down to the lock position, do not continue working; disconnect the quick-hitch and determined the cause instead.

Removal

1. Keep the bucket (1) at the height of 25 to 50 mm (1 to 2 in.) above the ground.
2. Stop the engine, raise the safety bar and release the seat belt.



3. Pull both lock levers (2) until they are vertical to release the latch.
4. Sit in the operator's seat, lower the safety bar, fasten the seat belt, and then start the engine.



5. Tilt the quick-hitch forward to disconnect its upper edge from the bucket (1) upper part (quick-hitch mount).

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