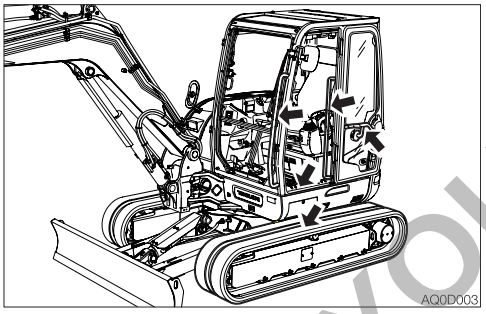
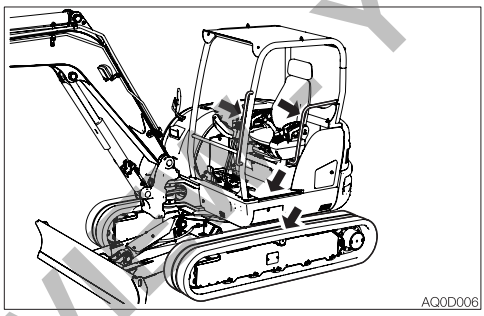
BEFORE STARTING OPERATION

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.**





- **Climb up/down the steps holding the handrail to support your weight in a three point secure stance (hand and feet).**
- **Never use the safety lock lever 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 5-16 and 5-17.

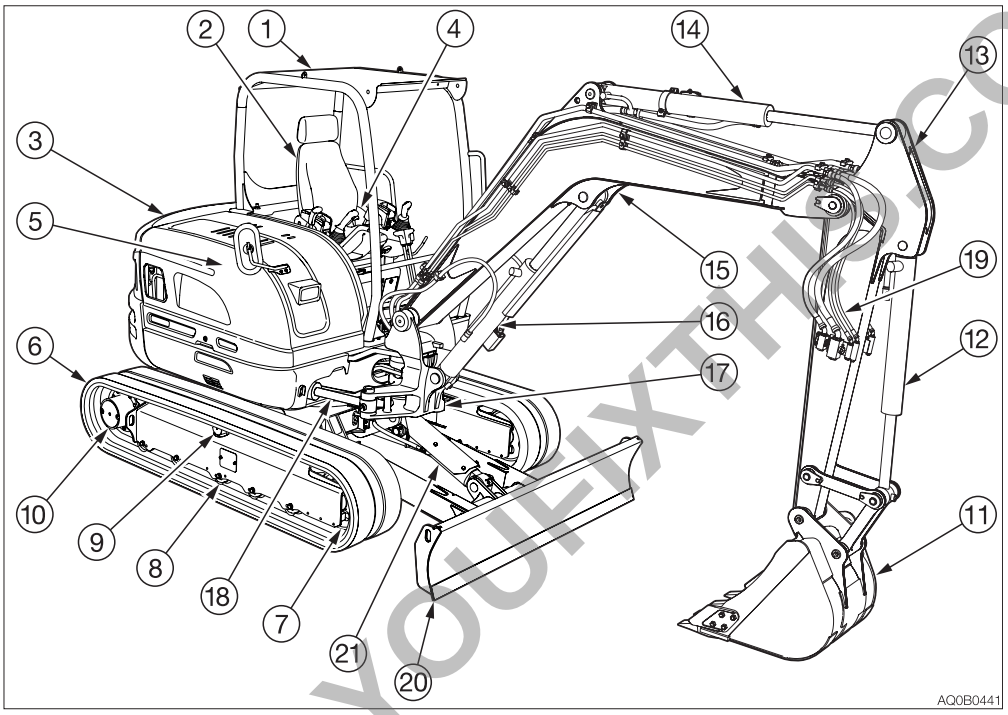
DAILY INSPECTION

Perform the daily inspections once a day before starting the engine for the first time.
Refer to “MAINTENANCE, Daily inspection”, on pages 5-18 to 5-23.

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NAMES OF COMPONENTS (CANOPY)



Upperstructure
1. Canopy
2. Seat
3. Engine hood
4. Fuel tank
5. Hydraulic oil tank

Undercarriage
6. Crawler belt
7. Idler
8. Track roller
9. Carrier roller
10. Travel motor

Working equipment
11. Bucket
12. Bucket cylinder
13. Arm
14. Arm cylinder
15. Boom
16. Boom cylinder
17. Boom bracket
18. Swing cylinder
19. Auxiliary hydraulic lines
20. Dozer blade
21. Blade cylinder

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MAINTENANCE LIST

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Inspecting by walking around the machine	5-17
Inspecting while sitting in the operator's seat	5-17
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Inspecting and replenishing the engine oil	5-19
Inspecting the water separator	5-20
Inspecting the fuel level	5-21
Inspecting the hydraulic oil tank level and replenishing	5-22
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Replacing the engine oil and the oil filter	5-24
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Every 50 hours	
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Every 100 hours	
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Every 250 hours	
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Cleaning the condenser (AC)	5-41
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*: If the percentage of the traveling time within the total operating time is high, replace the gear oil earlier than the specified time.
(AC): Air conditioner

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BASIC SPECIFICATIONS

<Applicable machine models 126000002 or later>

Type				Cab
MASS				
Operating mass	kg (lb)	Rubber crawlers		5735 (12645)
		Steel crawlers		5920 (13050)
PERFORMANCE				
Bucket capacity (Standard bucket)	m^3 (cu. ft.)	Heaped		0.168 (5.93)
		Struck		0.127 (4.48)
Slew speed	min^{-1} (rpm)			9.4 (9.4)
Travel speed	km/h (mph)	Rubber crawlers	1st	2.8 (1.74)
			2nd	4.9 (3.04)
		Steel crawlers	1st	2.6 (1.62)
			2nd	4.6 (2.86)
Gradeability	(degrees)			30
Ground pressure	kPa (psi)	Rubber crawlers		31.5 (4.57)
		Steel crawlers		32.7 (4.74)
Noise level	dB (A)	Sound power level		L_{WA} 97
		Sound pressure level		L_{pA} 80
ENGINE				
Manufacturer and model				Yanmar 4TNV84T-BPTB
Rated output	Net (ISO 14396)	kW/min^{-1} (hp/rpm)		34.3/2400 (46/2400)
	Net (ISO 9249/ SAEJ1349)	kW/min^{-1} (hp/rpm)		32.4/2400 (43.4/2400)
Displacement		ml (cu.in.)		1995 (121.7)
Starter		V-kW		12-2.3
Alternator		V-kW		12-0.66
Battery (IEC 60095-1)		V-A·h		12-90

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IF A WARNING LAMP FLASHES

If an alarm is sounded or a warning lamp starts flashing during operation, park the machine in a safe place and perform the remedy procedures described below.

Warning lamp	Lamp name	Causes and remedies
 AW4J007	**Vehicle and engine emergency lamp**	There is a problem in the machine. Refer to the respective warning lamp below. Get the vehicle or engine error code number from the multi-information display or the instrument cluster, and then consult your sales or service dealer referring to the "Vehicle error code list" or "Engine error code list". Refer to "Multi-information display" on page 2-16 or "Instrument cluster" on page 2-28. Refer to "Vehicle error code list" on pages 6-12 and 6-13. Refer to "Engine error code list" on pages 6-14 to 6-21. <Applicable machine models 126100003 or later>
 AW4J0041	**ECM error warning lamp <Applicable machine models 126100003 or later>**	An engine problem is detected. If an error code is displayed on the multi-information display or the instrument cluster, inform your sales or service dealer of the code and ask for help. Refer to "Multi-information display" on page 2-16 or "Instrument cluster" on page 2-28. Refer to "Engine error code list" on pages 6-14 to 6-21.
 AG7J019	**Battery charge warning lamp**	There is a problem with the fan belt or charger. Check the fan belt for slack or breakage and adjust as necessary. If the lamp continues flashing after maintenance, there is likely a problem with the charger. Consult your sales or service dealer for help. Refer to "Inspecting and adjusting the fan belt" on page 5-26.
 AG7J017	**Engine oil pressure warning lamp**	There is a problem in the engine lubrication system. Check the engine oil level. If the lamp is flashing when the level is normal or even after replenishment of oil or coolant, consult your sales or service dealer. Refer to "Inspecting and replenishing the engine oil" on page 5-19.
 AW4J009	**Water separator warning lamp**	Water is in the water separator. Drain water. Refer to "Draining the water from the water separator" on page 5-61.

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ATTACHMENT COMBINATION TABLE

The table below shows which bucket should be installed when the machine is using a standard arm, middle arm or long arm. Select a proper bucket by following the table.

⚠ WARNING

- **Consult with Takeuchi before installing an optional attachment.**
- **Do not use any attachments not approved by Takeuchi. Doing so may cause safety problems. Or, it may adversely affect the machine's operation or service life.**
- **We will not be held responsible for any injuries, accidents or damage to its products caused by the use by a non-approved attachment.**
- **The swing stopper must be installed when a bucket wider than a 640W (standard) bucket is installed. Failure to do so may result in the bucket hitting the machine body.**

√ :Can be used.
Δ :Can be used only for light operations (digging and loading of dry and loose soil or mud)
— :Cannot be used.
Total bucket mass = Bucket mass + Heaped bucket load (specific gravity: 1.8)

Bucket	Rated capacity m^3 (cu.yd.)	Bucket cutting width mm (inch)	Middle arm 1620 mm (63.8 in.)	Long arm 1780 mm (70.1 in.)
640 W (S.T.D.)	0.168 (0.2)	640 (25.2)	√	√
Total bucket weight= Within 440 kg (970 lb.)		Within 640 (25.2)	√	√

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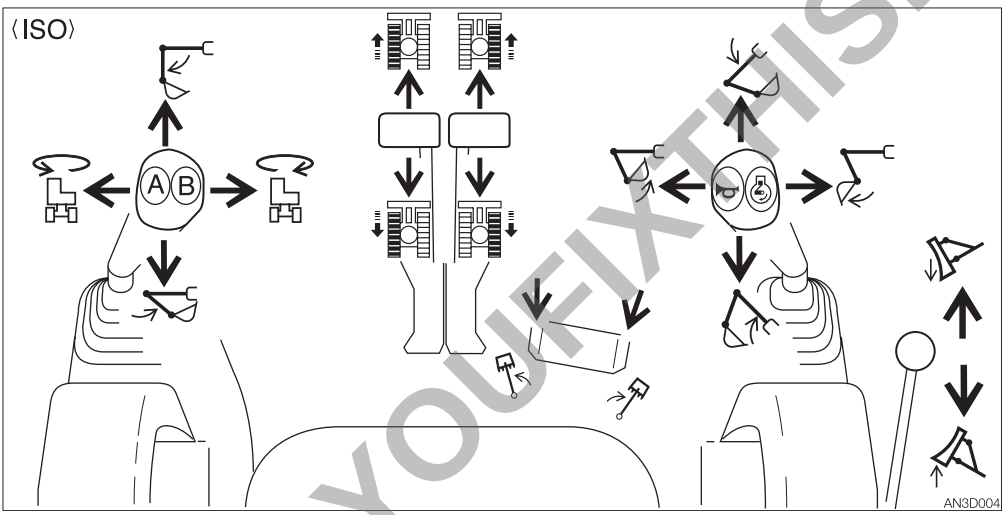
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OPERATING THE MACHINE

LEVER PATTERN (ISO PATTERN)

⚠ WARNING

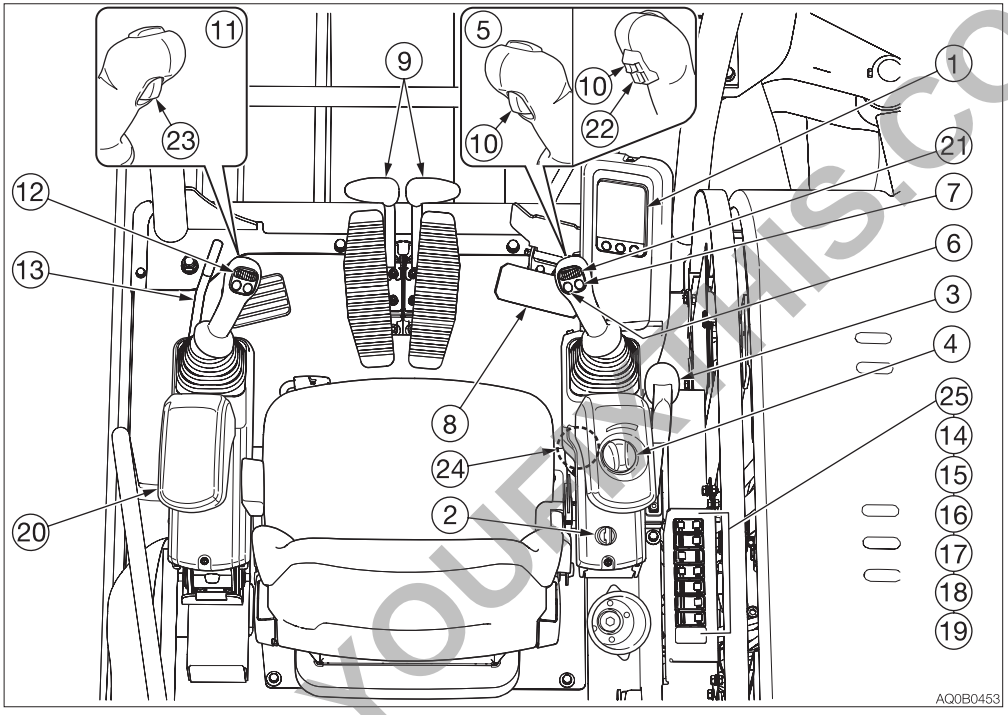
- Before starting operation, carefully check which lever pattern you are going to use.
- It is described using the ISO pattern in this manual.



	Left crawler forward		Right crawler forward
	Left crawler reverse		Right crawler reverse
	Arm out		Boom lower
	Arm in		Boom raise
	Upperstructure slew left		Bucket load
	Upperstructure slew right		Bucket dump
	Boom swing left		Dozer blade lower
	Boom swing right		Dozer blade raise

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1. Instrument cluster
2. Starter switch
3. Blade lever
4. Throttle controller
5. Right operating lever*
6. Horn button
7. Deceleration button
8. Boom swing pedal
9. Travel levers/pedals
10. Travel speed button
11. Left operating lever
12. Auxiliary 1st switches
13. Safety lock lever
14. Light switch
15. Automatic deceleration switch
16. Power/Highland mode switch
17. Detent mode switch
18. Lift overload warning switch*
19. Beacon lamp switch*
20. Engine shutdown switch*
21. Auxiliary 2nd/4th switch*
22. Auxiliary 2/4 select button*
23. Third auxiliary hydraulic button*
24. Third auxiliary hydraulic switch*
25. DPF manual regeneration/inhibit select switch <Applicable machine models 126100003 or later>

*: Subject to the specifications or optional products selected

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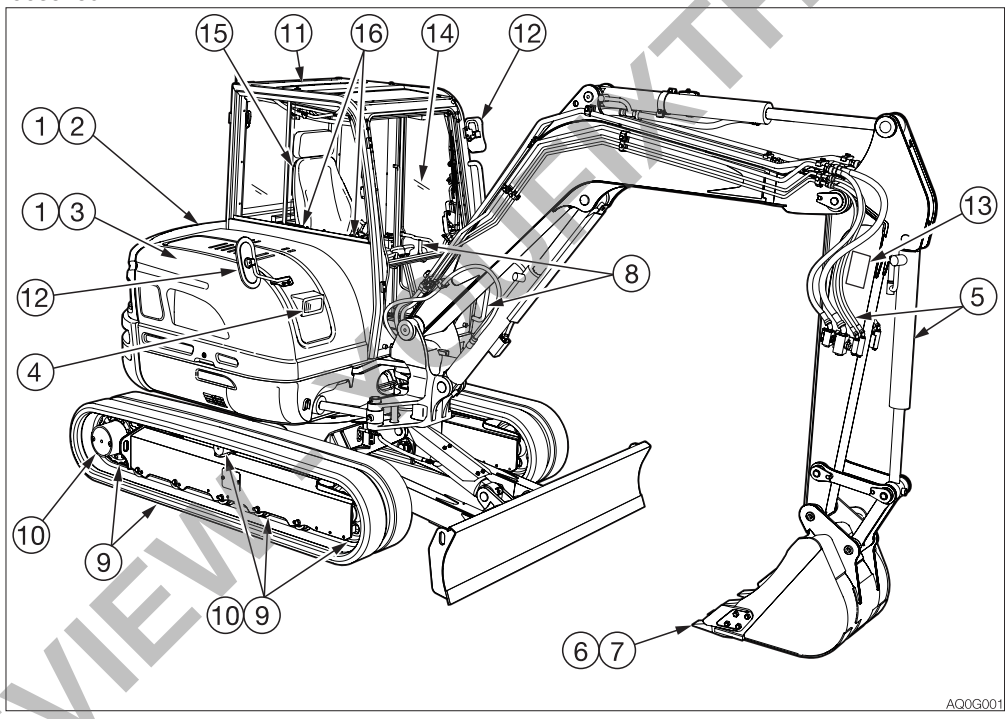
WALK-AROUND INSPECTION

Perform the following inspections every day before starting the engine for the first time.

⚠ WARNING

- **Before operating, perform the walk-around inspections and make repairs immediately where necessary.**
- **Be sure to secure the engine hood or cover before working the inside. Do not keep the hood or cover open on a windy day or if the machine is parked on a slope.**

Before starting the engine, look around the machine and clean any combustibles from the surroundings of the engine. Also, inspect if oil or water is leaking and any nuts or bolts are loosened.



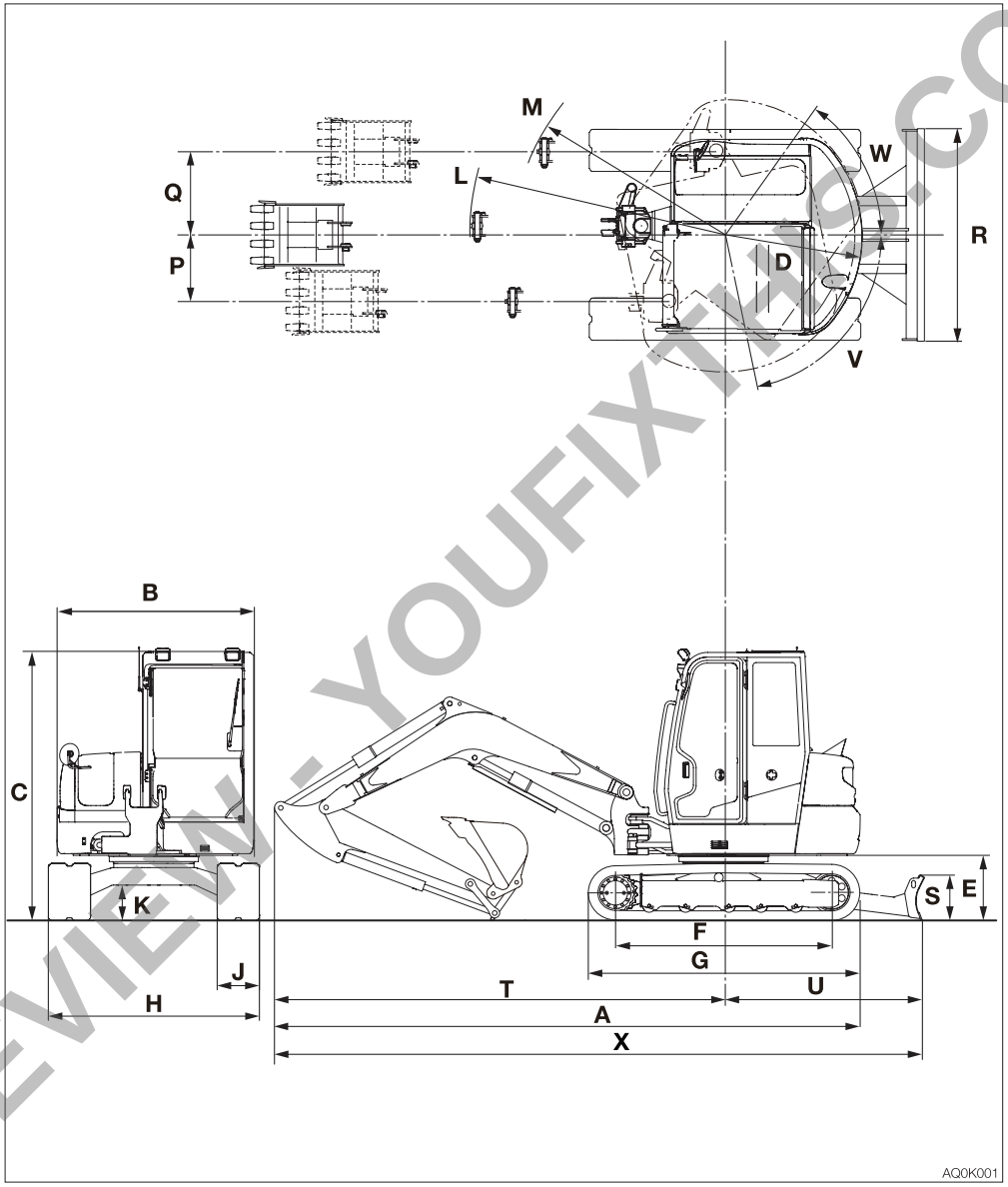
INSPECTING BY OPENING THE ENGINE HOOD AND COVERS

1. Check for any twigs, leaves, oil or other combustible materials around the engine and battery.
2. Check for oil or engine coolant water leakage around the engine.
3. Check for oil leakage from the hydraulic oil tank, hydraulic devices, hoses or connections.

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MACHINE DIMENSIONS



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VEHICLE ERROR CODE LIST

If an error code appears on the display, consult your sales or service dealer.

Error code	Error details
9	Impossible to sense ACC key
19	Parameter version mismatching
402	CAN 0 communication error
602	CAN communication error (cluster gauge)
612	CAN communication error (OX024)
1703	Main power supply voltage error (too high)
1704	Main power supply voltage error (too low)
1713	OX024 power supply voltage error (too high)
1714	OX024 power supply voltage error (too low)
2503	Sensor voltage error (too high) MMC
2504	Sensor voltage error (too low) MMC
3300	Alternator charge faulty
3401	Engine oil pressure error
3500	Overheat
3503	Water temperature (high pressure) <Applicable machine models: 126000002 or later>
3504	Water temperature (low pressure) <Applicable machine models: 126000002 or later>
3600	Air cleaner clogged
3700	Water separator alarm
5303	Accelerator sensor error (too high)
5304	Accelerator sensor error (too low)
5353	Governor position sensor error (high pressure) <Applicable machine models: 126000002 or later>
5354	Governor position sensor error (low pressure) <Applicable machine models: 126000002 or later>
5505	Fuel gauge resistance value error (cable break)

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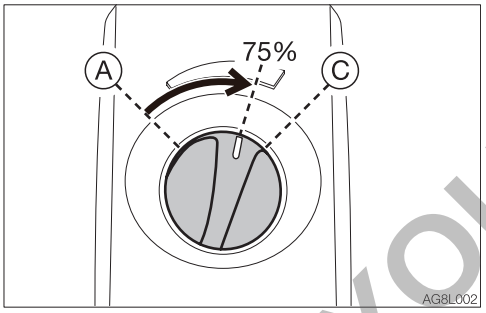
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HYDRAULIC BREAKER

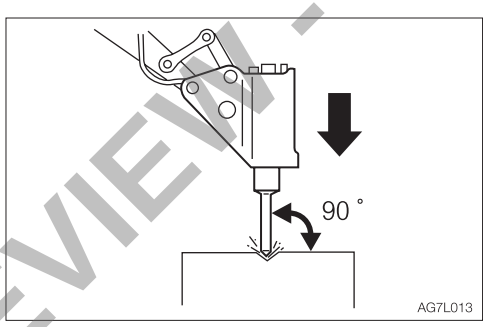
For handling of the breaker, read the hydraulic breaker's manual, provided separately.

IMPORTANT: When installing an attachment, make sure that it is appropriate for the machine being used. Contact your sales or service dealer for advice on selecting attachments.

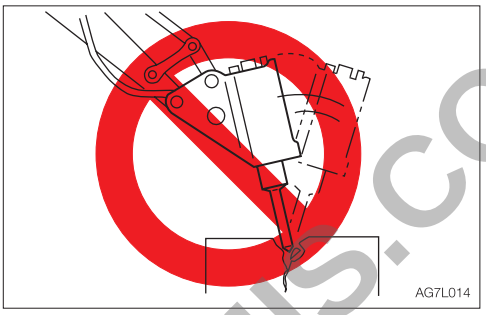
CAUTIONS ON OPERATING



- Start the engine and run it at 75% of the maximum speed.



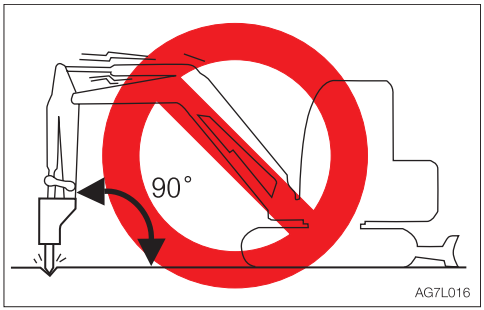
- Pound with the chisel pressed perpendicular to the surface to be pounded.
- When pounding, press the chisel properly against the object to be broken so as to avoid pounding the air.



- Do not pry with the chisel or do not pry while pounding.
- Do not move the chisel while pounding.
- Do not pound continuously for over 30 seconds on the same surface.



- Do not pound with the cylinder fully extended or retracted (at the stroke end). Leave a margin of at least 50mm(2 in).



- Do not pound with the arm placed perpendicular to the ground surface.

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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. Also, the hydraulic oil may become very hot, causing damage to the hydraulic equipment.
  - 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

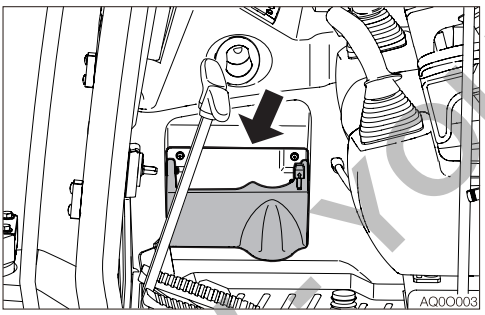
FOREWORD

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.

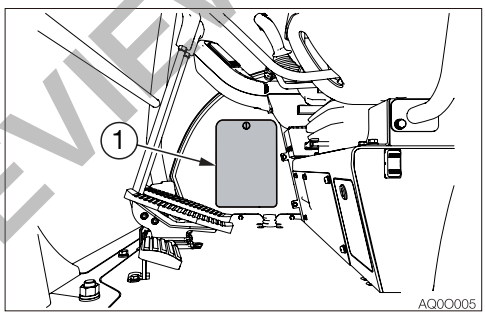
MANUAL STORAGE COMPARTMENT

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

Cabine



Canopy

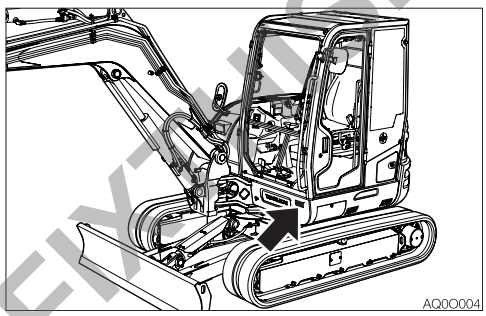


1. Insert the ignition key and turn it counterclockwise to open the cover (1).
2. After using the manual, place it in the plastic pouch and store it back in the manual storage compartment.

SERIAL NUMBERS

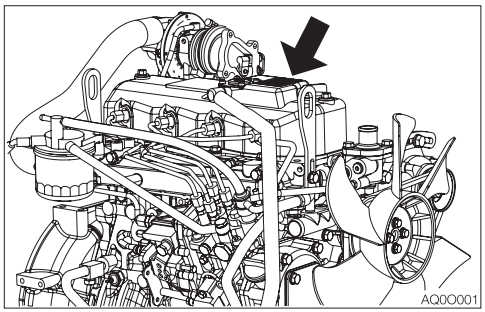
IMPORTANT: Do not remove the machine name plate with the serial number.
Check the serial numbers of the machine and engine and write them down in the spaces below.

Machine number:

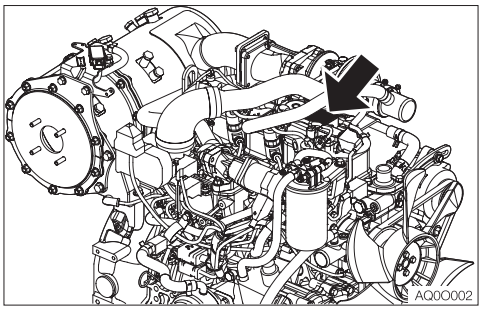


Engine number:

<Applicable machine models 126000002 or later>



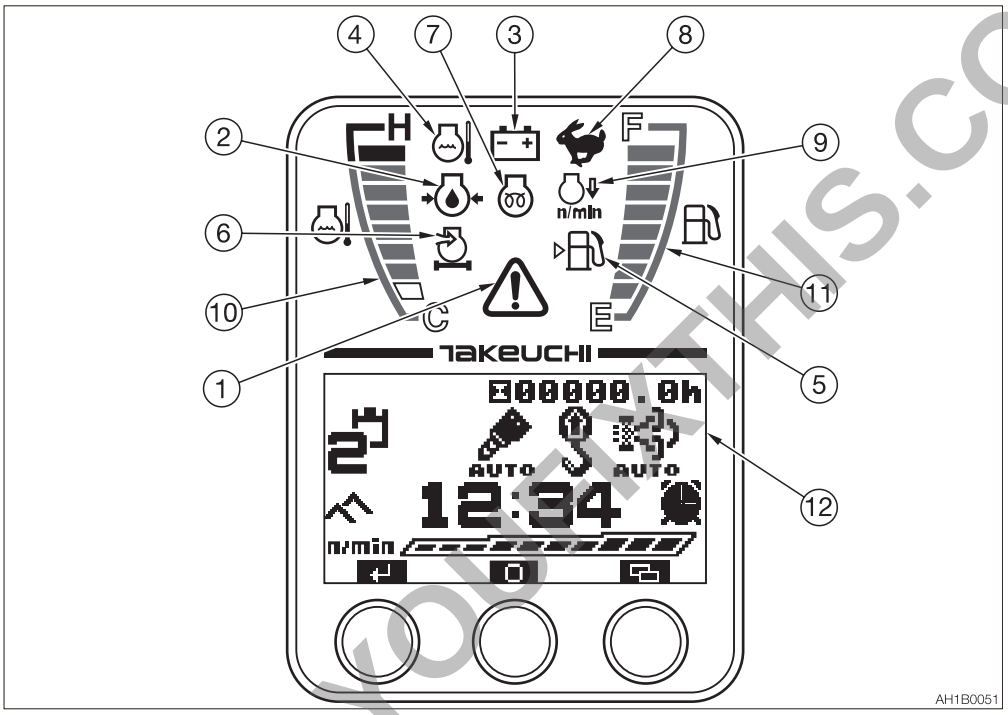
<Applicable machine models 126100003 or later>



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INSTRUMENT CLUSTER



For explanation purposes, all lamps on this page are in the lit condition. This screen image is quite different from that of the real operation.
Once the starter switch is turned to ON, all lamps on the instrument cluster light up and the alarm sounds.
Then, the battery charge warning lamp (3) and the engine oil pressure warning lamp (2) start flashing and an alarm sounds. The machine system is normal if the lamps turn off after the engine is started.
If any lamp is not lit when the starter switch is turned to ON, there is something wrong in the machine. Consult your sales or service dealer.

WARNING LAMPS

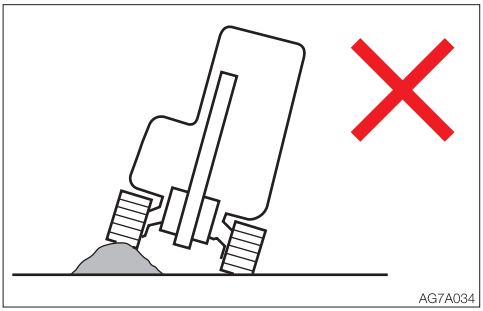
IMPORTANT: If a warning lamp flashes and an alarm is sounded, immediately stop all operations and check the corresponding component.
Refer to "If a warning lamp flashes" on pages 6-10 to 6-11.

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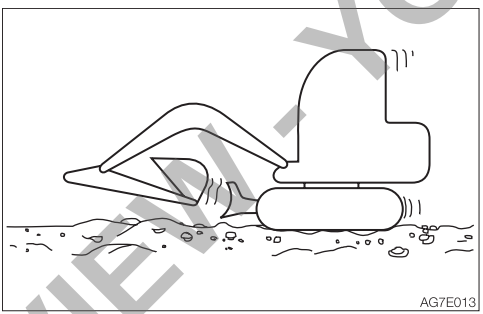
CAUTIONS ON OPERATING

Cautions on traveling



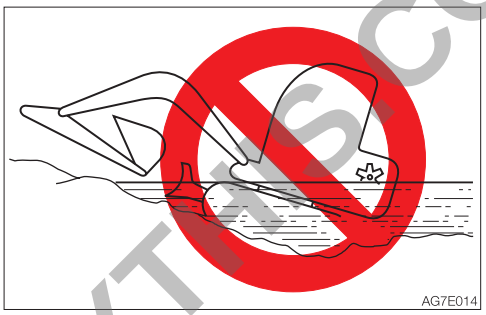
Traveling over obstacles (rocks, stumps, etc.) may put a great load on the machine body and may cause damage to it. Avoid crossing over obstacles whenever possible. If you must do so, keep the hoe attachment near the ground, travel at a low speed, and go over the obstacle at the center of the crawler.

Cautions on traveling in 2nd (High) speed

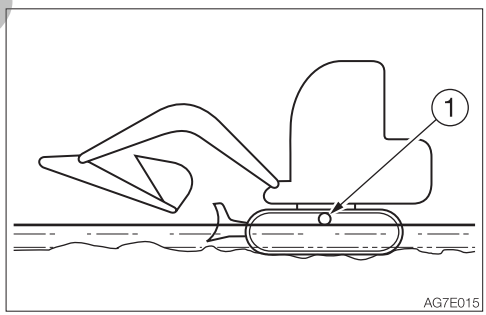


- On uneven ground, maintain the low speed and avoid starting, stopping or changing directions abruptly.
- When a load greater than a set value is applied during traveling in 2nd (high) speed, the speed will automatically slow down to 1st (low) speed. When the load becomes lighter, the speed will increase and return to 2nd (high) speed. It should be noted that the travel speed changes depending on the load condition (for machines with the automatic travel shift-down system).
- When traveling in 2nd speed, do so with the dozer blade at the front.

Cautions on using machine in water



If the rear of the machine is submerged in water as shown in the figure above, it causes the radiator fan to turn in water, resulting in damage to the fan. The rear of the machine must not be submerged.

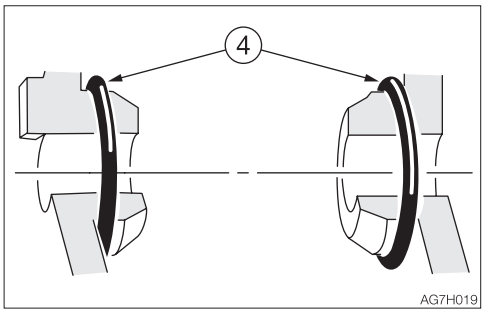


- Allowable water depth
  Use the machine in water only when the water is up to the bottom of the carrier roller (1).
- For those parts used in water for a long time, apply enough grease until the old grease is expelled.
- Never submerge the slew bearing or main body in water or sand. If submerged, contact a Takeuchi service agent for inspection.

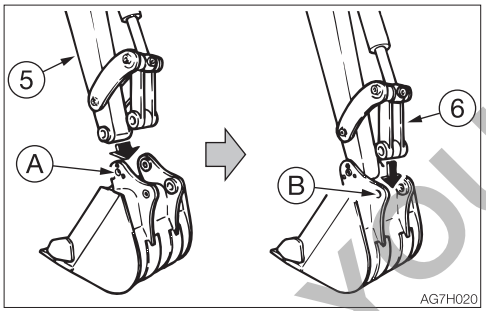
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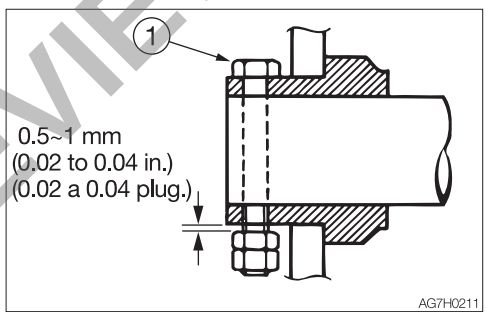
Installation



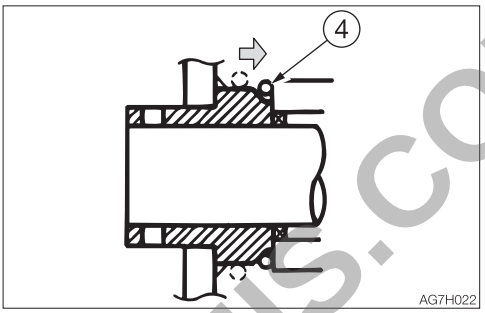
1. Set the O-ring (4) on the bucket as shown on the figure above.



2. Align the pin hole (A) on the bucket with the pin hole on the arm (5), and install the pin (2).
3. Operate the cylinder, align the pin hole (B) on the bucket with the pin hole on the link arm (6), and install the pin (2).

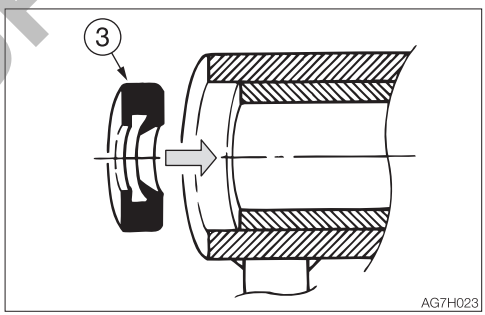


4. Align the turn prevention holes, and then install the bolt (1) and the nut. Be sure to leave a gap of about 0.5 to 1 mm (0.02 to 0.04 in.) between the nut and bucket bush, or the nut will come loose.



5. Adjust the gap between the bucket and the arm.
   Refer to “Adjusting the gap between the bucket and arm (If equipped)” on page 5-60.
6. Slide the O-ring (4).

Replacing the pin seal



1. Set the pin seal (3) in the direction shown on the figure above.
2. Use a mallet to slowly press the pin seal in. Be careful not to damage the seal.

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