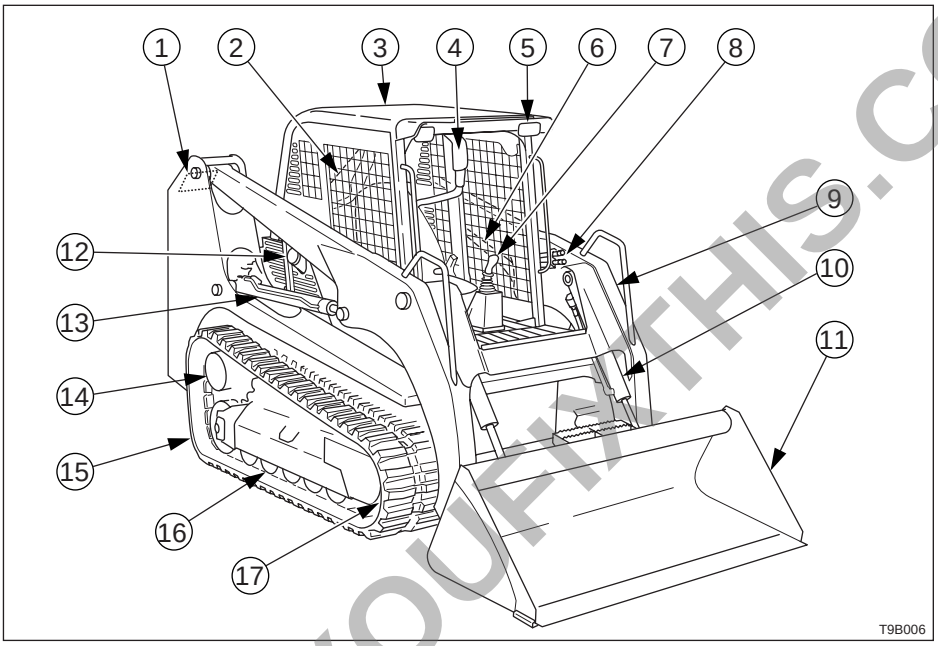


1. Tail light
2. Hydraulic tank
3. Canopy
4. Safety bar
5. Front light
6. Lift arm stop
7. Left control lever
8. Auxiliary hydraulic lines
9. Lift arm
10. Bucket cylinder
11. Bucket
12. Fuel filler cap
13. Arm cylinder
14. Travel motor
15. Crawler belt
16. Track roller
17. Idler

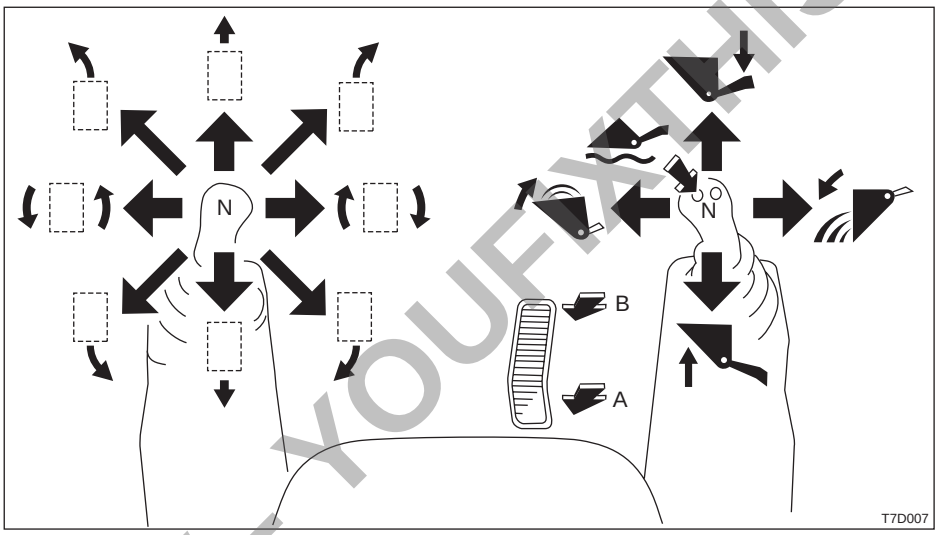
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Lever Pattern

⚠ WARNING

- **Be careful to check which pattern of lever control arrangement you are operating with before beginning operations.**
- **The explanations in this manual are for this pattern.**



	Crawler Forward		Lift Arm Lower
	Crawler Reverse		Lift Arm Raise
	Left Spin Turn		Bucket Rollback
	Right Spin Turn		Bucket Dump
	Left Pivot Turn		Lift Arm Float
	Right Pivot Turn	B	Hydraulic oil discharged from auxiliary port (b)
	Right Pivot Turn Reverse	A	Hydraulic oil discharged from auxiliary port (a)
	Left Pivot Turn Reverse	N	Neutral

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Lubricant and Fuel Chart

Use different lubricants, greases and fuels according to the temperature, referring to the chart below.

- Change the lubricant earlier than as shown in the table if it is extremely dirty or its performance has deteriorated severely.
- Whenever possible, use the same brand of lubricant as before. If changing with a different brand, replace the entire quantity – do not mix different brands.

Lubricants and greases

Part	Type	Type by temperature -22 -4 14 32 50 68 86 104°F -30 -20 -10 0 10 20 30 40°C	Replacement interval	Capacity Lit. (US. qt.)
Engine oil pan	Diesel engine oil API-CD	SAE 5W-30 SAE 10W-30 SAE 15W-40	After first 50 hrs. Every 250 hrs.	Upper limit TL120:7.4(7.8) TL130:10.2(10.8) TL140:9.6(10.1) TL150:14(14.8) Lower limit TL120:4(4.2) TL130:5.7(6.0) TL140:7.6(8.0) TL150:7(7.4)
Hydraulic tank	Diesel engine oil API-CD	SAE 10W-30	Every 1000 hrs.	System TL120:46 (12.2 US.gal.) TL130:60 (15.9 US.gal.) TL140:83 (21.9 US.gal.) TL150:95 (25.1 US.gal.) Tank TL120:29 (7.7 US.gal.) TL130:39 (10.2 US.gal.) TL140:52 (13.7 US.gal.) TL150:64 (16.9 US.gal.)
Engine cooling system	Coolant (water + coolant)**	50% coolant mixture 30% coolant mixture	Every 1000 hrs.	TL120:11 (11.6) TL130:10.9 (11.5) [16.9 (17.9)] TL140:15 (15.9) [16.2 (17.1)] TL150:15 (15.9) [18.3 (19.3)]
Travel reduction gear	Gear oil API-GL-4	SAE 90	After first 250 hrs.* Every 500 hrs.	TL120:1.0 (1.06) TL130:1.0 (1.06) TL140:2.2 (2.32) TL150:2.2 (2.32)
Working equipment	Lithium based grease EP-2 NLGI No.2	—	Daily or every 10 hrs.	As required
Levers and Pedal			When required	

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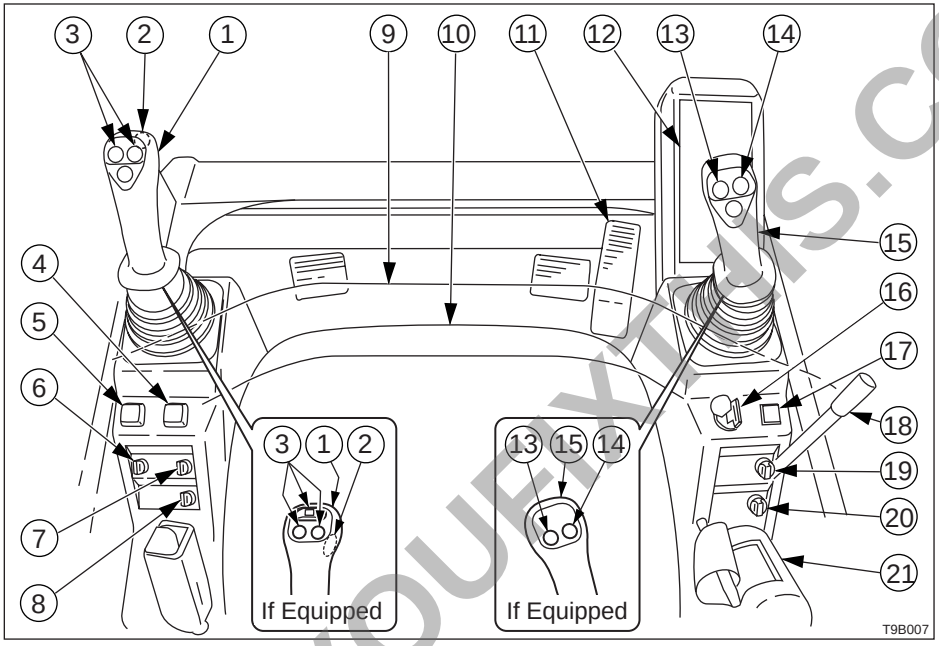
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TL120

TYPE			CANOPY	CAB
MASS				
Machine mass kg (lb.) (not including operator)	Rubber crawlers		2625 (5785)	2680 (5910)
PERFORMANCE				
Bucket capacity m^3 (cu.ft.) (standard bucket)	Heaped		0.298 (10.52)	
	Struck		0.223 (7.88)	
Travel speed km/h (mph)	Rubber crawlers	1st	6.5 (4.04)	
		2nd	9.3 (5.78)	
Gradeability (degrees)			30	
Ground pressure kPa (psi)	Rubber crawlers		31.8 (4.61)	32.5 (4.71)
Noise level <For EU> dB (A)	Sound-power level		L_{WA} 103	
	Sound-pressure level		L_{pA} 85	
ENGINE				
Manufacturer and model			Yanmar 4TNV84T-XTBL	
Rated output	kW / min^{-1} (hp / rpm)		38.5 / 2800 (51.6 / 2800)	
Displacement	ml (cu.in.)		1995 (121.7)	
Starter	V - kW		12 - 2.3	
Alternator	V - kW		12 - 0.48	
Battery	V - A·h		12 - 72	

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1. Left control lever
2. Travel speed switch
3. Auxiliary hydraulic switches
4. Detent mode switch (for auxiliary hydraulic switches)
5. Flow selector switch (2way → 1way)
6. Heater switch (option)
7. Front wiper switch (option)
8. Rear wiper switch (option)
9. Safety bar
10. Seat
11. Auxiliary pedal (If equipped)
12. Instrument panel
13. Float switch
14. Horn switch
15. Right control lever
16. Starter switch
17. High flow switch (option)
18. Throttle lever
19. Front light switch
20. Tail light switch
21. Seat belt

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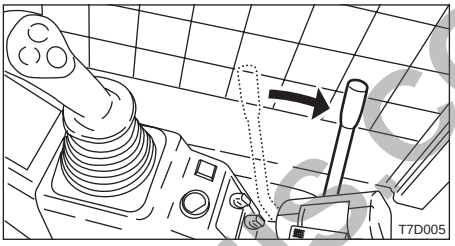
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Operating the Left Control Lever

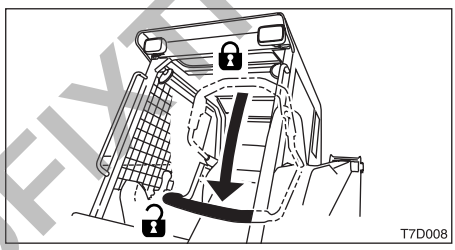
⚠ WARNING

- **Never allow anyone to enter the turning radius and machine path.**
- **Signal your intention to move by sounding the horn.**
- **Traveling and turning should be performed with the bucket cylinder fully retracted and the bucket at a height of approximately 30 cm (12 in.) from the ground.**
- **Avoid sudden stops, start or turns.**
- **Do not raise the safety bar while traveling. This is dangerous, since raising the safety bar will cause the parking brake of the traveling motor to operate and apply the brake abruptly.**
- **Do not switch off the starter switch while traveling. Doing so will cause sudden braking and is dangerous.**
- **Before backing up, visually check for safety to the rear. Backing up without checking could result in contact with a worker or obstacle.**
- **If unavoidable while traveling, when operating the working equipment, do so with care.**
- **Avoid crossing over obstacles whenever possible. If you must do so, keep the bucket close to the ground and travel slowly. Never cross obstacles if they will seriously tilt the machine (to an angle of 15° or greater).**
- **When traveling on rough terrain or when carrying a load, lower the load and travel slowly.**
- **Remove any obstacles in the machine's path.**

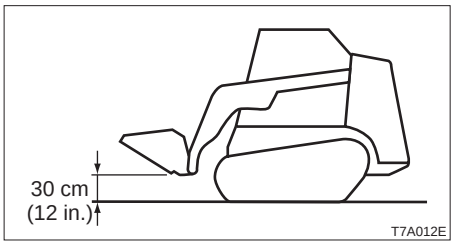
Use the left control lever to operate the crawler belts.
Return the left control lever to the neutral position to stop the crawler belts.



1. Increase the engine speed.



2. Set the safety bar to the released position.

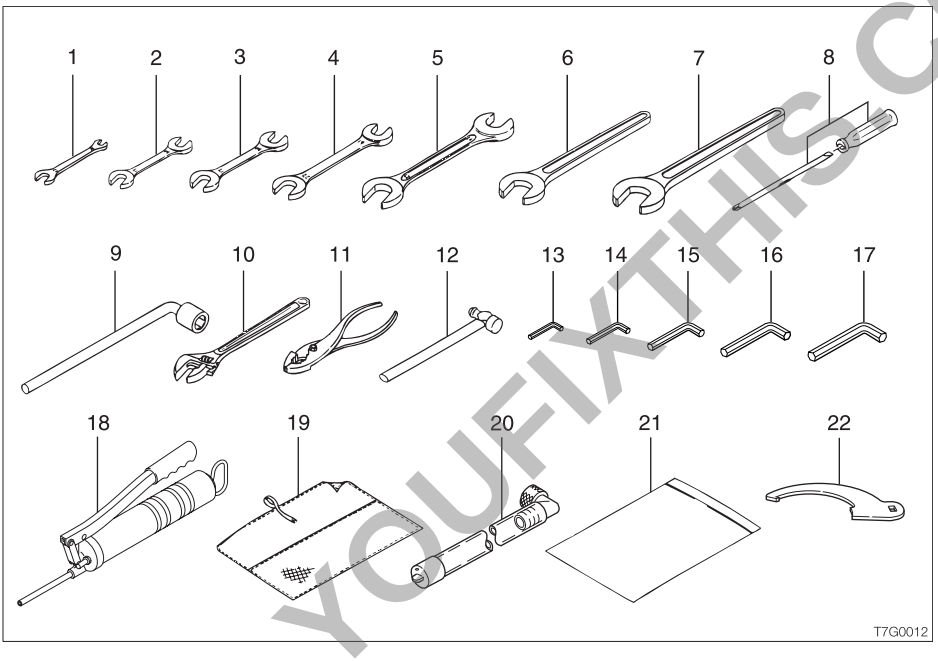


3. Rollback the bucket fully and lift the bucket to 30 cm (12 in.) above the ground.

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Tools (Except for USA)



No.	Part name	Part No.	Remarks
1	Spanner	16900-01012	10-12
2	Spanner	16900-01113	11-13
3	Spanner	16900-01417	14-17
4	Spanner	16900-01922	19-22
5	Spanner	16900-02427	24-27
6	Spanner	16901-00030	30
7	Spanner	16901-00041	41
8	Screwdriver	16902-20205	(+) (–)
9	L-type wrench	16908-30019	19
10	Monkey wrench	16904-00250	250mm
11	Pliers	16905-00200	200mm

No.	Part name	Part No.	Remarks
12	Hammer	16903-00330	3/4
13	Hex. wrench	16906-00500	5mm
14	Hex. wrench	16906-00600	6mm
15	Hex. wrench	16906-00800	8mm
16	Hex. wrench	16906-01000	10mm
17	Hex. wrench	16906-01400	14mm
18	Grease gun	16910-60600	600cc
19	Tool case	16914-00001	TL130/TL140/TL150
20	Drain connector	15545-12600 15545-12601	TL140 (OPT) TL120/TL130/TL150
21	Case	16919-00001	
22	Filter wrench	08819-20060	TL130/TL140/TL150

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TL130

TYPE			CANOPY	CAB
MASS				
Machine mass kg (lb.) (not including operator)	Rubber crawlers		3325 (7330)	3405 (7505)
PERFORMANCE				
Bucket capacity m^3 (cu.ft.) (standard bucket)	Heaped		0.351 (12.4)	
	Struck		0.260 (9.18)	
Travel speed km/h (mph)	Rubber crawlers	1st	7.1 (4.41)	
		2nd	10.1 (6.28)	
Gradeability (degrees)			30	
Ground pressure kPa (psi)	Rubber crawlers		33.3 (4.83)	34.1 (4.95)
Noise level <For EU> dB (A)	Sound-power level		L_{WA} 102*	
	Sound-pressure level		L_{pA} 85	
ENGINE				
Manufacturer and model			Yanmar 4TNV98-YTBL	
Rated output	kW / min^{-1} (hp / rpm)		49.2 / 2450 (66 / 2450)	
Displacement	ml (cu.in.)		3319 (202.5)	
Starter	V - kW		12 - 3.0	
Alternator	V - kW		12 - 0.48	
Battery	V - A·h		12 - 80	

* : Serial No. 21306717 ~

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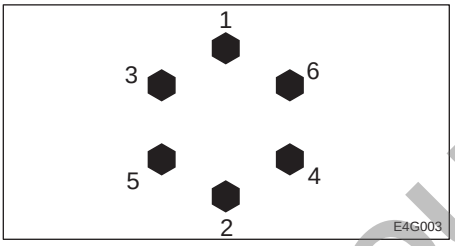
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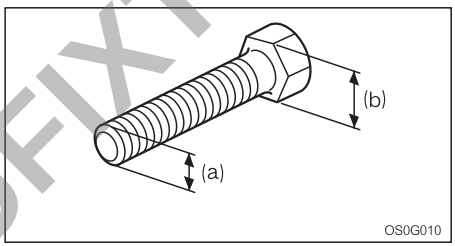
Tightening Torques

Nuts and Bolts (for ISO strength category 10.9)

Tighten nuts and bolts at the torques shown on the table below, unless otherwise specified in the text.

- Tightening torques when mounting plastic covers differ from the values on the table below. Consult a Takeuchi sales or service outlet. Tightening too strongly will break the cover.
- When replacing nuts and bolts, replace them with nuts and bolts of the same size and standards.
- Tighten nuts and bolts alternately (top, bottom, left then right) or in 2 or 3 times so that they are tightened uniformly.





Thread	Head width (b)	Size (a) X Pitch	Torque	
			General Connection Points	
	mm	mm	N·m	ft-lb
Coarse	10	M6 X 1.0	9.8 ± 0.5	7.2 ± 0.4
	12, 13	M8 X 1.25	22.6 ± 1.1	16.6 ± 0.8
	14, 17	M10 X 1.5	47.1 ± 2.4	34.7 ± 1.7
	17, 19	M12 X 1.75	83.4 ± 4.1	61.5 ± 3.0
	19, 22	M14 X 2.0	134.4 ± 6.7	99.1 ± 4.9
	22, 24	M16 X 2.0	207.9 ± 10.4	153.3 ± 7.7
	27, 30	M20 X 2.5	410.9 ± 20.5	303.1 ± 15.1
Fine	12, 13	M8 X 1.0	24.5 ± 1.2	18.1 ± 0.9
	14, 17	M10 X 1.25	50 ± 2.5	36.9 ± 1.8
	17, 19	M12 X 1.5	87.3 ± 4.3	64.4 ± 3.2
	19, 22	M14 X 1.5	135.3 ± 6.8	99.8 ± 5.0
	22, 24	M16 X 1.5	220.6 ± 11	162.7 ± 8.1
	27, 30	M20 X 1.5	452.1 ± 22.6	333.4 ± 16.6

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TL140

TYPE			CANOPY	CAB
MASS				
Machine mass kg (lb.) (not including operator)	Rubber crawlers		4275 (9425)	4355 (9600)
PERFORMANCE				
Bucket capacity m^3 (cu.ft.) (standard bucket)	Heaped		0.458 (16.17)	
	Struck		0.335 (11.8)	
Travel speed km/h (mph)	Rubber crawlers	1st	7.4 (4.6)	
		2nd	10.6 (6.59)	
Gradeability (degrees)			30	
Ground pressure kPa (psi)	Rubber crawlers		28.2 (4.1)	28.7 (4.17)
Noise level <For EU> dB (A)	Sound-power level		L_{WA} 104*	
	Sound-pressure level		L_{pA} 84	
ENGINE				
Manufacturer and model			ISUZU 4JG1T	
Rated output	kW / min^{-1} (hp / rpm)		60.3 / 2500 (80.9 / 2500)	
Displacement	ml (cu.in.)		3059 (186.7)	
Starter	V - kW		12 - 2.2	
Alternator	V - kW		12 - 0.6	
Battery	V - A·h		12 - 80	

* : Serial No. 21403609 ~

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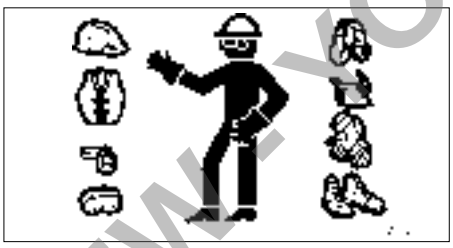
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Observe all safety rules

- 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.
- Use hearing protection when operating the machine. Loud prolonged noise can cause hearing impairments, even the total loss of hearing.

Wear appropriate clothing and personal protective equipment



- Do not wear loose clothing or any accessory that can catch on controls or in moving parts.
- Do not wear oily or fuel stained clothing that can catch fire.
- Wear a hard hat, safety shoes, safety glasses, filter mask, heavy gloves, ear protection and other protective equipment as required by job conditions. Wear required appropriate equipment such as safety glasses and filter mask when using grinders, hammers or compressed air, as metal fragments or other objects can fly and cause serious injury.

Provide a fire extinguisher and first aid kit



- Know where a fire extinguisher and first aid kit are located and understand how to use them.
- Know how to contact emergency assistance and first aid help.

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