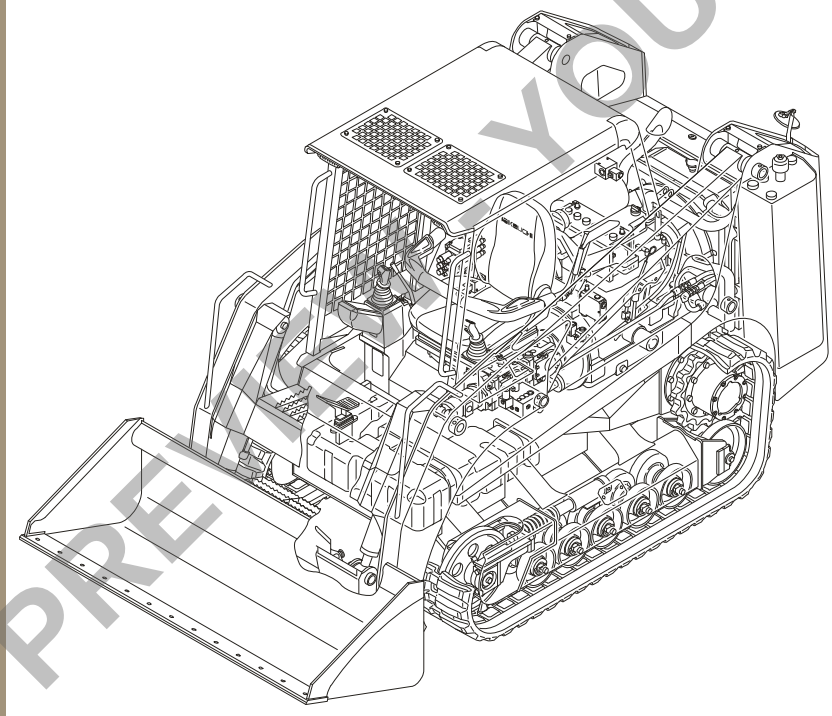
CTL60

GEHL®

Form No.
908310
Revison C
06/11

Compact Track Loader

Service Manual



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SAFETY PRECAUTIONS

SAFETY ALERT SYMBOL

This symbol means Attention! Be Alert! Your Safety Is Involved.
The message that follows the symbol contains important information about safety.
Read and understand the message to avoid personal injury or death.

■ SIGNAL WORDS

Safety messages appearing in this manual and on machine decals are identified by the words "DANGER", "WARNING" and "CAUTION". These signal words mean the following:

⚠ DANGER	⚠ WARNING	⚠ CAUTION
The word "DANGER" indicates an imminently hazardous situation which, if not avoided, can result in serious injury or death.	The word "WARNING" indicates a potentially hazardous situation which, if not avoided, could result in serious injury or death.	The word "CAUTION" indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

IMPORTANT: The word "IMPORTANT" is used to alert against operators and maintenance personnel about situations which can result in possible damage to the machine and its components.

This manual is intended for trained and qualified personnel only. Warnings or cautions described in this manual do not necessarily cover all safety measures. For maintenance work, each person must take adequate safety precautions against possible hazards present in the respective working environment.

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.

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.


E3A040

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

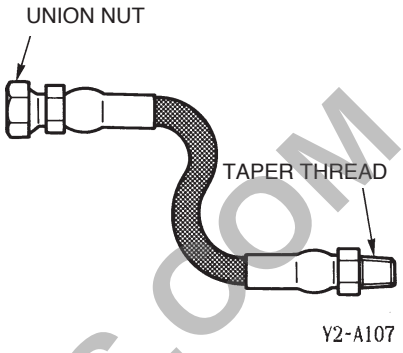
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TIGHTENING TORQUES

Hydraulic Hoses

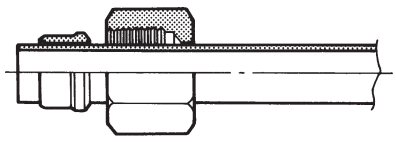
Hose Fitting Size	Torque			
	Union Nut (G)		Taper Thread (R)	
	N·m	ft-lb	N·m	ft-lb
1/8	9.8 $^{+4.9}_{0}$	7.3 $^{+3.5}_{0}$	11.8 ±1.2	8.7 ±0.8
1/4	24.5 $^{+4.9}_{0}$	18.1 $^{+3.5}_{0}$	29.4 ±2.9	21.7 ±2.1
3/8	49 $^{+4.9}_{0}$	36.2 $^{+3.5}_{0}$	53.9 ±5.4	39.8 ±3.9
1/2	58.8 $^{+4.9}_{0}$	43.4 $^{+3.5}_{0}$	88.3 ±8.8	65.1 ±6.4
3/4	117.7 $^{+4.9}_{0}$	86.8 $^{+3.5}_{0}$	147.1 ±14.7	108.5 ±10.7
1	137.3 $^{+4.9}_{0}$	101.3 $^{+3.5}_{0}$	196.1 ±19.6	144.7 ±14.3



Y2-A107

Bite Type Pipe Fitting for Steel Pipe

Pipe Outer Diameter (mm)	Torque	
	N·m	ft-lb
8	34.3 ±4.9	25.3 ±3.5
10	41.7 ±2.5	30.7 ±1.7
12	58.8 ±4.9	43.4 ±3.5
15	88.3 ±4.9	65.1 ±3.5
16	93.2 ±4.9	68.7 ±3.5
18	132.4 ±4.9	97.6 ±3.5
22	205.9 ±9.8	151.8 ±7.2
27.2	245.2 ±9.8	181.0 ±7.2
28	313.8 ±19.6	231.4 ±14.3
32	313.8 ±19.6	231.4 ±14.3
35	411.9 ±19.6	303.7 ±14.3


Y2-A108

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SPECIFICATION TABLES

SPECIFICATIONS

Serial Number		21300004~
Type		Canopy
Standard Bucket Capacity		
Rated Capacity	m^3	0.351
Struck Capacity	m^3	0.260
Machine Mass (not including operator)	kg	3325
Dimensions		
Overall Lenght: with bucket/without bucket	mm	3430/2740
Overall Width: with bucket/without bucket	mm	1675/1580
Overall Height	mm	2130* (2235**)
Minimum Ground Clearance	mm	310
Front Clearance Radius: with bucket/without bucket	mm	2080/1375
Rear Clearance Radius	mm	1590
Overall Width of Crawler	mm	1580
Bucket Width	mm	1675
Angle of Departure	degree	30
Working Range		
Maximum Lift Height to Bucket Pin	mm	3030
Maximum Dumping Height	mm	2370
Maximum Dump Angle Fully Raised	degree	39
Maximum Bucket Rollback at Ground Level	degree	30
Reach Fully Raised	mm	730
Performance		
Breakout Force	kN	29.9
Travel Speed 1 st/2 nd	km/h	7.3/10.4
Gradeability	degree	30
Ground Pressure	kPa	33.3
Tipping Load	kg	2100
Cycle Time		
Raise-Full Load (Lift Arm)	Sec.	4.2
Lower-No Load (Lift Arm)	Sec.	2.7
Dump-Full Load (Bucket)	Sec.	2.7
Curl-Full Load (Bucket)	Sec.	2.1

*: 21300004~2131098, 21302233~
**: 21301099~21302232

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RECOMMENDED LUBRICANTS

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

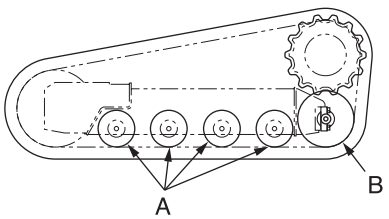
- Change the lubricant earlier than as show in the table if it is extremely dirty or its performance has deteriorated severely.
- Whenever possible, use the same brand of lubricant as before. If changing with a different brand, replace the entire quantity – do not mix different brands.

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
Engine oil pan	Diesel engine oil API service CD	SAE 5W-20 SAE 10W-30 SAE 15W-40	After first 50 hrs. Every 250 hrs.	Upper limit: 10.2 L Lower limit: 5.7 L
Hydlaulic tank	Diesel engine oil API service CD	SAE 10W-30	Every 1000 hrs.	Total system: 60 L Tank level: 39L
Fuel tank	Diesel fuel	Use a clean, Quality fuel for performance and optimum engine life. • To prevent fuel flow problems in cold weather, use diesel fuel with a pour point of at least -12°C (10°F) below the lowest expected ambient temperature. • Minimum cetane number is 45. Low temperature or high altitude operation may require the use of fuel with a higher cetane number.		Tank level: 75 L
Engine cooling system	Coolant (water**+Coolant***)	30% coolant mixture 50% coolant mixture	Every 1000 hours	10.9 L
Travel reduction gear	Gear oil API-GL-4	SAE 90	After first 500 hrs.* Every 1000 hrs.	1.1 L (TEIJIN) 1.0 L (DAIKIN)
Track Roller A	Diesel engine oil API service CD	SAE 30	—	180 mL
Track Roller B	Mobil gear SHC 680	——	—	140 mL
Idler	Diesel engine oil API service CD	SAE 30	—	120 mL
Working equipment	Lithium grease EP-2 NLGI No. 2	——	Daily or erery 10 hrs.	As required
Levers		——	When required	

* If the percentage of the traveling time within the total operating time is high, replace the gear oil earlier than the specified time.

** For water, use tap water (soft). Do not use well or river water.

*** When the ambient temperature drops below 0°C, add coolant (antifreeze). Follow the coolant manufacture's instructions to determine the mixture ratio.

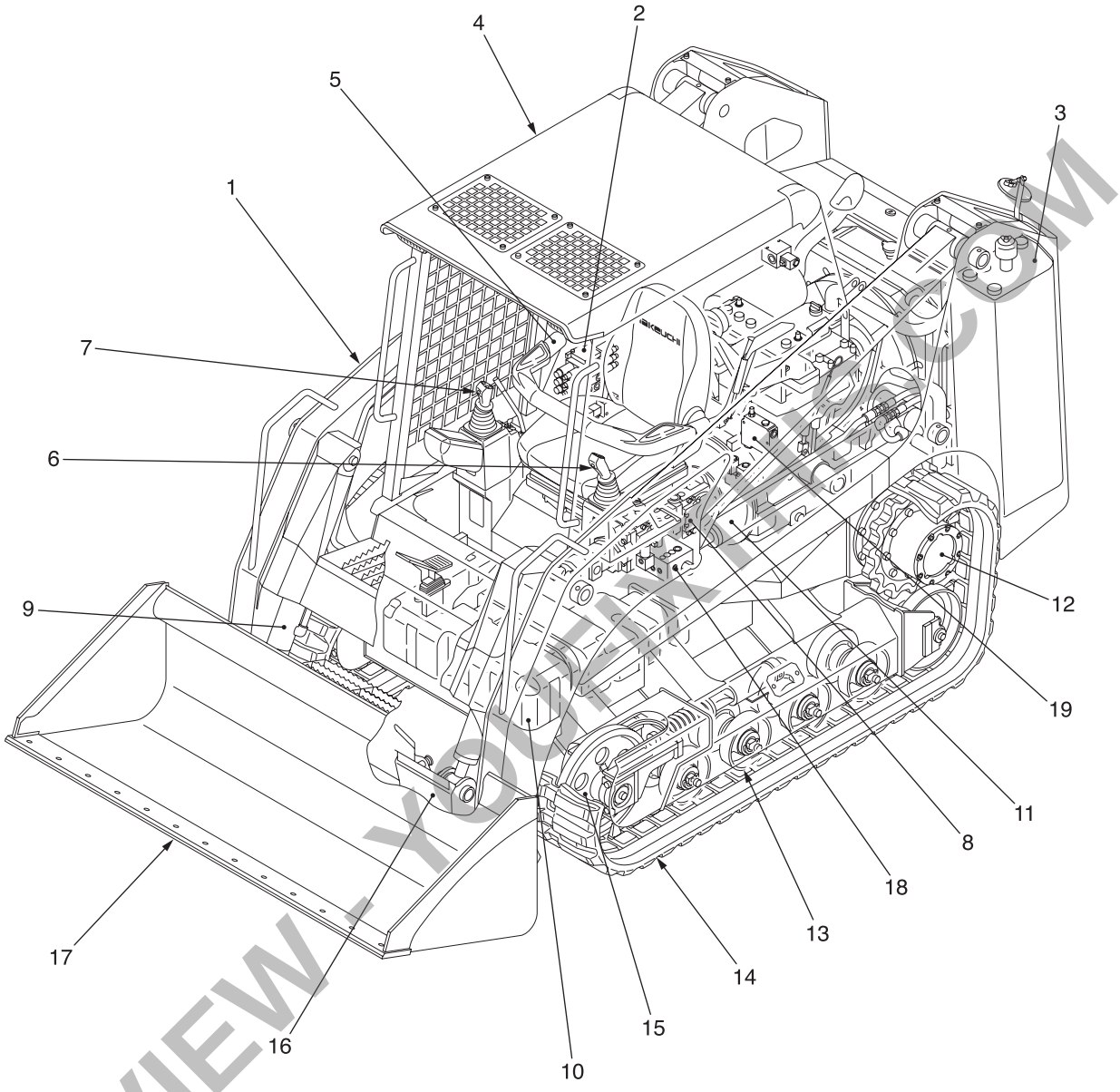


T8B002

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NAMES OF COMPONENTS



1. Lift Arm
2. Control Valve
3. Hydraulic Tank
4. Canopy
5. Safety Bar
6. Pilot Valve (L. H.)
7. Pilot Valve (R. H.)
8. HST Pump
9. Bucket Cylinder
10. Fuel Tank
11. Arm Cylinder
12. Travel Motor
13. Track Roller
14. Crawler Belt
15. Idler
16. Quick Attachment
17. Bucket
18. Control Valve (Sub)
19. Self -Level Valve

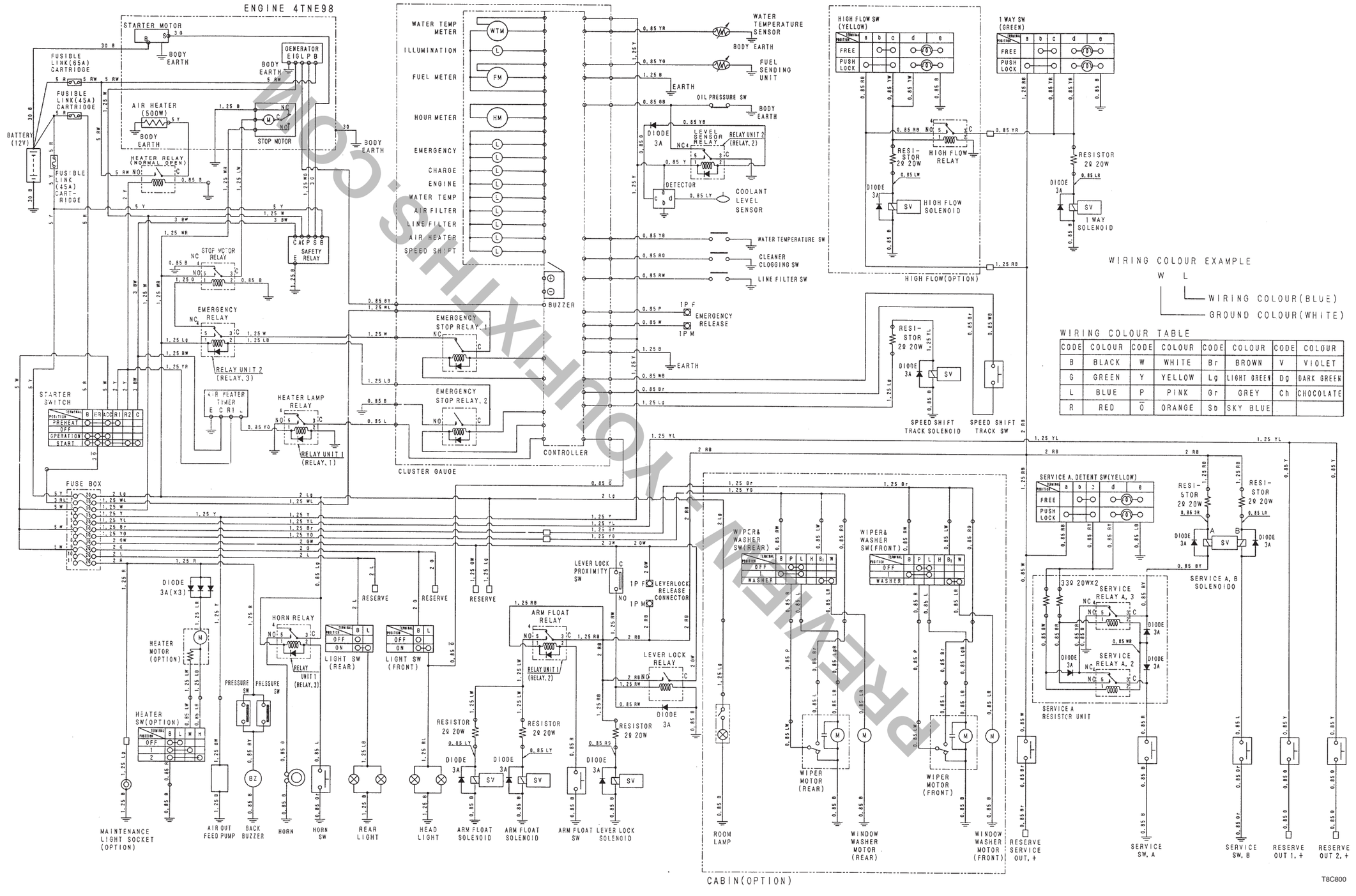
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ELECTRICAL SYSTEM

ELECTRICAL WIRING DIAGRAM

Serial No. 21300004~21301932



WIRING COLOUR EXAMPLE

W L
- WIRING COLOUR(BLUE)
- GROUND COLOUR(WHITE)

WIRING COLOUR TABLE

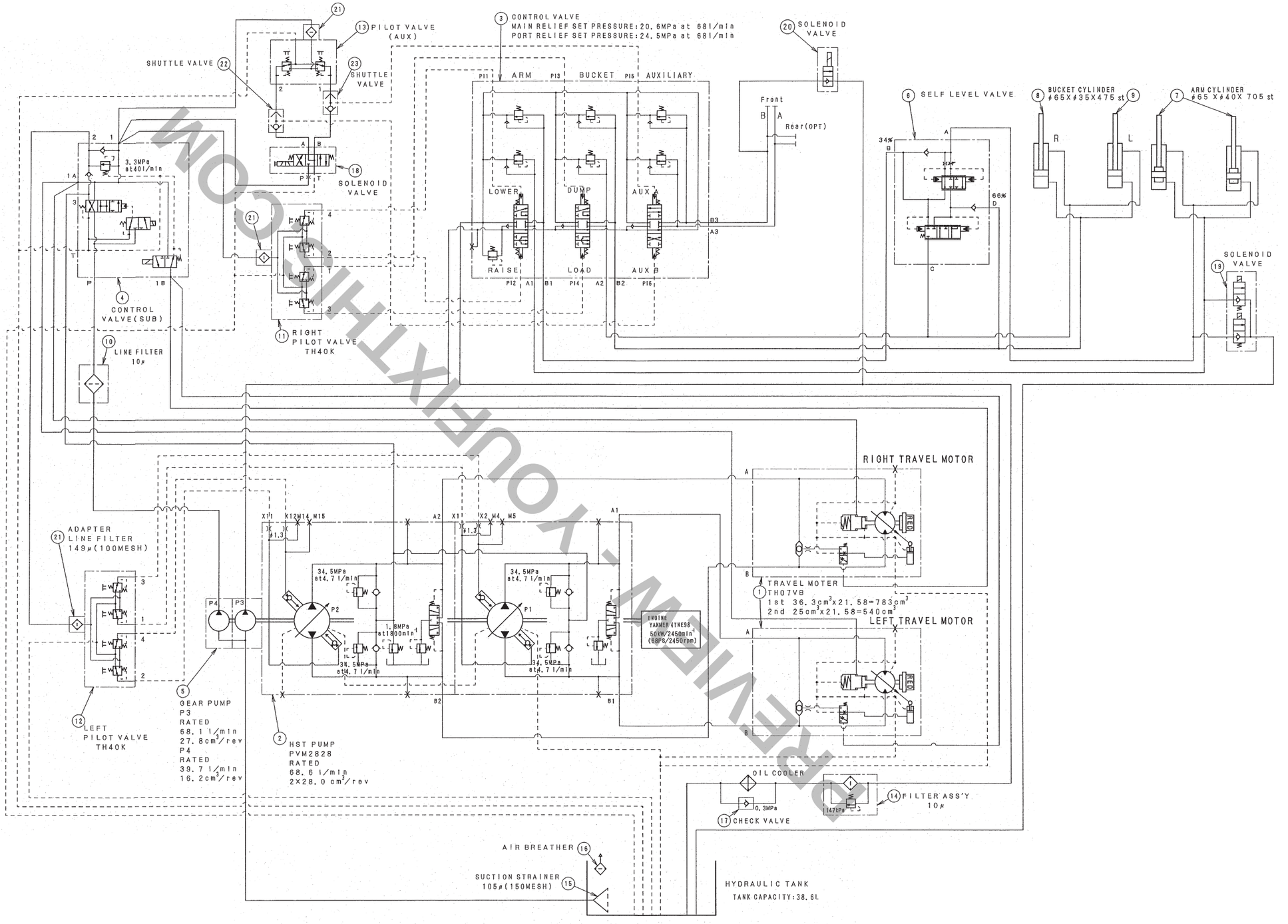
CODE	COLOUR	CODE	COLOUR	CODE	COLOUR	CODE	COLOUR
B	BLACK	W	WHITE	Br	BROWN	V	VIOLET
G	GREEN	Y	YELLOW	Lg	LIGHT GREEN	Dg	DARK GREEN
L	BLUE	P	PINK	Gr	GREY	Ch	CHOCOLATE
R	RED	O	ORANGE	Sb	SKY BLUE		

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HYDRAULIC SYSTEM

HYDRAULIC CIRCUIT DIAGRAM

Standard
Serial No. 21300004~21301932
Travel Motor (TEIJIN)

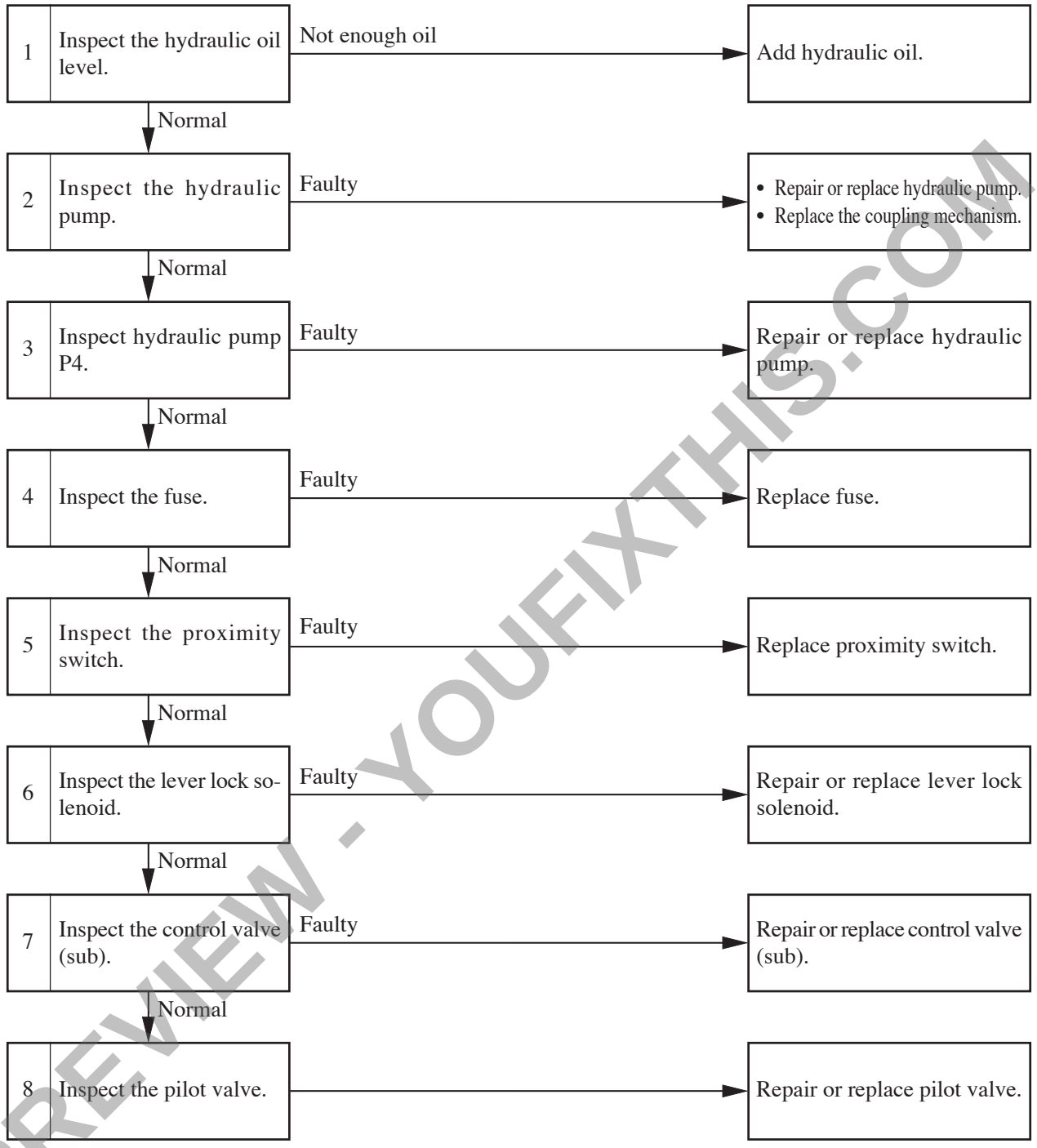


TL 130 HYDRAULIC CIRCUIT DIAGRAM

T8C7001

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COMPLETE FAILURE OF ALL SYSTEMS.



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FOREWORD

This manual is intended for persons who engage in maintenance operations, and explains procedures for disassembly and reassembly of the machine, check and maintenance procedures, maintenance reference values, troubleshooting and outline specifications, etc. Please use this manual as a reference in service activities to improve maintenance techniques.
Further, please be advised that items contained in this manual are subject to change without notice due to design modifications, etc.

MACHINE FRONT AND REAR, LEFT AND RIGHT

The end where the bucket is mounted is the front and the end with the travel motors is the rear. Also the right and left sides of the operator when he is seated in the driver's seat are the right and left sides of the machine.

MACHINE SERIAL NUMBER

The machine serial number is stamped on the identification plate. When sending reports and inquiries, and when ordering parts, etc., be sure to include this number.

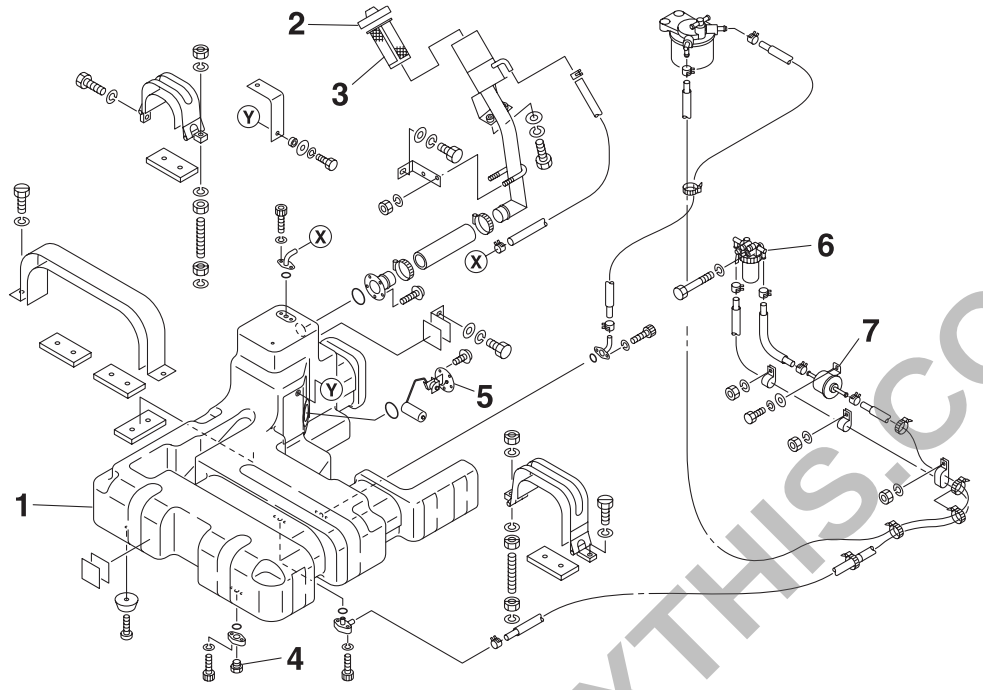
MANUAL CONTROL

Information on those to whom this manual is distributed is recorded in the ledger in the section in charge at this company, so please decide on a person to be in charge of it and control it. When there are updates or additions, etc., we will notify the person in charge.

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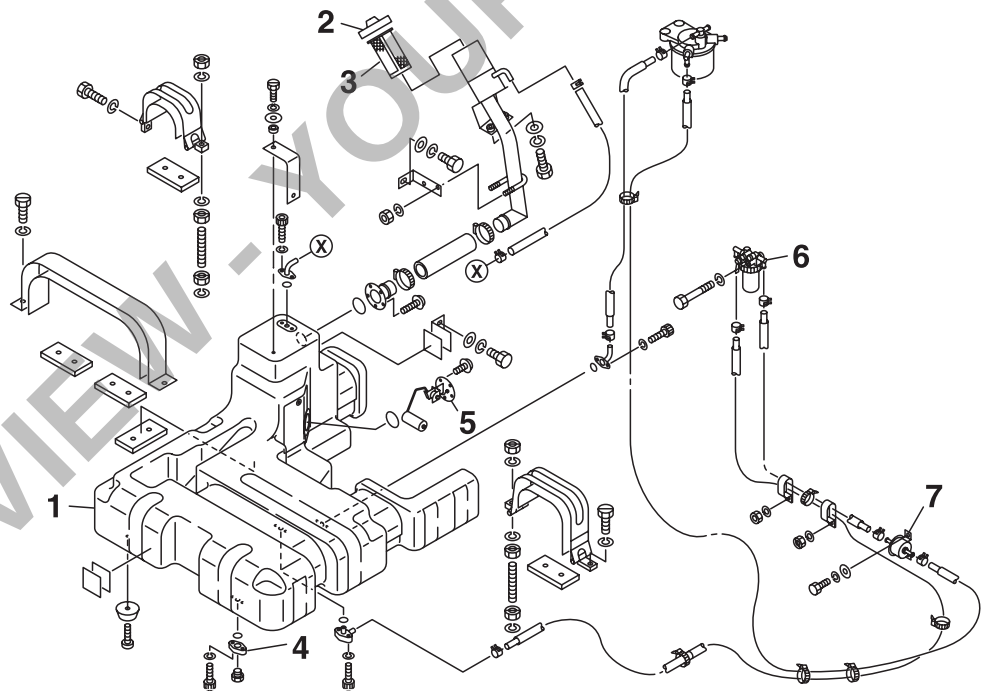
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Serial No. 21301933~



T8C164

High Flow



T8C165

1. Fuel Tank
2. Cap
3. Strainer
4. Drain Plug
5. Fuel Sender
6. Water Separator
7. Feed Pump

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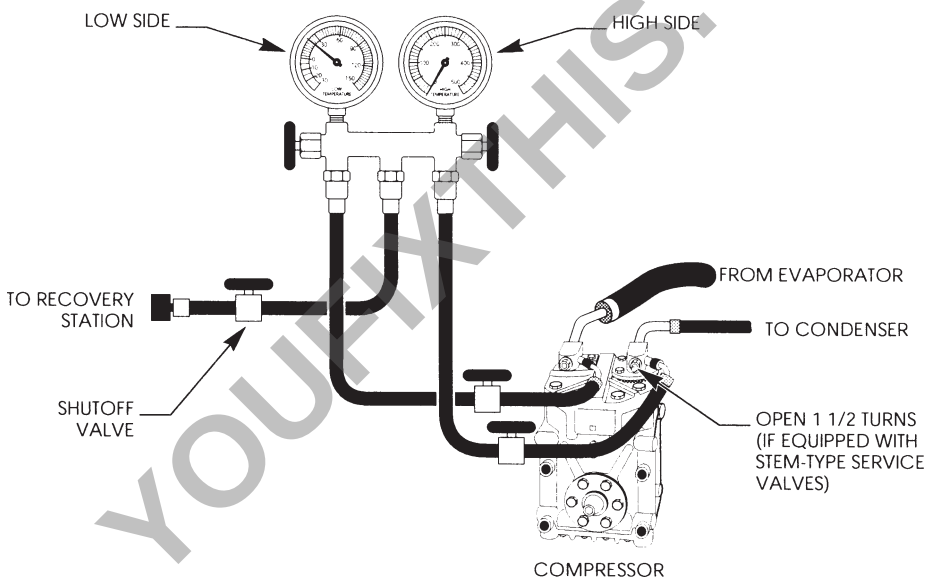
1. Purging Air From Gauge Set Hoses

Environmental regulations require that all service hoses have a shutoff valve within 12 inches of the service end. These valves are required to ensure only a minimal amount of refrigerant is lost to the atmosphere. R-12 gauge set hoses have a valve near the end of all three hoses. R-134a gauge sets have a combination quick disconnect and shutoff valve on the high and low sides. The utility (center) hose also requires a valve.

The initial purging is best accomplished when connected to recovery or recycle equipment. Figure 8-3 illustrates the gauge set connections for purging and refrigeration recovery.

Figure 8-3

The purging setup for manifold gauge set and compressor service valves are shown here.



Note: The manifold gauges read system pressure when the hand valves are closed if the hose end valves, and the stem type service valves (if included) are open.

2. Adding Refrigerant to the System

Now that the gauges are connected, you may need to add some refrigerant to the AC system before you can do an effective performance inspection. However, if leaks are obvious they should be repaired prior to adding refrigerant.

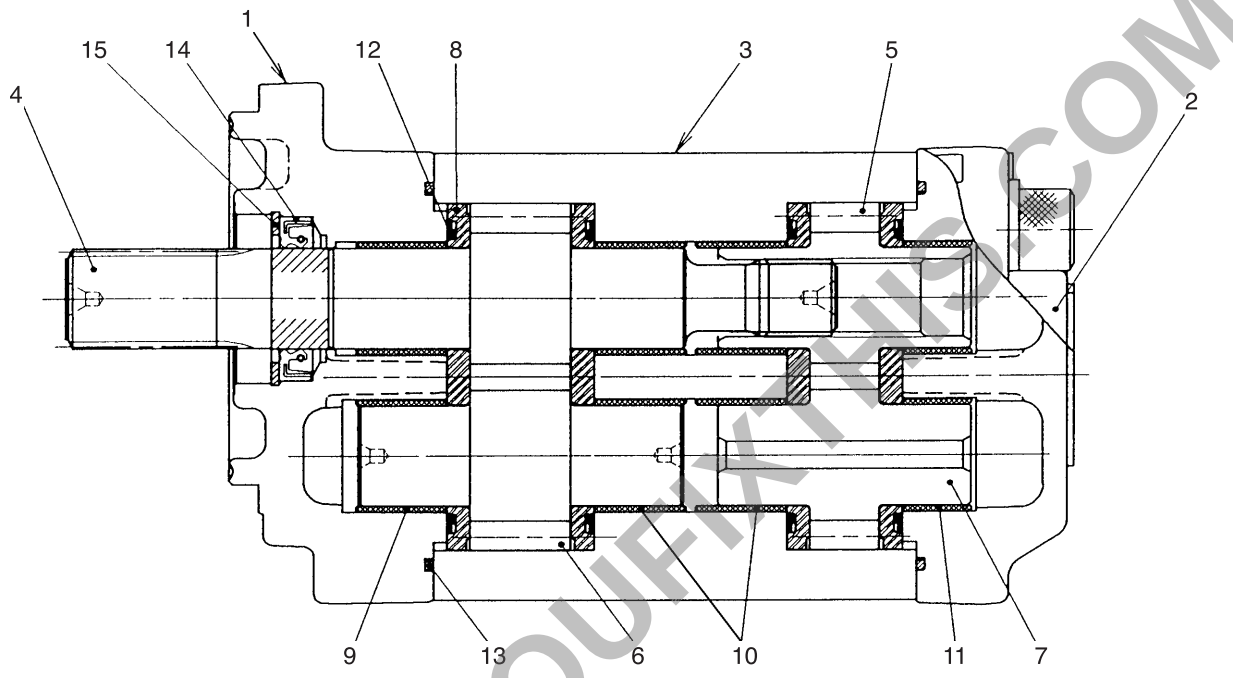
Note: Loss of some refrigerant is not unusual over an extended period of time. Adding refrigerant is a typical procedure when the AC system is maintained on a regular basis.

When adding refrigerant to the system, connect the center hose from the manifold gauge set to the refrigerant dispensing valve on the container. Figure 8-4 illustrates this connection.

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GEAR PUMP

CONSTRUCTION

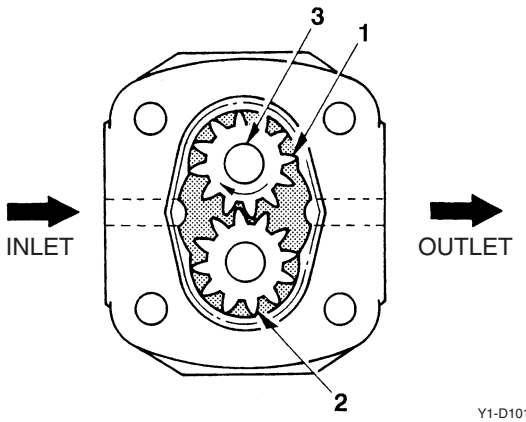


T8D150

1. Flange
2. Rear Cover
3. Housing
4. Drive Gear
5. Drive Gear
6. Driven Gear
7. Driven Gear
8. Bushing
9. Bushing
10. Bushing
11. Bushing
12. Gasket
13. Gasket
14. Oil Seal
15. Snap Ring

Gear Pump

The gear pump consists of a single gear case, inside of which is a drive gear (1) and a driven gear (2) engaged with each other. By turning the drive shaft (3), the space between the case and the gears is filled with oil. This oil is thus sent through the pump from the inlet to the outlet.

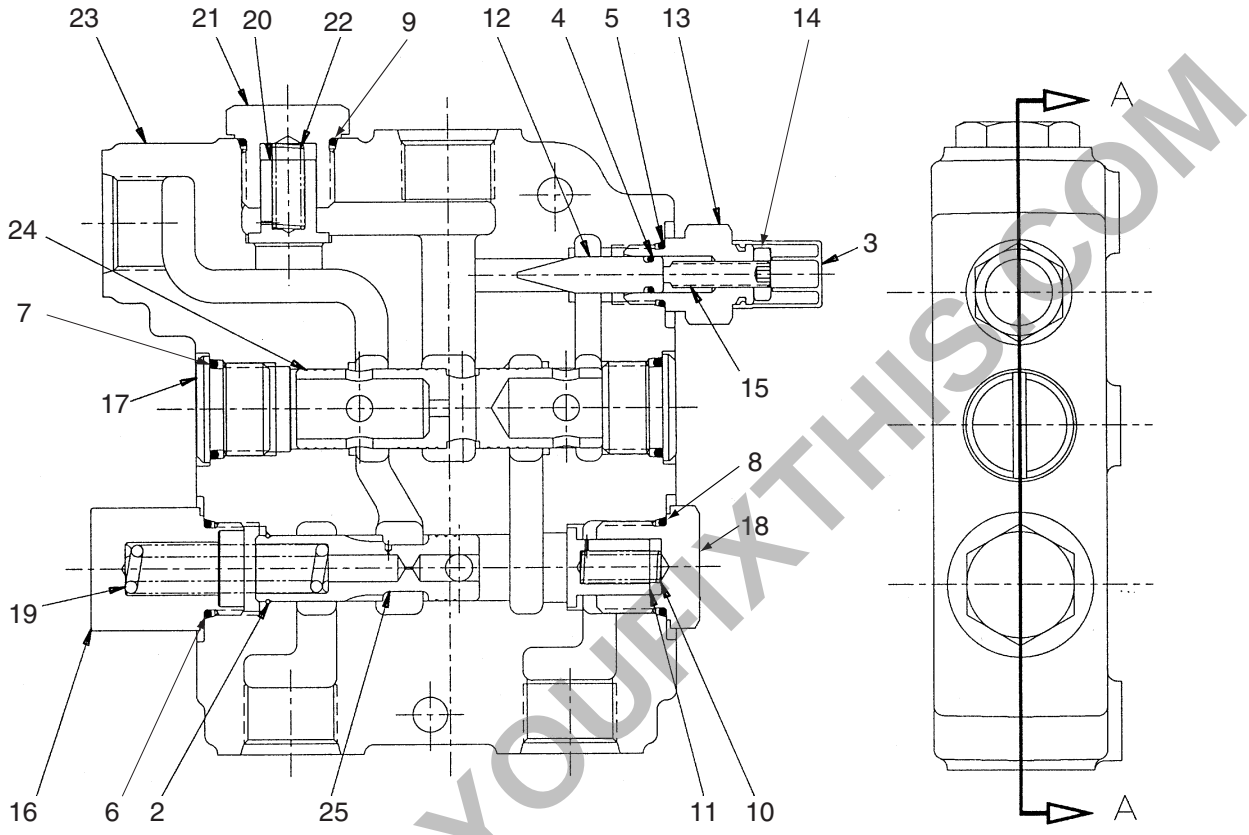


Y1-D101E

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SELF-LEVEL VALVE (Serial No. 21300004~21301932)

CONSTRUCTION



SECTION "A-A"

T7D950E

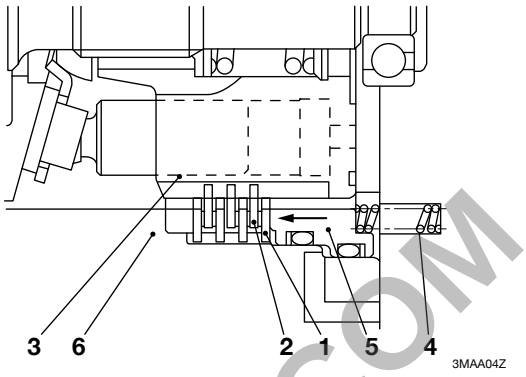
1. Valve Assembly
2. Ring
3. Cover
4. O-ring
5. O-ring
6. O-ring
7. O-ring
8. O-ring
9. O-ring
10. Spring
11. Plunger
12. Pin
13. Cap
14. Nut
15. Set Screw
16. Plug
17. Plug
18. Plug
19. Spring
20. Plunger
21. Plug
22. Spring
23. Housing
24. Spool
25. Spool

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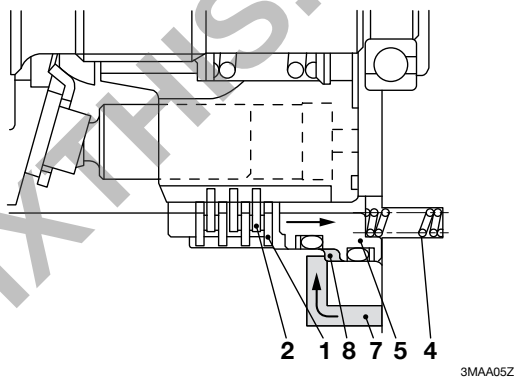
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Parking brake

The friction disc (2) and the disc (1) are connected through the spline. The friction disc (2) and the disc (1) are pressed against the flange holder (6) by the springs (4) via the brake piston (5). The friction force between these discs generates the brake torque to prevent the cylinder block (3) from rotating.

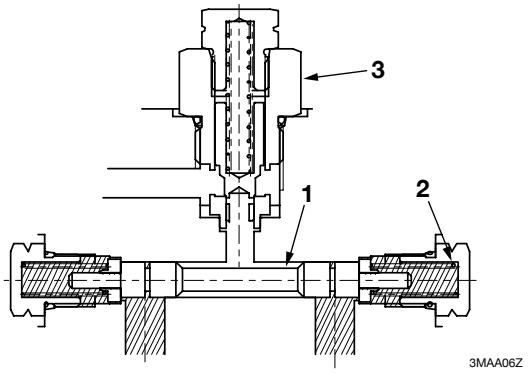


When the pressure oil is introduced into the motor, the oil flows from the parking brake release port (7) into the brake piston chamber (8). The oil pressure overpowers the spring force and moves the brake piston (5) to the right. This generates a clearance between the friction disc (2) and the disc (1) to release the parking brake function.
Once the motor stops, no pressure oil flows into the parking brake release port (7) and the parking brake force is operated by the spring (4).

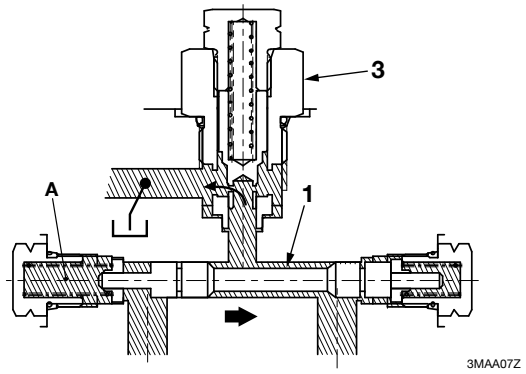


Flushing valve

This valve is used to replace the oil in the closed circuit with new oil to prevent the oil temperature from increasing and to remove contaminants from the circuit.
When the machine is stopped, no pressure is generated in the motor port and thus the plunger (1) is held at the neutral position by the spring (2).
At this time, the oil passage to the low-pressure relief valve (3) is blocked.



When traveling, if the pressure oil from the pump flows in the motor pump, the oil enters the chamber A.
When the pressure of the chamber A becomes higher than the set value, the plunger (1) moves to the left to open the passage to the relief valve (3).
When the oil in the motor port becomes higher than the set value for the low-pressure relief valve (3), part of the oil in the closed circuit returns to the tank from the low-pressure relief valve (3).
When this occurs, the oil in the closed circuit becomes insufficient, and thus the new oil is supplied to the closed circuit from the charge pump to replenish the oil that has returned to the tank. Therefore, the oil in the closed circuit is continuously replaced with new oil.



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VI. ENGINE

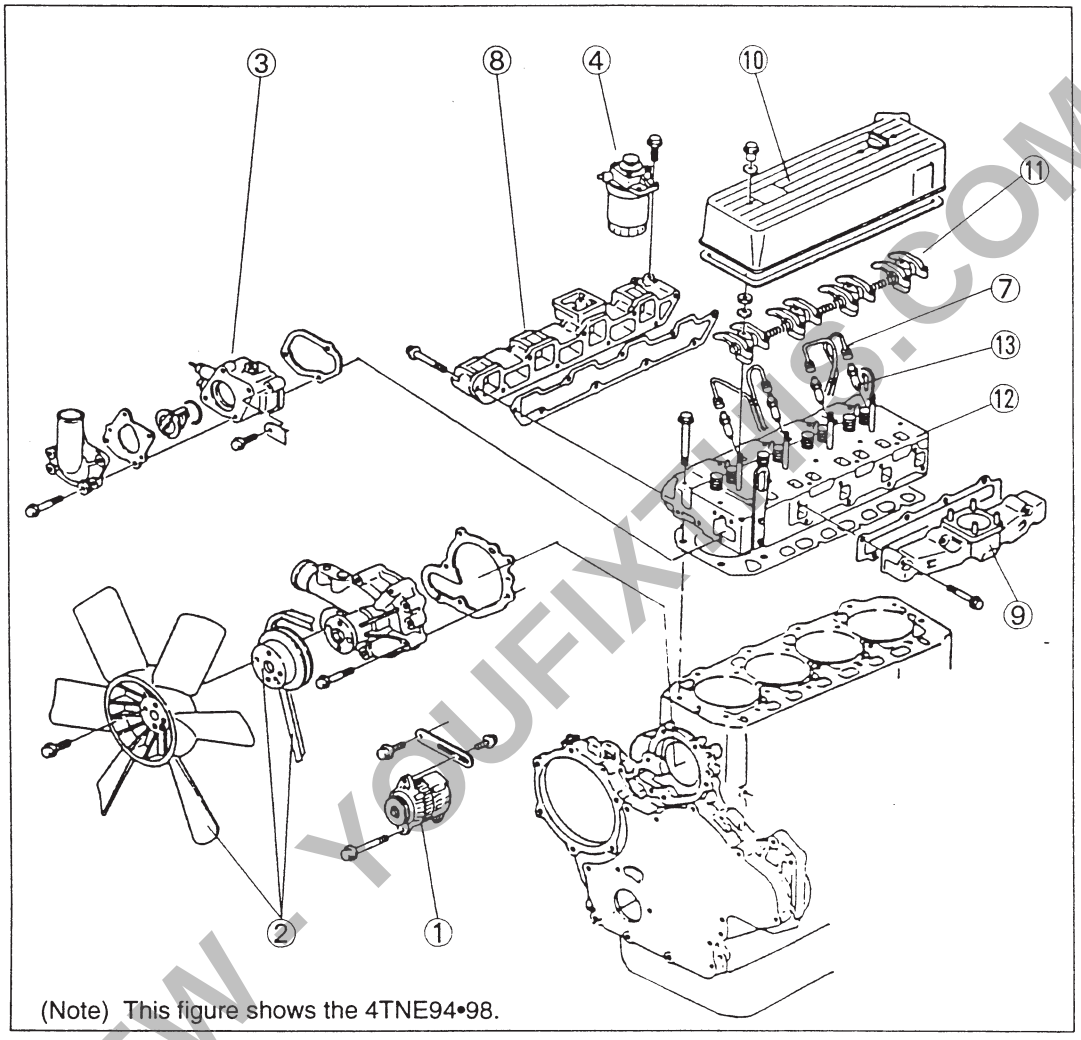
Machine Model	Machine Serial No.	Mounted Engine
TL130	21300004~21301932	4TNE98
	21301933~	4TNV98

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4.2 Cylinder Head

(1) Components



(Note) This figure shows the 4TNE94•98.

(2) Disassembly procedure:

Disassemble in the order of the numbers shown in the illustration.

① Remove the alternator assy. ***(Point 1)***
② Remove the fan, pulley and V belt.
③ Remove the thermostat case. ***(Point 2)***
④ Remove the fuel filter and fuel oil piping. ***(Point 3)***
⑤ Remove the oil level gage assy.
⑥ Remove the oil filter. ***(Point 4)***
⑦ Remove the fuel injection pipes. ***(Point 5)***
⑧ Remove the intake manifold assy.
⑨ Remove the exhaust manifold assy.
⑩ Remove the bonnet Assy.
⑪ Remove the rocker shaft assy, push rods and valve caps. (***Point 6)***
⑫ Remove the cylinder head assy and head gasket. ***(Point 7)***
⑬ Remove the fuel injection valves and fuel return pipe. (***Point 8)***
⑭ Remove the intake/exhaust valves, stem seals and valve springs. (***Point 9)***
⑮ Remove the rocker arms from the rocker shaft.

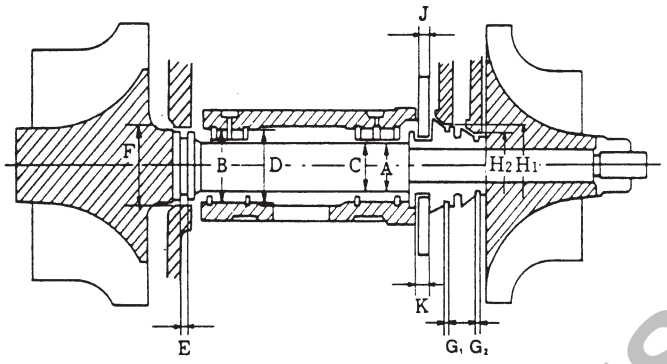
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8.2 Service Standards

(1) Service standards



Unit ; mm

		Standard dimension	Wear limit
Turbine shaft	Turbine shaft journal outside diameter (A)	7.99 to 8.00	7.98
	Turbine shaft seal ring groove width (E)	1.25 to 1.28	1.29
	Compressor side seal ring groove width (G_1)	1.22 to 1.23	1.31
	Compessor side seal ring groove width (G_2)	1.02 to 1.03	1.11
	Turbine shaft runout	0.002	0.011
Bearing	Journal bearing inside diameter (C)	8.01 to 8.03	8.04
	Journal bearing ouside diameter (D)	12.32 to 12.33	12.31
	Bearing housing inside diameter (B)	12.40 to 12.41	12.42
Thrust bearing	Thrust bearing width (J)	3.99 to 4.01	3.98
	Thrust bushing groove dimension (K)	4.04 to 4.05	4.07
Seal ring fixing area	Turbine side (bearing housing) (F)	15.00 to 15.02	15.05
	Compressor side (seal ring) (H_1)	12.40 to 12.42	12.45
	Compressor side (seal ring) (H_2)	10.00 to 10.02	10.05
Rotor play in axial direction		0.03 to 0.06	0.09
Rotor play in radial direction		0.08 to 0.13	0.17

(2) Tightening torque

Part	Thread diameter	Tightening torque	
		kgf•cm	N•m
Turbine housing set bolt	M8	285±10	28±1
Compressor housing set bolt	M5	48±5	4.7±0.5
Thrust bearing set screw	M3	13±1	1.3±0.1
Seal plate set screw	M3	13±1	1.3±0.1
Blower impeller set nut (left-handed screw)	M5	20±2	2.0±0.2

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10.1.4 Parts names and disassembly procedure

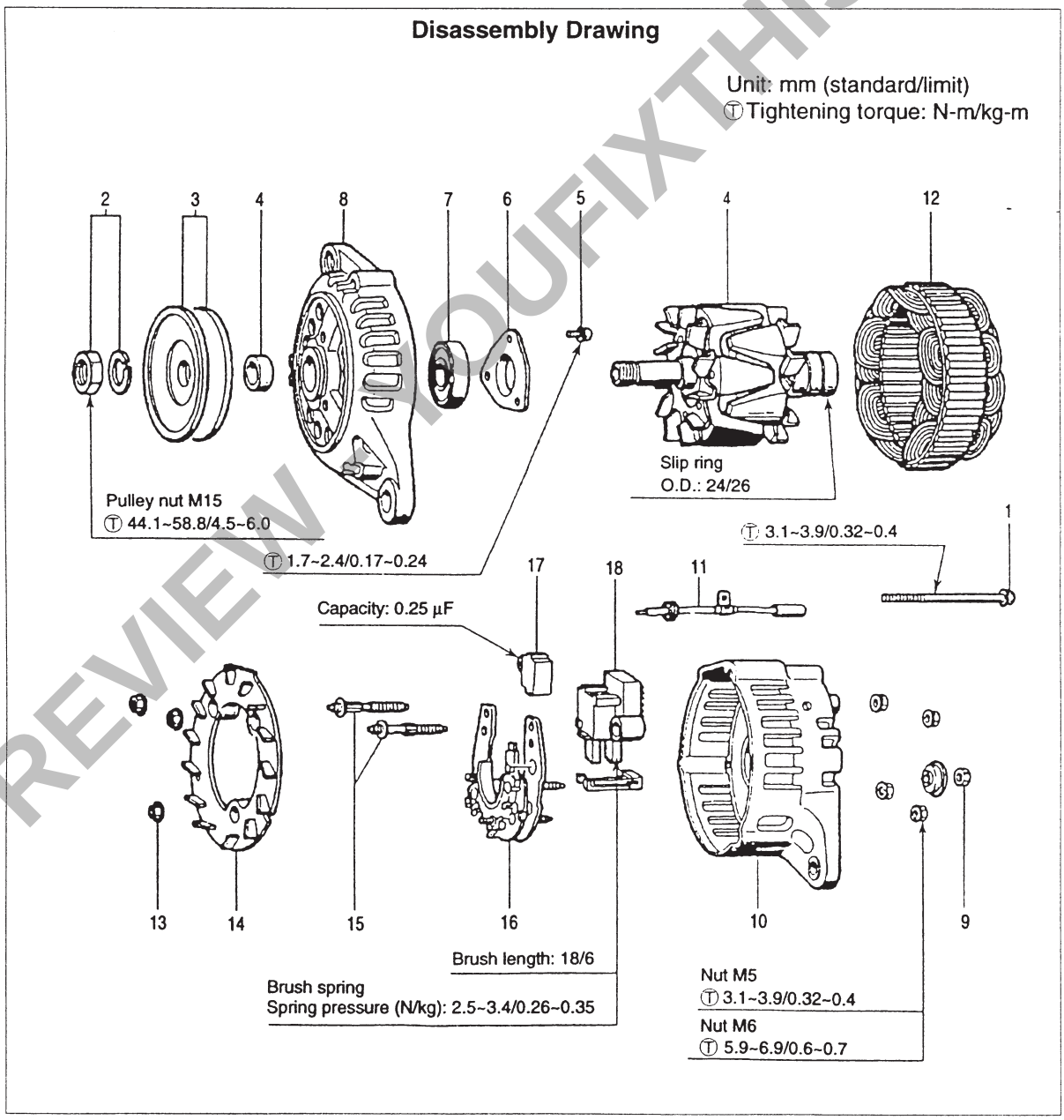
Disassembly Procedure

△ (1) Through bolt M5
(2) Pulley nut
(3) Pulley assembly
△ (4) Rotor
(5) Screw M5
(6) Bearing retainer
(7) Ball bearing
△ (8) Front cover
(9) Nuts M5 and M6
(10) Rear cover

△ : Refer to the disassembly drawing.

△ (11) Lead wire assembly
△ (12) Stator
(13) Nut M4
△ (14) Fan guide
(Disassembly hereafter is unnecessary if the diode is faulty.)
△ (15) Battery terminal, bolt M5
(16) Diode
(17) Capacitor
△ (18) Brush regulator assembly

Disassembly Drawing



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(2) 3TNV84

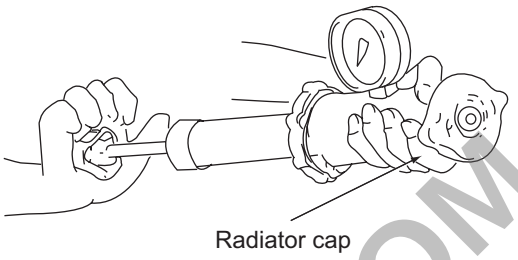
Engine name		Unit	3TNV84								
Engine specification class		-	CL		VM						
Type		-	Vertical, in-line, 4-cycle, water-cooled diesel engine								
Combustion chamber		-	Direct injection								
Number of cylinders		-	3								
Cylinder bore × stroke		mm × mm	84 × 90								
Displacement		L	1.496								
Continuous rating	Revolving speed	Min^{-1}	1500	1800	-						
	Output	kW (ps)	11.3 (15.3)	13.5 (18.3)	-						
Rated output	Revolving speed	Min^{-1}	1500	1800	2000	2200	2400	2500	2600	2800	3000
	Output	kW (ps)	12.4 (16.8)	14.8 (20.1)	16.4 (22.3)	18.1 (24.6)	19.7 (26.8)	20.5 (27.9)	21.3 (29.0)	23.0 (31.3)	24.6 (33.5)
Max. no-load speed (± 25)		min^{-1}	1600	1895	2180	2400	2590	2690	2810	2995	3210
Ignition order		-	1-3-2-1 (No.1 cylinder on flywheel side)								
Power take off		-	Flywheel								
Direction of rotation		-	Counterclockwise (viewed from flywheel)								
Cooling system		-	Radiator								
Lubrication system		-	Forced lubrication with trochoid pump								
Starting system		-	Electric								
Applicable fuel		-	Diesel oil-ISO 8217 DMA, BS 2869 A1 or A2 (Cetane No.45 min.)								
Applicable lubricant		-	API grade class CD								
Lubricant capacity (oil pan) *	Total	L	6.7								
	Effective	L	2.8								
Cooling water capacity (engine only)		L	2.0								
Engine dimensions ** * (with flywheel housing)	Overall length	mm	589		564						
	Overall width	mm	486								
	Overall height	mm	622								
Engine mass (dry) *,** (with flywheel housing)		kg	161		155						
Cooling fan (std.) *		mm	335 mm O/D, 6 blades pusher type F								
Crankshaft V pulley diameter & Fun V pulley diameter (std.) *		mm	120 × 90		110 × 110						

* Items marked * may differ from the above depending on an engine installed on a machine unit.
** Engine mass and dimensions without radiator

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2.6 Radiator cap inspection

Install the radiator cap on the cap tester. Set the tester pressure to 0.09 ± 0.015 MPa (0.9 ± 0.15 kgf/cm^2) and see that the cap is opened. If the cap does not open, replace the cap since it is abnormal.



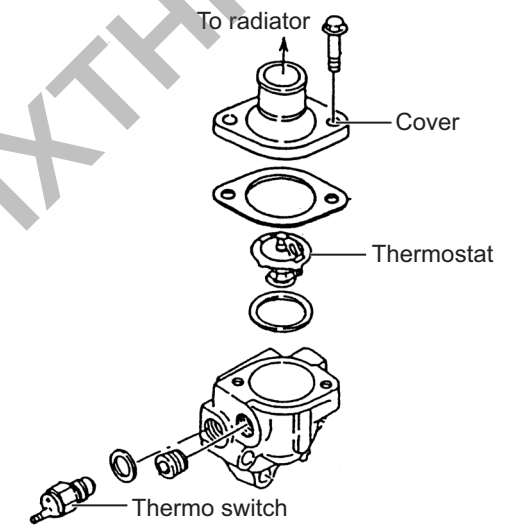
Radiator cap inspection

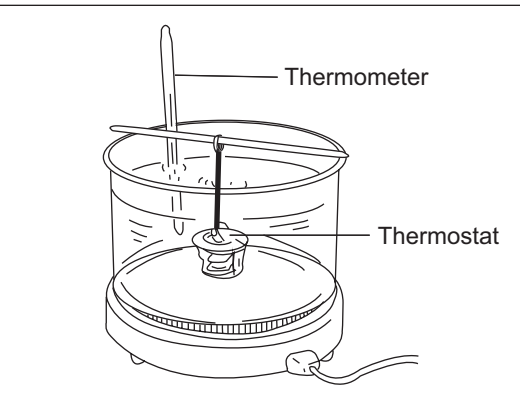
2.7 Thermostat Inspection

Place the thermostat in a container filled with water. Heat it while measuring the water temperature, and see that the thermostat is actuated at temperature of following table.

Model	Valve opening Temperature (deg C)*	Full open lift (Temperature) (mm)
All models	69.5 to 72.5	8 or more (85 deg C)

* Valve opening temperature is carved on the flange.





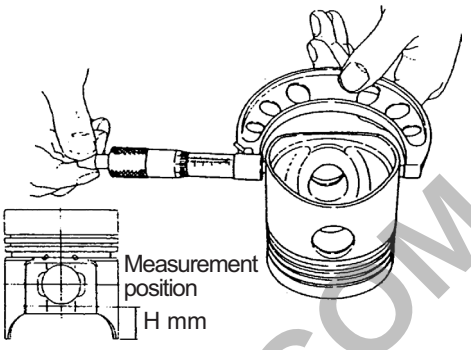
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(4) Piston

Especially clean the combustion surface, circumference, ring grooves and piston pin bosses, and check after removing any carbon deposit. Any burr at a ring groove or snap ring groove shall be removed. If crack is suspected, inspect by color check.

(a)Piston outside diameter measurement

Measure the long diameter at H mm from the bottom end of the piston of the oval hole in the vertical direction to the piston pin hole.



Piston outside diameter

Piston outside diameter

mm

Model	Outside diameter Standard	Limit	Clearance between piston and cylinder	Measurement position (H)
3TNV82A	81.950 to 81.980	81.905	0.040 to 0.060	16
3,4TNV84(T)	83.940 to 83.970	83.895	0.050 to 0.070	24
3,4TNV88	87.940 to 87.970	87.895		24
4TNV94L	93.935 to 93.965	93.900	0.055 to 0.075	22
4TNV98 (T)	97.930 to 97.960	97.895	0.060 to 0.080	22
4TNV106 (T)	105.930 to 105.960	105.880		30

If the piston outside diameter exceed the limit, replace the piston with new one.

If the clearance between piston and cylinder exceeds the limit, use an oversized piston. (Refer to the tables of oversized pistons, oversized piston rings and cylinder boring dimension in (1) (c) above.)

Selective pairing of cylinder and piston

Piston must be paired with cylinder according to the below table. The size mark of a piston is shown on the top surface of the piston and the size mark of a cylinder block is shown on the non-operating side of the cylinder block. The service parts of pistons are provided.

			Piston outside diameter. D2			
	Tolerance		+0.015 max. +0.005 min.	below +0.005 0 min.	below 0 -0.005 min.	below -0.005 -0.015 min.
		Size mark	L	ML	MS	S
Cylinder inside diameter D1	+0.030 max. +0.020 min.	L	○	○	×	×
	below +0.020 +0.010 min.	M	×	○	○	×
	below +0.010 0 min.	S	×	×	○	○

Model	Cylinder inside diameter D1	Piston outside diameter. D2
3TNV82A	82	81.965
3,4TNV84 (T)	84	83.955
3,4TNV88	88	87.955
4TNV94L	94	93.950
4TNV98 (T)	98	97.945
4TNV106 (T)	106	105.945

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(2) Field coil

(a)Field coil continuity test

Check continuity between field coil terminals. Good if continuity exists.

If no continuity (coil disconnection), replace the field coil.

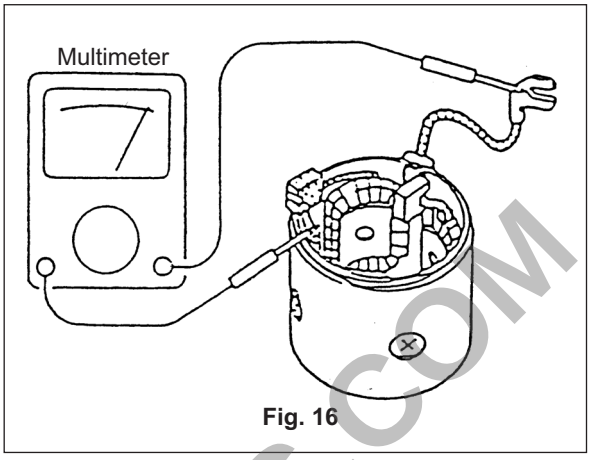


Fig. 16

(b)Field coil insulation test

Check continuity between field coil terminal and yoke. Good if no continuity exists.

If continuity exists (coil short circuit), replace the armature.

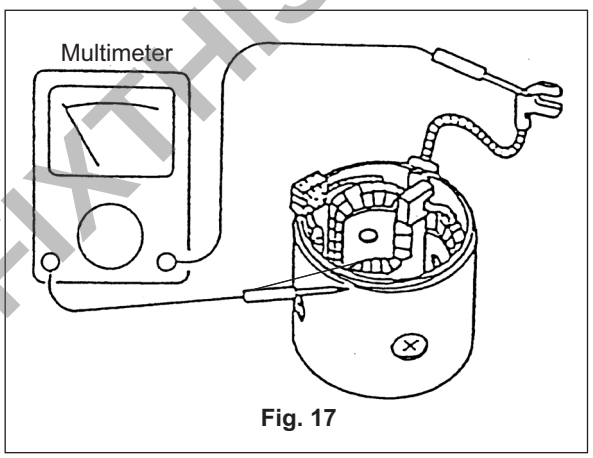


Fig. 17

(3) Brush

Measure the length of the brush. Replace with a good one if the length is less than the limit.

mm

Standard	Limit
15	9

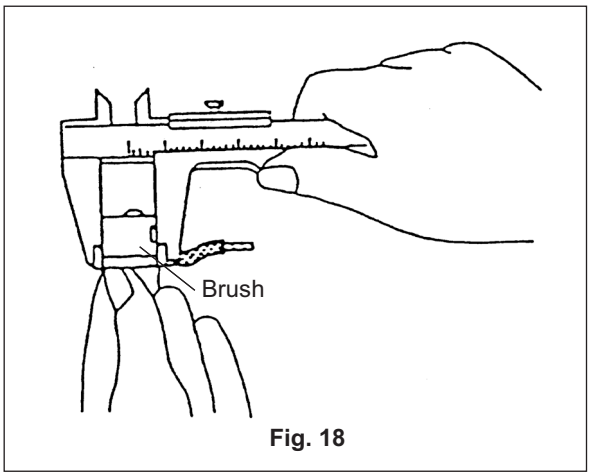


Fig. 18

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