2-7-2 Maintenance procedure

	Inspection and maintenance item	Inspection and maintenance interval (hours)					
		7	50	100	250	500	1,000
1	Engine oil pan	Check oil level	Replace the engine oil (New machine only)		Replace the engine oil		Clean
	Engine oil filter		Replace the cartridge (New machine only)		Replace the cartridge		
2	Fuel filter			Check and clean		Replace the element	
3	Engine valve clearance		Inspect and adjust (New machine only)			Inspect and adjust	
4	Fan belt	Check and adjust					
5	Fuel tank	Check oil level	Drain water and sediment, clean strainer				
6	Radiator (sub-tank)	Check water level				Replace and clean	
	Radiator fin		Check and clean				
7	Air cleaner			Check and clean		Replace the element	
8	Hydraulic oil tank	Check oil level			Drain water and sediment		Replace oil
9	Hydraulic line filter			Replace the cartridge (New machine only)		Replace the cartridge	
10	Hydraulic suction filter			Clean the element (New machine only)		Replace the element	
11	Bucket teeth and others	Inspect					
12	Slew bearing		Inspect and grease				
13	Inspect crawler tension(grease cylinder) and grease the crawler	Check and adjust					
14	Battery liquid amount and specific gravity		Inspect, clean and supply distilled water				
15	Inspect each body part for loosening and damage	Check and tighten					
16	Each lever and instrument	Inspect					
17	Lubricating oil of slew/travelling reduction gear					Replace oil (after the first 500 service hours only for a new machine)	Replace oil
18	Electrical wiring	Inspect					
19	Water and oil leakage in each body part	Inspect					
20	Inspect and grease attachment	Inspect attachment					
21	PTO filter element				Replace the element		

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Tightening torque list:

In the present inspection, always check for loosened bolts or nuts and correctly tighten them according to the following tightening torque list.

N-m Tightening torque of the bolt and nut (Body)

Material / Size	8.8 N·m	10.9 N·m	12.9 N·m
M6	12.5	16	20
M8	30	39	45
M10	62	72	80
M12	100	120	130
M14	160	195	220
M16	250	305	340

N-m Tightening torque of the hydraulic pipings

PT screw

Torque / Size	N·m
1/4	36
3/8	55
1/2	86
3/4	130
1	195
1 1/4	300
1 1/2	400

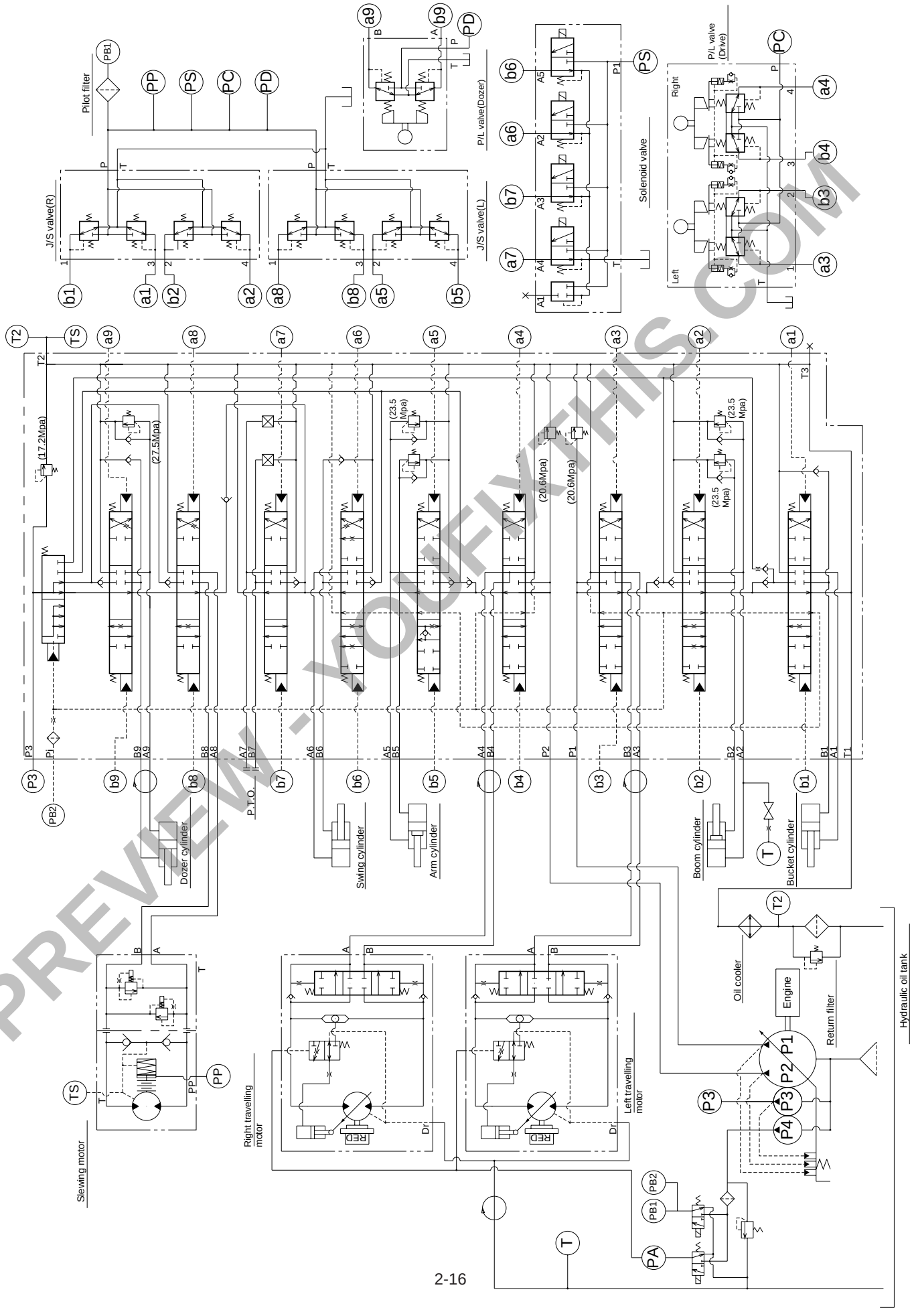
PF screw

Torque / Size	N·m
1/4	27-30
3/8	47-52
1/2	57-63
3/4	108-120
1	126-140

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2-8 Hydraulic circuit diagram



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4-1 Specification

Engine		S3L2
Type		In-line 3 cylinder 4cycle overhead valve type
Number of cylinders–bore × stroke		3–78 mm × 92 mm
Displacement		1,318 cc
Ignition order		1–3–2
Dimensions	Overall length	556 mm
	Overall width	440 mm
	Overall height	615 mm
Performance	Rated output	19.9 kW(27 ps) / 2,100 min^{-1}
	Maximum torque	85 N·m / 1,800 min^{-1}
	Maximum idling speed	2,600 ± 30 min^{-1}
	Minimum idling speed	1,200 ± 25 min^{-1}
	Fuel consumption	247 g / kW.h
Dry weight		135 kg
Fuel oil		Diesel fuel
Fuel pump		Bosh type
Governor		Centrifugal type
Generator		12V × 50A
Starter		12V × 1.7 kW
Battery		12V × 60 AH

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4-4 Inspection and maintenance procedure for engine parts

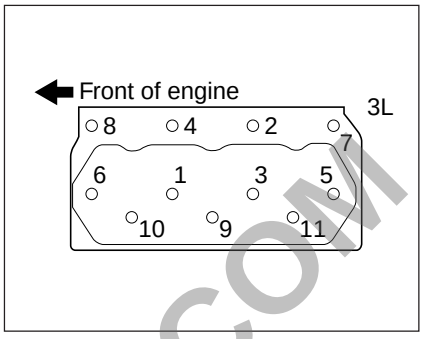
Inspecting and Adjusting Valve Clearance

NOTE

Make an adjustment to the valve clearance when the engine is cold.

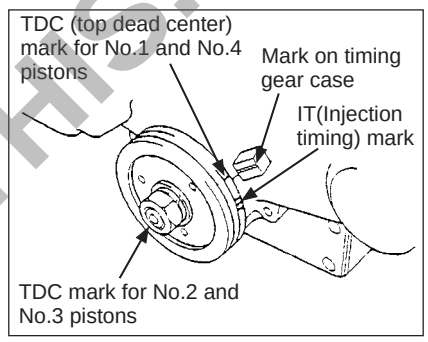
(1) Slightly loosen the cylinder head bolts and retighten them to the specified torque in number sequence.

Tightening torque	9 ± 0.5 kgf·m (88 ± 5 N·m)



Cylinder head bolt tightening sequence

(2) Find top dead center compression position for No.1 piston by using the procedure that follows:
   (a) Turn the crankshaft until TDC mark on the crankshaft pulley is aligned with the mark on the timing gear case.
   (b) With No.1 piston at top dead center on the compression stroke, the rocker arms will not be moved when the crankshaft is turned approximately 20° in both directions.
   (c) With No.1 piston at top dead center on the compression stroke, the rocker arms will not be moved when the crankshaft is turned approximately 20° in both directions.



Timing mark

(3) Loosen the lock nut for the adjusting screw. With a feeler gauge inserted between the rocker arm and valve cap, adjust the valve clearance by turning the adjusting screw.

Unit: mm(in.)

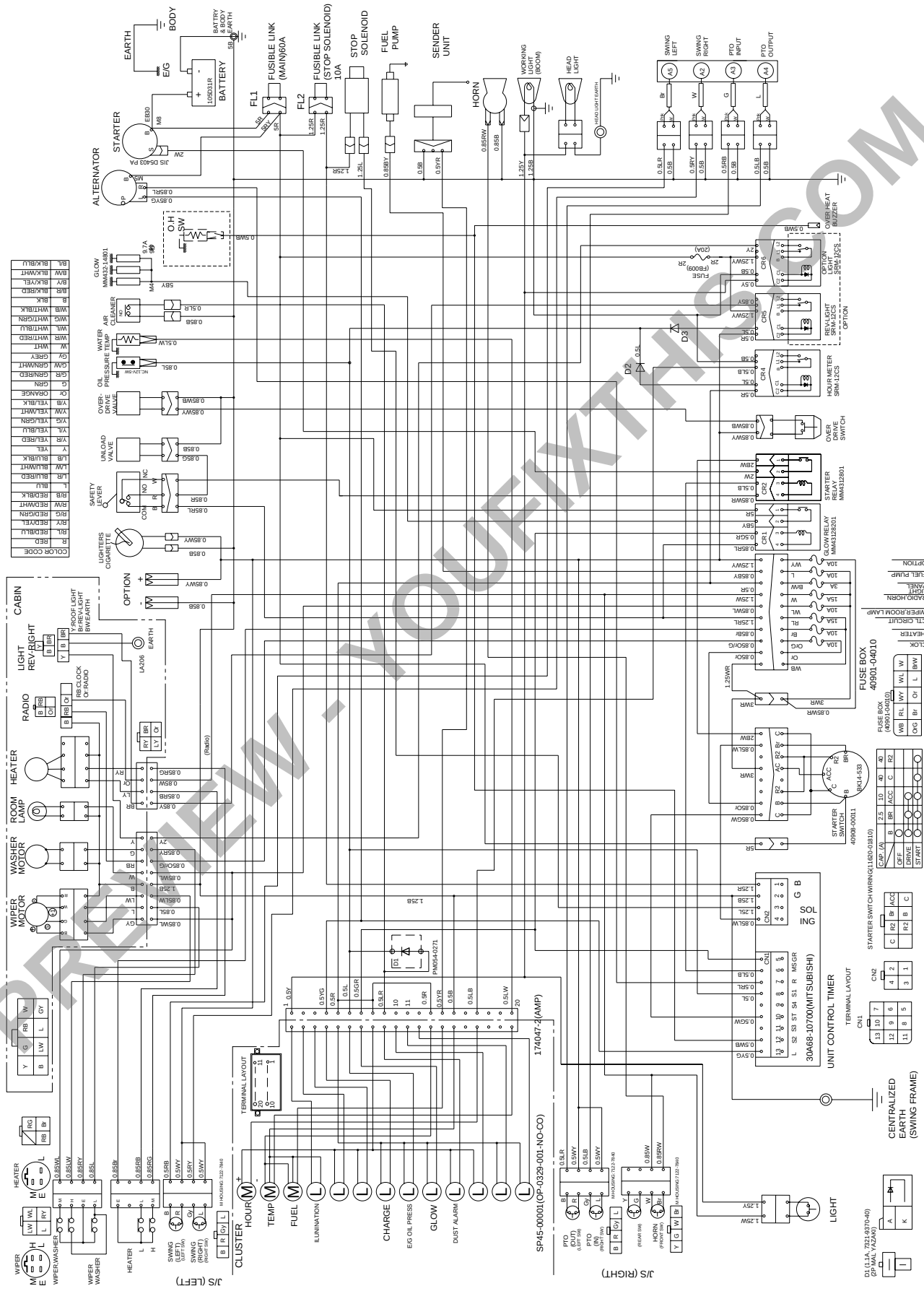
Item	Standard
Valve clearance (both inlet and exhaust valves)	0.25(0.0098)

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21-1 Structure and function

21-1-1 Electric circuit diagram

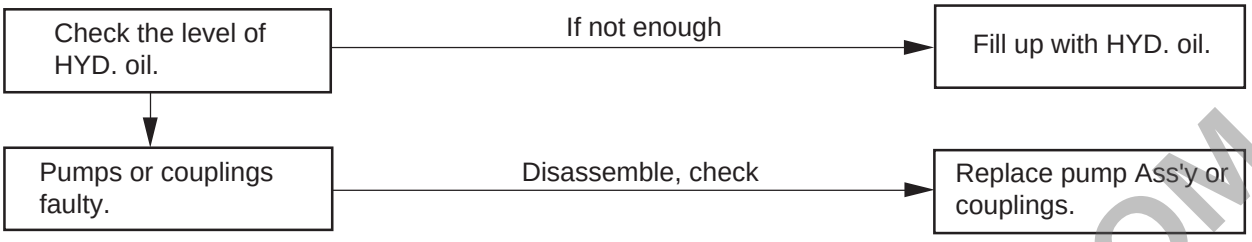


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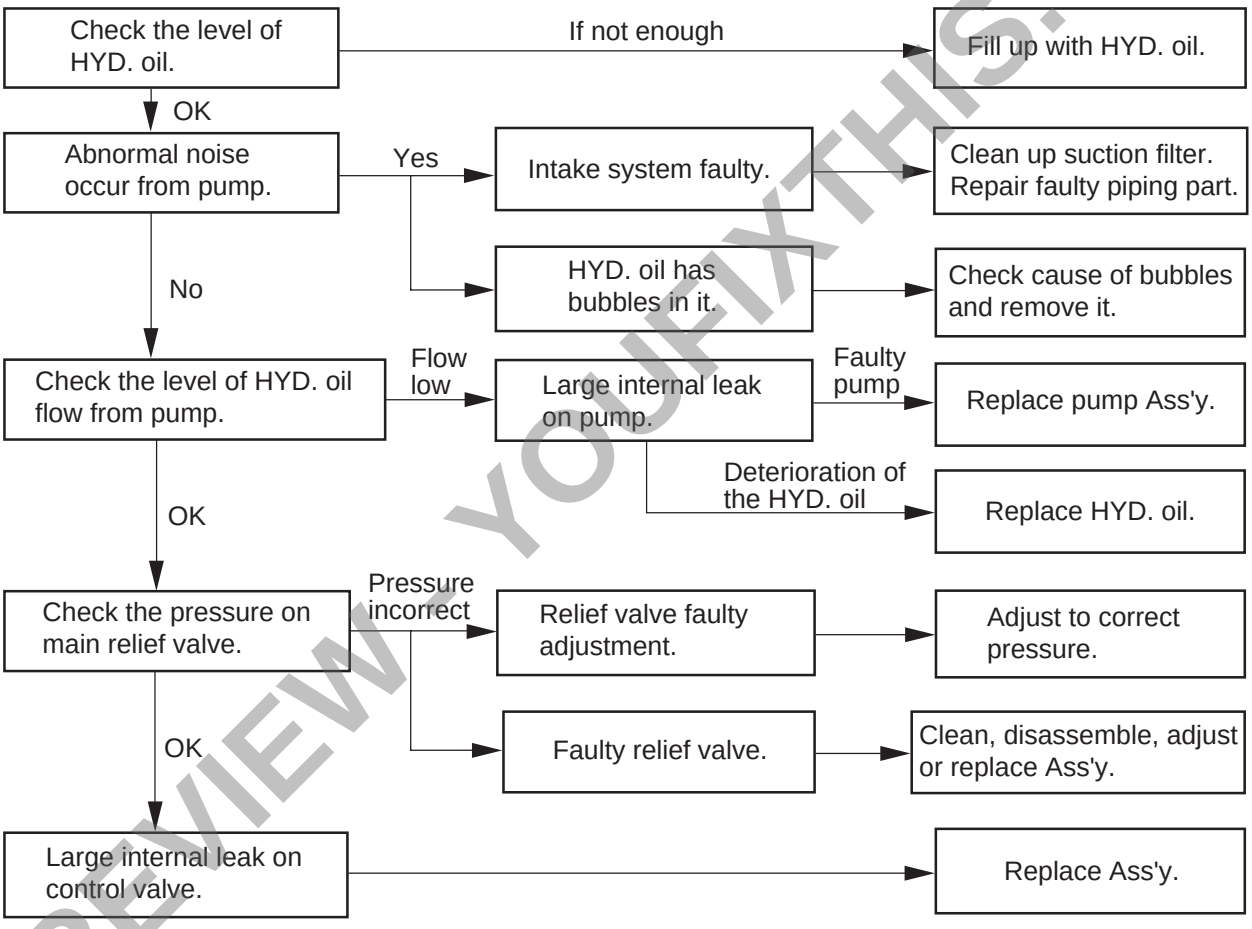
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22-1 Troubleshooting

22-1-1 All functions not operational



22-1-2 Operation power is weak



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   (Travel)
10. Pilot Valve (2)
    (Dozer)
11. Slew Motor
12. Travel Motor
13. Hydraulic Cylinder
14. Swivel Joint
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16. Spring Case and Grease Cylinder
17. Idler
18. Sprocket
19. Track Roller
20. Carrier Roller
21. Electrical Equipment
22. Troubleshooting

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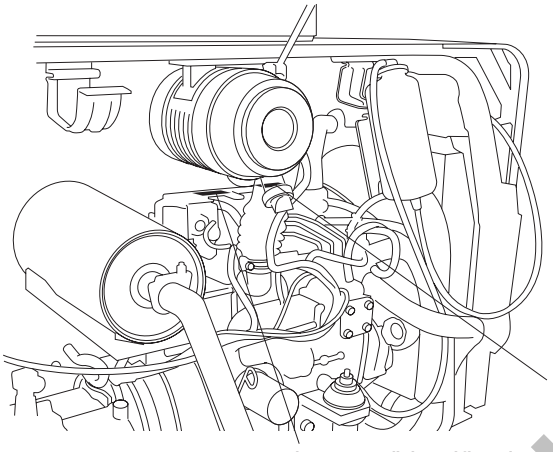
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4-3 Location of serial number

4-3-1 Engine



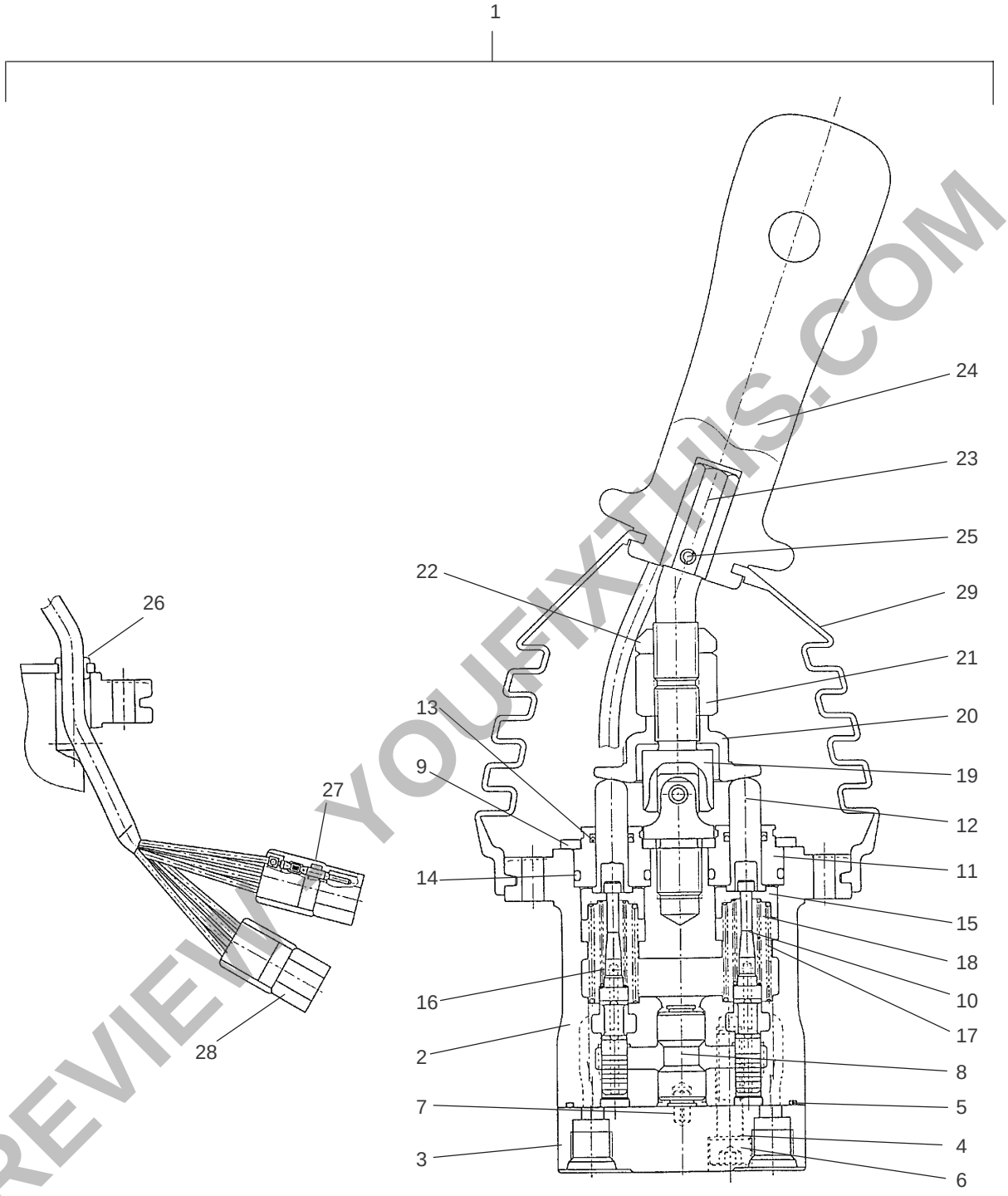
4-3-2 Standard engine speed (at new machine delivery)

Conditions	Idling speed
Maximum idling speed	2,600 ± 30 min^{-1}
Speed when 1P relief is used	2,450 ± 70 min^{-1}
Speed when 2P relief is used	2,450 ± 70 min^{-1}

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8-2 Structure



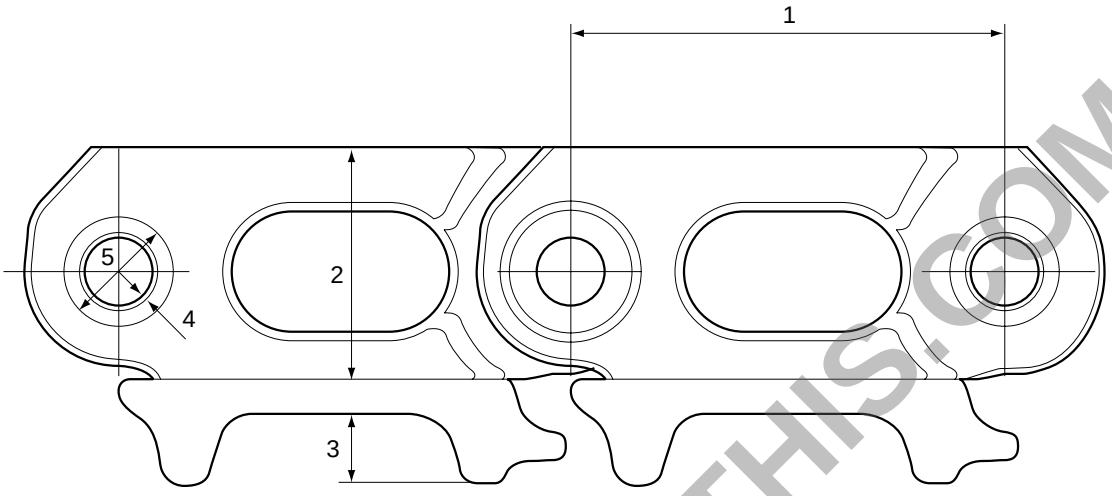
1. JOYSTICK VALVE ASS'Y
2. CASING
3. PORT PLATE
4. SEAL WASHER
5. O-RING
6. HEX. BOLT
7. SPRING PIN
8. BUSH
9. PLATE
10. SPOOL
11. PLUG
12. PUSH ROD
13. SEAL
14. O-RING
15. SPRING SEAT
16. WASHER 2
17. SPRING
18. SPRING
19. JOINT
20. CIRCULAR PLATE
21. ADJUSTING NUT
22. LOCK NUT
23. LEVER
24. KNOB
25. SPRING PIN
26. BUSH
27. CONNECTOR
28. HOUSING(4P)
29. BELLOWS

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15-2 Standard of maintenance

15-2-1 Crawler (steel)



No.	Item	Unit	Standard value	Allowance	Remarks
1	Link pitch	mm	101.6	104	Measure by stretching 5 links except for the master link
2	Link height		61	58.5	Pad or replace
3	Grouser height		16.5±1.5	7	Pad or replace
4	Pin clearance		0.33	2	Replace
5	Bush outer diameter		32.2	29	Replace

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