Description			Unit	Robex28-7
Machine weight	Canopy	Rubber shoe	Kg	2750
		Steel shoe		2760

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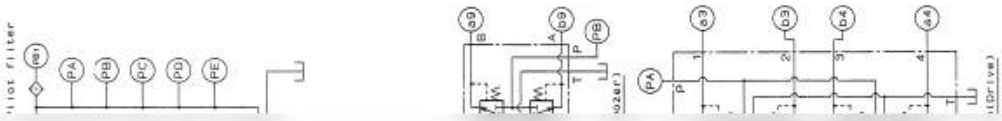
2-7-2 Maintenance procedure

	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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2-8 Hydraulic circuit diagram



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Bolt or nut	Thread, mm				Torque, kgf·m(lb·ft)[N·m]
	Diameter	Pitch	Width across flats	Clamp length	
Cylinder head bolt	M10	1.25	14	87	9±0.5(65±4)[88±5]
Rocker cover bolt	M8	1.25	12	40	1.15±0.15(8.3±1.1)[11.3±1.5]

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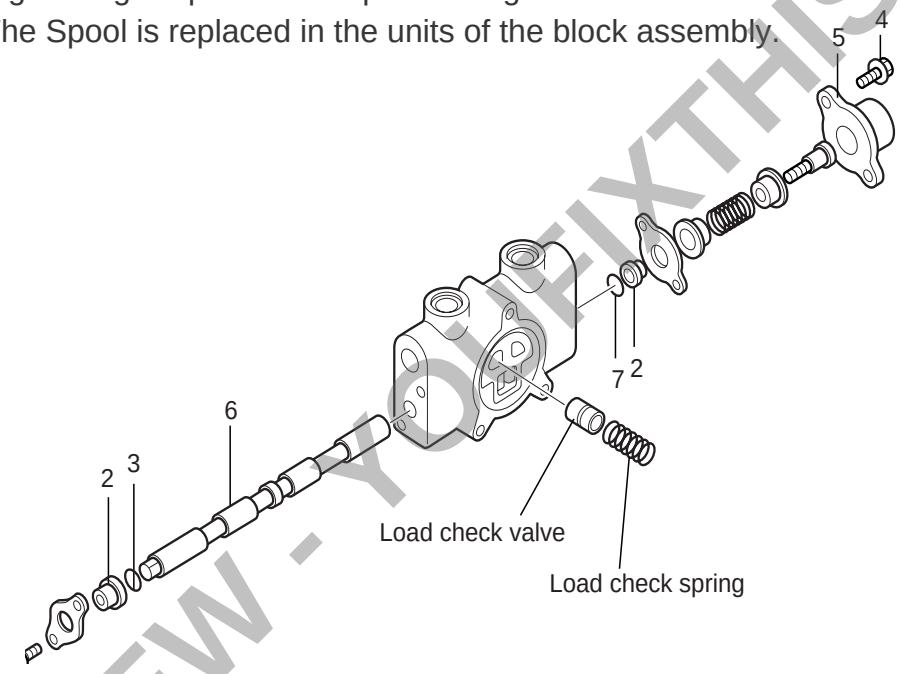
7-2-2 Replacing the O ring on the Spool

1. On the lever side

   1) Remove the mounting screws (1) of the O-ring presser from the block.
   2) Replace the backup ring (2) and O-ring (3).
   3) When mounting the O-ring presser, be sure not to damage the O-ring.

2. On the cap side

   1) Loosen the cap mounting screws (4) and remove the cap (5).
      Take out Spool (6) and replace O-ring (7)
   2) Rinse the Spool and insert it in the body.
   3) When installing the spring cap, be careful not to damage the O-ring.
      Tightening torque of the cap mounting screw is 9 N·m.
      The Spool is replaced in the units of the block assembly.



7-2-3 Removing the load check valve (For Drive (R), (L))

1. Remove the load check spring and load check valve from the valve block.
2. Keep each load check valve in order so as not to confuse it with other valve block.
2. Clean the parts sufficiently before assembling them.

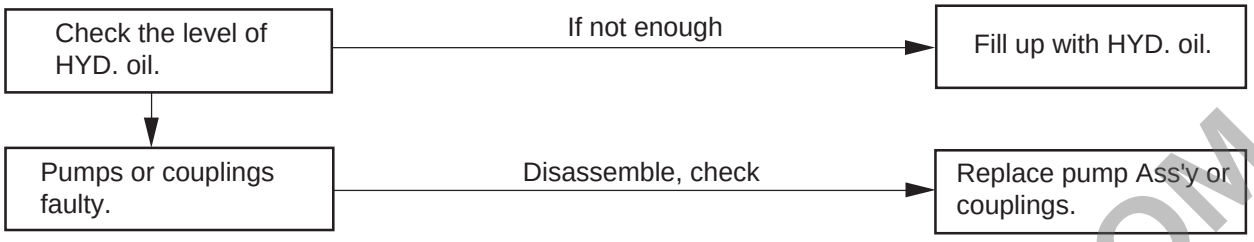
7-2-4 Replacing the relief valve assembly and the O-ring.

1. Remove the inlet section assembly and the relief valve.
2. If necessary, replace the O-ring or the relief valve assembly.
3. During installation, give grease to the O-ring.
4. When the relief set, cap nut of adjusting screw and hexagon nut are loosened, always check relief set pressure using the pressure gauge.
   At this time, the relief set pressure and flow rate shall be conformed to the specification indicated on the page of external drawing.
5. When the relief valve assembly is removed, check whether the small hole on the center of relief piston is clogged with foreign matter.

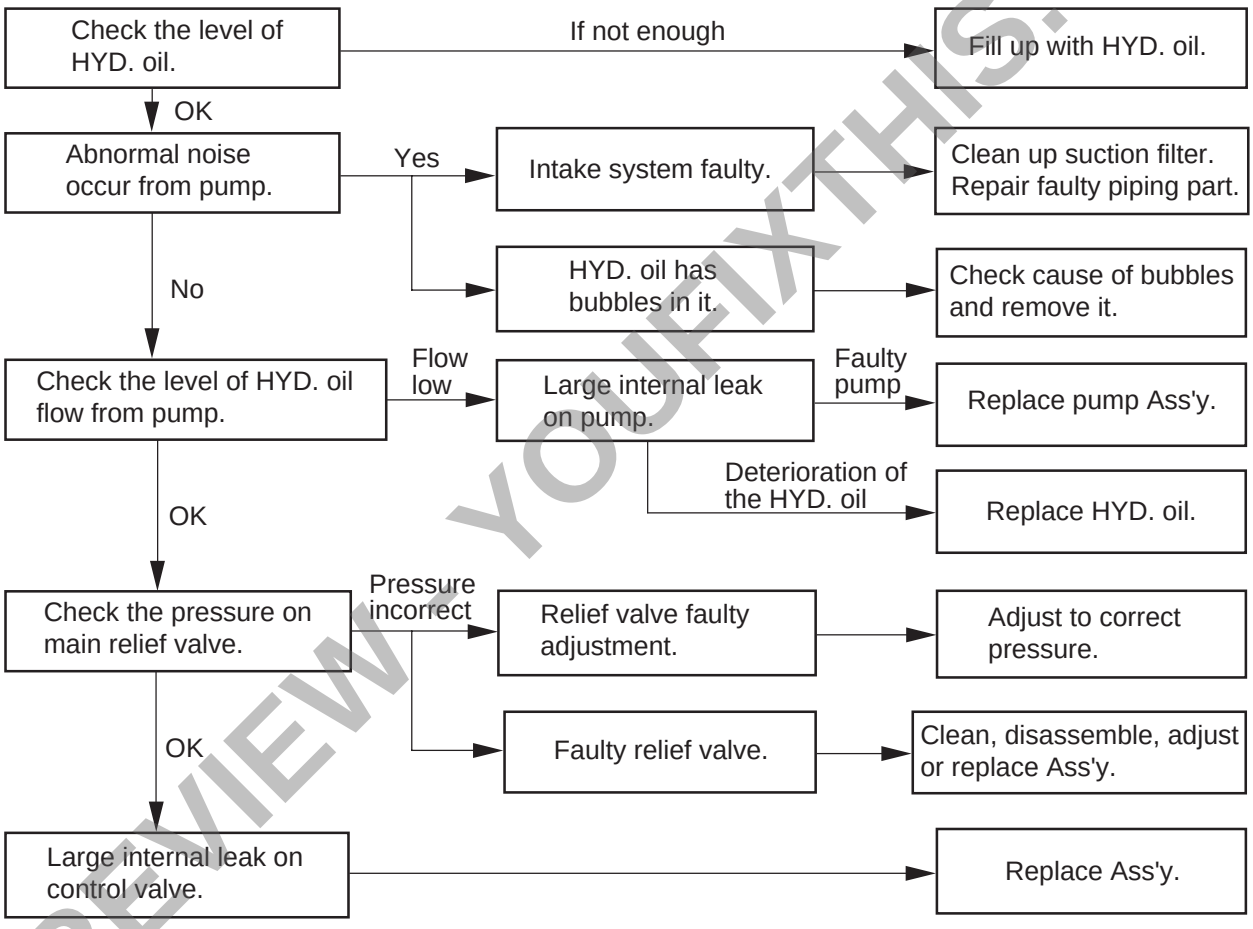
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23-1 Troubleshooting

23-1-1 All functions not operational



23-1-2 Operation power is weak



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1 PRECAUTIONS ON MAINTENANCE

1. Correct operation

Correct operation means to follow the correct “procedure” and “method.”
Procedure focuses on speed and accuracy of each job.
In the method, are addressed what type of facility, tools, instruments, materials, oil should be used, how and which part should be checked, adjusted or disassembled, and what matters to attend to.

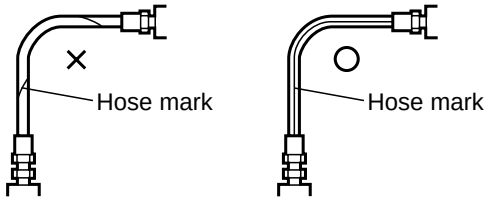
2. Precautions on operation

1. Safety check
   Check that stoppers and sleepers are correctly installed for the vehicle jack-up operation.

2. Preparation
   Prepare all of the tools and inspect and adjust the instruments.

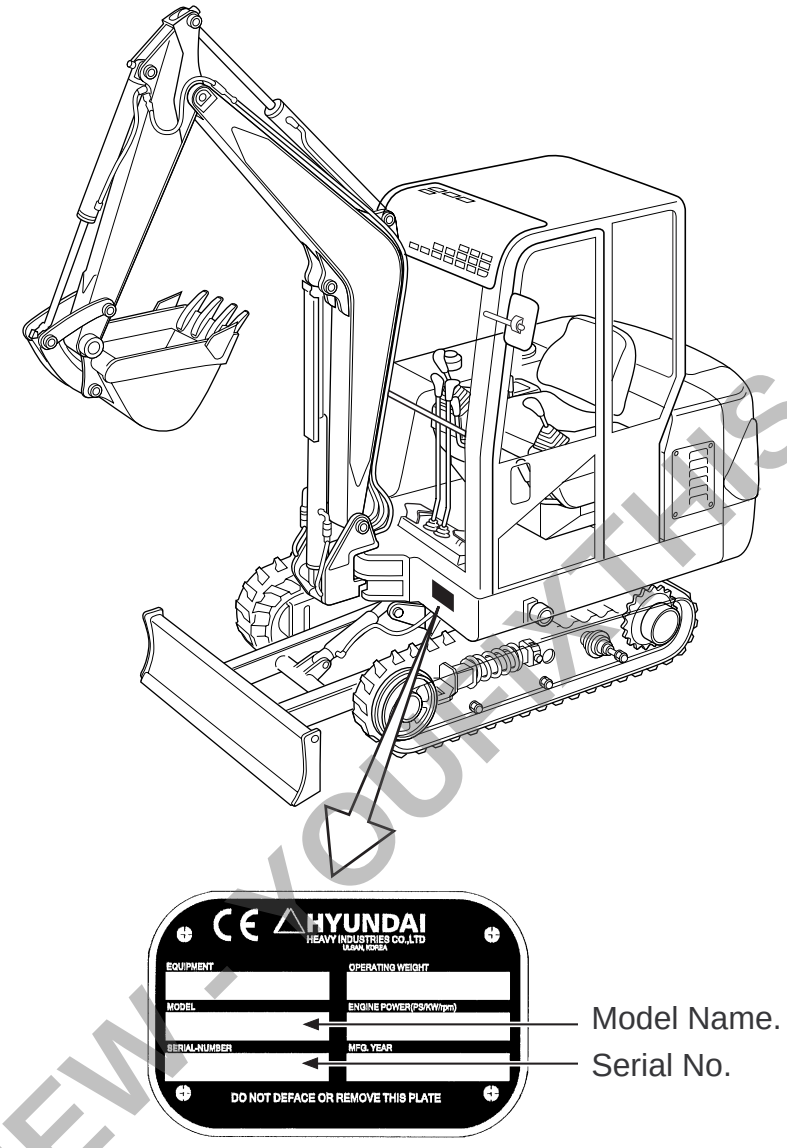
3. For efficiency
   1) Understand the state before disassembly.
      What is the problem? Is disassembly absolutely necessary?
   2) Before disassembly
      Determine whether match marks are necessary. For the electrical system, disconnect the cable from the battery terminal.
   3) Precautions for disassembly
      In stead of checking all of the disassembled parts at once, check each part individually as it is disassembled. When removing the hydraulic unit or the hoses, mount a dust cap on the connection.
   4) Repair of disassembled parts
      Keep the disassembled parts in order. Clearly distinguish the parts to be replaced with new parts from those to be reused. Packings, seals, rings, split pins must be replaced.

   NOTE:
   Electrical equipment, rubbers and V belts (which are easily affected by water and oil) must be handled carefully in order to prevent soiling them.
   5) Clean disassembled parts
      Thoroughly clean the disassembled parts.
   6) Assembly
      Perform the assembly correctly (tightening torque, application of Three Bond, screw lock, grease, use of seal tape, etc.). Also install the hose correctly.



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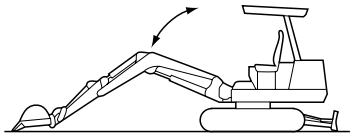
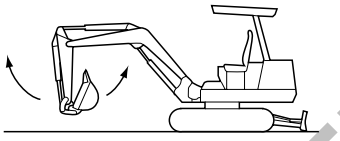
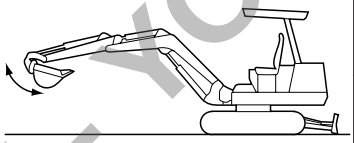
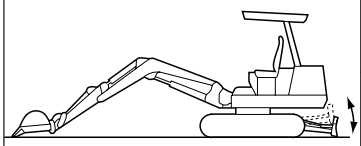
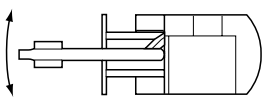
2-1 Location of Serial Number



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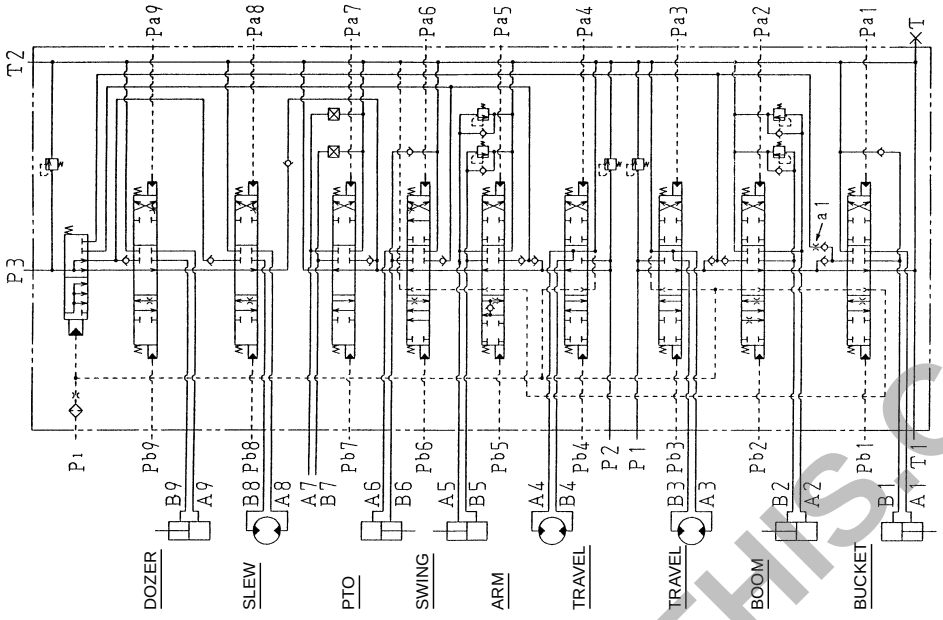
3-2-2 Measuring the speed of attachment cylinder (at full engine speed and oil temperature 50±5°C)

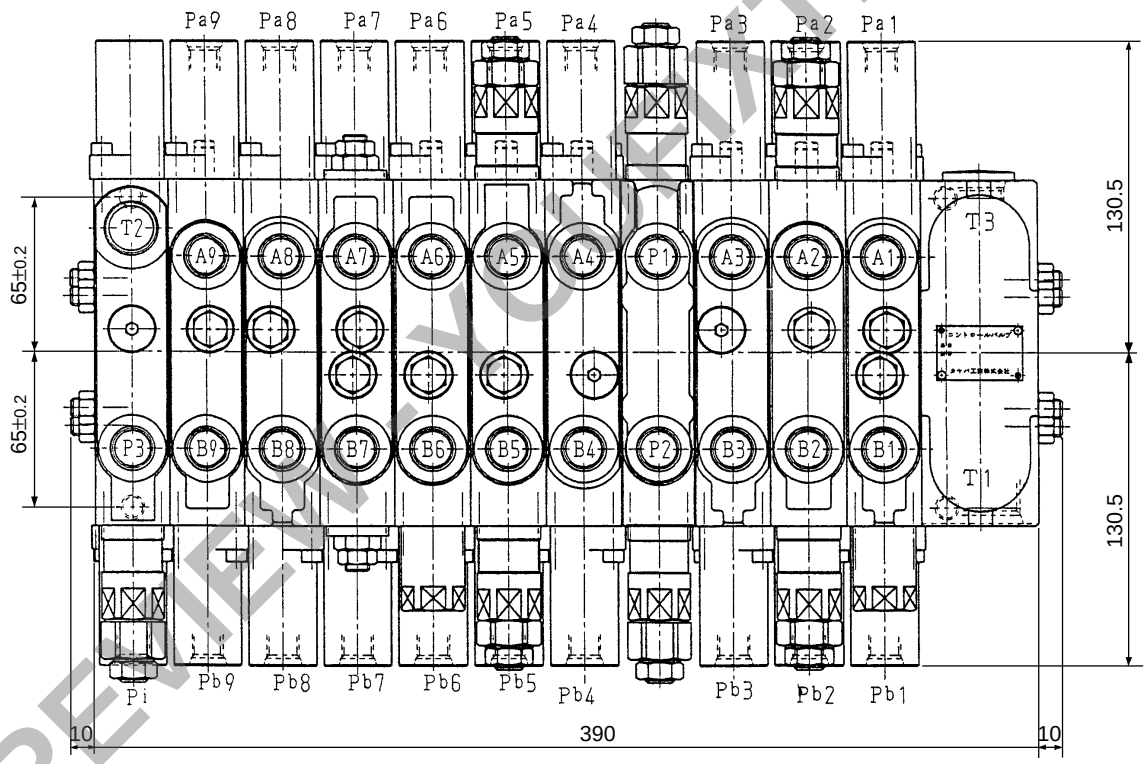
Condition	Machine position		Unit	New standard value	Allowable limit
Boom Make bucket teeth touch the ground		Up	sec	2.8±0.5	3.6
Extend cylinder to the Maximum length		Down		2.7±0.5	3.5
Arm Retract cylinder to the minimum length		Dig		3.1±0.6	3.8
Extend cylinder to the maximum length		Dump		3.0±0.5	3.9
Bucket Retract cylinder to the minimum length		Dig		3.0±0.5	3.9
Extend cylinder to the maximum length		Dump		2.0±0.4	2.8
Dozer Make dozer contact the ground		Up		1.2±0.3	1.7
Lift dozer to the maximum height		Down		0.9±0.3	1.2
Swing Retract cylinder to the minimum length		Right swing		6.7±0.5	8.7
Extend cylinder to the maximum ground		Left swing		6.5±0.6	8.5

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7-1 Specification





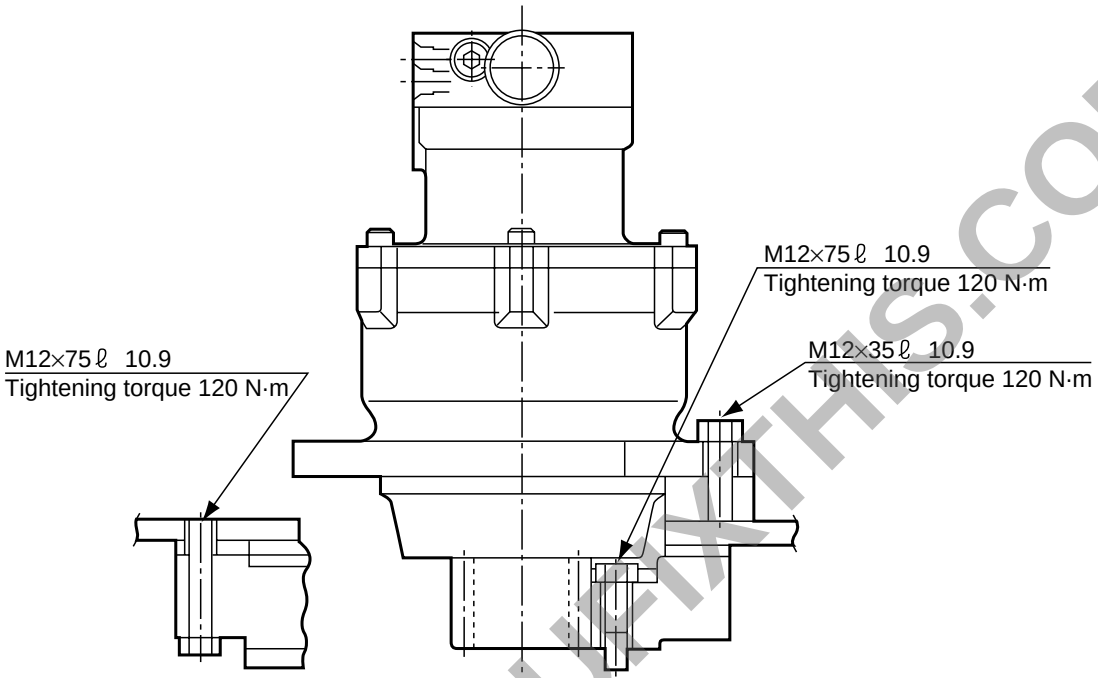
Port size	
P1, P2, P3, T1	PF 1 / 2
T2	PF 3 / 4
A1~A9, B1~B9	PF 3 / 8

P1 and P2 Main relief pressure	20.6 MPa at 42ℓ/min
P3 Main relief pressure	17.2 MPa at 25ℓ/min
A2, B2, A5, B5 Port relief pressure	23.5 MPa at 5ℓ/min

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12-3 Standard of maintenance

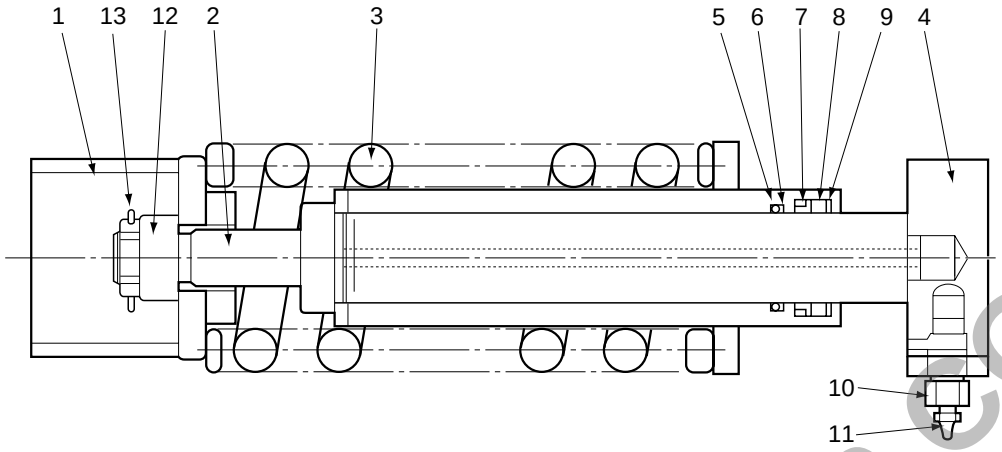
12-3-1 Slew bearing and slew case



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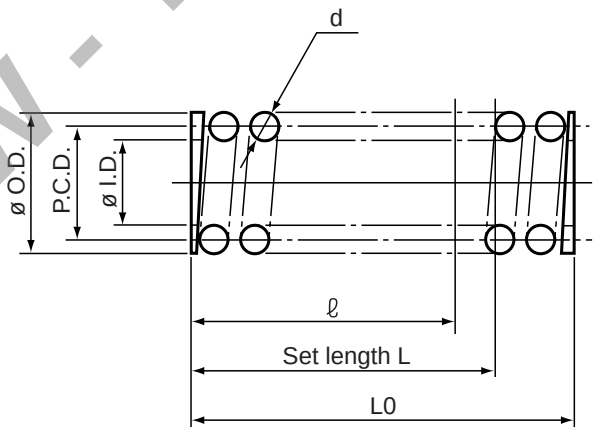
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17-1 Structure



1. Plate
2. Cylinder
3. Spring
4. Rod
5. O-ring (IB-P40)
6. Backup ring (T2-P40)
7. Dust seal (DKR-40)
8. Spacer
9. Snap ring (H-52)
10. Cartridge valve
11. Grease nipple (PT1/8-A)
12. Castle nut
13. Split pin

17-2 Specification of spring



Name	Value	Name	Value
No. of active coils	7.5	ℓ Length at max. shrinkage (mm)	195.1(7.7")
Total number of coils	9	ø O.D. (outer diameter)(mm)	107(4.2")
Spring constant (kgf/mm)	50.9 (2.0")	P.C.D. (Center diameter) (mm)	85(3.3")
Set force (kg)	2,698	øI.D. (Inner diameter) (mm)	63(2.5")
Force at max. shrinkage (kg)	4,650	Wire diameter d (mm)	22(0.9")
Lo Free length (mm)	286.5(11.3")	L set length (mm)	233.5(9.2")

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