Model		Robex16-7	
Machine weight	Canopy rubber	kg	1,520
	Canopy steel		1,570
	Cabin rubber		1,630

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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					

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2-8 Hydraulic circuit diagram

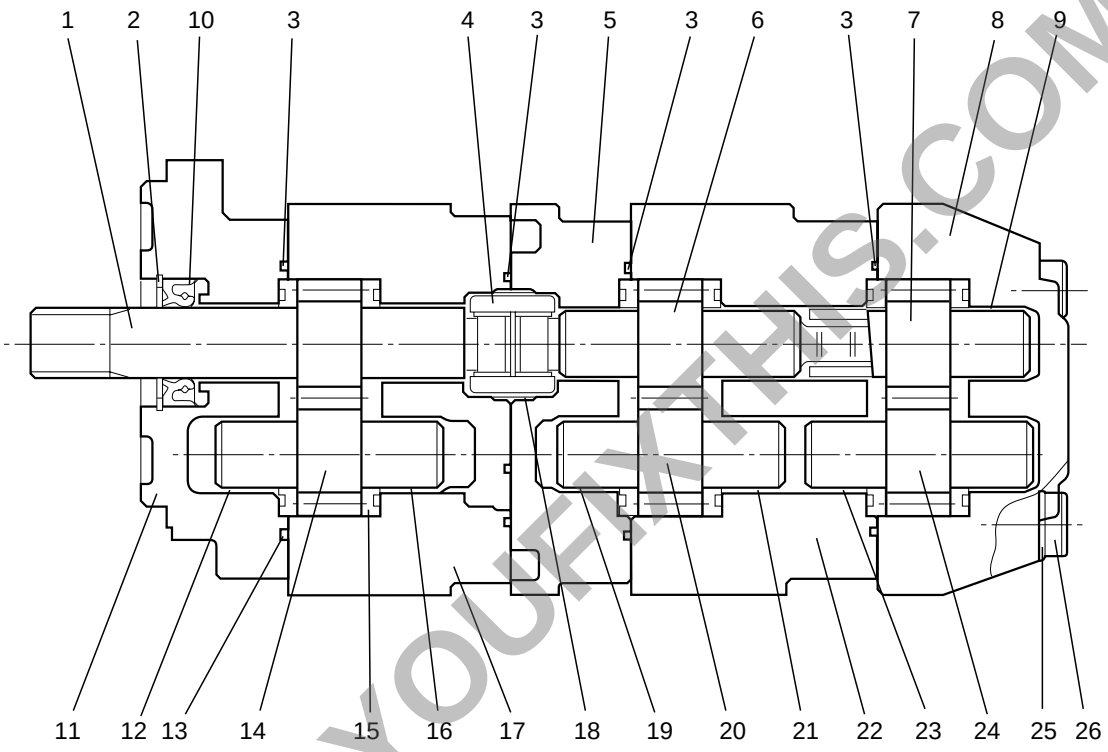


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5-2 Structure



1. Driven gear
2. Snap ring
3. Gasket
4. Coupling
5. Adaptor plate
6. Driven gear
7. Driven gear
8. Body
9. Bush
10. Oil seal
11. Front cover
12. Bush
13. Gasket
14. Driven gear
15. Slide plate
16. Bush
17. Body
18. Collar
19. Bush
20. Driven gear
21. bush
22. Body
23. Bush
24. Driven gear
25. Washer
26. Hexagonal socket head bolt

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5-3 Removing and installing the pump

5-3-1 Removing the pump

1. Remove the nipple, TEE, elbow and hoses around the pump. Attach a cap to the removed hoses to keep dust off. Store the nipples and elbows in treated oil.

2. Remove the pump mounting bolts(1).

3. Remove the pump from the flange 2. If removal is difficult, insert a screwdriver and remove the pump little by little with equal force applied on the right and left sides.

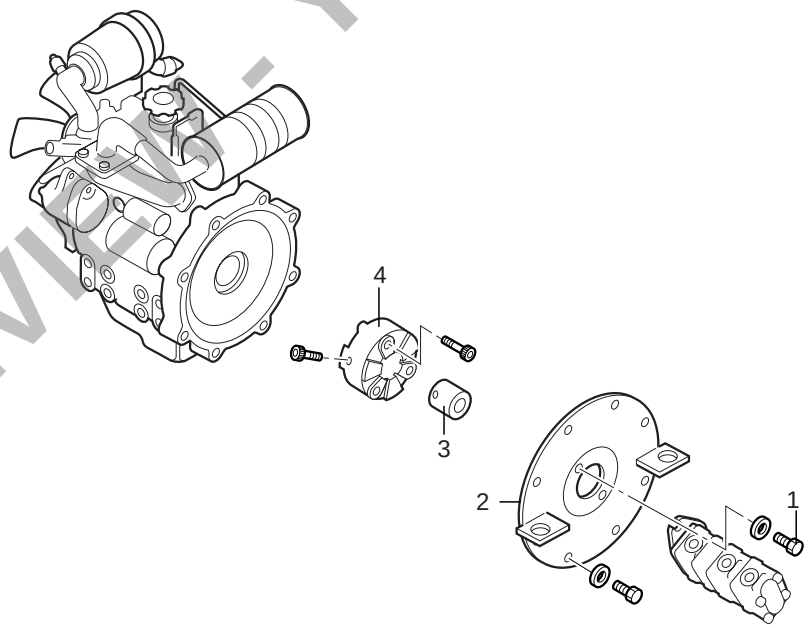
5-3-2 Installing the pump

1. Replace with a new pump and install it on the pump flange 2. Check that the spline of the shaft fits smoothly with the boss of the coupling.
   When tightening the bolts 1, tighten the left and right side bolts slowly and evenly.

Bolt	Tightening torque
M10 × 30ℓ	60.8 N-m(6.2kgf-m)

* Precautions on installing the pump

1.When tightening the coupling boss 3,be careful so that coupling 4 does not tilt.
Note) Make sure there is no misalignment.



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18-1 Structure and function

18-1-1 Electric circuit diagram



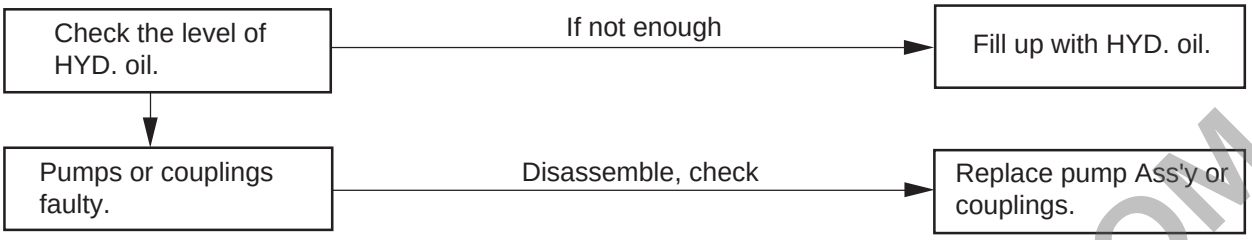
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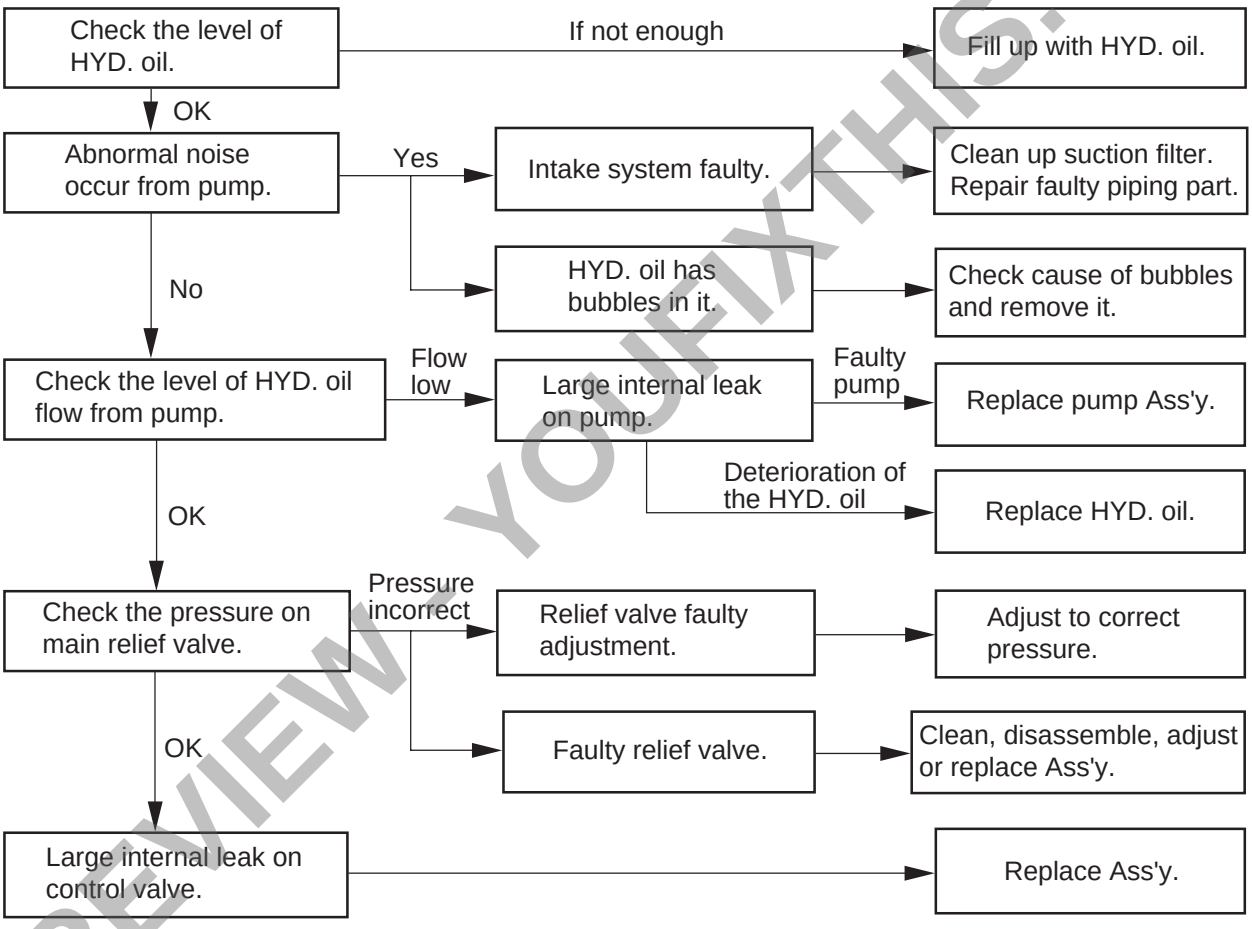
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19-1 Troubleshooting

19-1-1 All functions not operational



19-1-2 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.

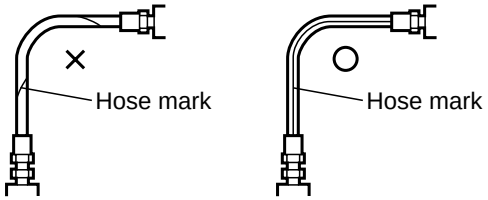
2. Precautions on operation

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.

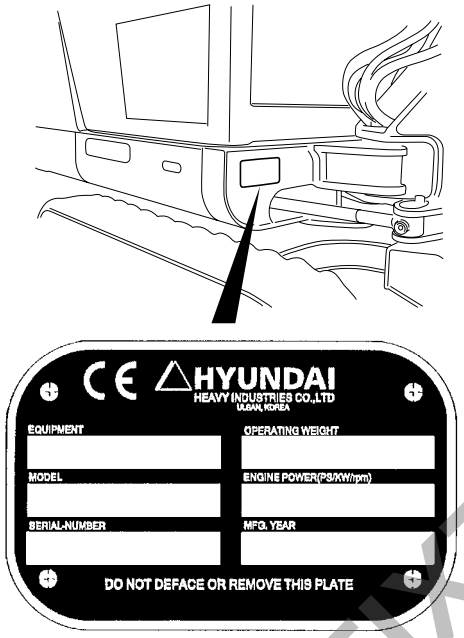
3. For efficiency
   1) Understand the state before disassembly.
      What is the problem? Is disassembly absolutely necessary?
   2) Before disassembly
      Determine whether match marks are necessary. For the electrical system, disconnect the cable from the battery terminal.
   3) Precautions for 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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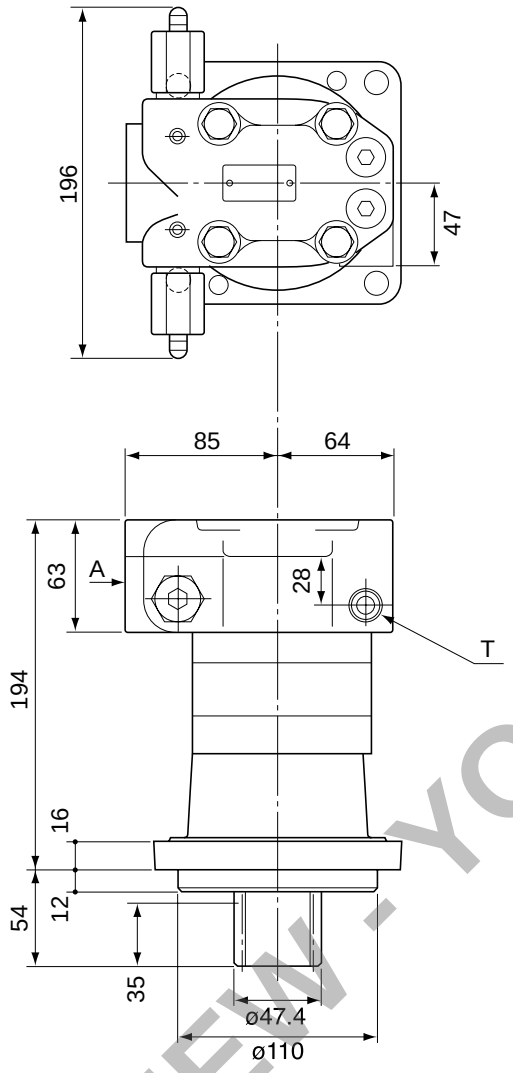
4-1 Specification

Engine		L3E-W231NSA
Type		Vertical 4 cycle 3 cylinder
Number of cylinders–bore × stroke		3–76 mm×70mm
Displacement(cc)		952 cm^3
Ignition order		1–3–2
Dimensions	Overall length	640mm
	Overall width	450mm
	Overall height	550 mm
Performance	Rated output	12.5kW(17ps)/ 2,400 min^{-1}
	Maximum torque	55N-m/ 1,600min^{-1}
	Maximum idling speed	2,650 min^{-1}
	Minimum idling speed	1,100 min^{-1}±30
	Fuel consumption	280g/kW-h(206 g/ps.h)
Dry weight		88kg
Fuel oil		Diesel fuel
Fuel pump		Bosh type
Governor		Centrifugal type
Generator		12V × 40A
Starter		12V × 1.2kW
Battery		12V × 36Ah

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9-1 Specification

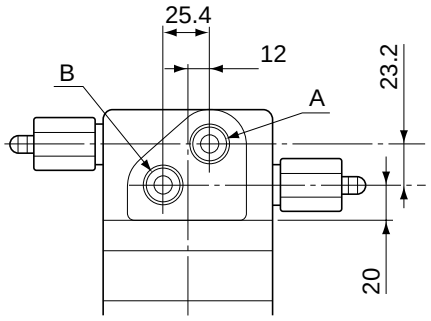


Direction of rotation
(seen from the output shaft)

Direction of rotation	Oil inlet	Oil outlet
Clockwise	A	B
Counterclockwise	B	A

Port	Port size
A	PF 3/8
B	PF 3/8
T	PF 3/8

Initial oil replace	500Hr
Second and later replace	1,000Hr



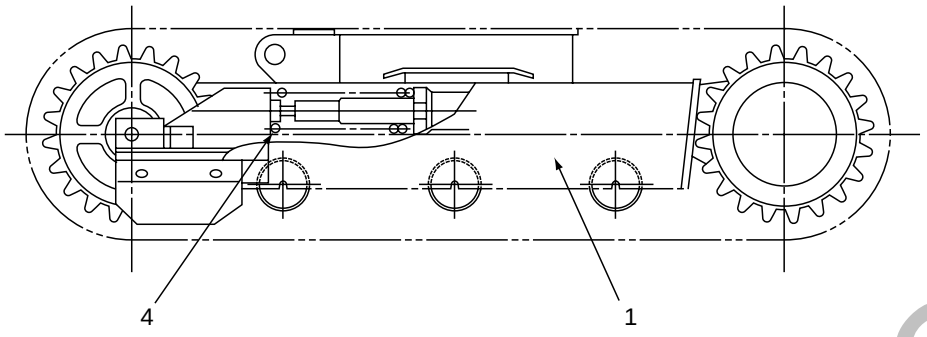
View A

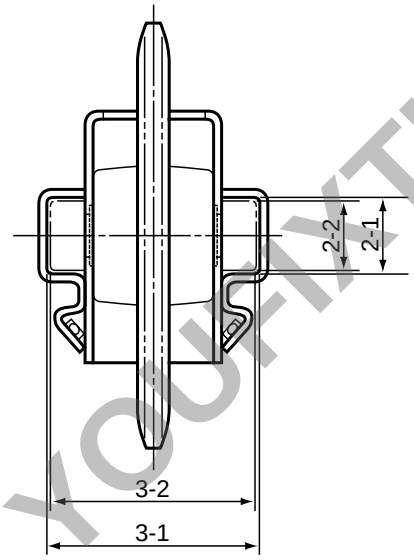
	Type	2-160 DOS-E3754
Hydraulic motor	Output torque	234 Nm(23.9kgf-m)
	Output speed	78min^{-1}
	Capacity	158 cm^3/rev
	Flow rate	12.4 ℓ /min.
	Overload relief set pressure	9.32MPa(95kgf/cm^2) at 12 ℓ /min.
Pinion gear	Module	3
	No. of threads Z	13
Weight		15kg

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13-3-3 Track frame spring





Unit: mm

No.	Item	Standard		Remedy
1	Deformation of frame		Allowable limit	Correct
		Bend	5 (Overall length of track frame)	
		Twist	10 (Twist between left and right crawler frames)	
		Opening of idler	5	
2	Distance between upper and lower faces of idler guide		Standard value	Pad or replace
		2-1 Track frame	52^{+1}_{-0}	
		2-2 Idler frame	50	
3	Distance between left and right faces of idler guide	3-1 Track frame	151	Replace
		3-2 Idler support	150	
4	Spring (free length)	Standard value	261	Replace
		Set length	223	

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