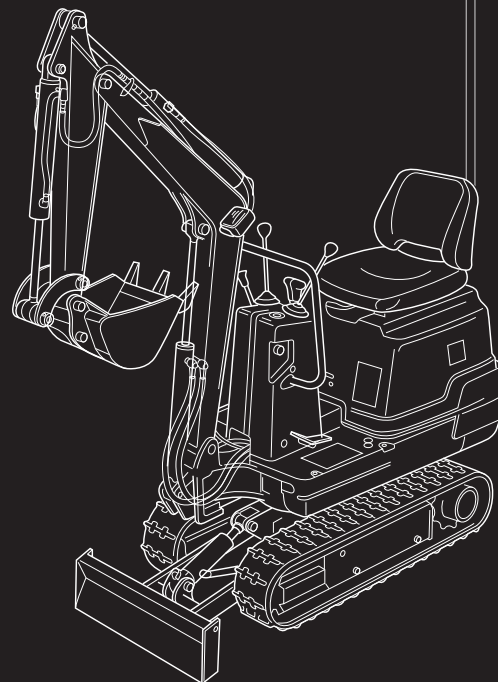


H08B

HANIX
Japanese Craftsmanship



Service Manual

Japanese Craftsmanship

INTRODUCTION

To insure a long life for the machine and the engine and to prevent failure and problems, proper operation, maintenance and repairs are indispensable.

This service manual includes an "outline," "structure and operation," "inspection and adjustment," "disassembly and assembly," "standard maintenance," and "repair and replacement of parts" of the machine which are necessary to carry out the inspections and repairs in the repair shop.

We hope that this manual helps you to efficiently and effectively carry out repairs by providing an accurate description of the product and the correct repair techniques.

CONTENTS

1. Precautions on Maintenance
2. Outline
3. Attachment
4. Engine
5. Main Pump
6. Hydraulic Oil Filter
7. Control Valve
8. Slew Motor
9. Travelling Motor
10. Hydraulic Cylinder
11. Swivel Joint
12. Selector Valve
13. Crawler
14. Idler
15. Sprocket
16. Track Roller
17. Electrical Equipment
18. Troubleshooting

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:

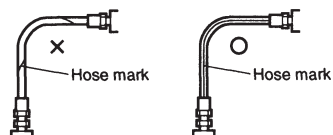
Electrical equipment, rubbers and V belts (which are easily affected by water and oil) must be handled carefully in order to prevent soiling them.

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.



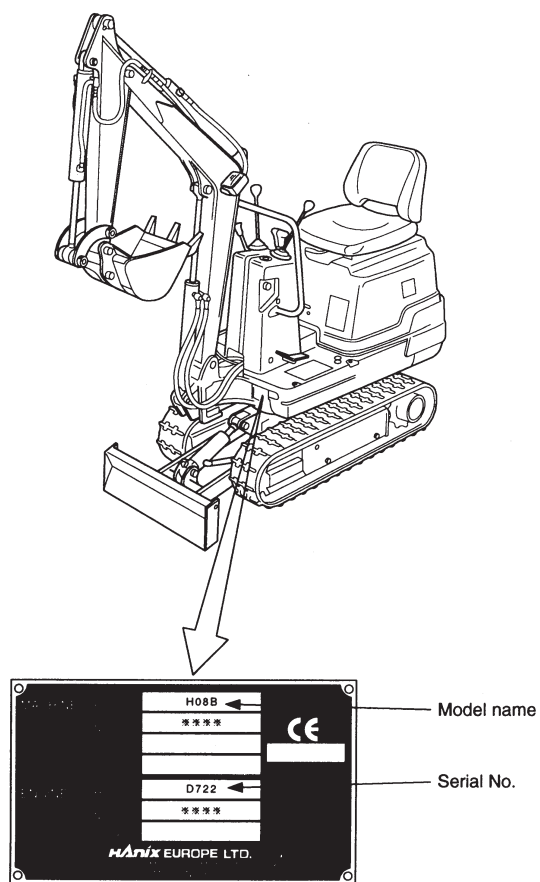
1-1

2 OUTLINE

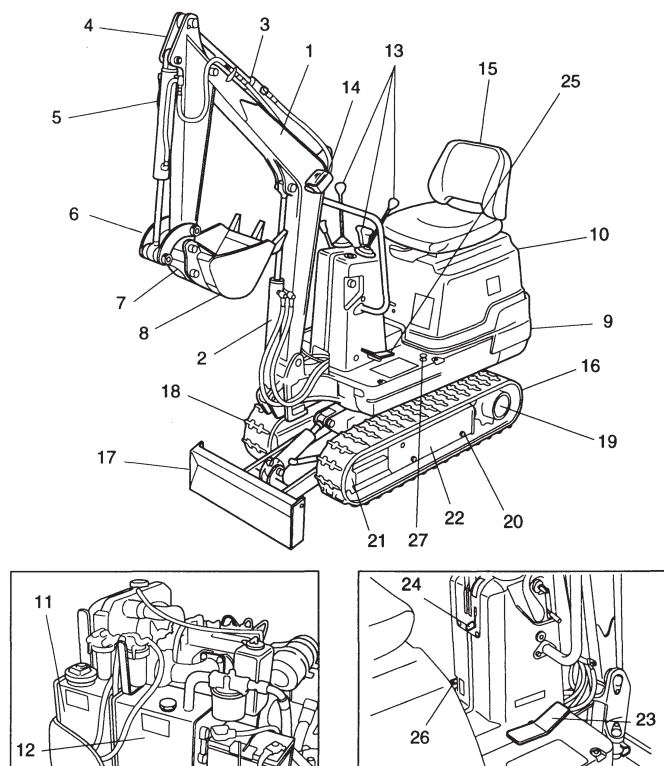
CONTENTS

- 2-1 Location of serial No.
- 2-2 Name of each part
- 2-3 Dimensions and specifications
- 2-4 Weight list
- 2-5 Oil and grease supply points
- 2-6 List of supply oil and grease
- 2-7 When to repair
- 2-8 Hydraulic circuit diagram

2-1 Location of Serial Number

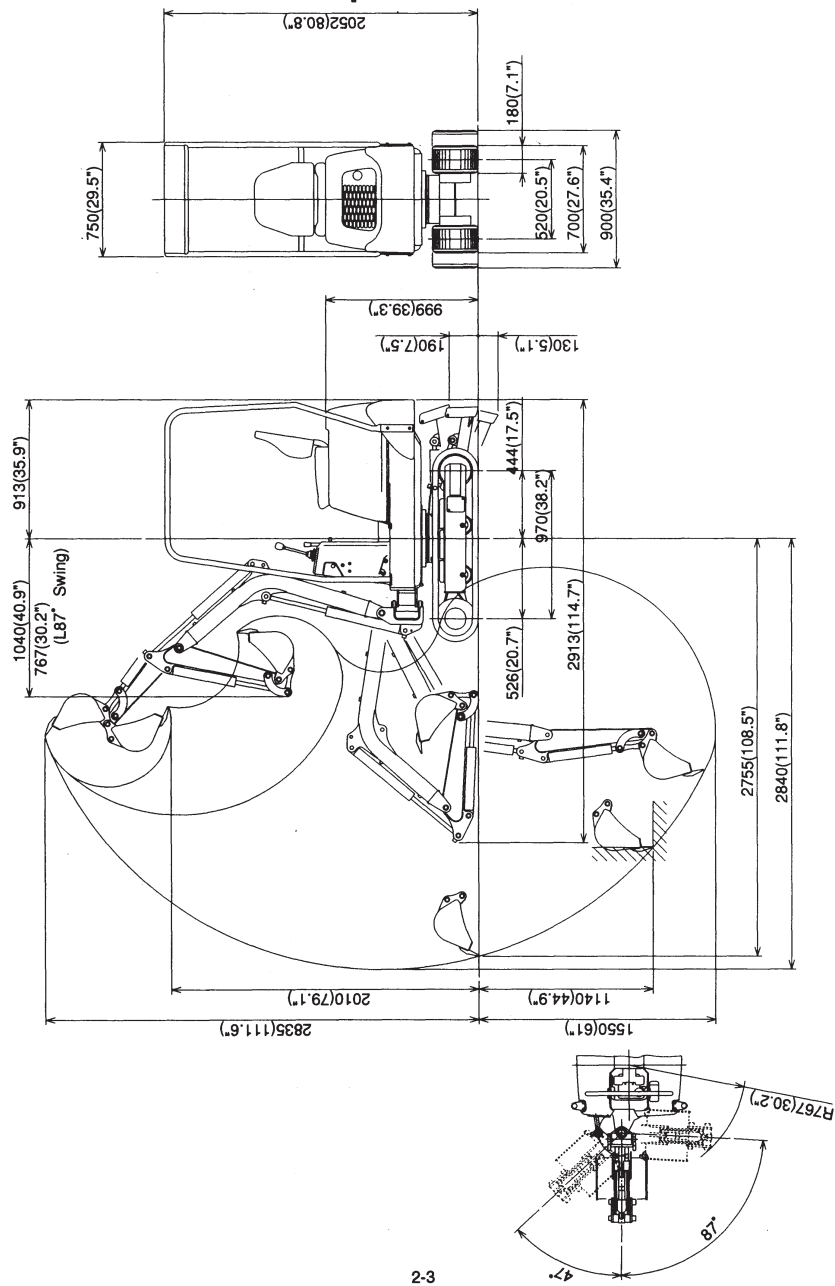


2-2 Name of each part



- | | |
|----------------------------------|--------------------------|
| 1. Boom | 2. Boom cylinder |
| 3. Arm cylinder | 4. Arm |
| 5. Bucket cylinder | 6. Bucket link |
| 7. Dump link | 8. Bucket |
| 9. Swing frame | 10. Engine cover |
| 11. Fuel tank | 12. Hydraulic oil tank |
| 13. Operartion lever | 14. Light |
| 15. Seat | 16. Crawler |
| 17. Dozer | 18. Dozer cylinder |
| 19. Traveling motor | 20. Track roller |
| 21. Front idler | 22. Lower frame |
| 23. Swing pedal | 24. Operation lock lever |
| 25. P.T.O. pedal | 26. Slew lock pin |
| 27. Crawler width changing pedal | |

2-3 Dimensions and Specifications



2-3

Model		H08B
Machine weight	Roof rubber	760 kgf (1675.8 lbf)
Standard bucket capacity		0.022 m ³ (0.79 ft ³)
Standard bucket width		330 mm (13.0")
Engine	Type	D722
	Displacement	719 cm ³ (43.8 in ³)
	Rated output	7.4 kw (10.0 ps) / 2,000 min ⁻¹
Working range	Arm	684 mm (26.9")
	Max. digging depth	1,550 mm (61")
	Max. digging depth with blade down	1,625 mm (63.9")
	Max. vertical digging depth	1,140 mm (44.9")
	Max. digging height	2,835 mm (111.6")
	Max. dumping height	2,010 mm (79.1")
	Max. digging radius	2840 mm (111.8")
	Min. turning radius	Front 1,040 mm (40.9")/ Swing 767 mm (30.2")
	Rear end radius	913 mm (35.9")
Boom swing angle		Left 87° / Right 47°
Dimensions	Overall length	2,913 mm (114.7")
	Overall width	750 mm (29.5") < 900 mm (35.4")
	Overall height	2052 mm (80.8")
	Dozer (width × height)	700 mm < 900mm × 200mm (27.6" < 35.4" × 7.8")
Performance	Travelling speed	2 km (1.2 mile) / h
	Slew speed	8.5 min ⁻¹
	Gradeability	25°
	Max. digging force (Bucket)	8.3KN (1,874 lbf)
	Max. digging force (Arm)	5.9KN (1,323 lbf)
Undercarriage	Ground pressure	Roof rubber
	Shoe width × tumbler center	180 mm × 970 mm (7.1" × 38.2")
	Type of travelling motor	Piston shoe - in type
	Crawler tension system	Thread type
Hydraulic pressure	Type of hydraulic pump	Gear × 2
	Main pump oil flow Qty.	10.2 ℓ (622 in ³ • 2.2 gallon • 2.7 US) × 2
	P. T. O. oil flow Qty.	20.4 ℓ (1,244 in ³ • 4.4 gallon • 5.4 US)
	Pressure P1 / P2	16.2 MPa (2,347 psi) / 16.2 MPa (2,347 psi)
Capacity	Hyd. oil capacity	13 ℓ (793 in ³ • 2.86 gallon • 3.4 US)
	Engine oil capacity	3.1 ℓ (189 in ³ • 0.68 gallon • 0.8 US)
	Fuel capacity	9.0 ℓ (549 in ³ • 1.98 gallon • 2.38 US)
	Cooling water capacity	3.8 ℓ (232 in ³ • 0.84 gallon • 1.0 US)
Noise level LwA / LpA		95 dB (A) 80 dB (A)