KOBELCO

SERVICE MANUAL

HYDRAULIC EXCAVATOR

SK80MSR-1E(S)

S5LF0005E01

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1. OUTLINE

TABLE OF CONTENTS

1.1 GENERAL PRECAUTIONS FOR REPAIRS 1-3
1.1.1 PREPARATION BEFORE DISASSEMBLING 1-3
1.1.2 SAFETY IN DISASSEMBLING AND ASSEMBLING 1-3
1.1.3 DISASSEMBLING AND ASSEMBLING HYDRAULIC EQUIPMENT 1-3
1.1.4 ELECTRICAL EQUIPMENT 1-4
1.1.5 HYDRAULIC PARTS 1-5
1.1.6 WELDING REPAIR 1-5
1.1.7 ENVIRONMENTAL MEASURE 1-5
1.2 INTERNATIONAL UNIT CONVERSION SYSTEM(Based on MARKS' STANDARD HANDBOOK FOR MECHANICAL ENGINEERS) 1-6

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2. SPECIFICATIONS

TABLE OF CONTENTS

2.1 NAME OF COMPONENTS 2-3
2.2 MACHINE DIMENSIONS 2-4
2.2.1 3.72 m (12 ft-2 in) Boom + 1.8 m (5 ft-11 in) Arm + 0.28 m³ (0.37 cu•yd) Bucket 2-4
2.3 WEIGHT OF COMPONENTS 2-5
2.4 TRANSPORTATION DIMENSION AND WEIGHT 2-7
2.5 SPECIFICATIONS AND PERFORMANCE 2-10
2.5.1 SPEED AND CLIMBING CAPABILITY 2-10
2.5.2 ENGINE 2-10
2.5.3 HYDRAULIC COMPONENTS 2-10
2.5.4 WEIGHT 2-10
2.6 TYPE OF CRAWLER 2-11
2.7 TYPE OF BUCKET 2-11
2.8 COMBINATIONS OF ATTACHMENT 2-12
2.9 ENGINE SPECIFICATION 2-13
2.9.1 SPECIFICATIONS 2-13
2.9.2 ENGINE CHARACTERISTIC CURVE (ISUZU 4JG1) 2-14

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3. ATTACHMENT DIMENSIONS

TABLE OF CONTENTS

3.1 BOOM 3-3
3.1.1 BOOM DIMENSIONAL DRAWING 3-3
3.1.2 BOOM MAINTENANCE STANDARD 3-4
3.2 ARM 3-6
3.2.1 ARM DIMENSIONAL DRAWING 3-6
3.2.2 ARM MAINTENANCE STANDARDS 3-9
3.3 BUCKET 3-12
3.3.1 BUCKET DIMENSIONAL DRAWING 3-12
3.3.2 BUCKET DIMENSIONAL TABLE 3-12
3.3.3 DETAIL DIMENSIONAL DRAWING OF LUG SECTION 3-13
3.3.4 DETAIL DIMENSIONAL DRAWING OF BOSS SECTION 3-14
3.4 DOZER 3-15
3.4.1 DOZER DIMENSIONAL DRAWING 3-15
3.4.2 DOZER MAINTENANCE STANDARD 3-16
3.5 SWING 3-18
3.5.1 SWING BRACKET DIMENSION 3-18
3.5.2 SWING MAINTENANCE STANDARD 3-19

Book Code No. S5LF0305E01

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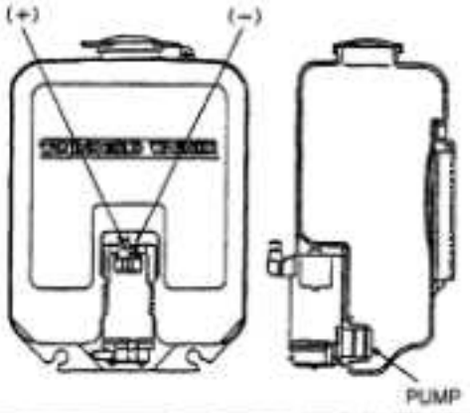
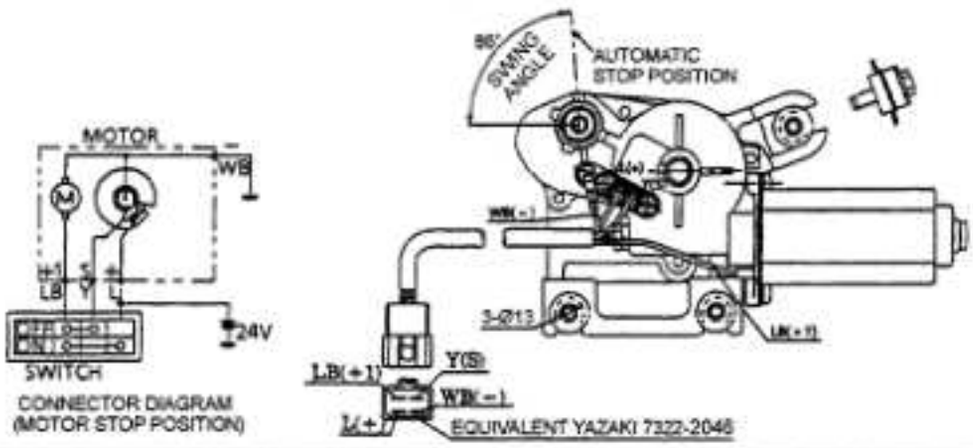
23. ELECTRICAL SYSTEM

TABLE OF CONTENTS

23.1 ELECTRICAL CIRCUIT DIAGRAM AND EQUIPMENT LIST 23-3
23.1.1 FOR KCMA, ASIA, OCE 23-3
23.2 HARNESS 23-7
23.2.1 HARNESS & CABLE LIST 23-7
23.2.2 HARNESS CONNECTION DRAWING 23-8
23.2.3 CONTROLLER ASSY 23-9
23.2.4 INSTRUMENT PANEL ASSY 23-16
23.2.5 UPPER ELECTRICAL ASSY 23-18
23.2.6 UPPER HARNESS ASSY 23-20
23.2.7 ENGINE HARNESS ASSY 23-31
23.2.8 FLOOR PLATE HARNESS ASSY 23-33
23.2.9 CAB HARNESS ASSY 23-35
23.2.10 BATTERY 23-41
23.2.11 CAB ASSY 23-42
23.2.12 MOUNTING CAB 23-44
23.2.13 MOUNTING LIGHT 23-44
23.2.14 MOUNTING BOOM LIGHT 23-44
23.2.15 MOUNTING CAB WORK LIGHT 23-45
23.2.16 AIR CONDITIONER 23-47
23.2.17 MOUNTING FUEL PUMP 23-48
23.2.18 NAME PLATE INSTAL (ELECTRIC COMPONENT FOR AUTO IDLE STOP) 23-49

Book Code No. S5LF2305E01

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Code No. Parts Name Parts No. Use Applicable Machine	Specifications	Description
M-4 Motor (tank) 24100U157F1 Window washer YT02-04001~ YT03-05432~ YT04-07001~ LF04-02001~	Rated voltage: DC 24 V Injection pressure: More than 780 cc / min Tank capacity: 1.5 L (0.4 gal) Time rated: Max.continuous 20 sec Injection nozzle: Ø1 X 2 pcs.	
M-8 Motor YT76S00001P1 For roof wiper (OPT) YT02-04001~ YT03-05432~ YT04-07001~ LF04-02001~	Maker's part No.: The item partially modified from 849100-6071 Type: Ferrite magnet type Rated voltage: DC 24 V	

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41.1 OUTLINE

Troubleshooting provides process locating for the cause of trouble in the order that trouble occurred. This manual describes how to solve the specific phenomenon systematically as possible. For troubleshooting concerning the inside of equipment, refer to troubleshooting for each manual of equipment.



41.1.1 JUDGMENT OF ACTUAL THING AT SITE

(1) Get to the site as quickly as possible.
Verify model, serial number, situation of trouble and field, and notify person of arrival time.

(2) Verify background of trouble occurred.
1) Model name and serial number.
2) Kind of attachment.
Check that the combination of attachment is proper or that the operating method is not unreasonable.
3) Operating time on the hour-meter.
4) History of trouble occurred and additional works.
5) Recurrence of past trouble, or problems on the additional works.

(3) How to diagnose trouble
1) Verify defective part.
2) Make the condition of trouble again.
3) Where defective part can not be verified, surmise causes systematically.
4) Verify reasons for surmise.
5) Report methods, procedure, and period for repairing to user.

(4) Explanation of the cause of trouble
1) Explain the cause of trouble to clients. For example, oil leak through piston is caused by flaws on the piston rod. And the method of using the machines should be explained so that the same kind of trouble not reoccur.
2) Treatment of damaged parts
The damaged parts to be claimed and returned are evidence, so they should be handled with care. Protect them from entry of water, soil, etc. into port of hydraulic unit, etc. and return them. And also use care not to flaw and damage those surfaces.



Verifying background of trouble occurred.

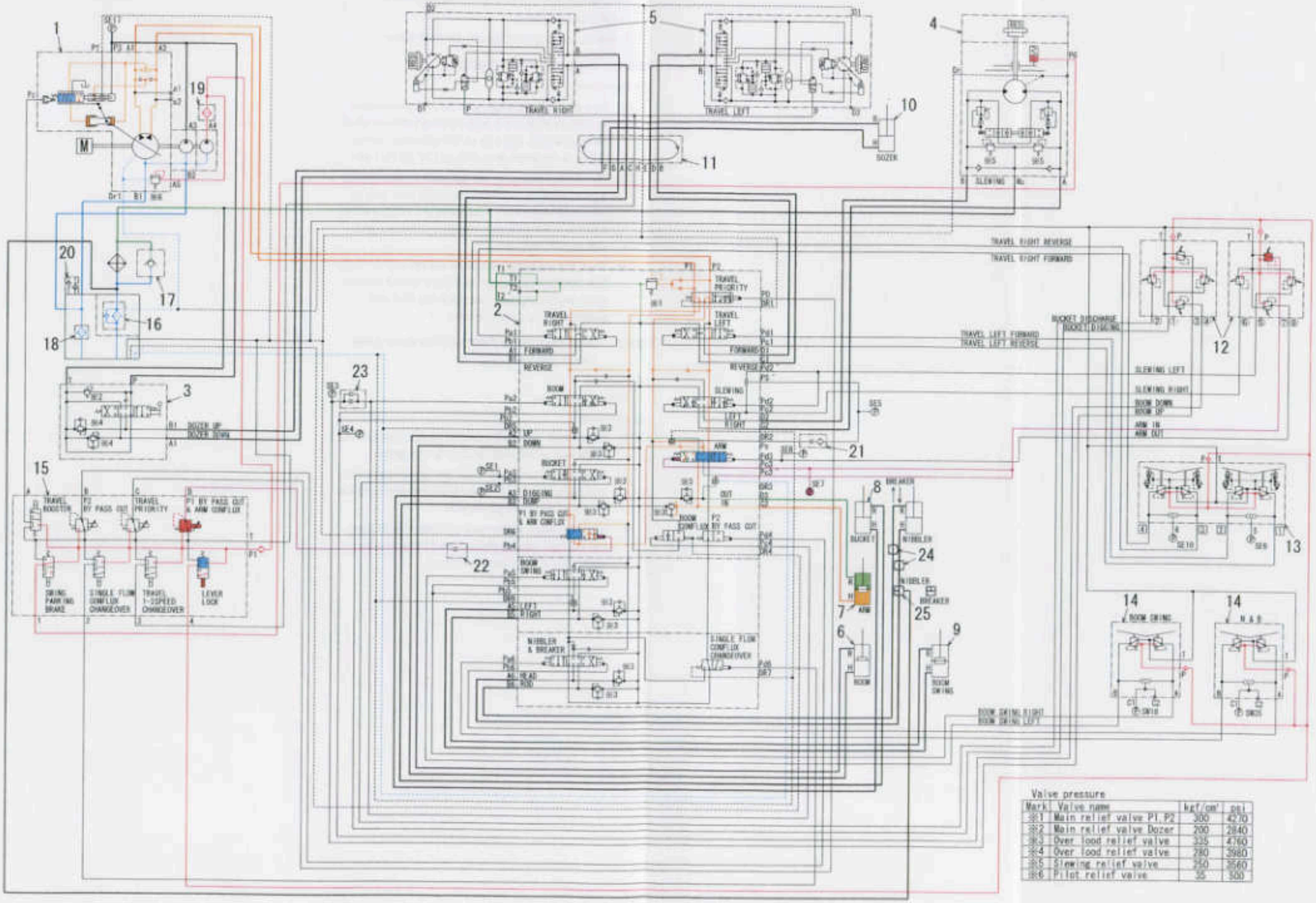


Confirm the symptoms of the trouble.



Diagnosing fail by means of troubleshooting

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Valve pressure

Mark	Valve name	kgf/cm²	psi
※1	Main relief valve P1,P2	300	4270
※2	Main relief valve Dozer	200	2840
※3	Over load relief valve	335	4760
※4	Over load relief valve	280	3980
※5	Slewing relief valve	250	3560
※6	Pilot relief valve	35	500

Arm circuit : Arm in (digging) operation, conflux function

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