KOBELCO

SERVICE MANUAL

HYDRAULIC EXCAVATOR

SK80MSR-1E

S5LF0103E-01

APPLICABLE:
LF02-01001~
LF03-01280~

Issued: November, 2003

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SHOP MANUAL SK80MSR-1E

LF02

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3.11.2-37 HARNESS : YT02C01106P1

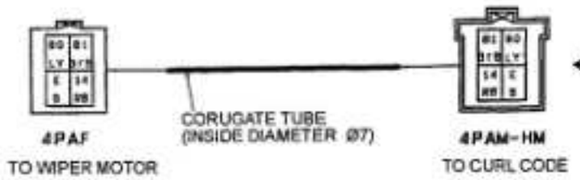


Fig. 35

3.11.61 CURL CODE HARNESS : YT02C01104P1

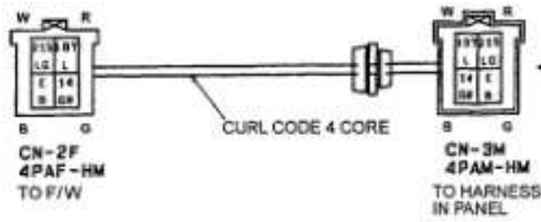


Fig. 36

3.11.64 CAB HARNESS : YT02C01216P3

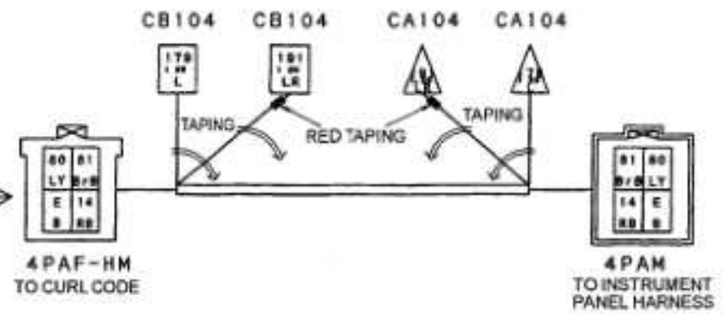


Fig. 37

CONNECTORS SELECTION TABLE

CONNECTOR NAME (PIN NUM)	MAKER	PART NO	
		HOUSING	TERMINAL
4PAF-HM	SUMITOMO	6090-1011	6240-4422
4PAF	YAZAKI	7123-2446	7116-2090
CA104	YAZAKI	7120-8012	7113-1020-02
CB104	YAZAKI	7120-1010	7115-1050-02
2PAF	YAZAKI	7123-2228	7116-2090
2PAM	YAZAKI	7122-2228	7114-2020
STRAIGHT FEMALE	YAZAKI	7120-3011	7116-2270

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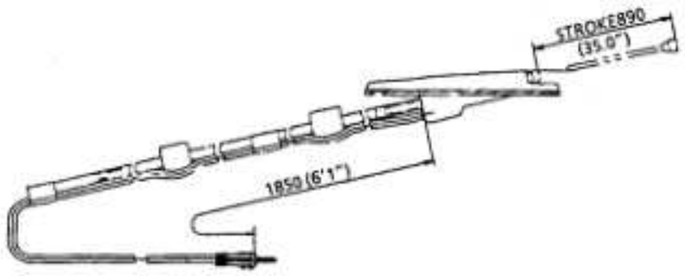


Fig. 38

3.11.189 ROOM LAMP HARNESS : YT02C01513P1

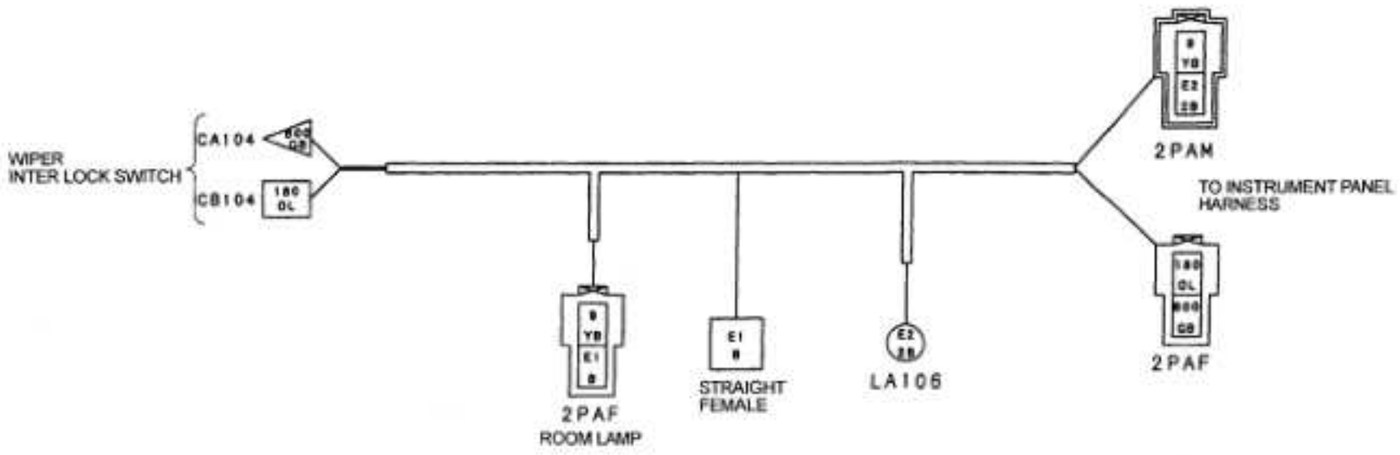


Fig.39

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5. COUNTERWEIGHT

5.1 PREPARATION FOR REMOVAL

(1) Removing bonnet assy.
Remove bonnet on engine. (See Fig. 6-7.)

(2) Remove cover (3) (See GUARD Fig. 6-8.)

(3) Preparing slinging jig
Remove C7 plate, and attach weight slinging jig (See Chapter : Tools.) to counterweight.
: 36mm

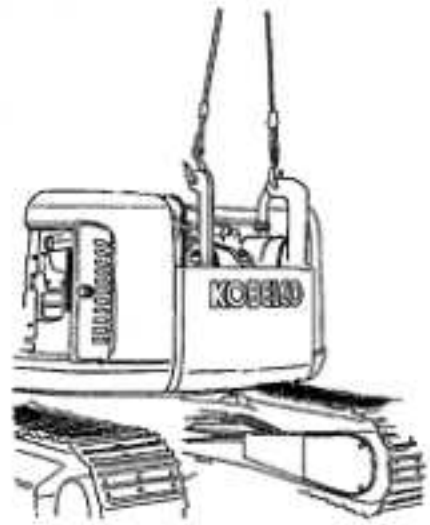


Fig. 5-1 Lifting up counter weight

5.2 REMOVAL

(1) Lifting up counterweight temporarily
Hook wire rope to slinging jig, and lift it and stretch wire rope to the degree where it is providing no slack temporarily.
Weight of counterweight ;
Approx. 820kg (1800 lb)
Wire more than Ø10 (0.394") ;
1.5m (4ft 11in)×2 pcs.

(2) Removing counterweight
1) Remove 1 capscrew (C1) M20×75.

2) Remove 2 capscrews (C3) M20×135.
: 30mm

3) Remove shim.

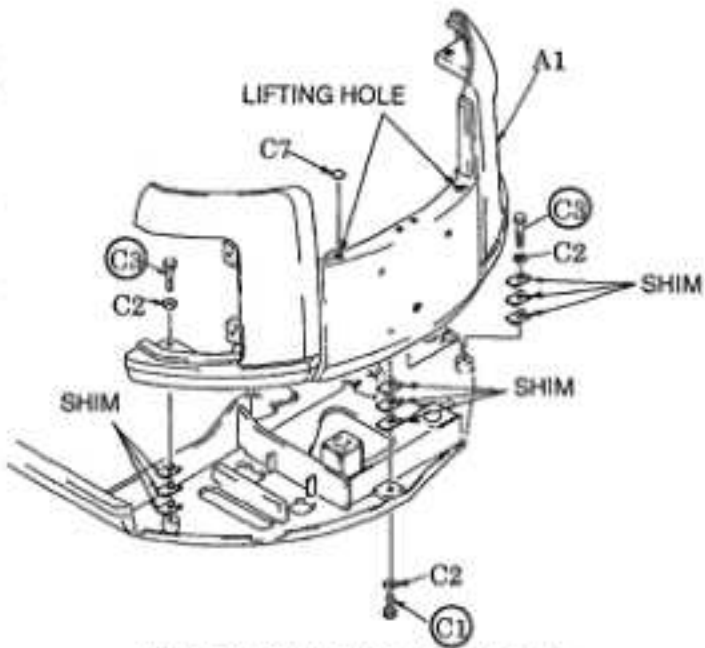


Fig. 5-2 Removing counterweight

5.3 INSTALLATION

(1) Install counterweight in the reverse procedure of removing.

(2) Install shim as it was.

(3) Slinging counterweight
Check that the attaching 3 bolts can be screwed in by hand.

(4) Apply Loctite #262 on capscrews (C1, C3), and tighten them with washers (C2).
: 30mm
Tightening torque : 50kgf-m (361 lbf-ft)

(5) Remove slinging tools, and attach plates (C7).


Fig. 5-3 Attaching bolts for counterweight

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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 early as possible. For troubleshooting concerning the inside of equipment, refer to troubleshooting for each manual of equipment.

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 by 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 parts 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 does 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, soils, etc. into port of hydraulic unit, etc. and return them. And also use care not to flaw and damage those surfaces.



YR-876

Attending the field to verify actual thing.



YR-876

Verifying background of trouble occurred.



YT-887

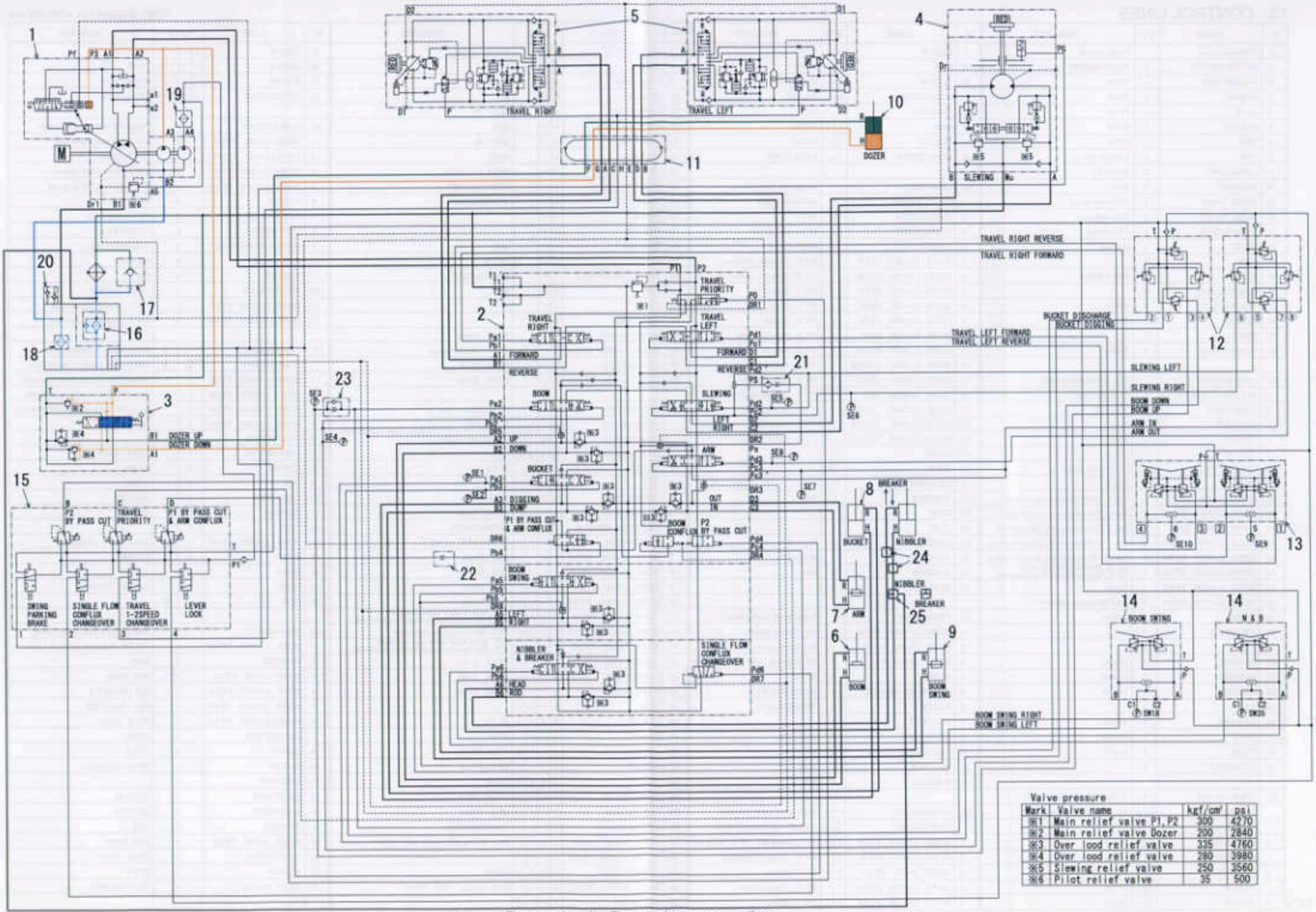
Confirm the symptoms of the trouble.



YR-878

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

Dozer circuit : Dozer down operation

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