KOBELCO

SERVICE MANUAL

Compact Hydraulic Excavator

SK27SR-5 Acera

S5PV0021E02

Issued August 2010

APPLICABLE:
SK27SR-5 . . . . . PV13 - and higher

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SK27SR-5 ACERA COMPACT HYDRAULIC EXCAVATOR

PIN PV13 - and higher

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The following pages are the collation of the contents pages from each section and chapter of the SK27SR-5 Service Manual. Complete Service part # S5PV0021E02.

The sections used through out all Kobelco product Service manuals may not be used for each product. Each Service manual will be made up of one or several books. Each book will be labeled as to which sections are in the overall Service manual and which sections are in each book.

The sections listed above are the sections utilized for the Acera Compact Hydraulic Excavator.

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1 - SPECIFICATIONS

SECTION 1 - OUTLINE

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BOOK 1 - 84374218

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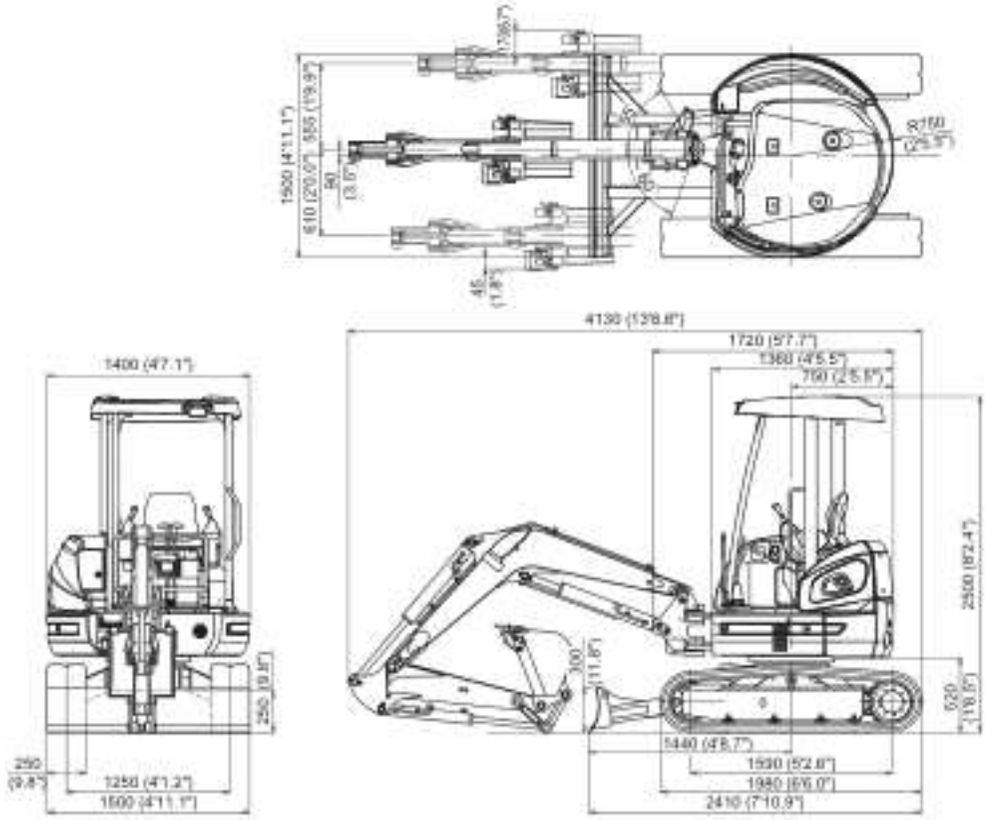
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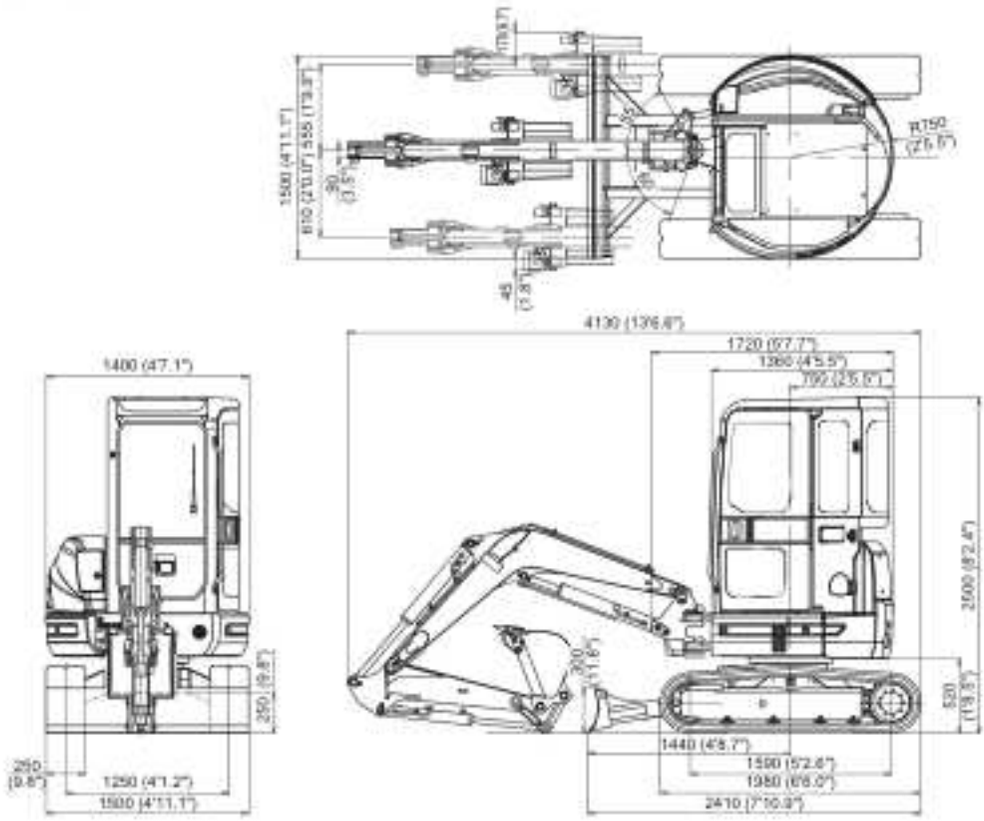
2.2 MACHINE DIMENSIONS

(1) SK27SR-5 (CANOPY)

Unit: mm (ft-in)



(2) SK27SR-5 (CAB)



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23.2.2 HARNESS & CABLE LIST

Code	Name	Part No.	Remarks
H-1	Inst - Main Harness	PM14E01038P2	
H-2	Proportional N&B Harness	PH14E01041P2	
H-3	Engine Harness	PM16E01026P2	
H-4	Starter Cable (+)	PM13E01102P1	
H-5	Battery Ground Cable (-)	PM13E01103P1	
H-6	Engine Ground Cable	PM13E01081D1	
H-7	Boom Harness	PM15E01015P1	
H-8	Key Switch Harness	PW50E01002P1	
H-9	Canopy Work Light Harness	PW11E01026D4	
H-10	Boom Work Light Extension Harness	PW14E01034D1	
H-11	Connection Harness with Cab	PW14E01041P1	(OPT.)
H-12	Cab Work Light Harness	PW80E01003D1	(OPT.)
H-13	Travel Alarm Harness	PW13E01069P1	(OPT.)
H-14	Alarm Extension Harness	PM13E01095P1	(OPT.)
H-15	Heater Harness	PW13E01068P1	(OPT)
H-16	Air Filter Restriction SW. Harness	PW11E01044D3	

Note

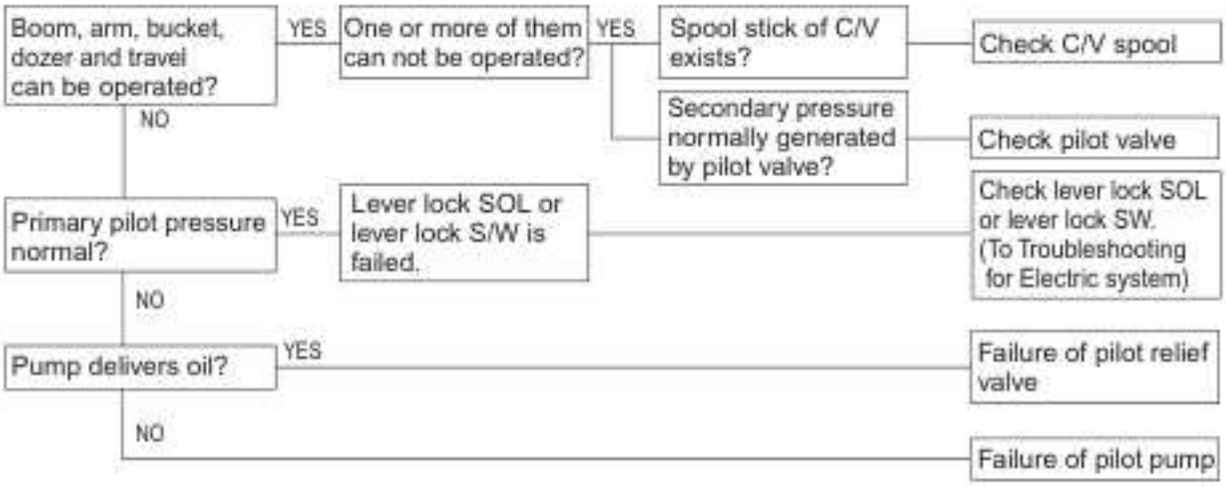
The part number may be changed owing to modification, use them only for reference.

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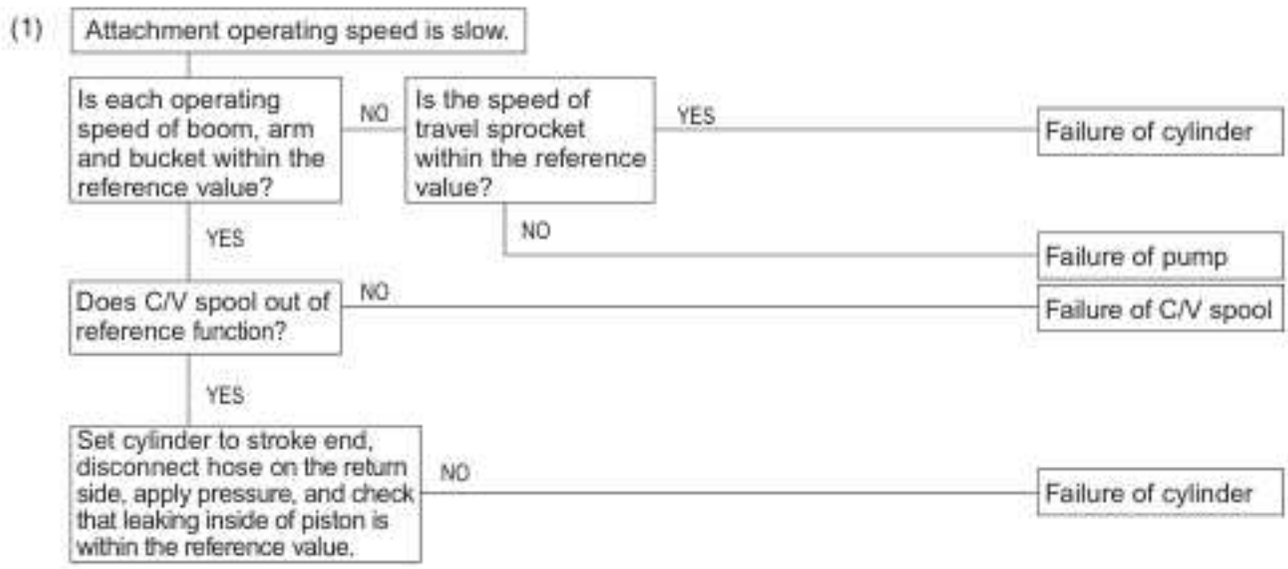
42.3 TROUBLESHOOTING

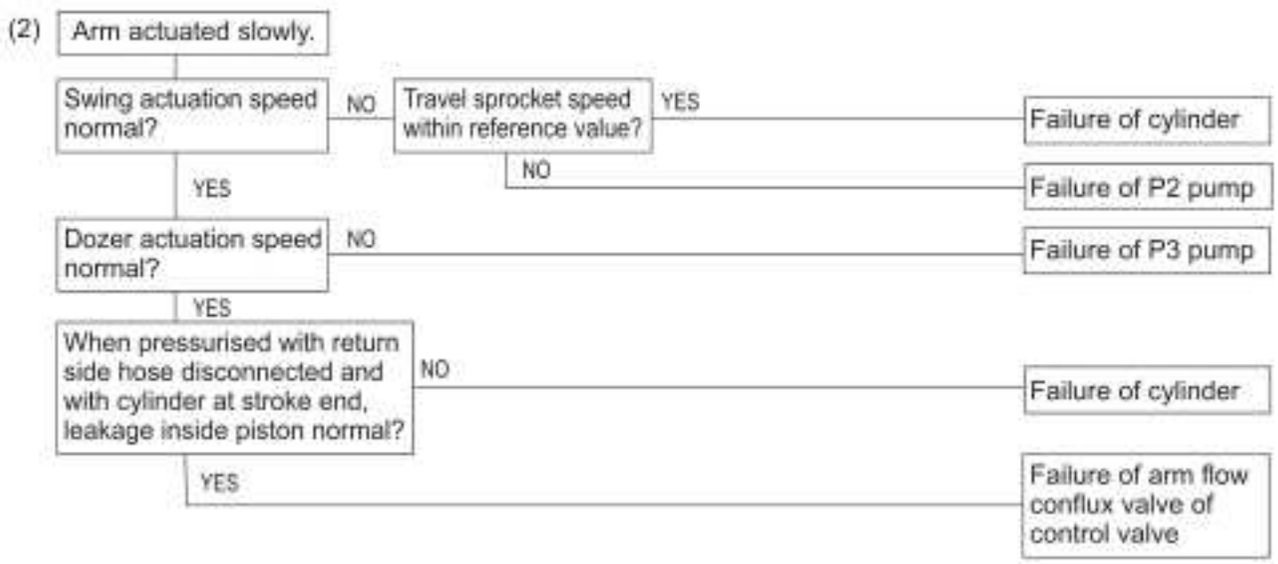
42.3.1 ATTACHMENT

42.3.1.1 ATTACHMENT OPERATIONAL FAILURE (Excluding swing operations)



42.3.1.2 ATTACHMENT SPEED IS SLOW





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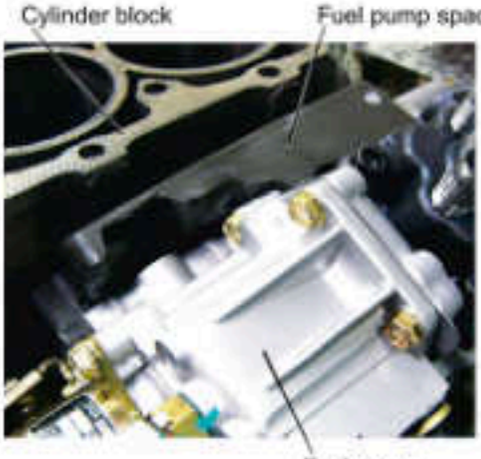
Point 3

[Disassemble]

There is an acoustic material part to name as fuel pump spacer between the fuel pump and the cylinder block. Loosen fuel pump installation bolts with a closed wrench when disassembling a fuel pump.

[NOTICE]

An intake manifold may obstruct the disassembly of the fuel pump by the engine model. Remove the fuel pump after removing the intake manifold first.



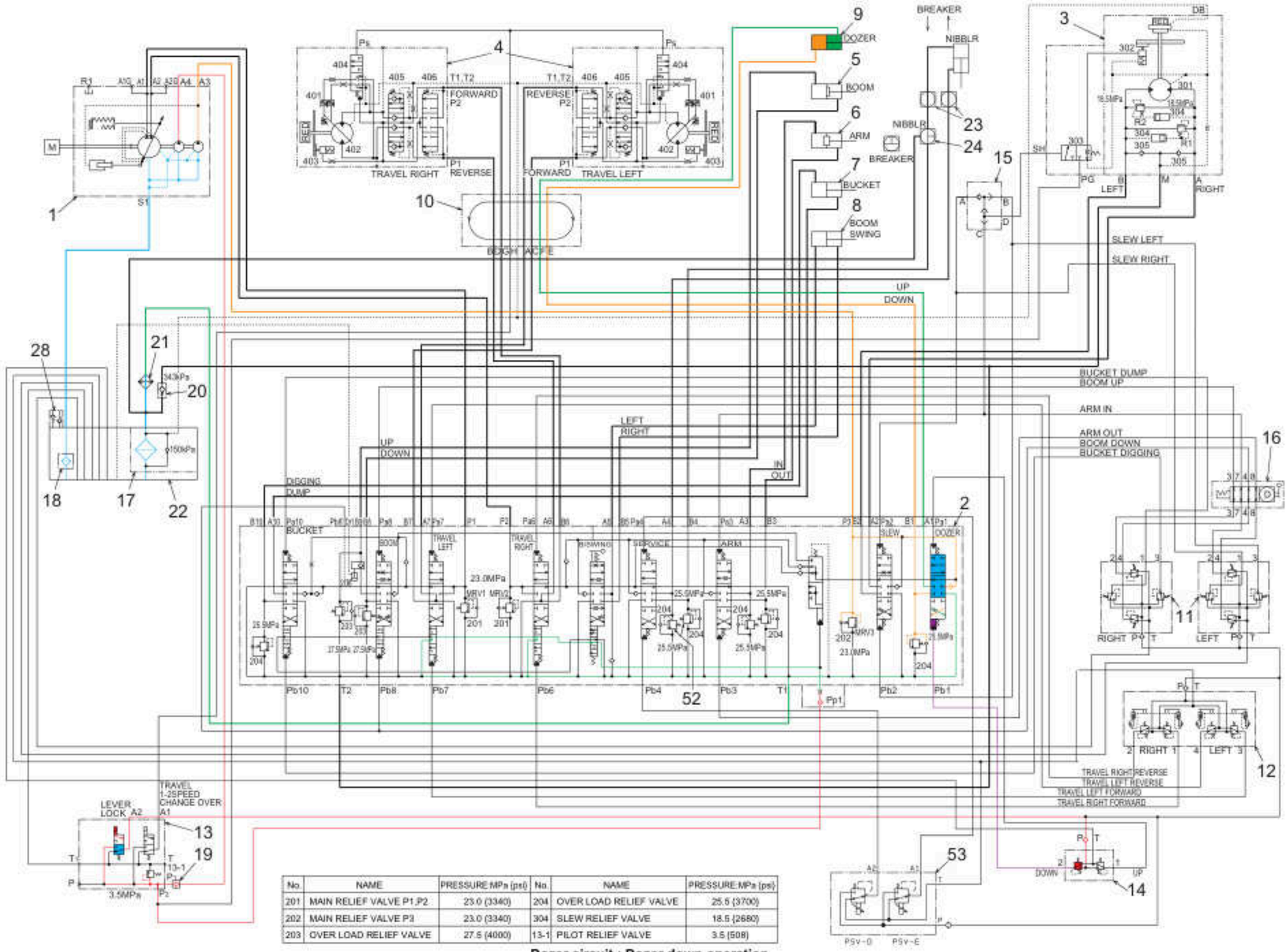


Disassembling a fuel pump

[Reassemble]

When installing a fuel pump on the gear case, put a fuel pump spacer between the cylinder blocks, and install it .

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No.	NAME	PRESSURE:MPa {psi}	No.	NAME	PRESSURE:MPa {psi}
201	MAIN RELIEF VALVE P1,P2	23.0 {3340}	204	OVER LOAD RELIEF VALVE	25.5 {3700}
202	MAIN RELIEF VALVE P3	23.0 {3340}	304	SLEW RELIEF VALVE	18.5 {2680}
203	OVER LOAD RELIEF VALVE	27.5 {4000}	13-1	PILOT RELIEF VALVE	3.5 {508}

Dozer circuit : Dozer down operation

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