KOBELCO

SERVICE MANUAL

HYDRAULIC EXCAVATOR

SK30SR-2

SK35SR-2

S5PW0102E 02

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: PW10-22001~
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Table 1-3

Unit : mm (in)

Pos.	Item		Standard dimensions		Clearance X reconditioned with shim (total of both sides)			Pin length		Remedy
			No.	Dimensions	Standard value	Standard value for repair	Serviceability limit	No.	Dimensions	
A	Boom foot	Boom	L1	$178^{-0.2}_{-0.4}$ ($7.008^{-0.008}_{-0.016}$)	0.1~0.5	1.0 (0.039)	1.5 (0.059)	ø1	301 (11.85)	Reconditioned with shim
		Swing bracket		$178^{+0.3}_{0}$ ($7.008^{+0.012}_{0}$)						
B	Boom cylinder (Head side)	Boom cylinder	L2	$60^{0}_{-0.5}$ ($2.362^{0}_{-0.020}$)				ø2	196 (7.72)	
		Swing bracket		$61^{+2.0}_{0}$ ($2.402^{+0.079}_{0}$)						
C	Boom cylinder (Rod side)	Boom cylinder	L3	$60^{0}_{-0.5}$ ($2.362^{0}_{-0.020}$)	0.5~0.9 (0.020~0.035)			ø3	164 (6.46)	
		Boom		$61^{+1.0}_{0}$ ($2.402^{+0.039}_{0}$)						
D	Arm cylinder (Head side)	Arm cylinder	L4	$55^{0}_{-0.5}$ ($2.165^{0}_{-0.020}$)	0.1~0.5 (0.004~0.020)			ø4	164 (6.46)	
		Boom		$56^{+1.0}_{0}$ ($2.205^{+0.039}_{0}$)						

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Table 1-4

Unit : mm (in)

Pos.	Item		Standard dimensions		Clearance X reconditioned with shim (total of both sides)			Pin length		Remedy
			No.	Dimensions	Standard value	Standard value for repair	Serviceability limit	No.	Dimensions	
A	Boom foot	Boom	L1	$178^{-0.2}_{-0.4}$ ($7.008^{-0.008}_{-0.016}$)	0.1~0.5	1.0 (0.039)	1.5 (0.059)	ø1	301 (11.85)	Reconditioned with shim
		Swing bracket		$178^{+0.3}_{0}$ ($7.008^{+0.012}_{0}$)						
B	Boom cylinder (Head side)	Boom cylinder	L2	$60^{0}_{-0.5}$ ($2.362^{0}_{-0.020}$)				ø2	196 (7.72)	
		Swing bracket		$61^{+2.0}_{0}$ ($2.402^{+0.079}_{0}$)						
C	Boom cylinder (Rod side)	Boom cylinder	L3	$60^{0}_{-0.5}$ ($2.362^{0}_{-0.020}$)	0.5~0.9 (0.020~0.035)			ø3	164 (6.46)	
		Boom		$61^{+1.0}_{0}$ ($2.402^{+0.039}_{0}$)						
D	Arm cylinder (Head side)	Arm cylinder	L4	$60^{0}_{-0.5}$ ($2.362^{0}_{-0.020}$)	0.1~0.5 (0.004~0.020)			ø4	164 (6.46)	
		Boom		$61^{+1.0}_{0}$ ($2.402^{+0.039}_{0}$)						

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ELECTRICAL SYSTEM

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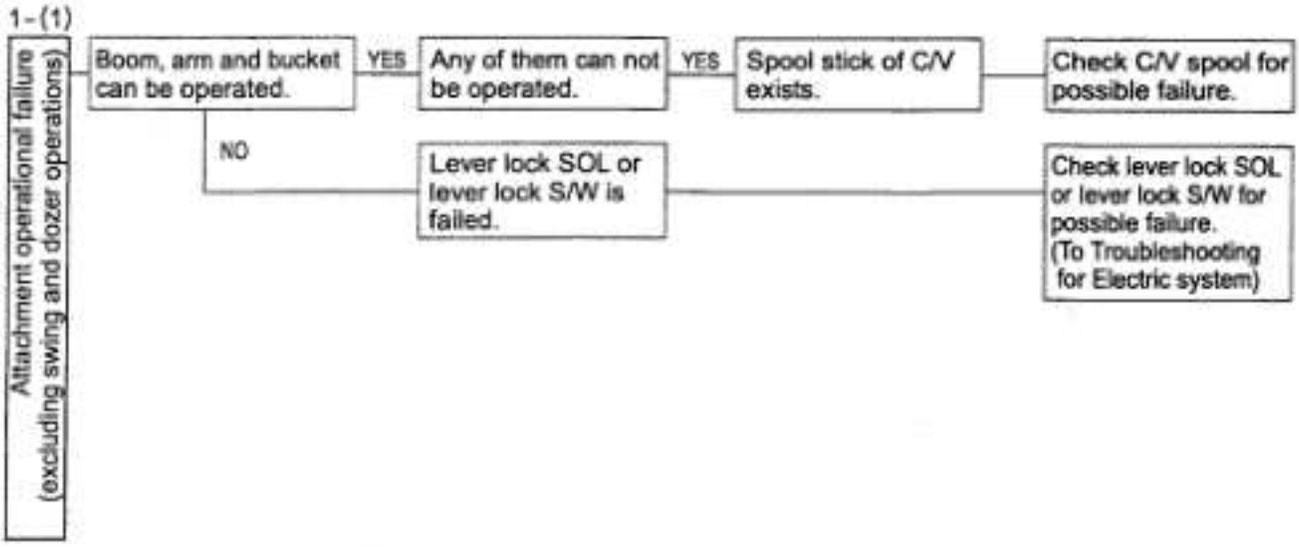
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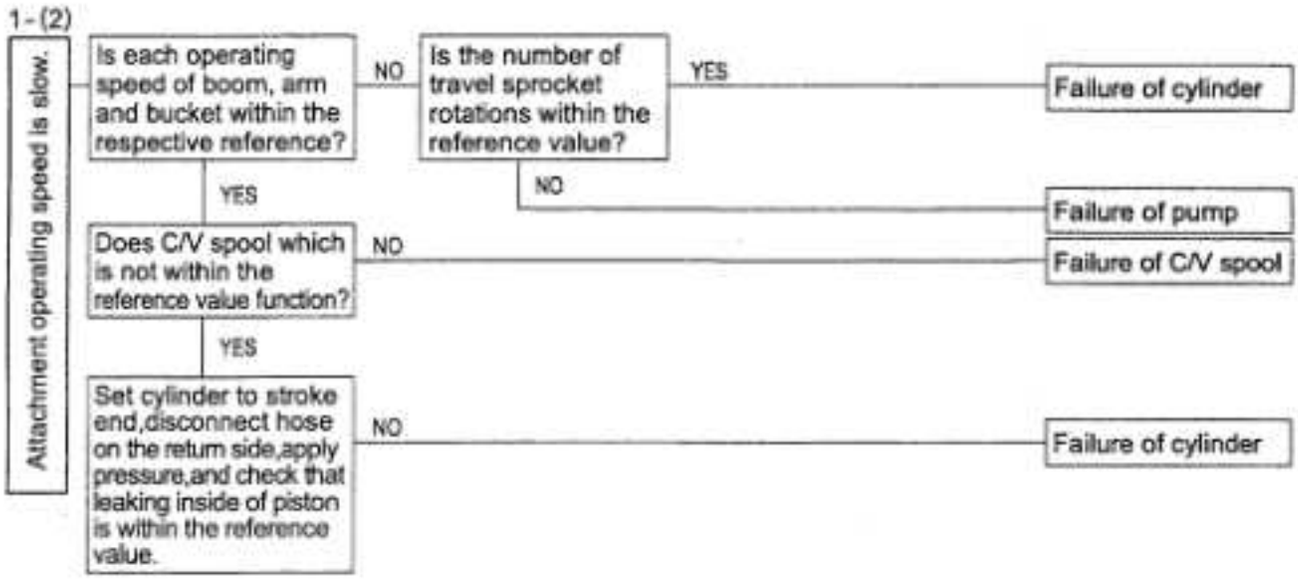
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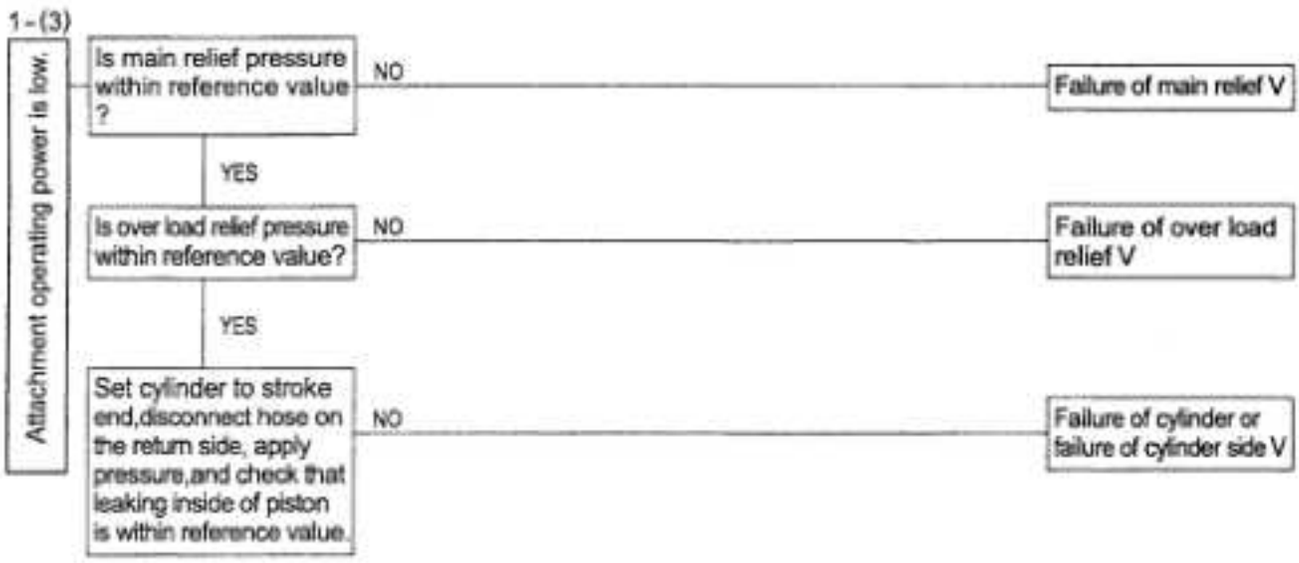
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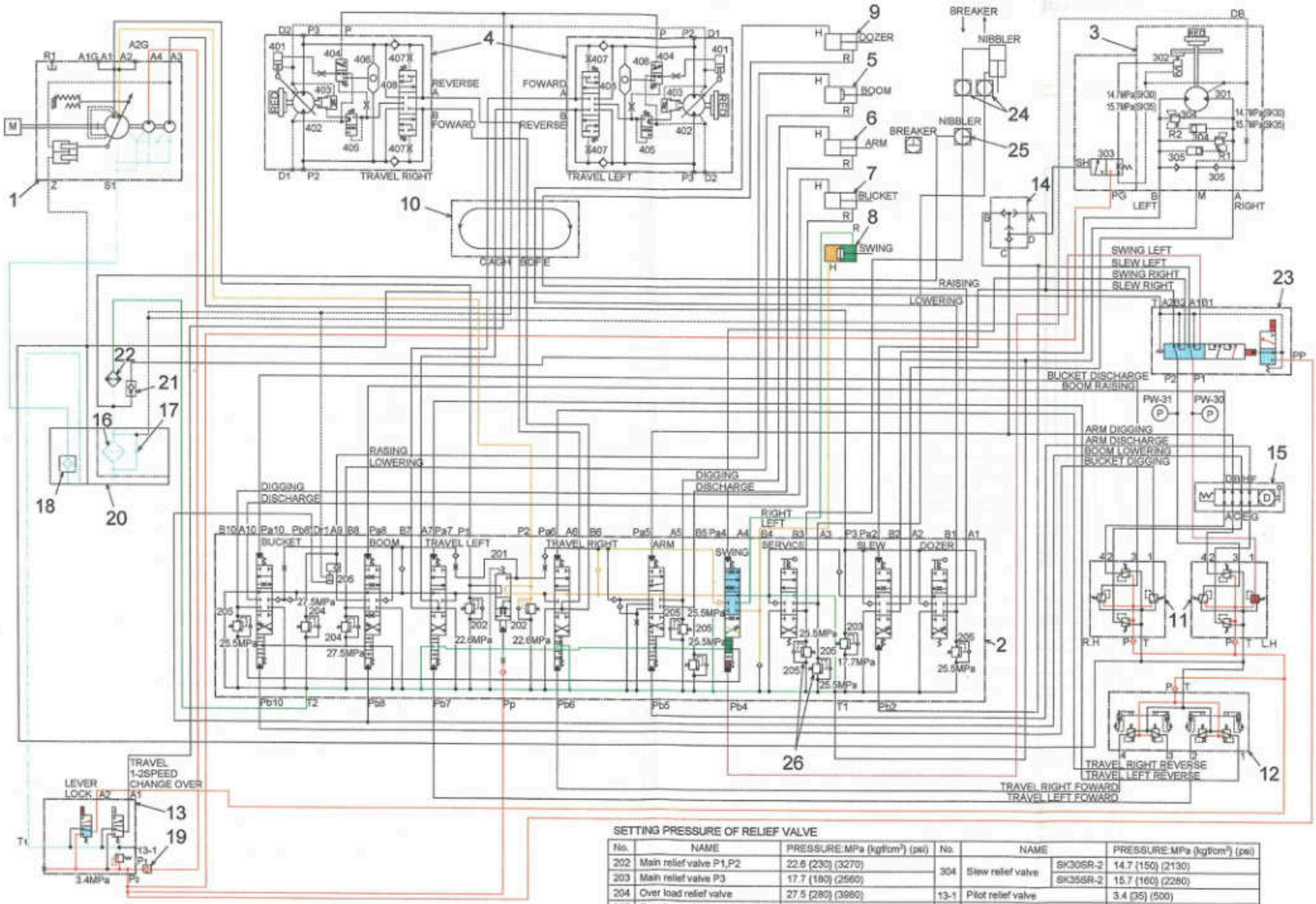


Fig.14 Swing circuit : Swing (left) operation [USA]

SETTING PRESSURE OF RELIEF VALVE

No.	NAME	PRESSURE:MPa {kgf/cm²} (psi)	No.	NAME		PRESSURE:MPa {kgf/cm²} (psi)
202	Main relief valve P1,P2	22.6 {230} (3270)	304	Slew relief valve	SK30SR-2	14.7 {150} (2130)
203	Main relief valve P3	17.7 {180} (2560)			SK35SR-2	15.7 {160} (2280)
204	Over load relief valve	27.5 {280} (3980)	13-1	Pilot relief valve		3.4 {35} (500)
205	Over load relief valve	25.5 {260} (3700)				

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