KOBELCO

SERVICE MANUAL

EXCAVATOR

SK200-2
SK200LC-2

MOUNTING BREAKER
MOUNTING NIBBLER AND BREAKER

SK200-2 YN-018001~
SK200LC-2 YQ-002301~

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(2) When the Breaker is Used

When the breaker is being used, the selector valves (26), (27), (29) are switched to the position shown in Fig. 4.

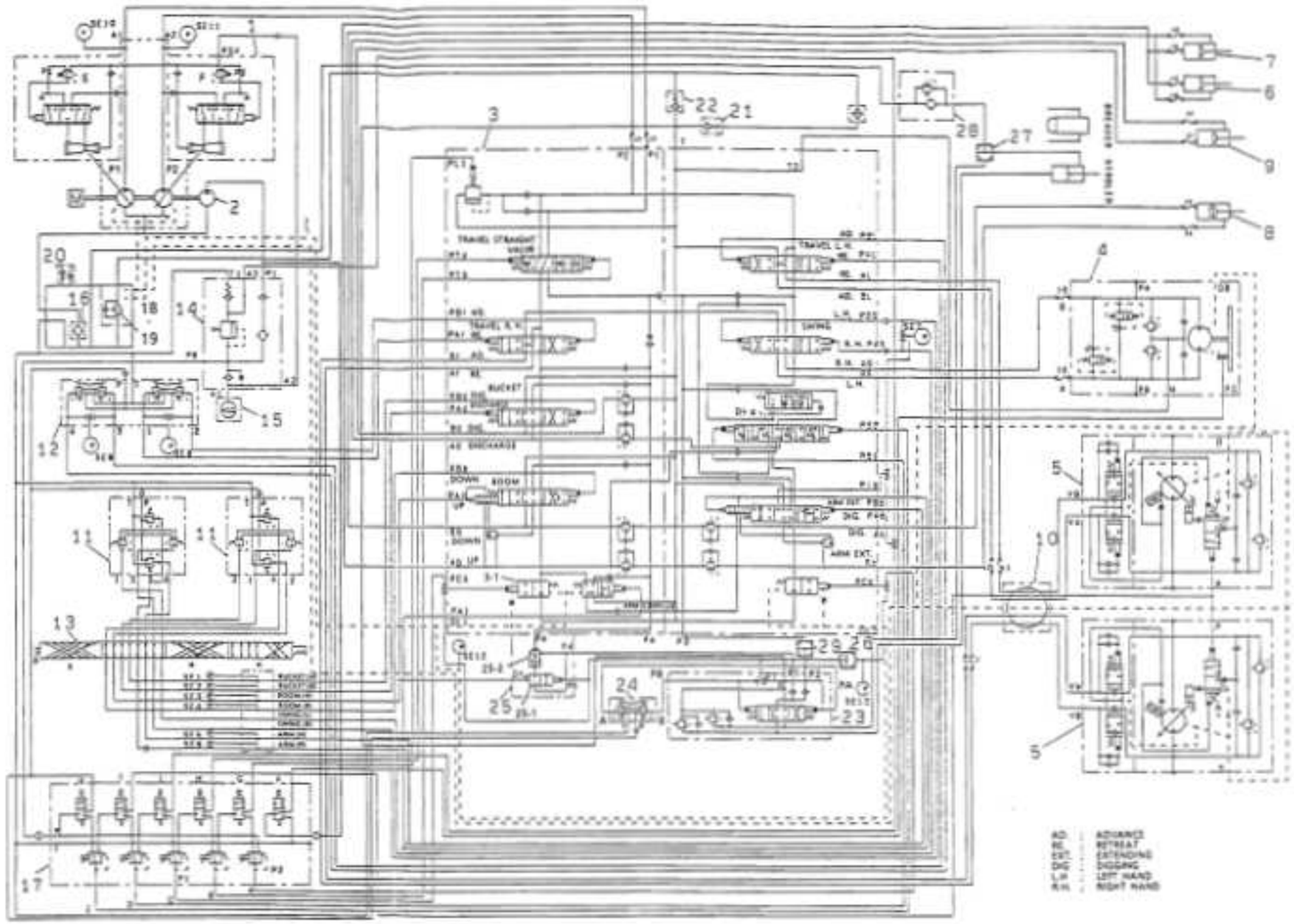
If the pedal is pressed by the tiptoe, the secondary proportionate pilot pressure coming out of the port (B) of the pilot valve (24) changes over the spool of the control valve (23). At the same time the pressure moves the spool (25-1) of the option valve (25), opens the plunger (25-2), and closes the bypass cut valve (3-1) of the control valve (3).

Consequently, the pressure oil discharged by the pump A1 enters port P1 of the control valve (3), passes through the option valve (25), enters port P1 of the control valve (23), and is delivered to the breaker.

The oil which returns from the breaker returns directly to the tank past the line filter (28).

When the breaker and boom raising motions are operated at the same time, part of the secondary proportionate pilot pressure closes the option valve (25). The result is that full flow of the oil discharged by pump P1 is delivered to the boom cylinder and the breaker does not operate.

Meantime, an output voltage signal from the pressure sensor (SE12) is sent to the proportionate valve E of the pump via the controller by which a flow according to pedal action is discharged.



NOTE : ※ mark on the device number represents one used exclusively for the nibbler-attached machines.

No.	NAME	TYPE	No.	NAME	TYPE	No.	NAME	TYPE	No.	NAME	TYPE
1	PUMP	K3V112BDT-120R	9	BUCKET CYLINDER	CA115-104083BF	17	PROPORTIONAL VALVE BLOCK	VBY-131C	※25	OPTION VALVE	VBY-108
2	GEAR PUMP	KP1009	10	SWIVEL JOINT	24100J15939F1	18	RELIEF VALVE	Y-1506	※26	SELECTOR VALVE	
3	CONTROL VALVE	KMX15Y/B33001	11	OPERATING REMOTE CONTROLLER	TH40K1154	19	RETURN FILTER	Y-419100	※27	SELECTOR VALVE	
4	SWING MOTOR	M2X120B	12	TRAVELING REMOTE CONTROLLER	06438-00010	20	BREATHER	2446R260F1	※28	LINE FILTER	48227-0000
5	TRAVEL MOTOR	M2V150/90Z	13	MULTI CHANGE VALVE	K16AR8-11	21	BY-PASS CHECK	Y-436800	※29	SELECTOR VALVE	
6	BOOM CYLINDER (RH)	CA120-1210838F	14	MANIFOLD BLOCK	TMCD-039B	22	BY-PASS CHECK	Y-2399			
7	BOOM CYLINDER (LH)	CA120-1210838F	15	ACCUMULATOR	MU70-300	※23	CONTROL VALVE	KMX19A/01025			
8	ARM CYLINDER	CA135-1490838F	16	SUCTION STRAINER	Y-421200	※24	OPERATING REMOTE CONTROLLER (N/B)	07037-0000			

Fig. 4 Hydraulic circuit for nibbler & breaker
(In the case of the nibbler)

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