CRAWLER EXCAVATOR

SERVICE MANUAL

R360LC-3

HYUNDAI

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4. WEIGHT

Item	kg	lb
Upperstructure assembly	14060	31000
Main frame weld assembly	7560	16670
Engine assembly	950	2090
Main pump assembly	190	420
Main control valve assembly	230	510
Swing motor assembly	360	790
Hydraulic oil tank assembly	280	620
Fuel tank assembly	160	350
Counterweight	6500	14330
Cab assembly	300	660
Undercarriage assembly	2915	6430
Track frame weld assembly	14885	32820
Swing bearing	555	1220
Travel motor assembly	410	900
Turning joint	75	170
Track recoil spring and idler	450	990
Idler	180	400
Carrier roller	37	82
Track roller	80	180
Track-chain assembly (standard triple grouser shoe)	2390	5270
Front attachment assembly (6.5 m boom, 3.2 m arm, 1.4 m^3(CECE heaped) bucket)	7110	15670
6.5 m boom assembly	2530	5580
3.2 m arm assembly	1160	2560
1.4 m^3(CECE heaped) bucket	1250	2760
Boom cylinder assembly	325	720
Arm cylinder assembly	485	1070
Bucket cylinder assembly	295	650
Bucket control rod assembly	140	310

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7) REMOTE CONTROL VALVE

Item		Specification
Type		Pressure reducing type
Operating pressure	minimum	5 kg/cm² (71 psi)
	maximum	20 kg/cm² (284 psi)
Single operation stroke	lever	61 mm (2.4 in)
	pedal	123 mm (4.8 in)

8) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	ø 160 × ø 105 × 1500 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	ø 170 × ø 120 × 1750 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	ø 150 × ø 105 × 1295 mm
	Cushion	Extend only

9) SHOE

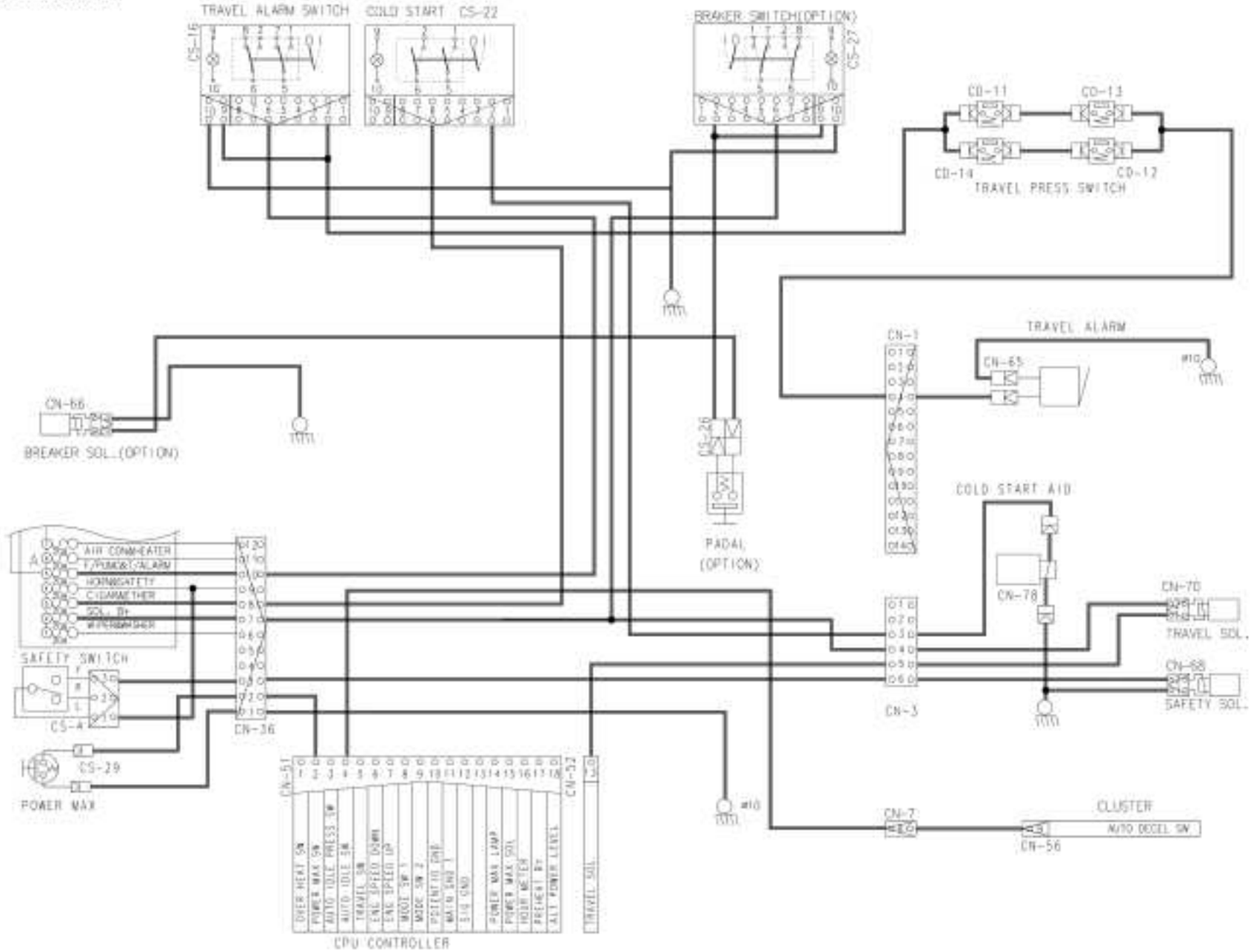
Item	Width	Ground pressure	Link quantity	Overall width
Standard	600 mm (24")	0.64 kg/cm² (9.1 psi)	51	3340 mm (11' 1")
Option	700 mm (28")	0.56 kg/cm² (8.0 psi)	51	3440 mm (11' 3")
	800 mm (32")	0.50 kg/cm² (7.1 psi)	51	3540 mm (11' 7")

10) BUCKET

Item	Capacity		Tooth quantity	Width	
	PCSA heaped	CECE heaped		Without side cutter	With side cutter
Standard	1.62 m³ (2.12 yd³)	1.4 m³ (1.83 yd³)	5	1450 mm (57")	1580 mm (62")
Option	1.15 m³ (1.51 yd³)	1.0 m³ (1.30 yd³)	4	1100 mm (43")	1230 mm (48")
	1.86 m³ (2.44 yd³)	1.6 m³ (2.09 yd³)	5	1640 mm (65")	1770 mm (70")
	2.10 m³ (2.75 yd³)	1.8 m³ (2.35 yd³)	6	1820 mm (72")	1950 mm (77")
	2.32 m³ (3.04 yd³)	2.0 m³ (2.62 yd³)	6	2000 mm (79")	—

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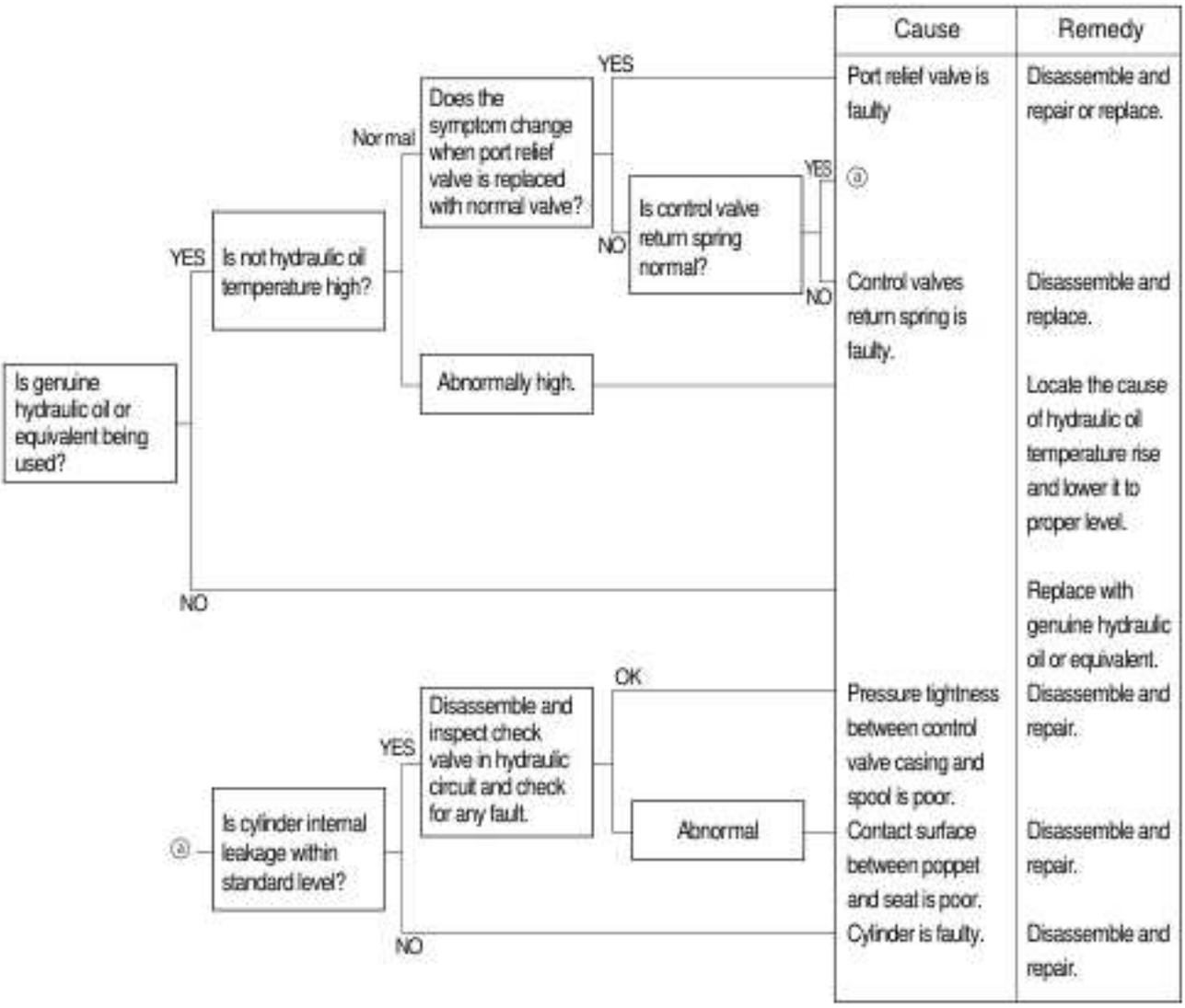
ELECTRICAL CIRCUIT FOR HYDRAULIC



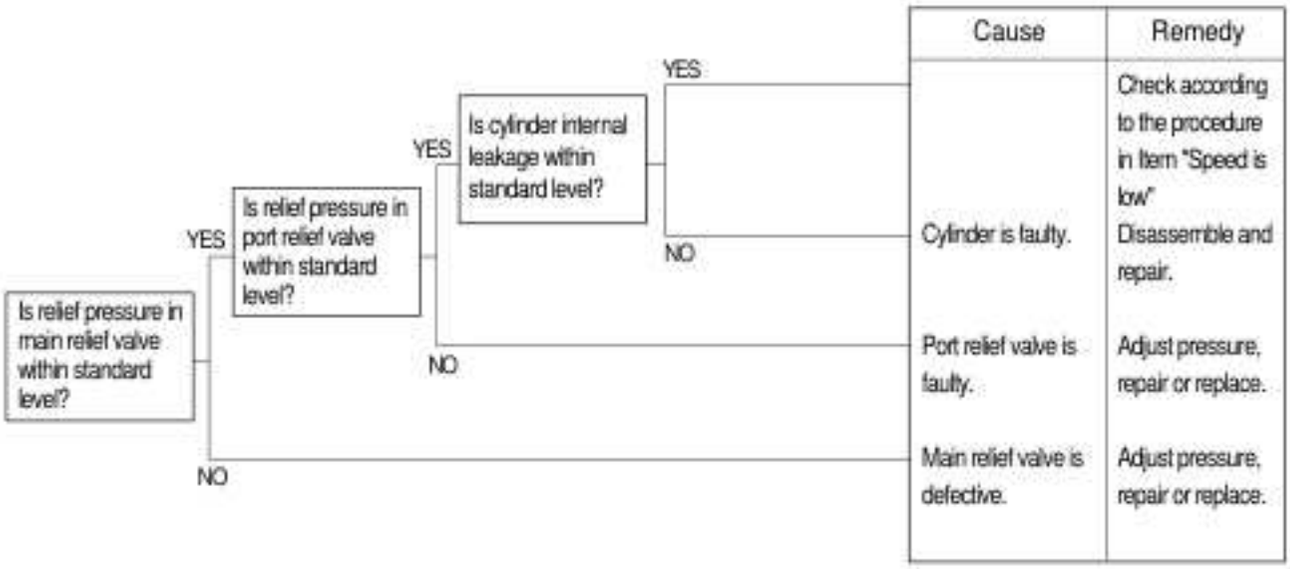
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3) BOOM, ARM OR BUCKET CYLINDER EXTENDS OR CONTRACTS ITSELF AND ATTACHMENT FALLS

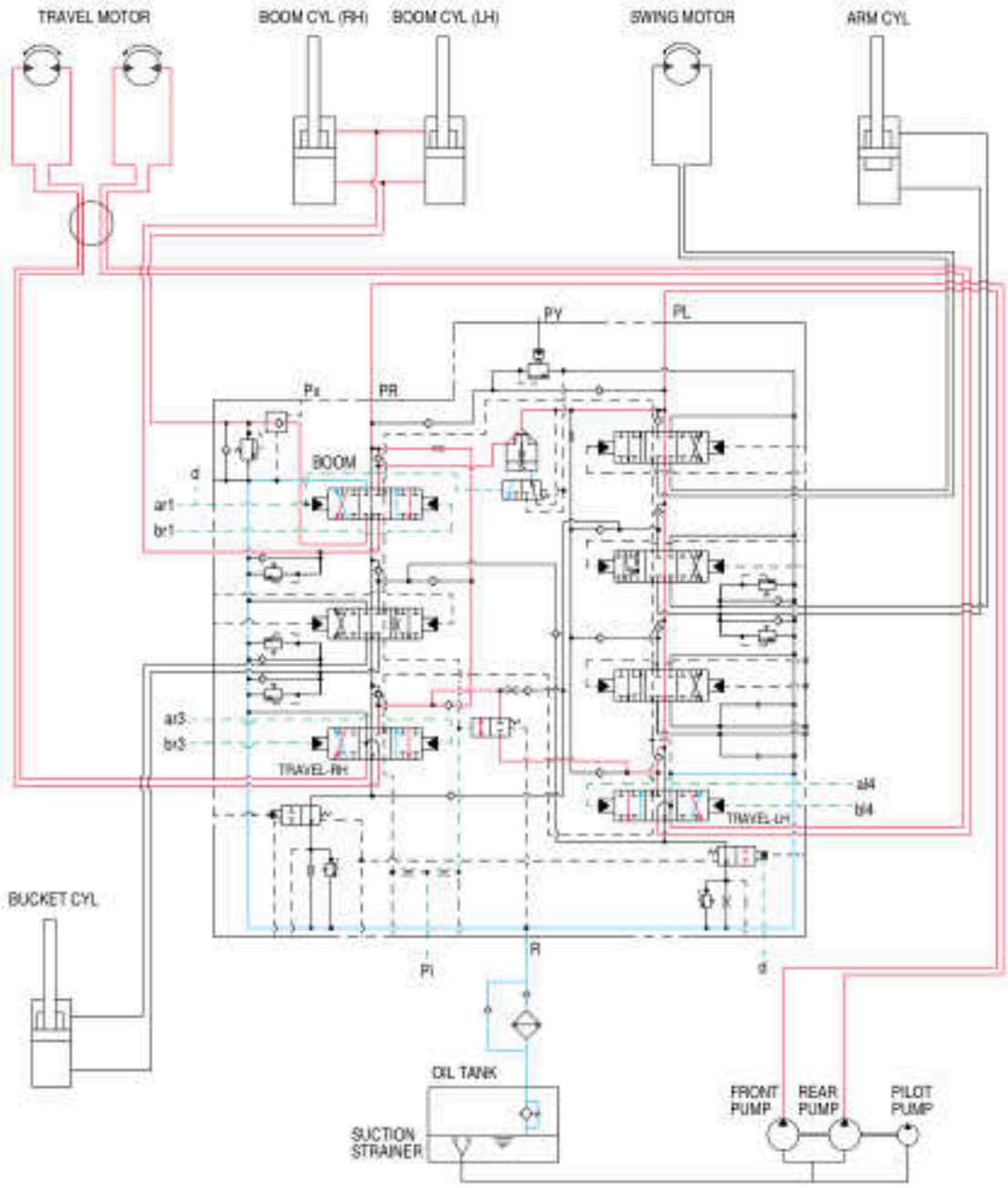


4) BOOM, ARM OR BUCKET POWER IS WEAK



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7. COMBINED BOOM AND TRAVEL OPERATION

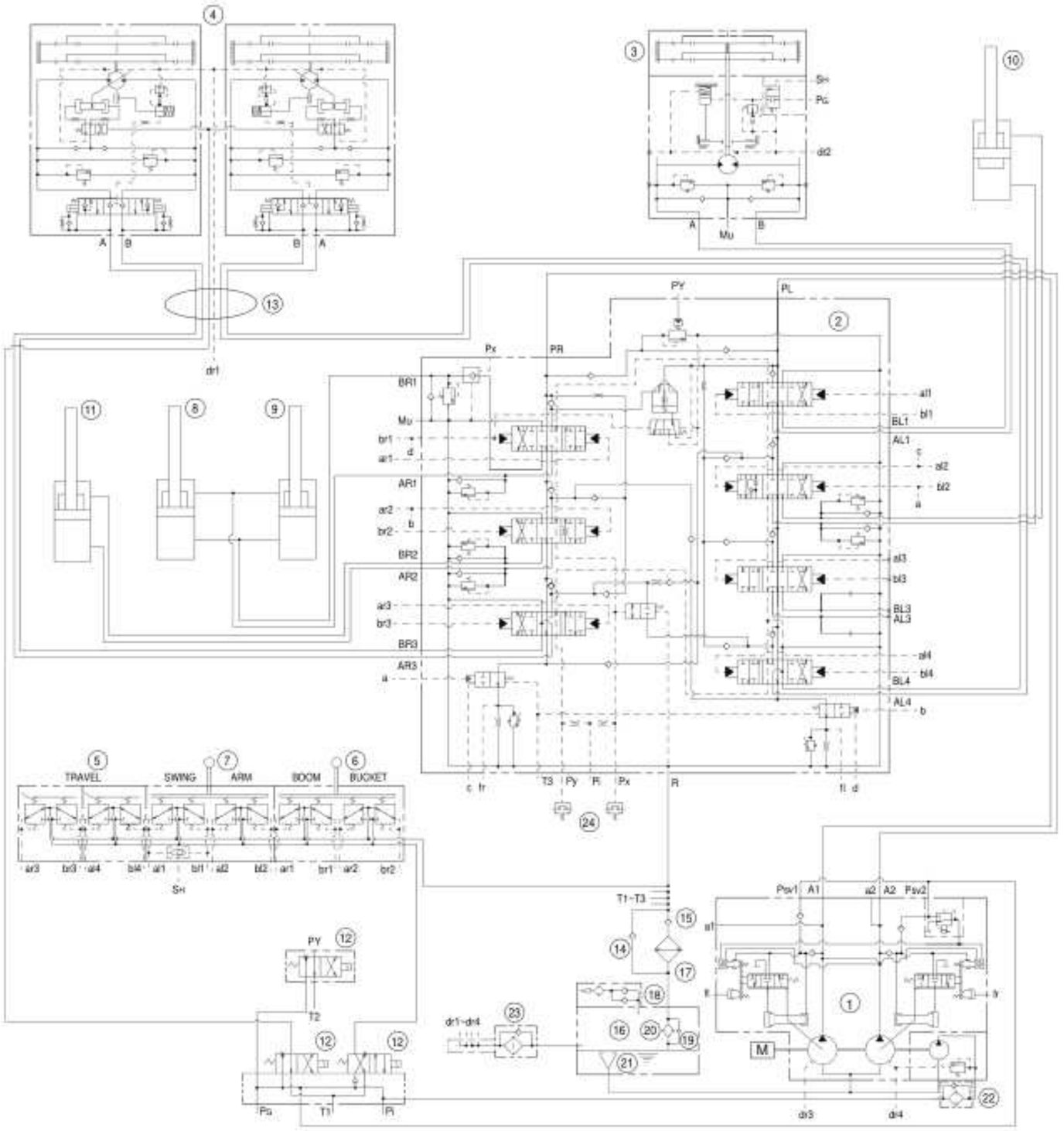


When the boom and travel (RH, LH) functions are operated, the boom and travel (RH, LH) spools and the select valve changed. The oil flows from rear pump through the travel (RH, LH) section of the control valve to the right and left travel motor.

And the oil flows from rear pump through boom section of the left control valve to the boom cylinder. Because of check valve the pressure in the travel circuit can be high while the boom pressure is low. When the travel circuit pressure drops lower than boom pressure, as when traveling downhill, boom priority and smoothness are maintained because of the orifice. In either case, the machine will continue to travel straight.

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GROUP 1 HYDRAULIC CIRCUIT



1 HYD PUMP
2 MCV
3 SWING MOTOR
4 TRAVEL MOTOR
5 RCV PEDAL
6 RCV REVER
7 RCV REVER
8 BOOM CYL(RH)
9 BOOM CYL(LH)
10 ARM CYL
11 BUCKET CYL
12 SOLENOID VALVE
13 TURNING JOINT
14 CHECK VALVE
15 CHECK VALVE
16 HYD TANK
17 OIL COOLER
18 BREATHER
19 BYPASS VALVE
20 RETURN FILTER
21 SUCTION STRAINER
22 LINE FILTER
23 SPIN FILTER
24 PRESSURE SWITCH

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