CRAWLER EXCAVATOR

SERVICE MANUAL

R16-7

HYUNDAI

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Model			Robex16-7	
Machine weight	Canopy rubber		kg	1,520
	Canopy steel			1,570
	Cabin rubber			1,630
	Cabin steel			1,680
Standard bucket capacity/width			m^3/mm	0.04 / 400
Engine	Type			MITSUBISHI L3E
	Displacement		cc	952
	Rated output		kW(PS) / min^{-1}	12.5(17) / 2,400
Dimensions	Overall length		mm	3,740
	Overall width		mm	1,020 < 1,300
	Overall height		mm	2,260
Working range	Max.digging depth		mm	2,350
	Max.vertical digging depth		mm	1,705
	Max.digging height		mm	3,365
	Max.dumping height		mm	2,310
	Max.digging radius		mm	3,910
	Reach at ground		mm	3,815
	Min. turning radius	front	mm	1,630
		swing	mm	1,250
	Rear turning radius		mm	1,140
	Boom swing angle L/R		deg	80 / 50
Performance	Max.digging force(Bucket)		kN	14.4
	Max.digging force(Arm)		kN	7.7
	Max.drawbar pull		kN	12.6
	Travel speed(low) / (high)		km / h	2.1 / 3.9
	Slew speed		min^{-1}	11.5
	Gradeability		Angle	25°
Hydraulic system	Pump	Type		Gear×3
		Oil flow	ℓ / min	15.7 / 15.7 / 15.7
	P.T.O	Oil flow	ℓ / min	31.4
	Main relief pressure		MPa	18.6 / 18.6 / 18.6
Underbody	Dozer blade width×height		mm	1,000 < 1,300 × 240
	Shoe width×tumbler center		mm	230 × 1,130
	Ground pressure	Roof rubber	kPa	27.0
		Cabin rubber		29.0
	Type of travelling motor			Piston
	Crawler tension system			Grease cylinder
Capacity	Hyd.oil capacity		ℓ	24.0
	Fuel capacity		ℓ	20.0
	Engine oil capacity		ℓ	3.5
	Cooling water capacity		ℓ	5.6
	Noise level LwA/LpA		dB	93 / 84

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2-4 Weight list

Unit: kg

Part name		Part name	
Boom	58	Slew bearing	17.7
Arm	24.5	Equalizer	56.1
Bucket	32.3	Track frame(R)	50
Dump link	3.6	Track frame(L)	46.7
Bucket link(R)	1.6	Dozer	36.5
Bucket link(L)	1.9	Crawler(steel)	74×2
Boom joint pin	1.8	Crawler(rubber)	51×2
Arm joint pin	1.9	Idler	8×2
Bucket pin	0.8×2	Adjust cylinder	10.6×2
Swing post	24.5	Track roller	2.9×6
Swing post pin	3.2	Sprocket	4×2
Swing frame	162	Slew motor	23
Hydraulic oil tank	29	Turning motor	14×2
Fuel tank	16	Joystick	3.5×2
Engine cover(A)	17.6	Console box	9.6×2
Engine cover(B)	2.7	Engine	94
Counter weight	83	Radiator	6.9
Operator cabin	200	Battery	12.5
Boom cylinder	12.5	Seat plate	12
Arm cylinder	12	Swivel joint	8
Bucket cylinder	12	Pump	5.4
Swing cylinder	12.5	Control valve	24
Dozer cylinder	8.5	TOPS ROOF	85
Extend cylinder	11	Cabin	200

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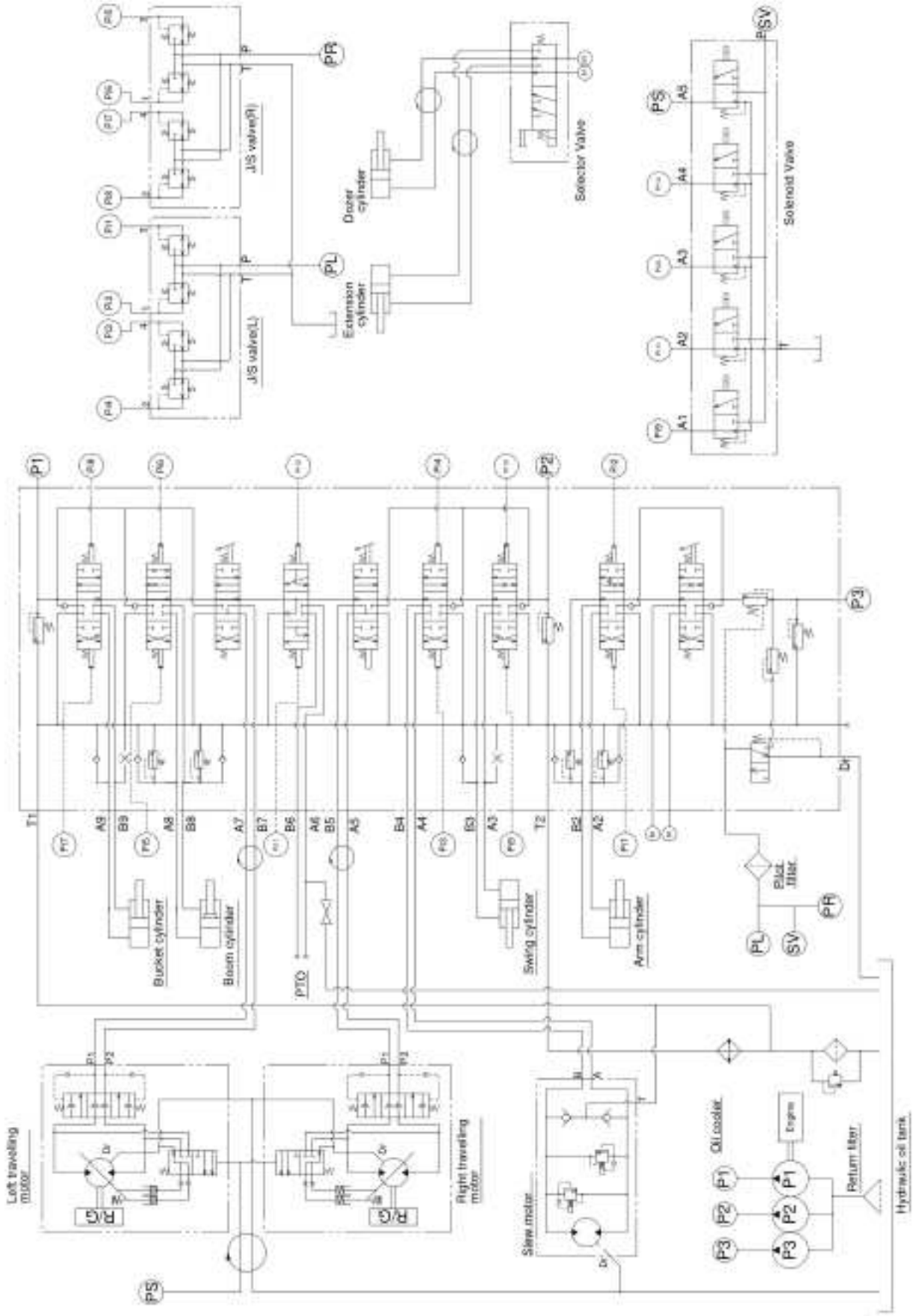
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