CRAWLER EXCAVATOR

SERVICE MANUAL

R35-7

HYUNDAI

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Description			Unit	Robex35-7	
Machine weight	Canopy	Rubber shoe	Kg	3320	
		Steel shoe		3330	
	Cabin	Rubber shoe		3230	
		Steel shoe		3240	
Standard bucket	Capacity		m^3	0.10	
	Width		mm	590	
Engine	Maker, model			MITSUBISHI S3L2	
	Rated power		ps(kW)/min^{-1}	27(19.9)/2400	
	Displacement		cc	1318	
Working range	Arm length		mm	1285(std.)	1585(long)
	Max.digging depth			3130	3425
	Max.vertical digging depth			2290	2560
	Max.digging height			5010	5215
	Max.dumping height			3540	3745
	Max.digging reach			5180	5465
	Min.swing radius	Front		2060	2135
		Swing		1700	1760
	Rear end radius			1410	
	Boom swing angle		deg	Left80/Right50	
Dimension	Overall length		mm	5010	
	Overall width			1580	
	Overall height			2420	
	Dozer(width × height)			1580×370	
Performance	Travel speed		km/hr	3.0/4.5	
	Swing speed		min^{-1}	8.7	
	Gradeability		deg(%)	30(58)	
	Max.digging force	Bucket	kN(kgf)	27.9(2840)	
		Arm		17.9(1830)	
	Max. drawbar pull			26.6(2710)	
Under-carriage	Ground pressure	Canopy&rubber shoe	kpa(kgf/cm^2)	30.1(0.31)	
		Cabin&rubber shoe		29.5(0.30)	
	Tumbler distance × track gauge		mm	1640×1280	
	Track shoe width			300	
	Type of travelling motor			Piston shoe-in type	
	Crawler tension system			Grease cylinder	
Hydraulic	Type of hydraulic pump			Piston×2, Gear×1	
	Pump oil flow		ℓ/min	2×42+25.2	
	Auxiliary circuit oil flow			67.2	
	Relief valve setting pressure		MPa(kgf/cm^2)	20.6/17.2(210/175)	
Capacity	Hydraulic oil tank		ℓ	50.5	
	Engine oil			4.5	
	Fuel tank			42	
	Cooling water			5.5	
Noise	Noise level(LwA/LpA)		dB	96/80	

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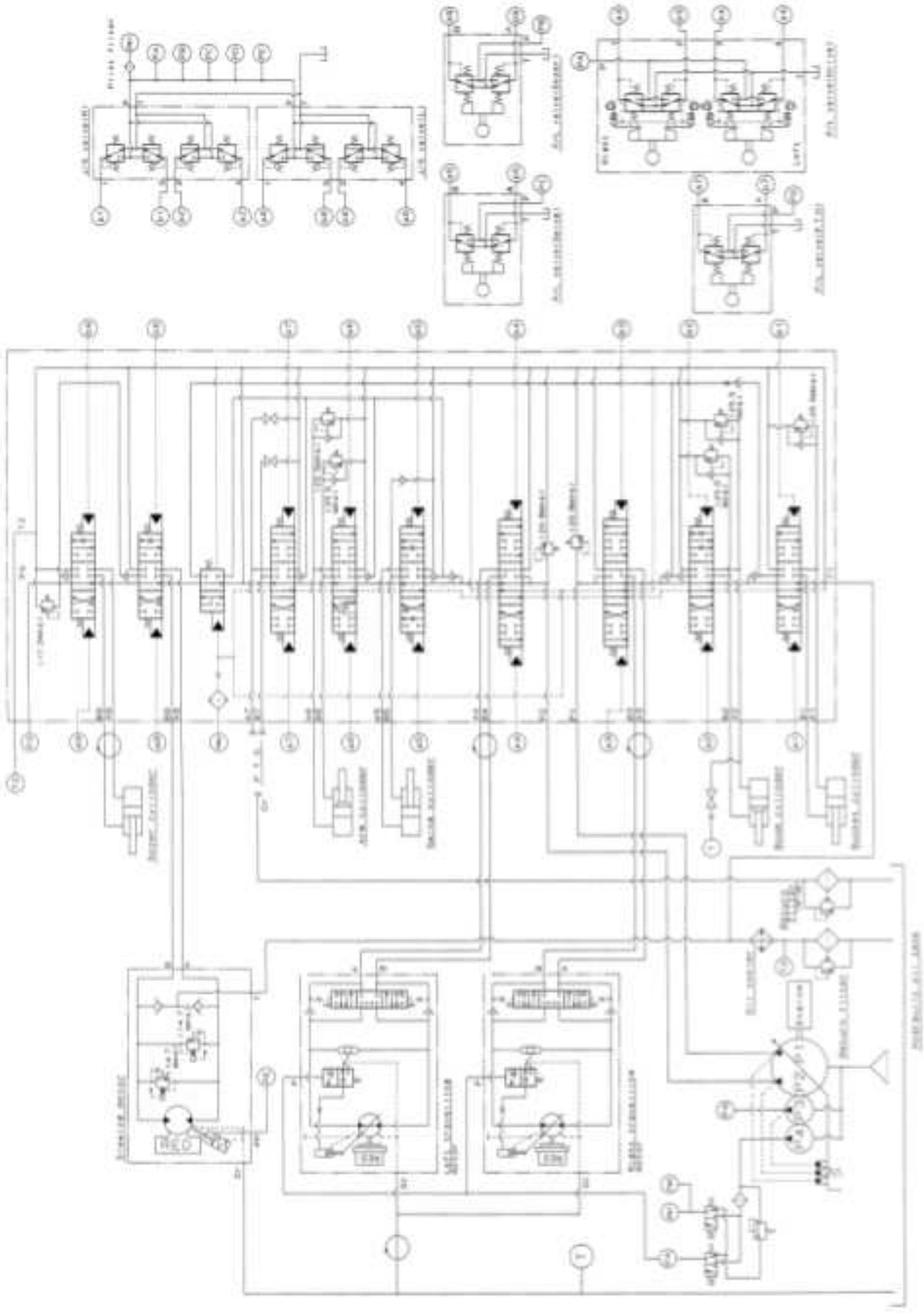
2 OUTLINE

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2-8 Hydraulic circuit diagram

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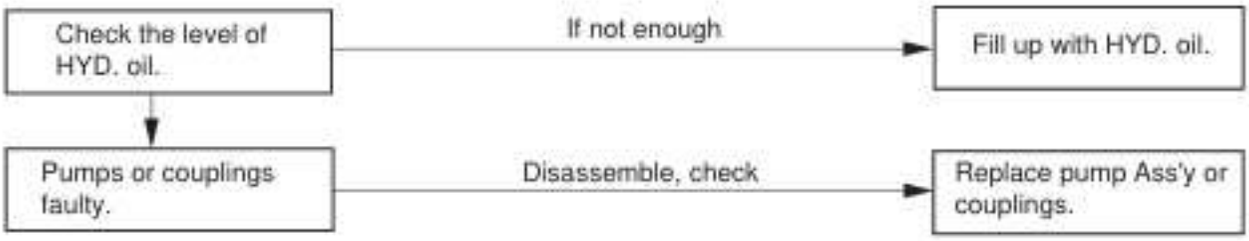
2-8 Hydraulic circuit diagram



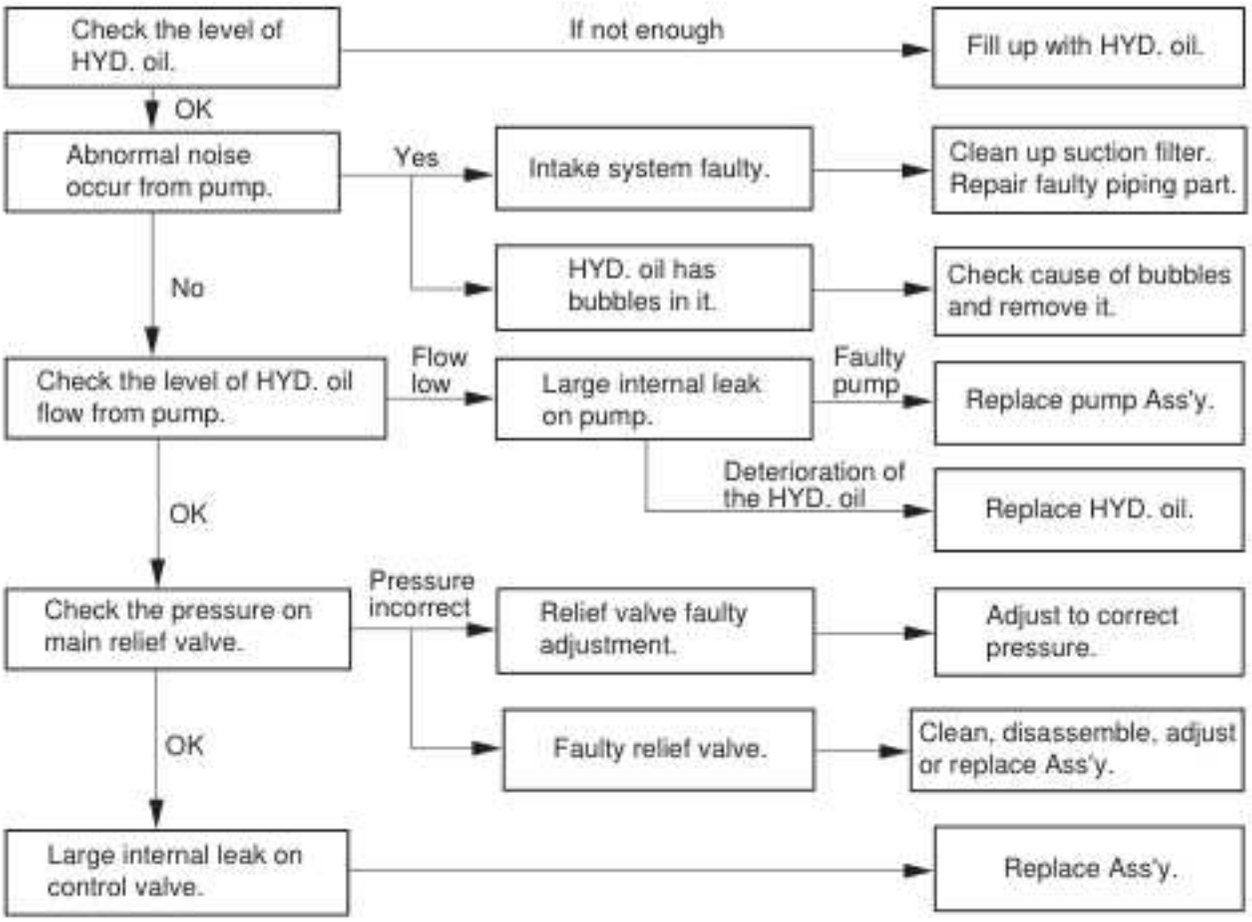
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23-1 Troubleshooting

23-1-1 All functions not operational



23-1-2 Operation power is weak



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