CRAWLER EXCAVATOR

SERVICE MANUAL

R75-7

HYUNDAI

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Description			Unit	Robex75-7
Machine weight	Rubber shoe		Kg	7430
	Steel shoe			7530
Standard bucket	Capacity		m^3	0.25
	Width		mm	750
Engine	Maker, model			MITSUBISHI S4S
	Rated power		ps(kW)/min^{-1}	55.5(40.8)/2300
	Displacement		cc	3331
Working range	Max.digging depth		mm	3980
	Max.vertical digging depth			3215
	Max.digging height			6510
	Max.dumping height			4535
	Max.digging reach			6660
	Min.swing radius	Front		2450
		Swing		1925
	Rear end radius			1570
	Boom swing angle		deg	Left80/Right50
Dimension	Overall length		mm	6255
	Overall width			2150
	Overall height			2555
	Dozer(width × height)			2150×510
Performance	Travel speed		km/hr	3.1 / 4.8
	Swing speed		min^{-1}	9.7
	Gradeability		deg(%)	30(58)
	Max.digging force	Bucket	kN(kgf)	53.6(5465)
		Arm		39.8(4061)
	Max. drawbar pull			57.5(5865)
Under-carriage	Ground pressure	Canopy&rubber shoe	kpa(kgf/cm^2)	33.9(0.35)
		Cabin&rubber shoe		34.4(0.35)
	Tumbler distance × track gauge		mm	2200×1700
	Track shoe width			450
	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	2×78.2+46.7
	Auxiliary circuit oil flow			78.2
	Relief valve setting pressure		MPa(kgf/cm^2)	25.5/23.5(260/240)
Capacity	Hydraulic oil tank		ℓ	85
	Engine oil			7.5
	Fuel tank			130
	Cooling water			10.0
Noise	Noise level(LwA/LpA)		dB	98 / 78

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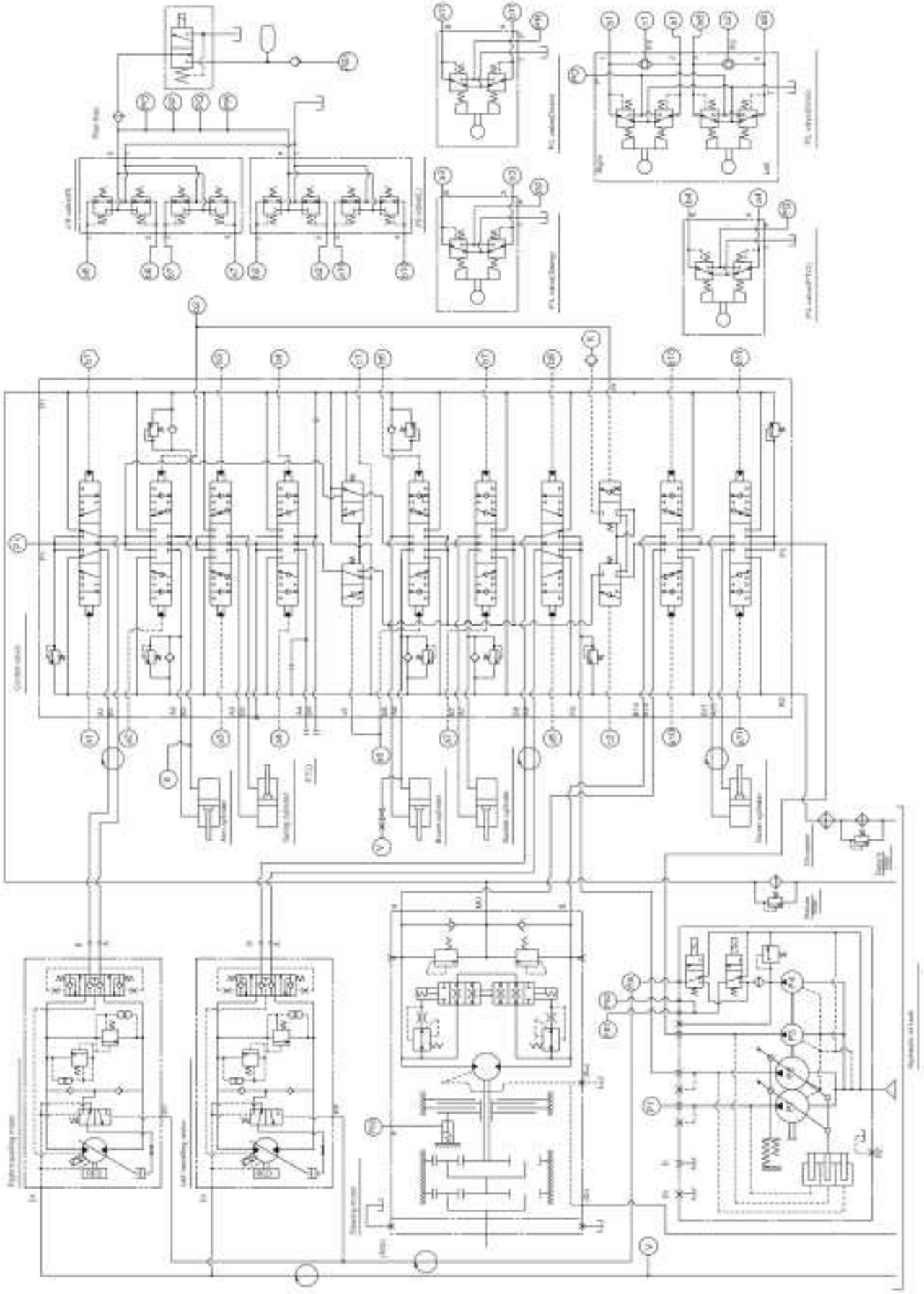
2-4 Weight list

Unit: kgf

Part name	Weight	Part name	Weight
Boom	310	Track frame	1025
Arm	160	Dozer	390
Bucket	165	Steel crawler	425×2
Dump link	24	Rubber crawler	370×2
Bucket link	9.0×2	Idler	50×2
Boom joint pin	12.5	Spring case	40×2
Arm joint pin	8.5	Track roller	14.5×8
Bucket pin	8.0×2	Carrier roller	8
Swing post	207	Sprocket	20×2
Swing post pin	19.7	Turning motor	70
Swing frame	880	Drive motor	86×2
Hydraulic oil tank	55	Lever stand	12×2
Fuel tank	37	Engine	245
Engine cover(A)	30	Radiator	39
Engine cover(B)	25	Battery	22
Engine cover(C)	20	Battery cover	12
Weight(R)(L)	300×2	Tank cover	16
Weight(Center)	290	Pilot valve (drive)	10.8
Operator cabin	300	Pilot valve	1.2×3
Boom cylinder	100	Swivel joint	21
Arm cylinder	80	Control valve	50
Bucket cylinder	50	Pump	58
Swing cylinder	89	Seat plate	12.7
Dozer cylinder	60	Seat	31
Turning bearing	100	Joystick	3.5×2

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2-8 Hydraulic circuit diagram



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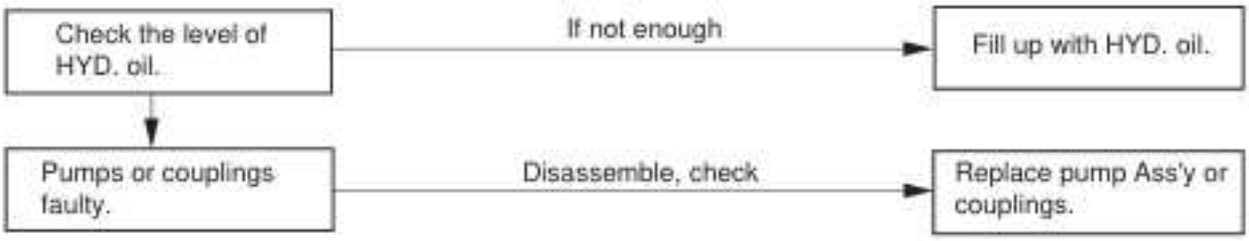
4-1 Specification

Engine		S4S
Type		In-line 4 cylinder-4 cycle overhead valve type
Number of cylinders–bore × stroke		4–94 mm × 120 mm
Displacement		3,331 cc
Ignition order		1–3–4–2
Dimensions	Overall length	781 mm
	Overall width	558 mm
	Overall height	773 mm
Performance	Rated net power	40.8 kW(55.5 ps) / 2,300 min^{-1}
	Maximum torque	180 N-m / 1,800 min^{-1}
	Maximum idling speed	2,460±50 min^{-1}
	Minimum idling speed	1,200±20 min^{-1}
	Fuel consumption	247 g/kW/h
Dry weight		245 kg
Fuel oil		Diesel fuel
Fuel pump		Bosh type
Governor		Centrifugal type
Generator		12V × 45A
Starter		12V × 3.0 kW
Battery		12V × 92AH(5HR)

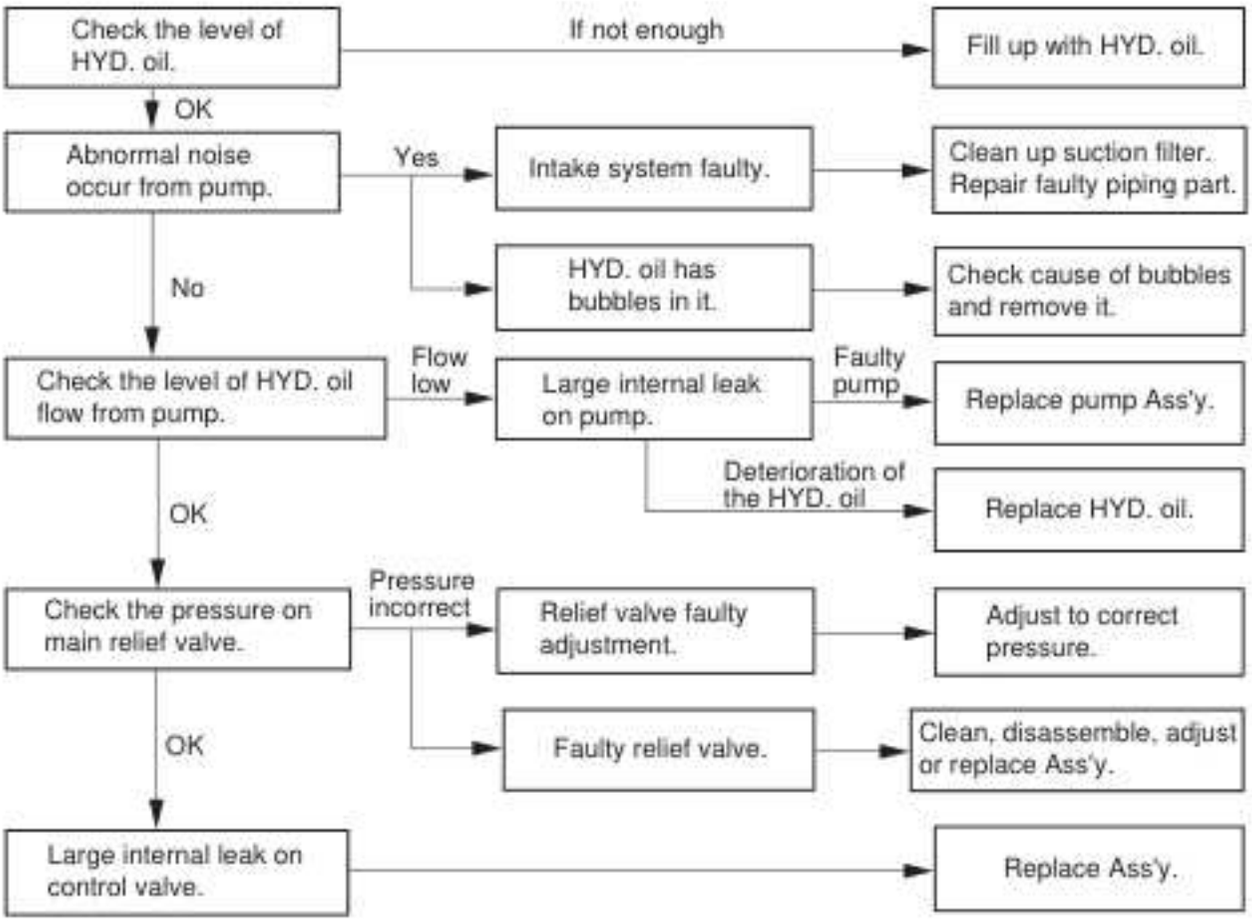
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23-1 Troubleshooting

23-1-1 All functions not operational



23-1-2 Operation power is weak



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