WHEEL LOADER

SERVICE MANUAL

HL750

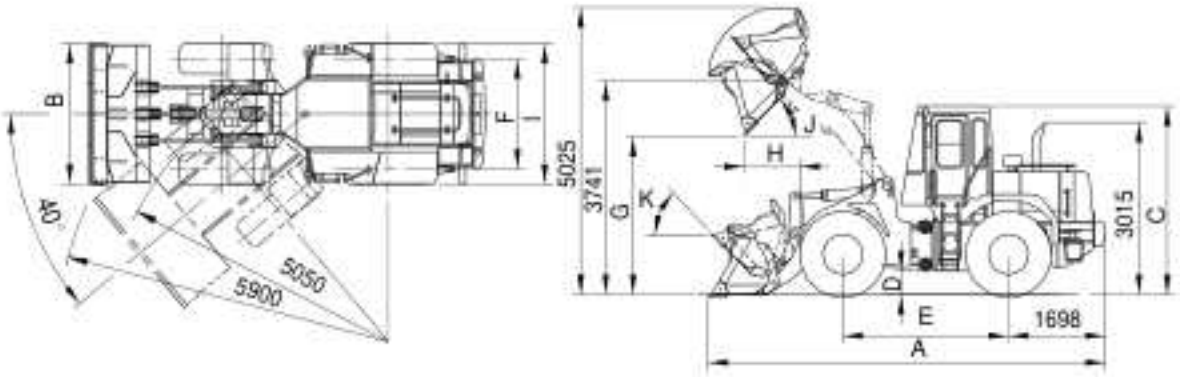
HYUNDAI

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2. SPECIFICATIONS

1) WITHOUT TOOTH AND CUTTING EDGE TYPE BUCKET



Description		Unit	Specification
Operating weight		kg(lb)	12645(27819)
Bucket capacity	Struck	$m^3(yd^3)$	1.9(2.5)
	Heaped		2.2(2.9)
Overall length	A	mm(ft-in)	6885(22' 7")
Overall width	B		2600(8' 6")
Overall height	C		3300(10' 10")
Ground clearance	D		412(1' 4")
Wheelbase	E		2900(9' 6")
Tread	F		1930(6' 4")
Dump clearance at 45°	G		2828(9' 3")
Dump reach	H		942(3' 1")
Width over tires	I		2460(8' 1")
Dump angle	J	Degree (°)	45
Roll back angle(Carry position)	K		46.3
Cycle time	Lift(With load)	sec	6.4
	Dump(With load)		1.2
	Lower(Empty)		3.2
Maximum travel speed		km/hr(mph)	39(24.3)
Braking distance		m(ft-in)	12(39' 4")
Minimum turning radius			5.9(19' 4")
Gradability		Degree (°)	30
Travel speed	Forward - First gear	km/hr(mph)	6.2(3.8)
	Forward - Second gear		13.0(8.1)
	Forward - Third gear		26.0(16.3)
	Forward - Fourth gear		39.0(24.3)
	Reverse - First gear		6.2(3.8)
	Reverse - Second gear		13.0(8.1)
	Reverse - Third gear		26.0(16.3)

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3. WEIGHT

Item	HL750	
	kg	lb
Front frame assembly	1055	2326
Rear frame assembly	1400	3086
Front fender	54	119
Rear fender	30	66
Counterweight	410	904
Cab	580	1279
Engine assembly	424	935
Transmission	316	697
Drive shaft(T/M to F/D Front)	23	51
Drive shaft(T/M to F/D, Rear)	18	40
Front axle(Include differential)	702	1548
Rear axle(Include differential)	715	1576
Tire	1277	2815
Hydraulic tank	153	337
Fuel tank	212	467
Main pump assembly	22	49
Main control valve	34	75
Boom	828	1825
Bell crank	240	529
Bucket link	46	101
2.3m³ bucket, with bolt on cutting edge	1100	2425
2.2m³ bucket, with tooth	1030	2271
2.2m³ bucket, without tooth and cutting edge	940	2072
Boom cylinder assembly	218	481
Bucket cylinder assembly	124	273
Steering cylinder assembly	41	90
Air tank	13	29
Seat	40	88
Battery	44	97

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3) BRAKE PUMP

Item	Specification
Type	Fixed displacement tandem gear pump
Capacity	8.4cc/rev
Maximum operating pressure	150kg/cm²(2130psi)
Rated oil quantity	18 ℓ/min (4.75U.S. gpm/4.0U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	2 spool
Operating method	Hydraulic pilot assist
Main relief valve pressure	210kg/cm²(3000psi)
Overload relief valve pressure	230~250kg/cm²(3270~3560psi)

5) REMOTE CONTROL VALVE

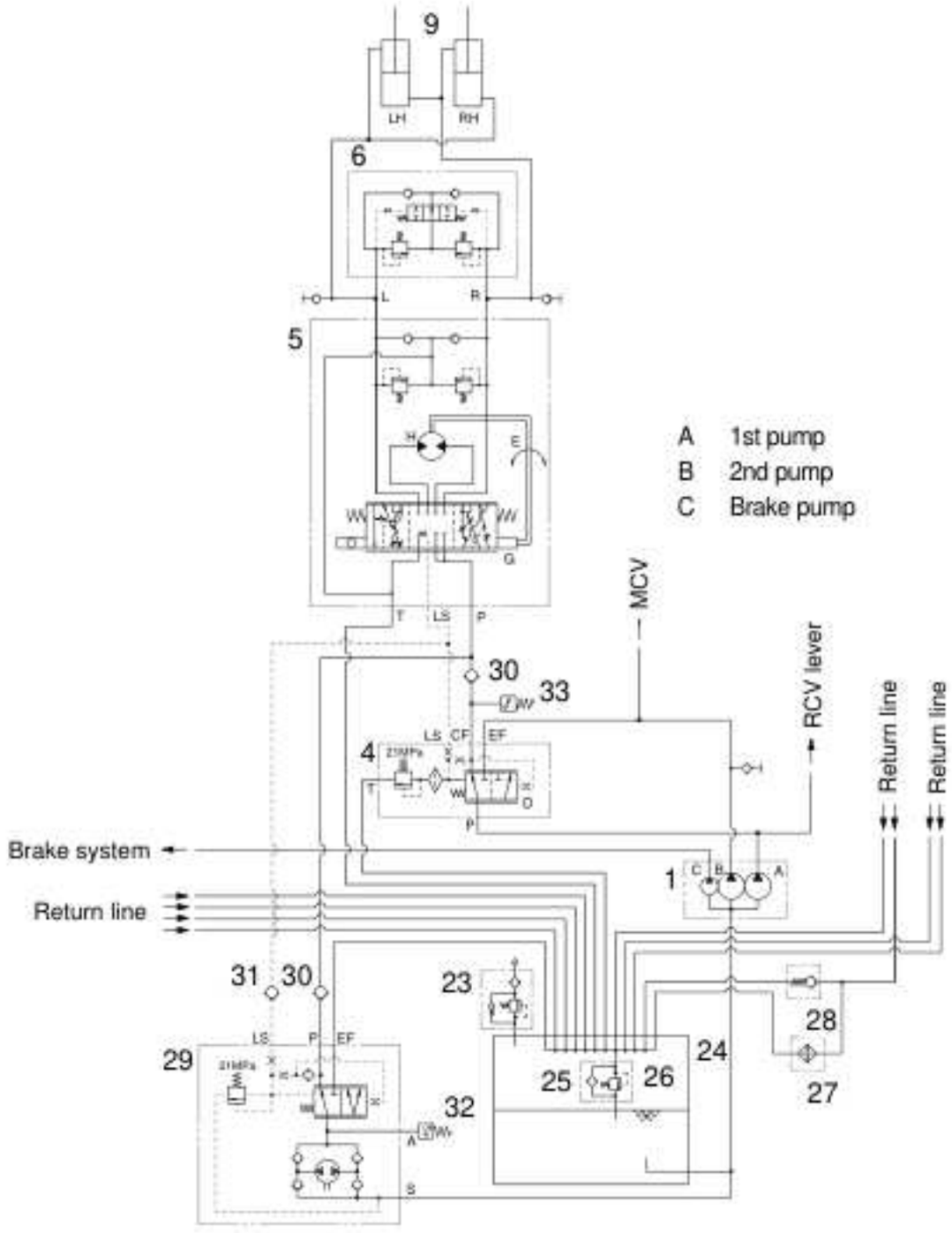
Item		Specification
Type		Pressure reducing type
Operating	Minimum	5.8kg/cm²(82.5psi)
	Maximum	30kg/cm²(427psi)
Single operation stroke	Lever	75mm(3.0in)

6) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	∅140 × ∅75 × 695mm
Bucket cylinder	Bore dia × Rod dia × Stroke	∅150 × ∅80 × 475mm
Steering cylinder	Bore dia × Rod dia × Stroke	∅ 70 × ∅40 × 430mm

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2. HYDRAULIC CIRCUIT



1	Pump assy	24	Hydraulic tank	29	Emergency pump(Option)
4	Priority valve	25	Return filter	30	Check valve(Option)
5	Steering valve	26	Bypass valve	31	Check valve(Option)
6	Cushion valve	27	Oil cooler(Option)	32	Pressure switch(Option)
9	Steering cylinder	28	Check valve(Option)	33	Pressure switch(Option)
23	Air breather				

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5) TROUBLESHOOTING

Problem	Cause	Remedy
Steering cylinder reaction is bad (Wheel slip is large)	1. Check valve seat side is clogged with dirt.	Disassembly, clean and reassembly.
	2. Main valve spool is stuck.	Disassembly, clean or replace.
	3. Orifice is clogged with dirt.	Disassembly, clean and reassembly.
Non cushion effect or less	1. Main valve speed is stuck.	Disassembly, clean or replace.
	2. Pilot valve poppet is stuck.	Disassembly, clean or replace.
Leakage	1. Loosen the plug.	Apply seal tape and retighten specified torque.
	2. Damage of O-ring.	Replace.

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