WHEEL LOADER

SERVICE MANUAL

HL740-3

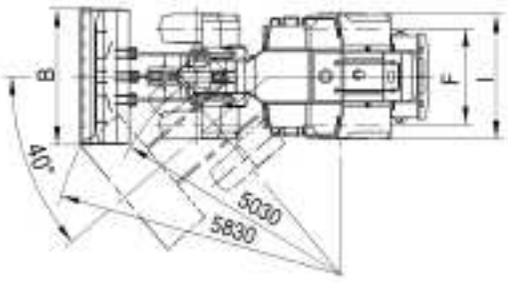
HYUNDAI

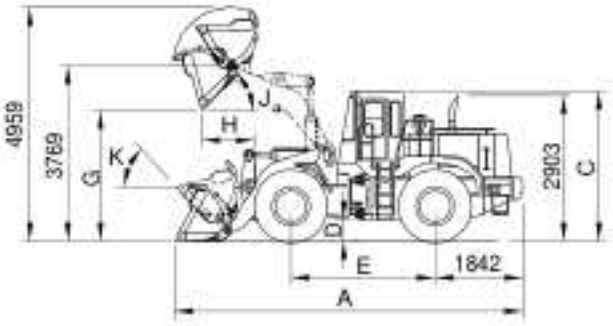
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2. SPECIFICATIONS

1) WITHOUT TOOTH AND CUTTING EDGE TYPE BUCKET





Description		Unit	Specification
Operating weight		kg(lb)	10940(24119)
Bucket capacity	Struck	m³(yd³)	1.6(2.1)
	Heaped		1.9(2.5)
Overall length	A	mm(ft-in)	7025(23' 1")
Overall width	B		2550(8' 4")
Overall height	C		3237(10' 7")
Ground clearance	D		417(1' 4")
Wheelbase	E		2900(9' 6")
Tread	F		1900(6' 3")
Dump clearance at 45°	G		2871(9' 5")
Dump reach	H		850(2' 9")
Width over tires	I		2430(8' 0")
Dump angle	J	Degree (°)	48
Roll back angle(Carry position)	K		47
Cycle time	Lift(With load)	sec	5.9
	Dump(With load)		1.1
	Lower(Empty)		2.6
Maximum travel speed		km/hr(mph)	42(26.2)
Braking distance		m(ft-in)	14.5(47' 7")
Minimum turning radius(Center of outside tire)			5.03(16' 6")
Gradability		Degree (°)	30
Travel speed	Forward	First gear	6.4(4.0)
		Second gear	13.5(8.4)
		Third gear	27.2(17.0)
		Fourth gear	42(26.2)
	Reverse	First gear	6.4(4.0)
		Second gear	13.5(8.4)
		Third gear	27.2(17.0)

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3. WEIGHT

Item	kg	lb
Front frame assembly	794	1750
Rear frame assembly	1212	2672
Front fender	23	51
Rear fender	34	75
Counterweight	555	1224
Cab assembly	1000	2205
Engine assembly	435	959
Transmission	350	772
Drive shaft(Engine to transmission)	5.9	13
Drive shaft(Front)	14	31
Drive shaft(Center)	11	24
Drive shaft(Rear)	10	22
Front axle(Include differential)	575	1268
Rear axle(Include differential)	560	1235
Tire(4EA)	1320	2910
Hydraulic tank	100	220
Fuel tank	220	485
Main pump assembly	20	44
Main control valve	22	49
Boom	705	1554
Bell crank	204	450
Bucket link	30	66
1.9m³ bucket, with bolt on cutting edge	940	2072
2.0m³ bucket, with tooth	1010	2227
Without tooth and cutting edge	850	1874
Boom cylinder assembly(2EA)	170	375
Bucket cylinder assembly	85	187
Steering cylinder assembly(2EA)	36	79
Seat	40	88
Battery	44	97

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GROUP 2 OPERATIONAL CHECKS AND TROUBLESHOOTING

1. OPERATIONAL CHECKS

This procedure is designed so the mechanic can make a quick check of the system using a minimum amount of diagnostic equipment. If you need additional information, read structure and function, Group 1.
A location will be required which is level and has adequate space to complete the checks.

The engine and all other major components must be at operating temperature for some checks.

Locate system check in the left column and read completely, following the sequence from left to right. Read each check completely before performing.

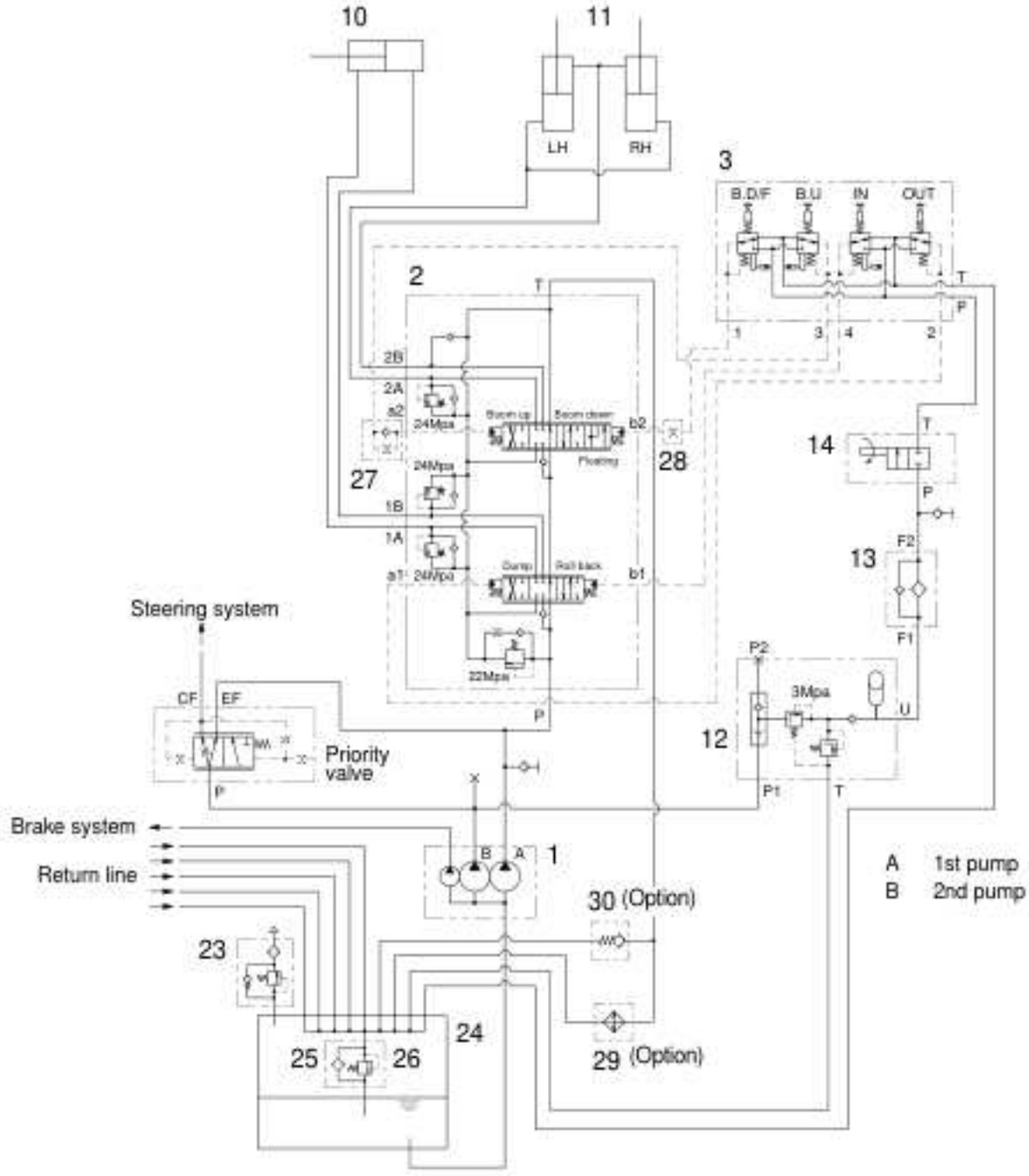
At the end of each check, if no problem is found(OK), that check is complete or an additional check is needed. If problem is indicated(NOT OK), you will be given repair required and group location.

If verification is needed, you will be given next best source of information:

Chapter 2 :Troubleshooting
Group 3 :Tests and adjustments

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2. HYDRAULIC CIRCUIT



1	Main pump	13	Line filter	27	Shockless valve
2	Main control valve	14	Safety valve	28	Orifice connector
3	Remote control valve	23	Air breather	29	Oil cooler(Option)
10	Bucket cylinder	24	Hydraulic tank	30	Check valve(Oprion)
11	Boom cylinders	25	Return filter		
12	Pilot supply unit	26	Bypass valve		

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5. MAIN HYDRAULIC PUMP FLOW TEST

- **SPECIFICATION**

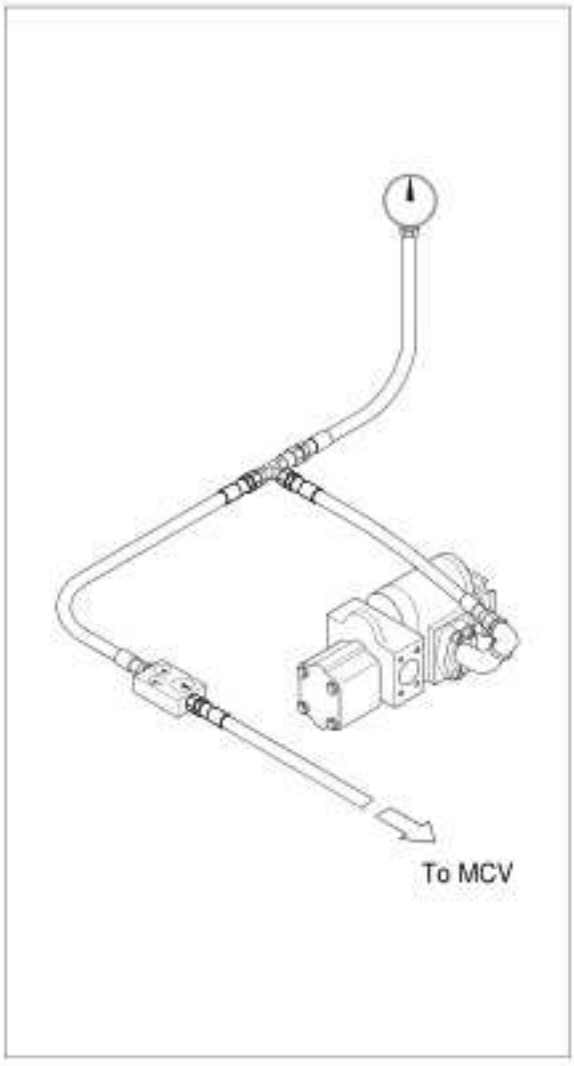
Oil temperature	65±6℃(150±10°F)
Engine speed	2200±25rpm
Test pressure	220±10bar(3190psi)
Maximum pump flow	86 ℓ /min(22.7gpm)

- **FLOW METER GAUGE AND TOOL**

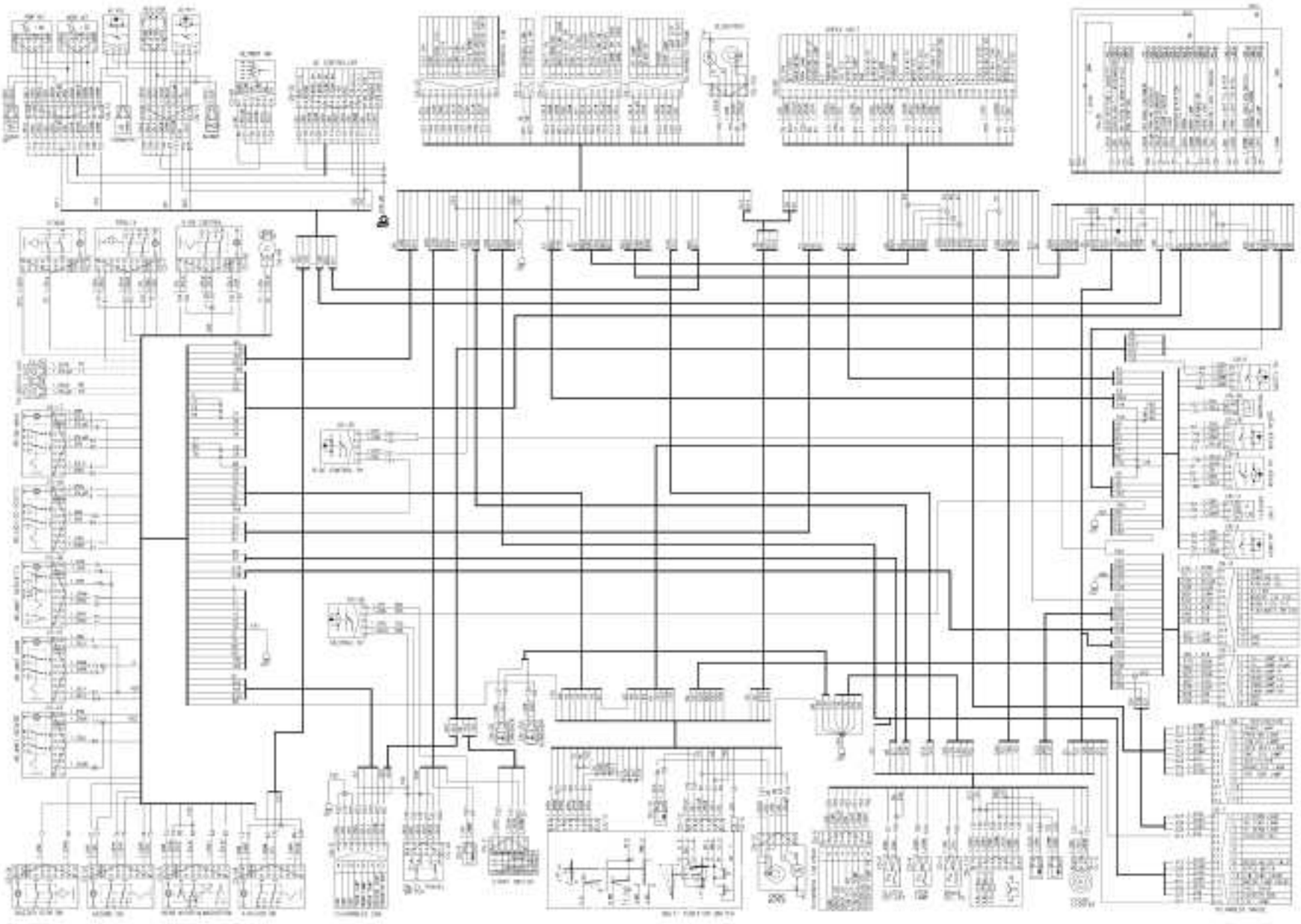
  Gauge 0~35MPa(0~350bar, 0~5000psi)

  Temperature reader

1) Make test connections.
2) Install temperature reader.(See temperature reader installation procedure in this group.)
3) Heat hydraulic oil to specifications.(See hydraulic oil warm up procedure in this group.)
4) Run engine at test specifications.
5) Close flow meter loading valve to increase pressure to test specifications.
6) Read flow meter.
7) If flow is below specifications, check suction line and suction pressure for abnormality before removing pump.



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