WHEEL LOADER

SERVICE MANUAL

HL720-3

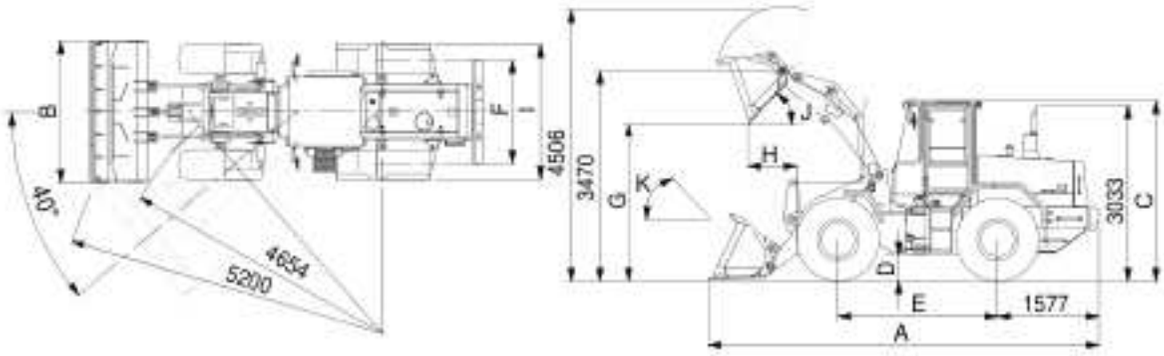
HYUNDAI

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2. SPECIFICATIONS

1) WITHOUT TOOTH AND CUTTING EDGE TYPE BUCKET



Description		Unit	Specification
Operating weight		kg(lb)	7570(16690)
Bucket capacity	Struck	m³(yd³)	1.1(1.4)
	Heaped		1.3(1.7)
Overall length	A	mm(ft-in)	6295(20' 8")
Overall width	B		2350(7' 9")
Overall height	C		3028(9' 11")
Ground clearance	D		333(1' 1")
Wheelbase	E		2600(8' 6")
Tread	F		1750(5' 9")
Dump clearance at 50°	G		2695(8' 10")
Dump reach	H		935(3' 1")
Width over tires	I		2138(7' 0")
Dump angle	J	Degree (°)	45
Roll back angle(Carry position)	K		48
Cycle time	Lift(With load)	sec	4.6
	Dump(With load)		1.0
	Lower(Empty)		2.3
Maximum travel speed		km/hr(mph)	40.1(25.0)
Braking distance		m(ft-in)	13(42' 8")
Minimum turning radius(Center of outside tire)			5.2(17' 1")
Gradability		Degree (°)	30
Travel speed	Forward	First gear	7.2(4.5)
		Second gear	13.6(8.5)
		Third gear	28.6(17.8)
		Fourth gear	40.1(25.0)
	Reverse	First gear	7.2(4.5)
		Second gear	13.6(8.5)
		Third gear	28.6(17.8)

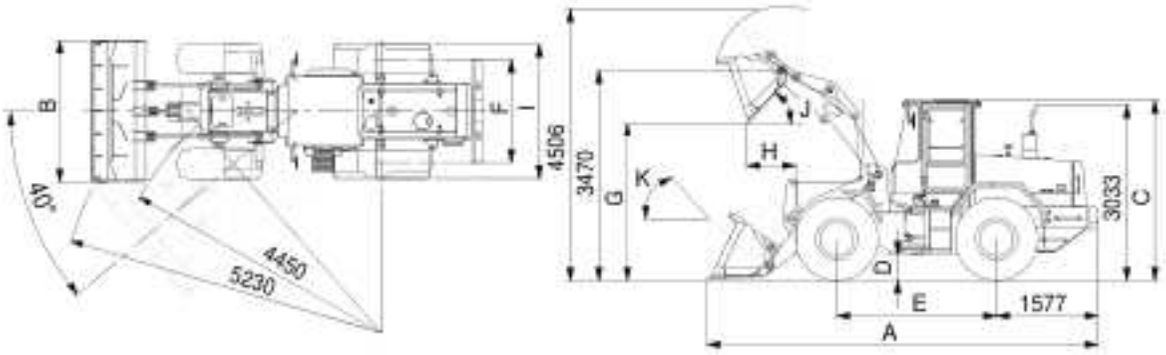
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3. WEIGHT

Item	kg	lb
Front frame assembly	665	1466
Rear frame assembly	653	1440
Front fender(2EA)	22	49
Rear fender(2EA)	31	68
Counterweight	200	441
Cab assembly	640	1411
Engine assembly	380	838
Transmission	360	794
Drive shaft(Engine to transmission)	7	15
Drive shaft(Front)	16	35
Drive shaft(Center)	17	37
Drive shaft(Rear)	10	22
Front axle(Include differential)	475	1047
Rear axle(Include differential)	485	1069
Tire(4EA)	624	1376
Hydraulic tank	75	165
Fuel tank	130	287
Main pump assembly	24	53
Main control valve	23	51
Boom assy	460	1014
Bell crank assy	100	220
Bucket link	18	40
1.4m^3 bucket, with bolt on cutting edge	628	1385
1.3m^3 bucket, with tooth	569	1254
1.3m^3 bucket, without tooth and cutting edge	500	1102
Boom cylinder assembly(2EA)	160	353
Bucket cylinder assembly	70	154
Steering cylinder assembly(2EA)	34	75
Seat	40	88
Battery	44	97

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2) BOLT-ON CUTTING EDGE TYPE BUCKET



Description		Unit	Specification
Operating weight		kg(lb)	7700(16980)
Bucket capacity	Struck	m³(yd³)	1.2(1.6)
	Heaped		1.4(1.8)
Overall length	A	mm(ft-in)	6345(20' 10")
Overall width	B		2350(7' 9")
Overall height	C		3028(9' 11")
Ground clearance	D		333(1' 1")
Wheelbase	E		2600(8' 6")
Tread	F		1750(5' 9")
Dump clearance at 50°	G		2629(8' 8")
Dump reach	H		968(3' 2")
Width over tires	I		2138(7' 0")
Dump angle	J	Degree (°)	45
Roll back angle(Carry position)	K		48
Cycle time	Lift(With load)	sec	4.6
	Dump(With load)		1.0
	Lower(Empty)		2.3
Maximum travel speed		km/hr(mph)	40.1(25.0)
Braking distance		m(ft-in)	13(42' 8")
Minimum turning radius(Center of outside tire)			4.45(14' 7")
Gradability		Degree (°)	30
Travel speed	Forward	First gear	km/hr(mph) 7.2(4.5)
		Second gear	13.6(8.5)
		Third gear	28.6(17.8)
		Fourth gear	40.1(25.0)
	Reverse	First gear	7.2(4.5)
		Second gear	13.6(8.5)
		Third gear	28.6(17.8)

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2. TROUBLESHOOTING

1) TRANSMISSION

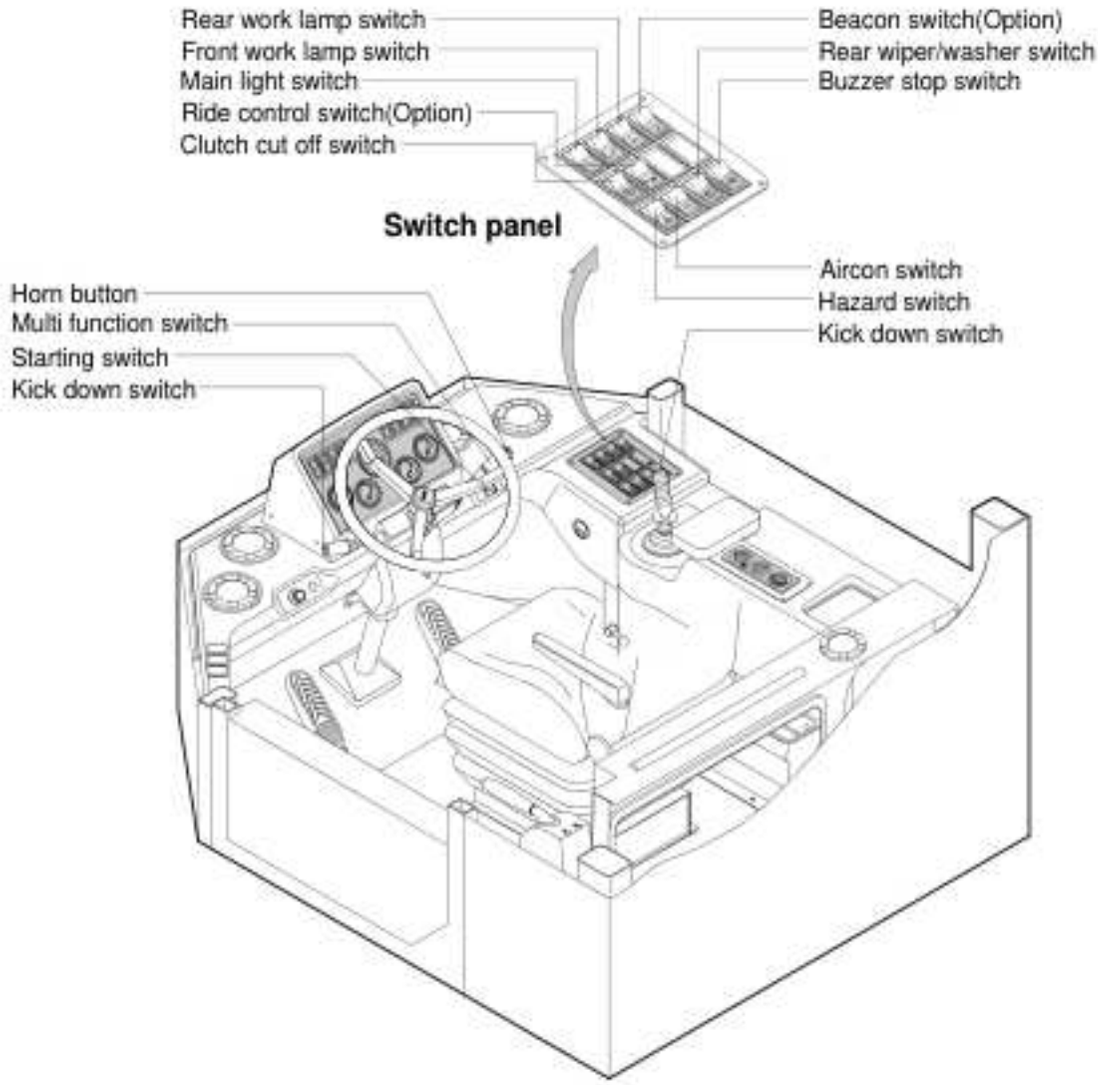
※ **Diagnose malfunction charts are arranged from most probable and simplest to verify, to least likely, more difficult to verify. Remember the following steps when troubleshooting a problem :**

Step 1. Operational check out procedure(See group 3 in section 1.)
Step 2. Operational checks(In this group.)
Step 3. Troubleshooting
Step 4. Tests and/or adjustments(See group 3.)

Problem	Cause	Remedy
Transmission slippage	Low oil level.	Add oil.
	Wrong oil grade.	Change oil.
	Restricted transmission pump suction screen.	Remove and clean screen.
	Leak in transmission control valve or gasket.	Remove valve and inspect gaskets.
	Low transmission pump flow due to worn pump.	Do transmission pump flow test.
	Weak or broken pressure regulating valve spring.	Do transmission system pressure test.

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3. SWITCHES



1) STARTING SWITCH



(1) There are three positions, OFF, ON and START.

(2) OFF : None of electrical circuits activate.

(3) ON : All the systems of machine operate.

(4) START : Use when operating the engine.
Release key immediately after starting.

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