WHEEL LOADER

SERVICE MANUAL

HL730-9SB

HYUNDAI

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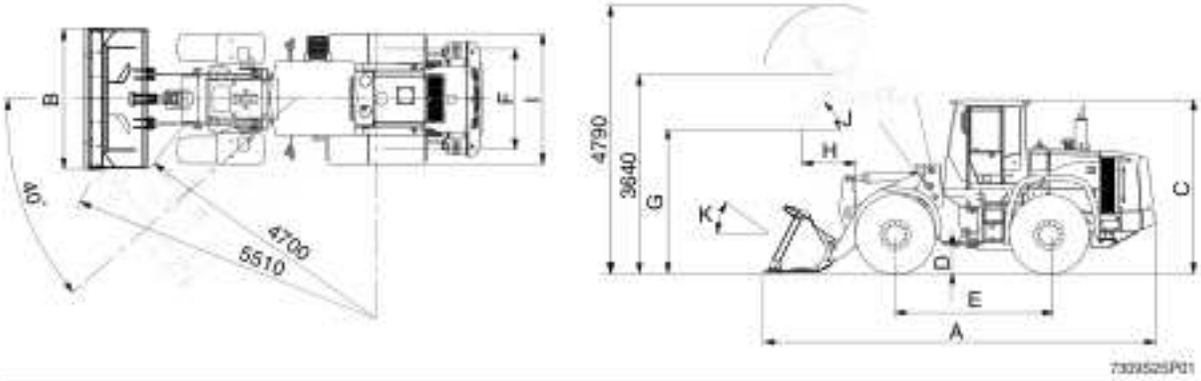
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2. SPECIFICATIONS

1) WITH BOLT-ON CUTTING EDGE TYPE BUCKET (HL730-9S)



Description			Unit	Specification
Operating weight			kg (lb)	10000 (22050)
Bucket capacity		Struck	m³ (yd³)	1.5 (2.0)
		Heaped		1.8 (2.4)
Overall length		A	mm (ft-in)	6900 (22' 8")
Overall width		B		2450 (8' 0")
Overall height		C		3190 (10' 6")
Ground clearance		D		370 (1' 3")
Wheelbase		E		2750 (9' 0")
Tread		F		1850 (6' 0")
Dump clearance at 45°		G		2730 (8' 11")
Dump reach (full lift)		H		1005 (3' 4")
Width over tires		I		2295 (7' 6")
Dump angle		J	degree (°)	48
Roll back angle (carry position)		K		48
Cycle time		Lift (with load)	sec	5.6
		Dump (with load)		1.0
		Lower (empty)		3.0
Maximum travel speed			km/hr (mph)	36.8 (22.9)
Braking distance			m (ft-in)	12 (39' 4")
Minimum turning radius (center of outside tire)				4.7 (15' 5")
Gradeability			degree (°)	30
Brakeout force			kg (lb)	9590 (21140)
Travel speed	Forward	First gear	km/hr (mph)	6.1 (3.8)
		Second gear		11.1 (6.9)
		Third gear		22.0 (13.7)
		Fourth gear		36.8 (22.9)
	Reverse	First gear		6.4 (4.0)
		Second gear		11.7 (7.3)
		Third gear		23.1 (14.4)

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2. TROUBLESHOOTING

※ 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)

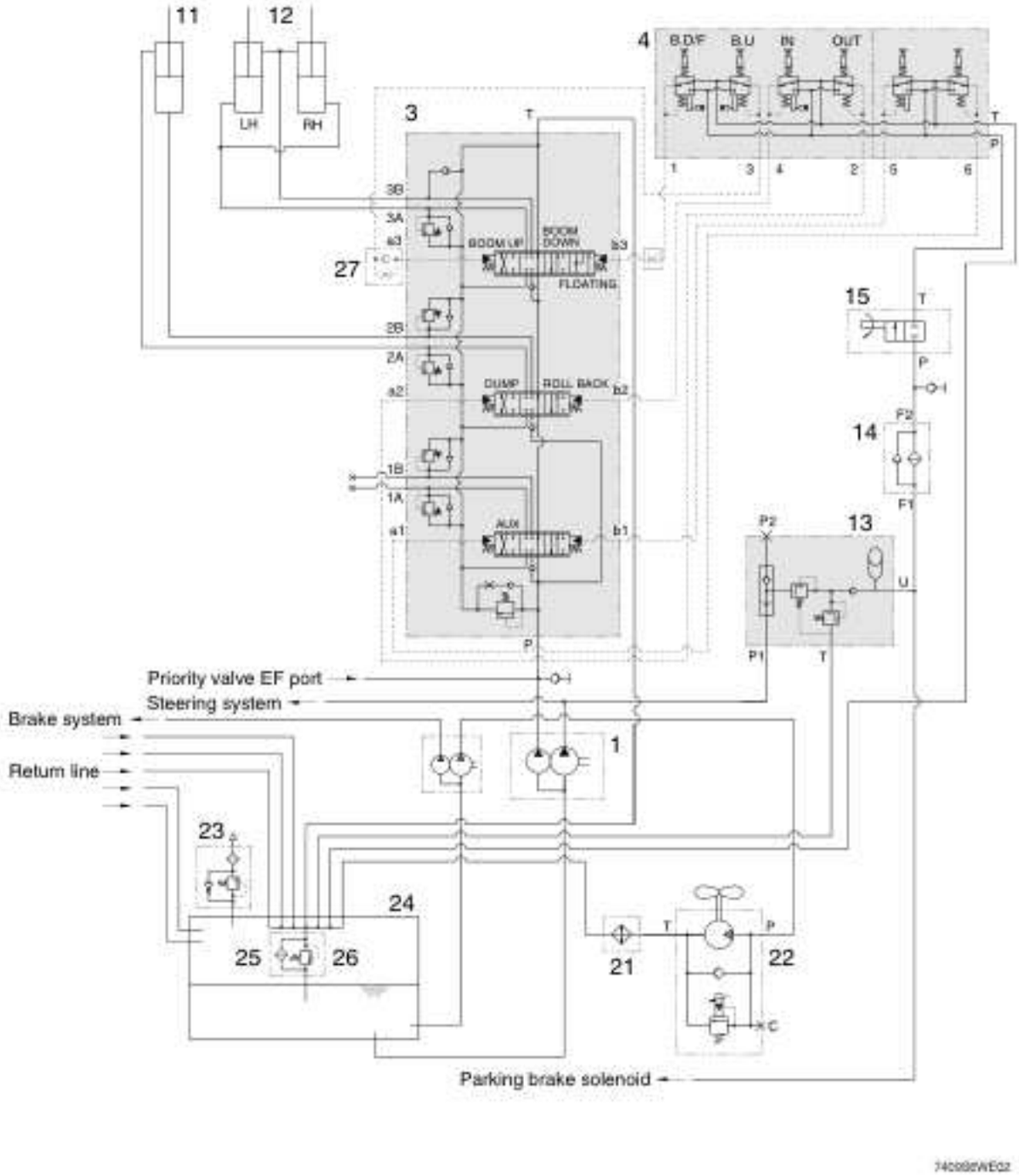
Step 3. Troubleshooting

Step 4. Tests and adjustments (See group 3)

Problem	Cause	Remedy
No steering	Low oil level.	Add recommended oil.
	Restricted suction line.	Check.
	Failed hydraulic pump.	Remove and inspect return filter for metal pump particles.
	Failed main hydraulic pump drive.	Remove main hydraulic pump and inspect drive gear.
	Stuck priority valve spool.	Remove and inspect priority valve spool.
	Broken priority valve spring.	Remove and inspect spring.
	Relief valve in steering unit stuck open.	Do relief cartridge leakage test in group 3.
	Failed hydraulic lines.	Check.
Slow or hard steering	Too much friction in the mechanical parts of the machine.	Lubricate bearings and joints of frame or cylinders or repair if necessary. Check steering column installation.
	Cold oil.	Warm the hydraulic oil.
	Low priority valve pressure setting.	Do priority valve pressure test.
	Worn hydraulic pump.	Do hydraulic pump performance check.
	Sticking priority valve spool.	Remove and inspect.
	Broken priority valve spring.	Remove and inspect.
	Pinched or restricted LS line.	Inspect line. Do priority valve LS port flow test in group 3.
	Low system relief valve setting.	Test and adjust if necessary.
	Low overload relief valves setting.	Test and adjust if necessary.

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3. WORK EQUIPMENT HYDRAULIC CIRCUIT



1	Main pump	13	Pilot supply unit	23	Air breather
3	Main control valve	14	Line filter	24	Hydraulic tank
4	Remote control valve	15	Safety valve	25	Return filter
11	Bucket cylinder	21	Oil cooler	26	Bypass valve
12	Boom cylinder	22	Fan motor	27	Shockless valve

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(9) Assemble drive gear set.
Spread hydraulic fluid around gear set.



(10) Assemble thrust plate.
Rotate the shaft gear and check status of gear set.
Assemble dowel pins and connector shaft.



(11) Assemble the rear cover.
Check the contact status of square seal.



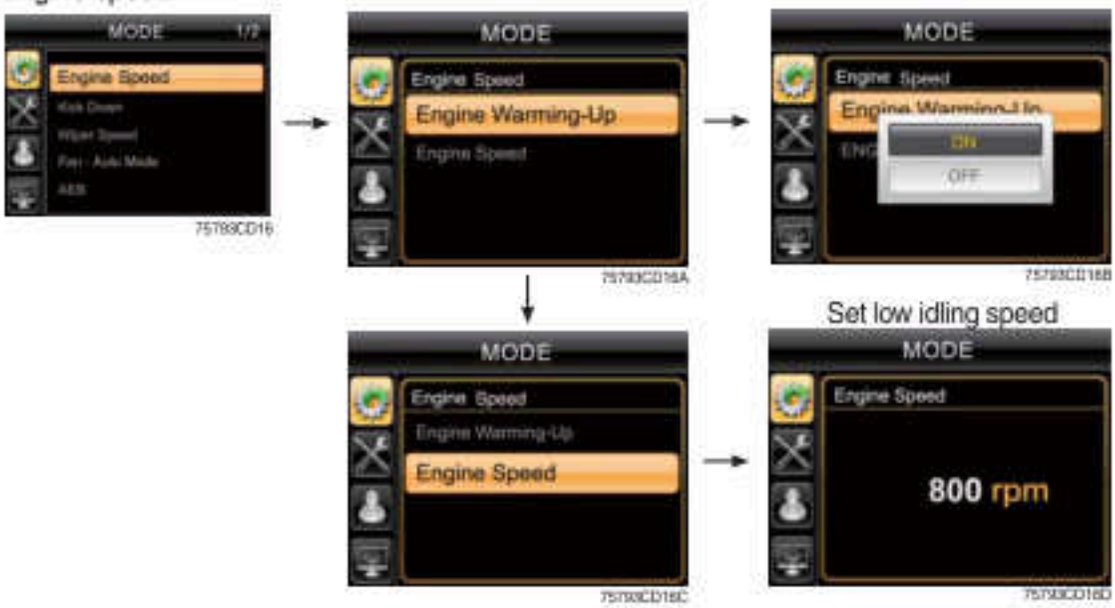
(12) Assemble stud bolt and washer.
※ Washer : smooth - convex side up
※ Keep bolts in dry condition after washing.



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(2) Mode

① Engine speed



② Kick down



- Mode 1 (down/up) : Press kick down button once, shift down and press button again, shift up.
- Mode 2 (down only) : Press kick down button every time, shift to lower gear respectively.

※ Refer to page 7-47.

③ Wiper speed



- Setting wipe speed 1 to 4.

④ Fan-auto mode



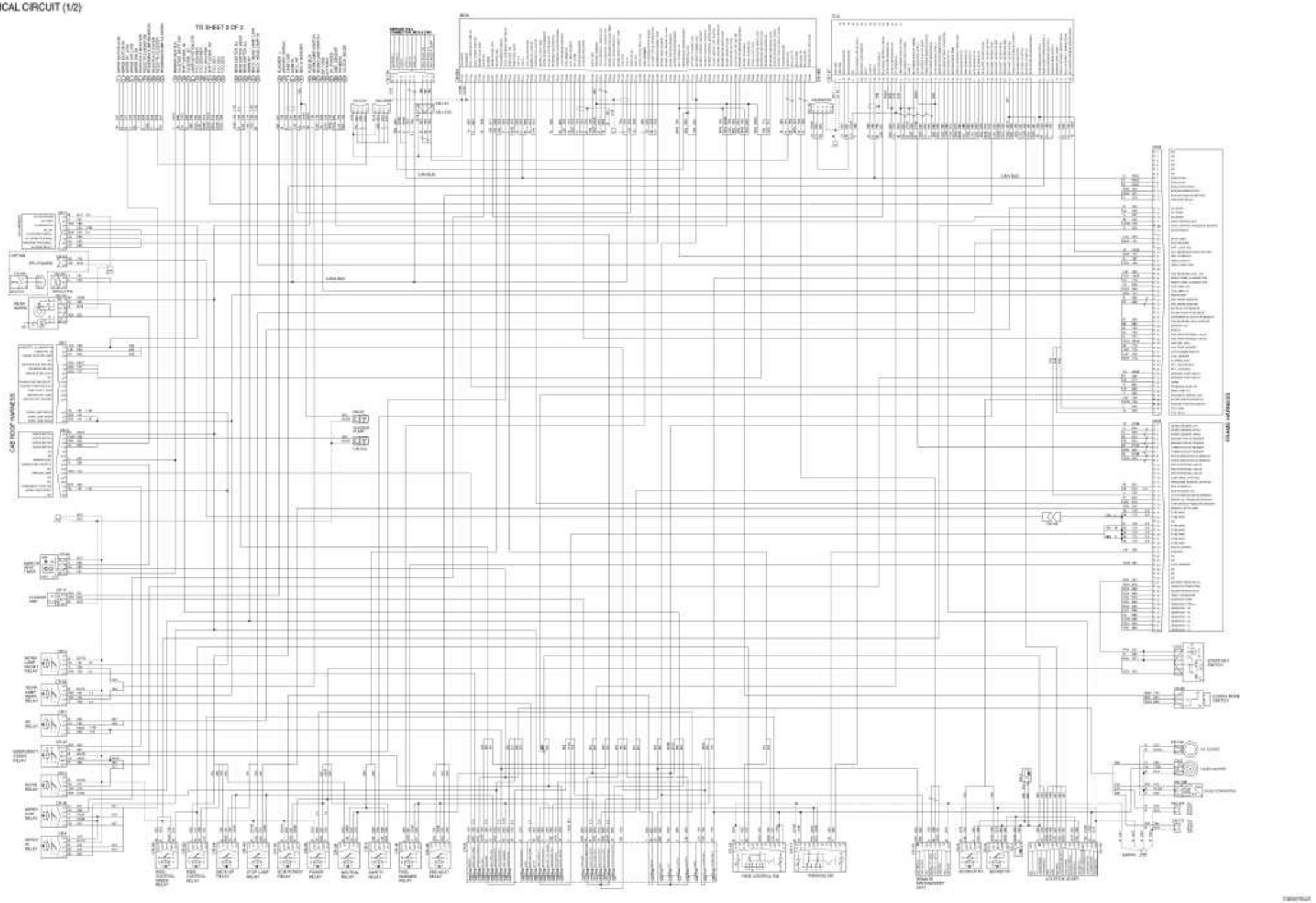
- Select reverse interval or reverse time.
- Set reverse interval (30~300 min) or reverse time (30~300 sec).

※ Default : Interval (60 min), time (120 sec)

※ Refer to page 7-45, fan control switch.

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- ELECTRICAL CIRCUIT (1/2)



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