WHEEL LOADER

SERVICE MANUAL

HL770-9S

HYUNDAI

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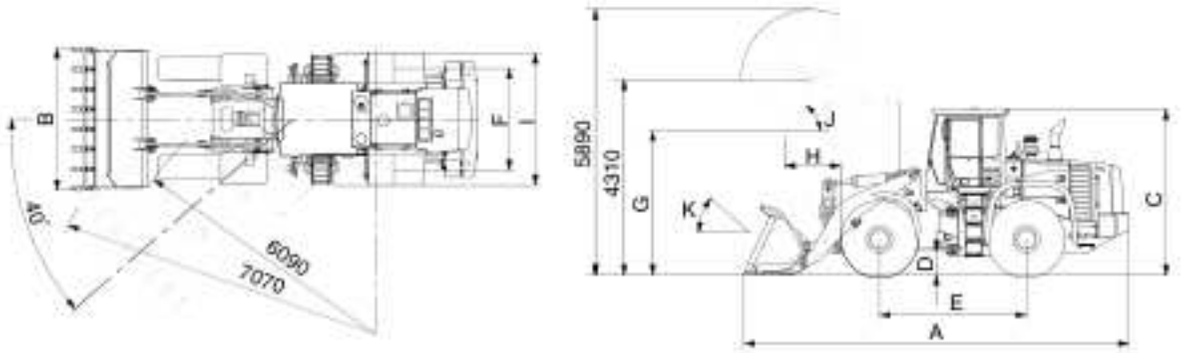
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2) WITH TOOTH TYPE BUCKET (HL770-9S)



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Description			Unit	Specification
Operating weight			kg (lb)	22500 (49600)
Bucket capacity		Struck	m³ (yd³)	3.4 (4.4)
		Heaped		3.9 (5.1)
Overall length		A	mm (ft-in)	8770 (28' 9")
Overall width		B		3150 (10' 4")
Overall height		C		3590 (11' 9")
Ground clearance		D		480 (1' 7")
Wheelbase		E		3500 (11' 6")
Tread		F		2300 (7' 7")
Dump clearance at 45°		G		3000 (9' 10")
Dump reach (full lift)		H		1340 (4' 5")
Width over tires		I		2975 (9' 9")
Dump angle		J	degree (°)	48
Roll back angle (carry position)		K		49
Cycle time		Lift (with load)	sec	5.7
		Dump (with load)		1.4
		Lower (empty)		2.7
Maximum travel speed			km/hr (mph)	38.0 (23.6)
Braking distance			m (ft-in)	12 (39' 4")
Minimum turning radius (center of outside tire)				6.09 (20' 0")
Gradeability			degree (°)	30
Breakout force			kg (lb)	22100 (48730)
Travel speed	Forward	First gear	km/hr (mph)	6.9 (4.3)
		Second gear		12.1 (7.5)
		Third gear		25.8 (16.0)
		Fourth gear		38.0 (23.6)
	Reverse	First gear		6.9 (4.3)
		Second gear		12.1 (7.5)
		Third gear		25.8 (16.0)

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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)

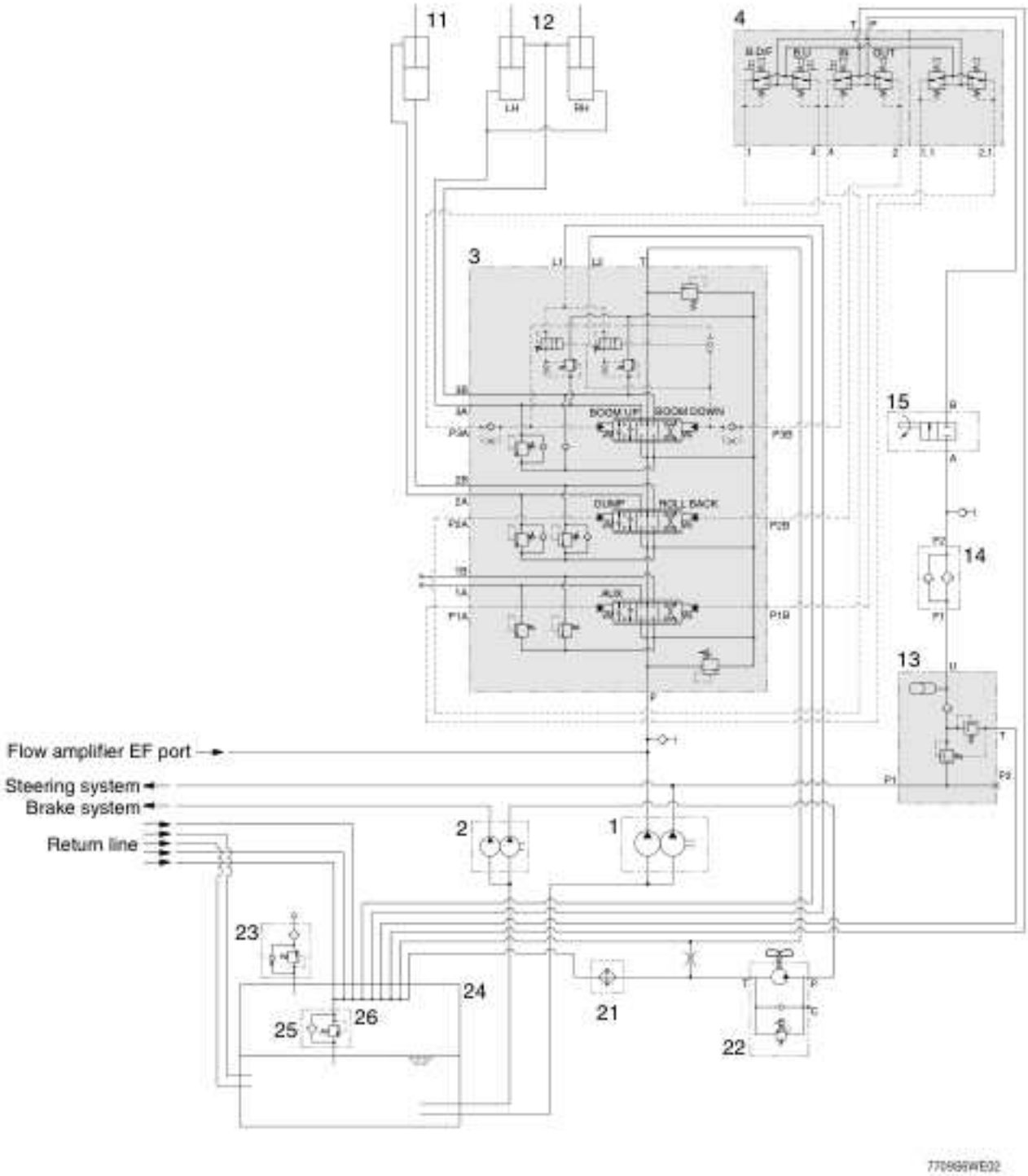
Step 3. Troubleshooting

Step 4. Tests and adjustments (see group 3)

Problem	Cause	Remedy
No steering	Low oil level.	Add recommended oil.
	Failed steering pump.	Remove and inspect return filter for metal pump particles.
	Failed main pump drive.	Do main pump flow test.
	Stuck priority valve spool.	Remove and inspect priority valve spool.
	Broken priority valve spring.	Remove and inspect spring.
	Relief valve in flow amplifier stuck open.	Do relief cartridge leakage test in group 3.
No hydraulic functions steering normal	Stuck open system relief valve.	Replace relief valve.
	Locked safety valve.	Unlock safety valve.
	Plugged pilot line filter.	Inspect and replace.
	Failed hydraulic pump.	Remove and inspect the pump.
	Low secondary pressure of RCV.	Check the pressure and replace if necessary.

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3. WORK EQUIPMENT HYDRAULIC CIRCUIT



1	Main pump	12	Boom cylinder	22	Fan drive motor
2	Fan & brake 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

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(14) Assembled nut (31).

- Tool : spanner 19 mm
- Tightening torque (M12) :
  40 ± 4 kgf · cm (28 ± 28.9 lbf · ft)



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(15) Assemble the boots (32).

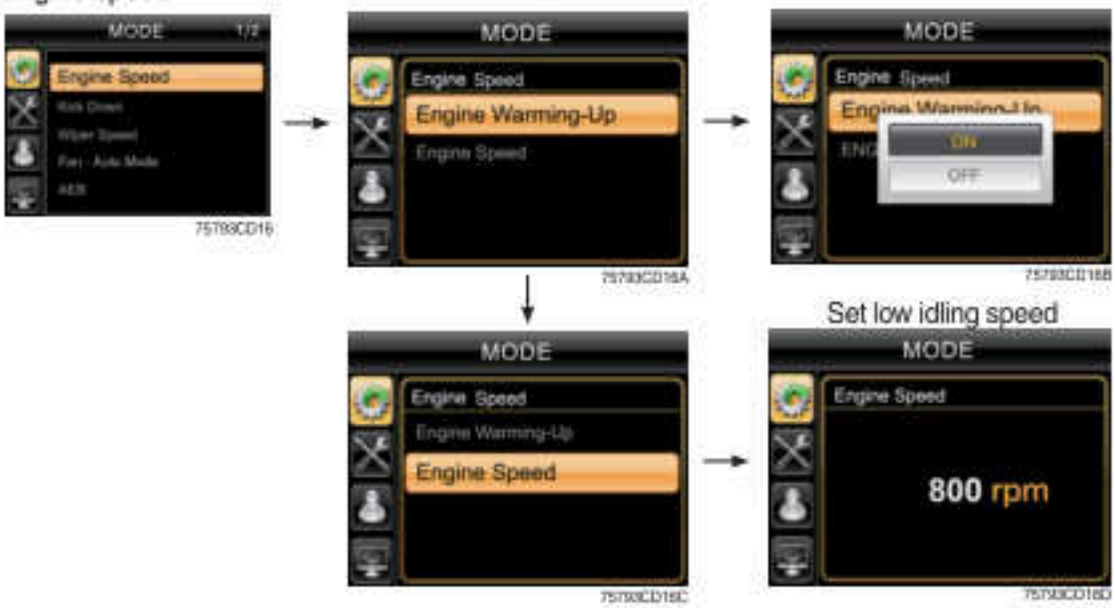


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(2) Mode

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



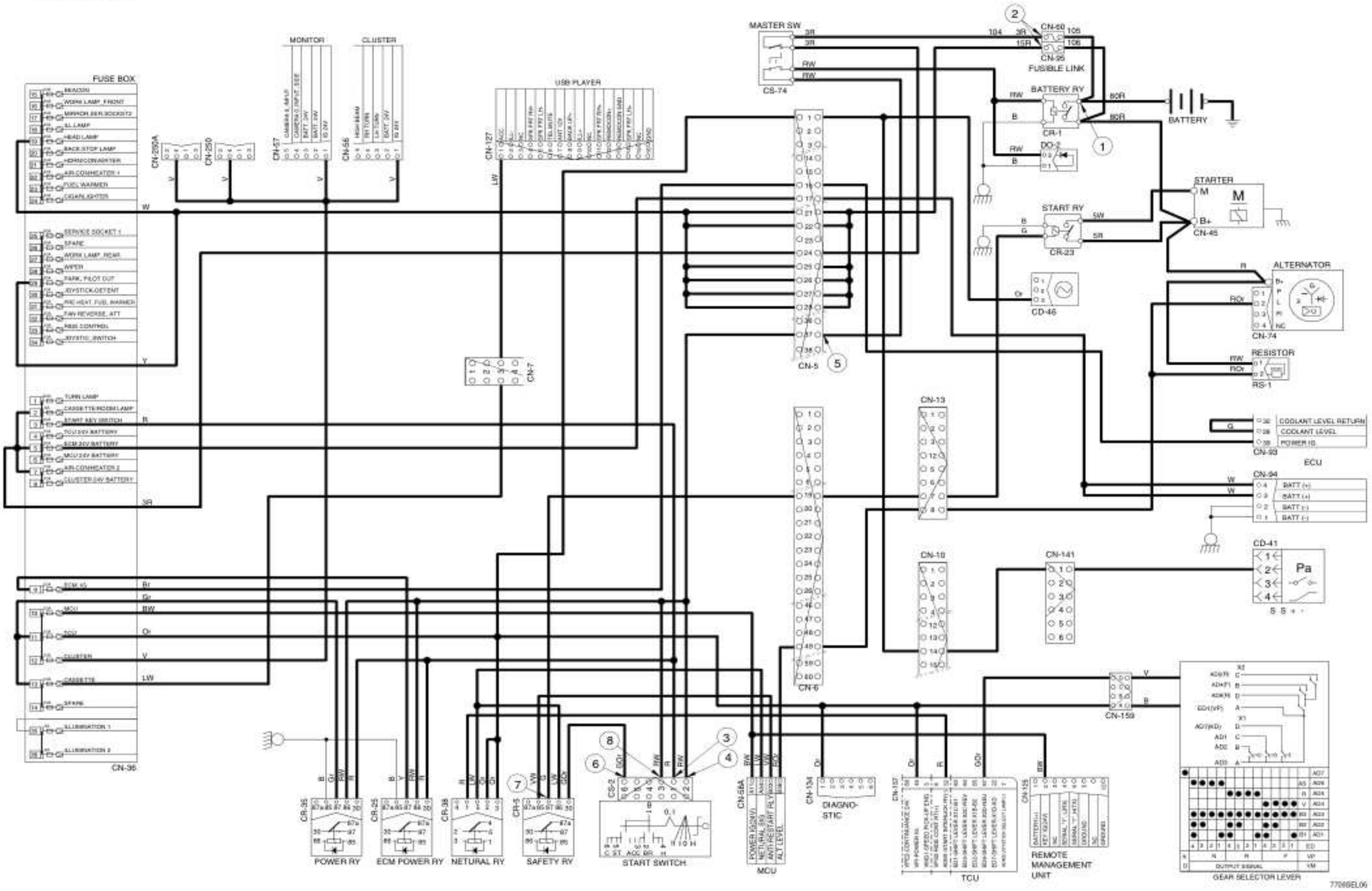
- Select reverse interval or reverse time.
- Set reverse interval (30~300 min) or reverse time (30~300 sec).

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

※ Refer to page 7-44, fan control switch.

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STARTING CIRCUIT



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