WHEEL LOADER

SERVICE MANUAL

SL763G

HYUNDAI

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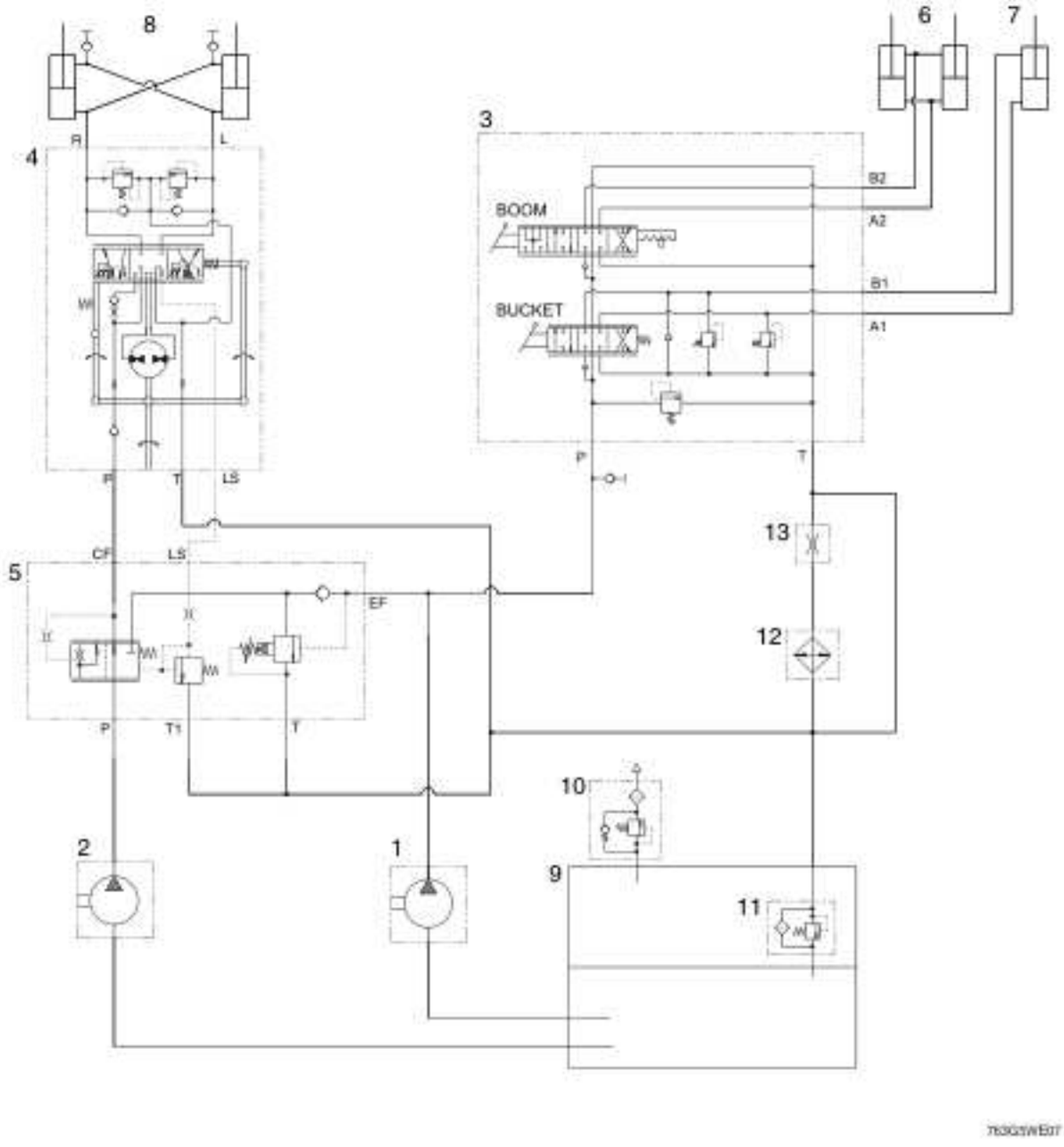
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1. HYDRAULIC CIRCUIT



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1	Main pump	6	Boom cylinder	11	Return filter
2	Steering pump	7	Bucket cylinder	12	Oil cooler
3	Main control valve	8	Steering cylinder	13	Orifice
4	Steering unit	9	Hydraulic tank		
5	Steering valve	10	Air breather		

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4) TROUBLESHOOTING

Problem	Cause	Remedy
Noise in pump	Air in system.	Fasten up all the connectors.
	Insufficient oil supply.	Refill oil to an adequate level.
	Cold oil.	Run slowly.
	Contaminated suction filter.	Clean or replace the filter.
	Too thin suction pipe.	Use a larger pipe.
	Suction pipe is clogged.	Remove the obstruction.
	Clogged air filter in oil tank.	Clean or replace the air filter.
	Poor concentricity of pump and input shaft.	Inspect.
	Severe resonance with tank, peripheral parts of piping.	Check piping, elements and bolts for being securely fastened.
Pump lags in response or no response	Insufficient oil supply.	Refill oil to an adequate level.
	Improper pressure setting of relief valve.	Regulate the pressure of relief valve.
	Worn or damaged pump.	Repair or replace.
	Worn, leaking or stuck valve.	Repair or replace.
High oil temperature	Too low pressure setting at overflow valve.	Regulate pressure of overflow valve.
	Too low viscosity of hydraulic oil.	Use recommended hydraulic oil.
	Too low oil level.	Refill oil to an adequate level.
	Small tank.	Add an oil cooler or replace with larger tank.
	Worn or damaged pump.	Repair or replace.
Foam forms in oil	Air has entered into oil tank through suction pipe.	Fasten up all the connectors.
	Incorrect selection of oil.	Use recommended oil.
	Too low oil level.	Refill oil to an adequate level.
	Worn or damaged lip seal for main shaft.	Replace the lip seal for main shaft.

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4. MAIN HYDRAULIC PUMP FLOW TEST

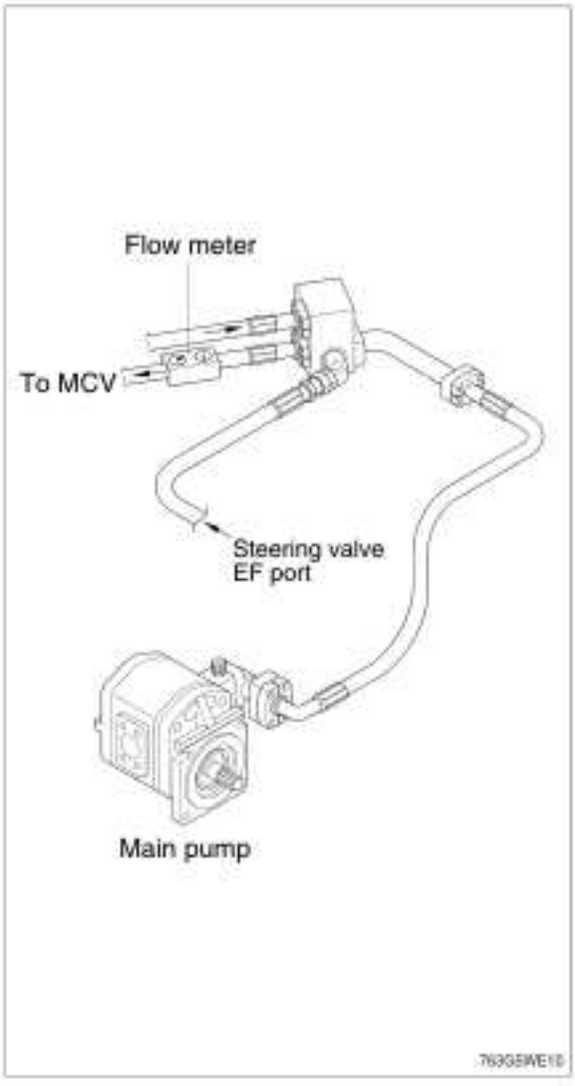
- SPECIFICATION

Oil temperature	45±5°C (113±9°F)
Engine speed	2200±25 rpm
Test pressure	190±5 bar (2760 psi)
Maximum pump flow	270 ℓ /min (71.3 gpm)

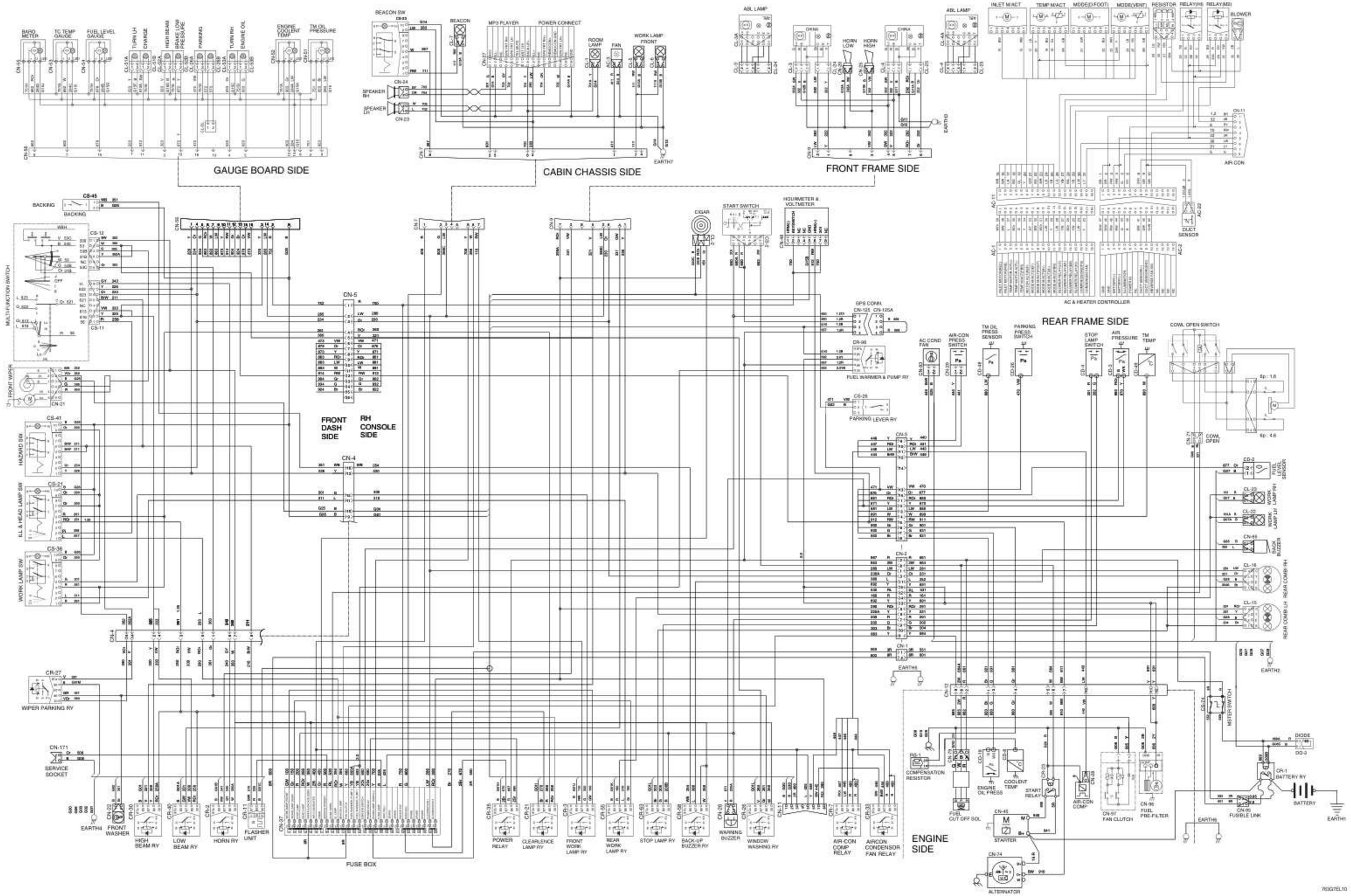
- FLOW METER GAUGE AND TOOL

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