WHEEL LOADER

SERVICE MANUAL

SL733

HYUNDAI

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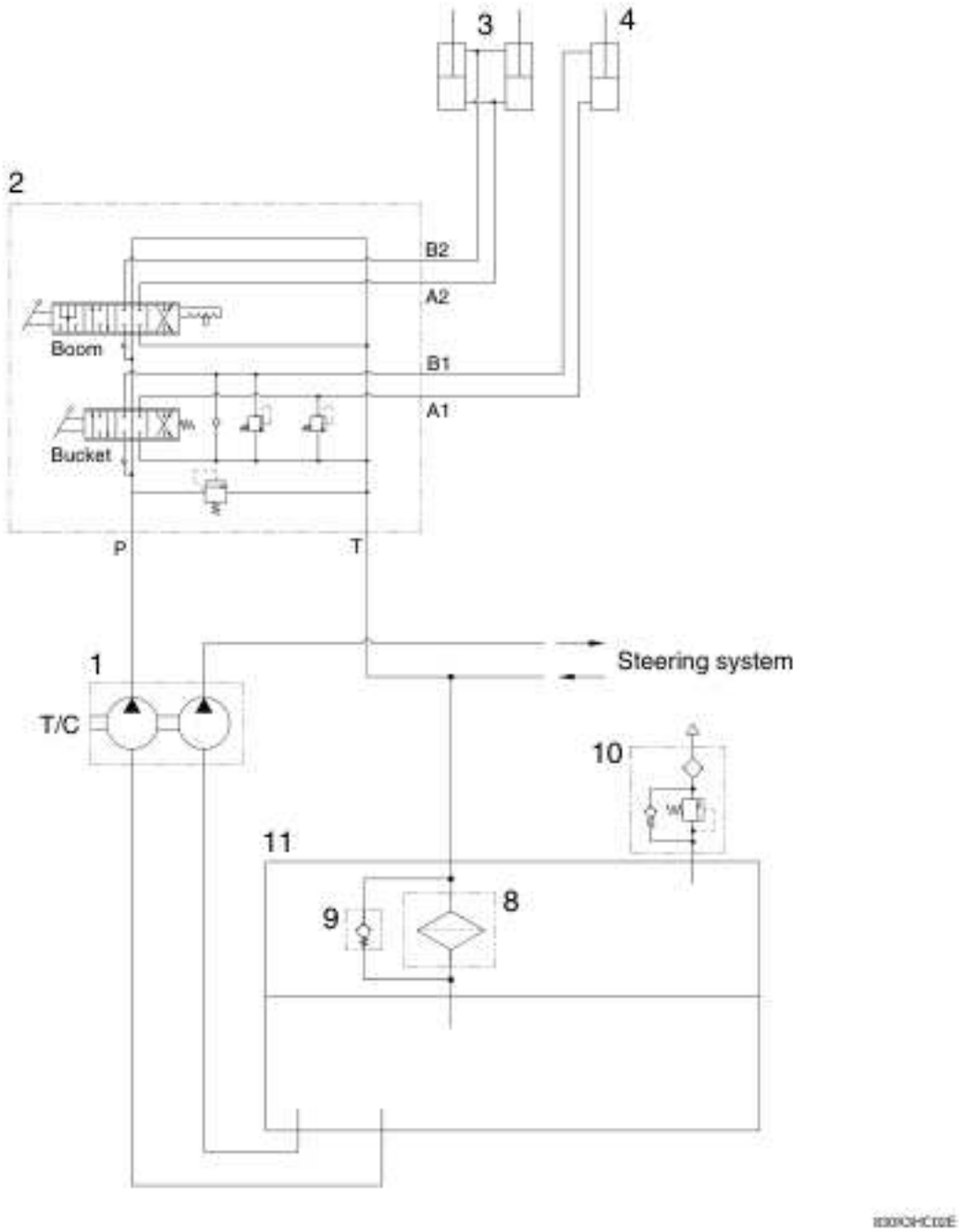
3. SPECIFICATION FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	YC6J125Z-T20
Type	4-cycle turbocharged diesel engine.
Control type	Mechanical control
Cooling method	Water cooling
Number of cylinders and arrangement	6 cylinders, in-line
Firing order	1-5-3-6-2-4
Combustion chamber type	Direct injection type
Cylinder bore × stroke	105 × 125 mm (4.1" × 4.9")
Piston displacement	6494 cc (396 cu in)
Compression ratio	17.5 : 1
Rated gross horse power	92 kW / 2200 rpm
Maximum gross torque at 1400–1600 rpm	500 N · m
Engine oil quantity	16 ℓ (4.2 U.S. gal)
Dry weight	650 kg (1430 lb)
High idling speed	2400 ± 50 rpm
Low idling speed	725 ± 50 rpm
Rated fuel consumption (at rated)	215 g/kW · hr
Starting motor	24 V-6 kW
Alternator	28 V-55 Amp
Battery	2 × 12 V × 120 Ah

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2. WORK EQUIPMENT HYDRAULIC CIRCUIT



1	Main pump	8	Return filter
2	Main control valve	9	Bypass valve
3	Boom cylinder	10	Air breather
4	Bucket cylinder	11	Hydraulic tank

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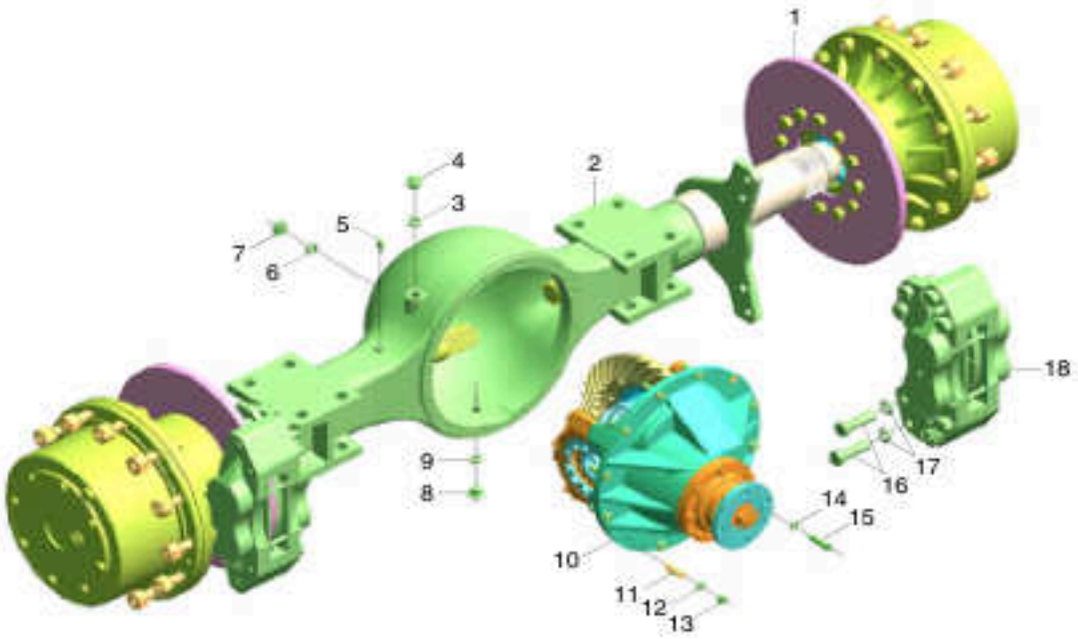
4) TROUBLESHOOTING

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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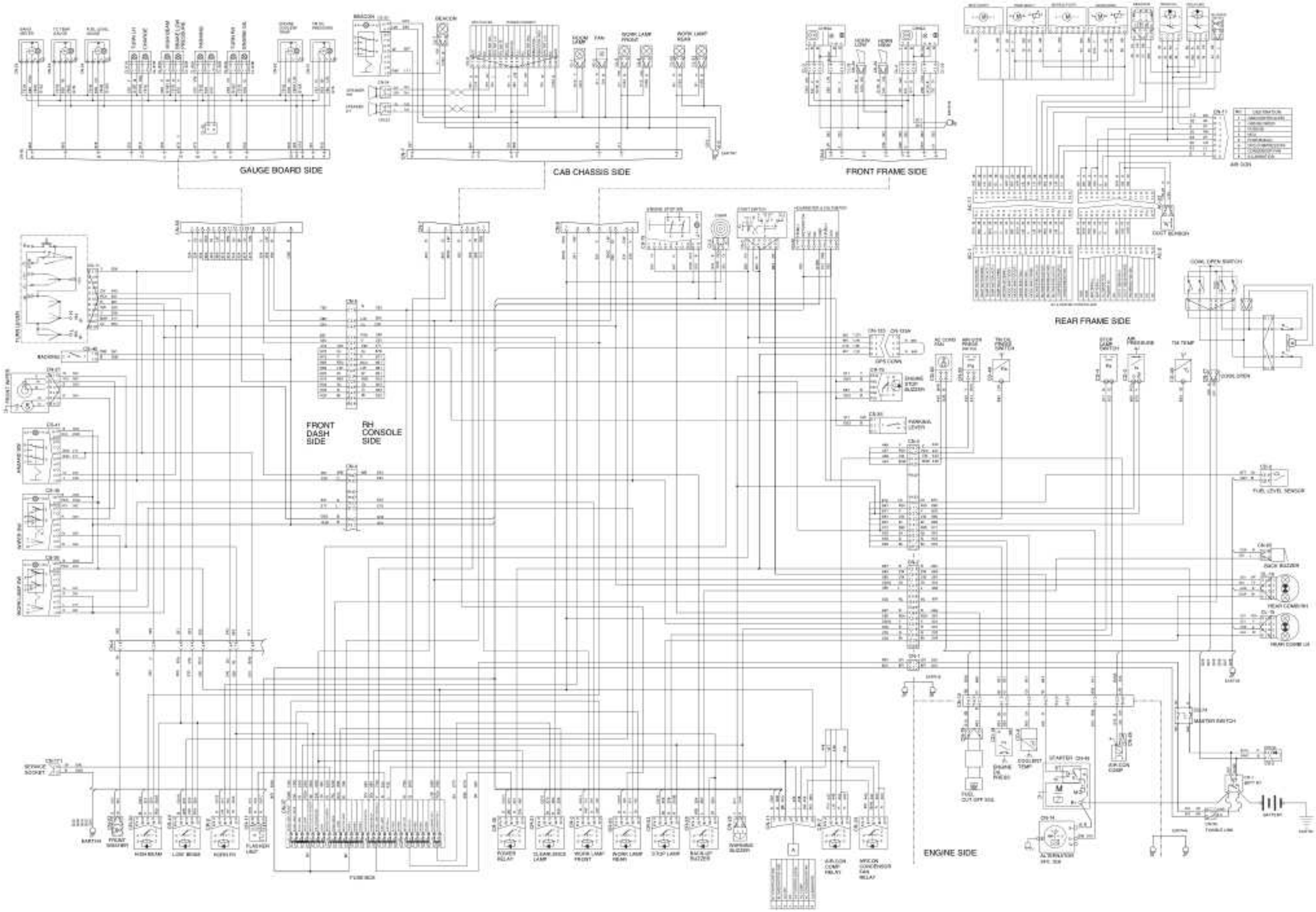
8) STRUCTURE

(1) Drive axle assembly



1	Wheel-end reductor	7	Screw plug	13	Nut
2	Axle housing assy	8	Screw plug	14	Washer
3	O-ring	9	O-ring	15	Bolt
4	Screw plug	10	Final drive assy	16	Bolt
5	Exhaust plug	11	Double end studs	17	Washer
6	O-ring	12	Washer	18	Disc brake assy

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