WHEEL LOADER

# SERVICE MANUAL

## *SL730*

HYUNDAI

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## 3. SPECIFICATION FOR MAJOR COMPONENTS

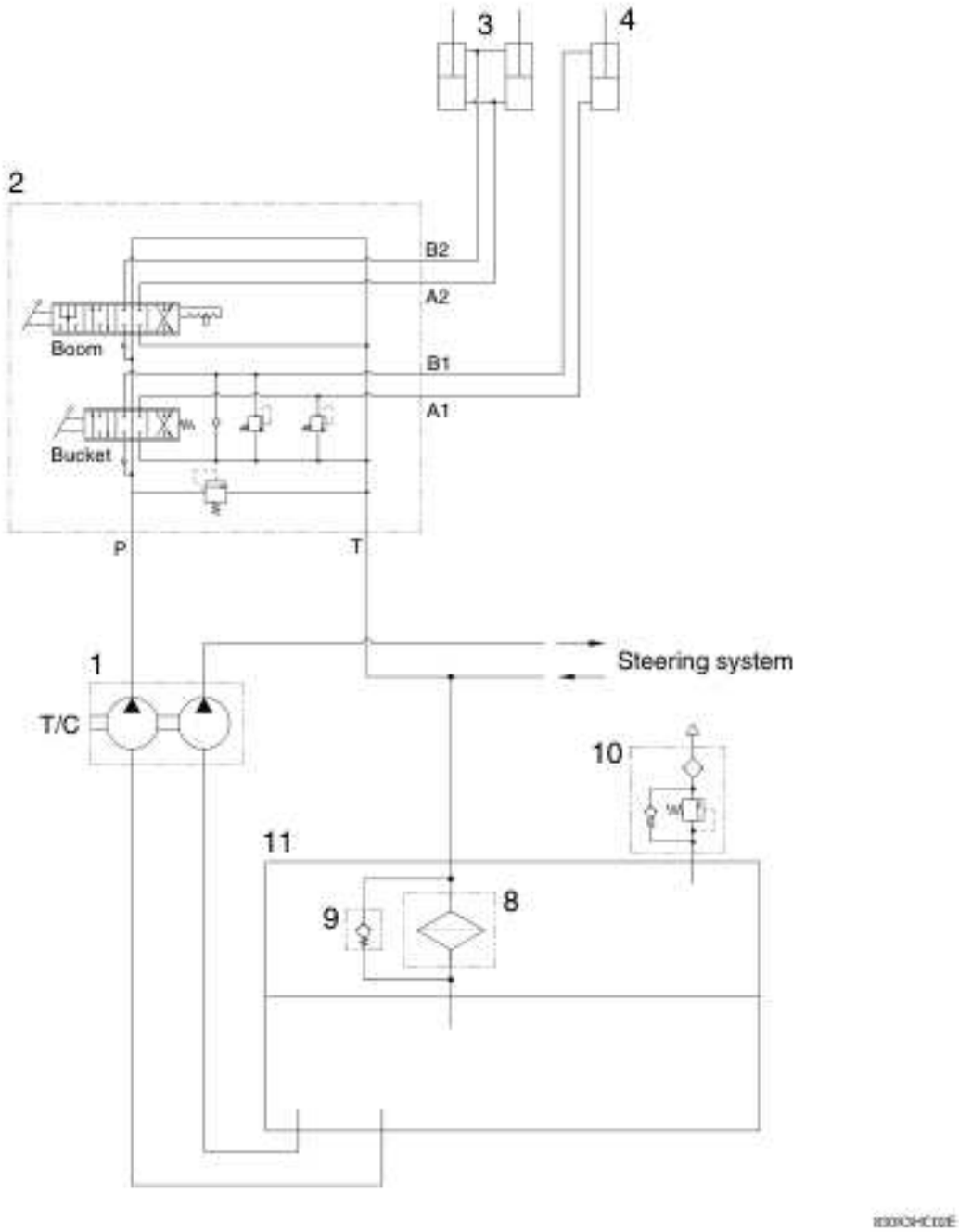
### 1) ENGINE

| 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

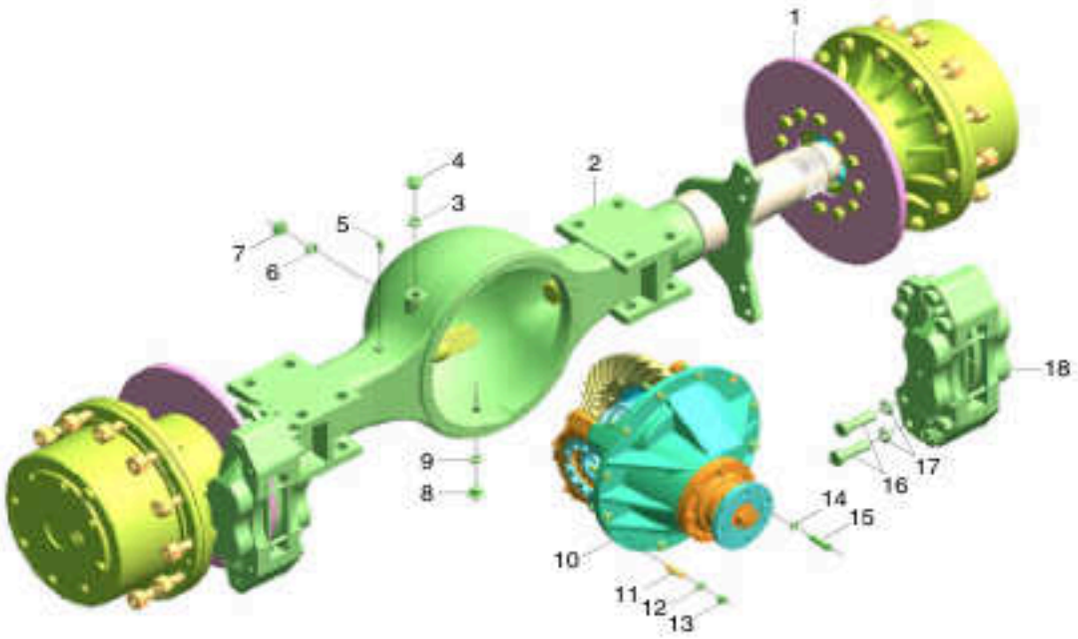
| Problem | Cause | Remedy |
|---|---|---|
| Noise in pump | Air in system. | Fasten up all the connectors. |
| | Insufficient oil supply. | Refill oil to an adequate level. |
| | Cold oil. | Run slowly. |
| | Contaminated suction filter. | Clean or replace the filter. |
| | Too thin suction pipe. | 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

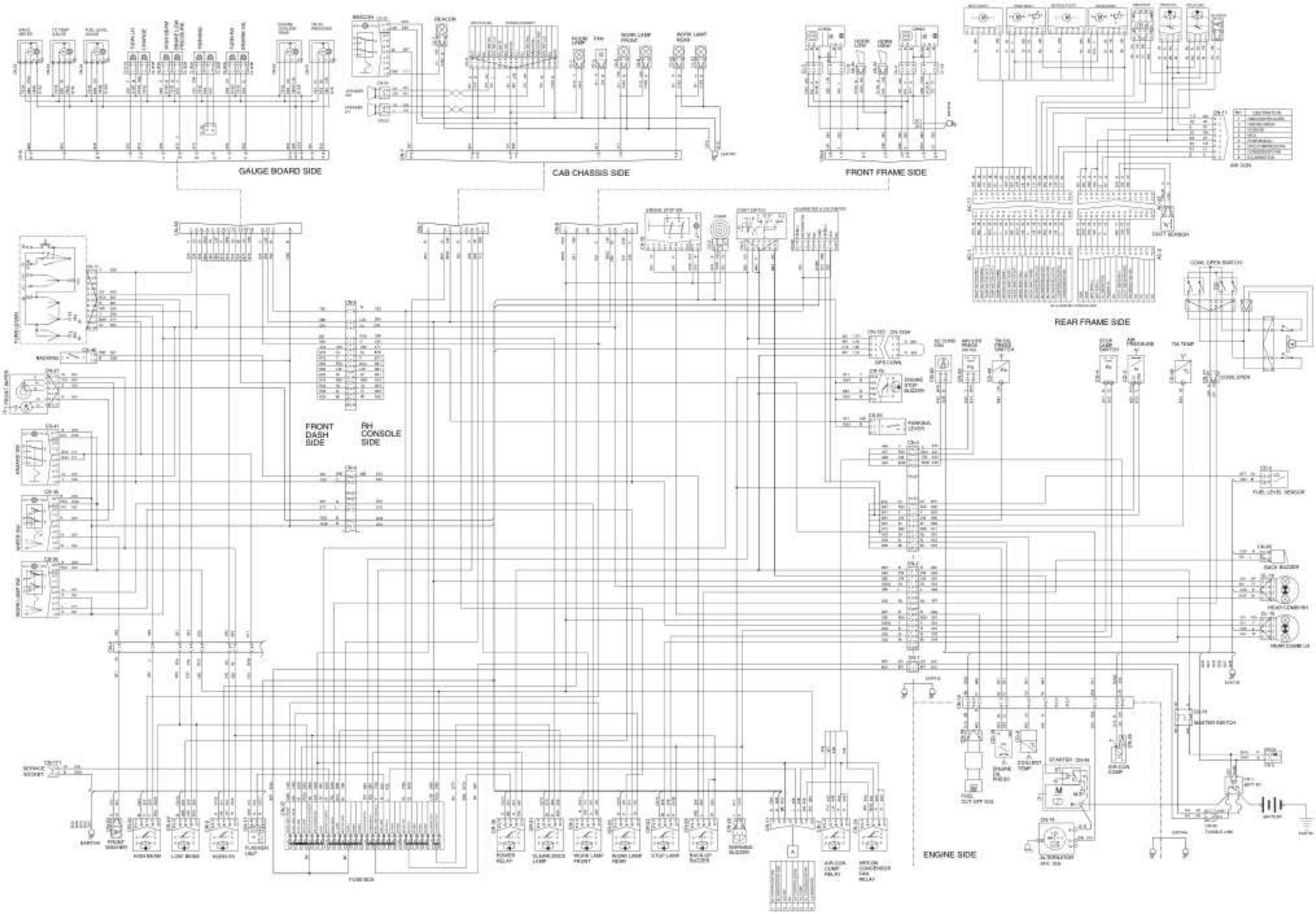
(1) Drive axle assembly




| | | | | | |
|---|---|---|---|---|---|
| 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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