WHEEL LOADER

SERVICE MANUAL

HL757-7S

HYUNDAI

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CONTENTS

SECTION 1 GENERAL

Group 1 Safety Hints 1-1
Group 2 Specifications 1-10
Group 3 Operational Checkout Record Sheet 1-21

SECTION 2 ENGINE

Group 1 Structure and Function 2-1
Group 2 Engine speed and Stall rpm 2-6

SECTION 3 POWER TRAIN SYSTEM

Group 1 Structure and Function 3-1
Group 2 Operational Checks and Troubleshooting 3-46
Group 3 Test and Adjustments 3-57
Group 4 Disassembly and Assembly 3-60

SECTION 4 BRAKE SYSTEM

Group 1 Structure and Function 4-1
Group 2 Operational Checks and Troubleshooting 4-31
Group 3 Tests and Adjustments 4-38
Group 4 Disassembly and assembly 4-40

SECTION 5 STEERING SYSTEM

Group 1 Structure and Function 5-1
Group 2 Operational Checks and Troubleshooting 5-15
Group 3 Tests and Adjustments 5-23
Group 4 Disassembly and Assembly 5-30

SECTION 6 WORK EQUIPMENT

Group 1 Structure and Function 6-1
Group 2 Operational Checks and Troubleshooting 6-33
Group 3 Tests and Adjustments 6-44
Group 4 Disassembly and Assembly 6-58

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SECTION 7 ELECTRICAL SYSTEM

Group 1 Component Location 7-1
Group 2 Electrical Circuit 7-3
Group 3 Monitoring System 7-25
Group 4 Electrical Component Specification 7-39
Group 5 Connectors 7-46
Group 6 Troubleshooting 7-66

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2. TROUBLESHOOTING

1) SERVICE BRAKE

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 section 1)
Step 2. Operational checks (in this group)
Step 3. Troubleshooting
Step 4. Tests and adjustments (see group 3)

Problem	Cause	Remedy
Poor or no brakes	Brake accumulator charge low.	Do brake accumulator check.
	Brake pump standby pressure low.	Do brake pump standby pressure test.
	Brake pressure low.	Do brake valve pressure test.
	Air in system.	Bleed brakes.
	Worn brake surface material.	Inspect brake surface material.
	Leakage in brake valve.	Do brake valve leakage test.
	Leakage in brake piston seal.	Check for an over filled differential. Apply brakes and check for leakage from check plug. ※ It is normal for the oil level to be slightly above the check plug.
Aggressive brakes	Internal restriction in circuit.	Remove lines and components.
	Clutch cut-off switch out of adjustment.	Adjust clutch cut-off switch.
	Brake valve malfunction.	Disassemble and inspect.
	Low oil level.	Check oil level.
Brakes drag	Brake pedal not returning properly.	Inspect floor mat and pedal.
	Debris holding valve partially open in brake valve.	Do brake valve pressure test.
	Warped brake disk.	Inspect brake disk.
	Stuck brake piston.	Repair.
Brakes lock up	Brake valve malfunction.	Clean or replace brake valve.

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5. STEERING VALVE (EHPS) PRESSURE TEST

- SPECIFICATION

Oil temperature	45±5°C (113±9°F)
Engine speed	High idle
Oil pressure	20.1~21.1 MPa (205~215 bar, 2900~3100 psi)

- GAUGE AND TOOL

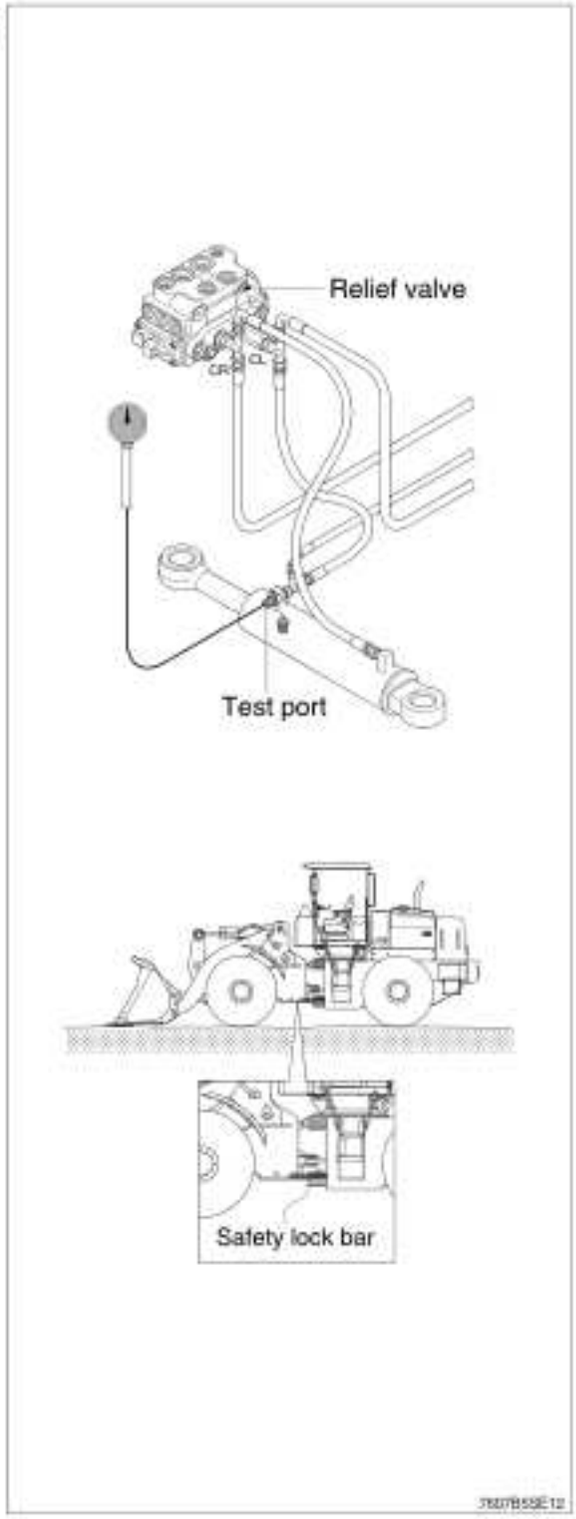
Gauge 0~35 MPa (0~350 bar, 0~5000 psi)
Temperature reader

1) Connect gauge to test port.
2) Install temperature reader (see installation procedure in this group).
3) Install frame locking bar.
4) Heat hydraulic oil to specifications (see hydraulic oil warm up procedure at page 6-48).
5) Run engine at specifications and turn steering wheel rapidly hold approximately 22N (5lb force) pressure on wheel with frames locked.

※ If steering wheel is turned slowly, it will continue to with the frames locked.
This will give an incorrect pressure reading.
If steering wheel continues to turn rapidly with the frames locked, steering system leakage is indicated.

6) Read pressure gauge. This is the steering valve relief pressure.
7) If pressure in not to specification, turn adjusting screw in relief cartridge using a hex head wrench (6 mm) to adjust pressure.

If pressure cannot be adjusted to specification, disassemble and inspect steering valve.



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1. CONNECTOR DESTINATION

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-1	58	2	I/conn (Main harness-Frame harness)	S813-030200	S813-130200
CN-4	AMP	15	I/conn (Main harness-Frame harness)	2-85262-1	368301-1
CN-5	AMP	15	I/conn (Frame harness-Main harness)	2-85262-1	368301-1
CN-6	AMP	15	I/conn (Main harness-Frame harness)	2-85262-1	368301-1
CN-7	AMP	15	I/conn (Main harness-Cab harness)	2-85262-1	368301-1
CN-9	AMP	12	I/conn (Main harness-Front harness)	S816-012002	S816-112002
CN-10	AMP	15	I/conn (Main harness-Front harness)	2-85262-1	368301-1
CN-11	DEUTSCH	8	I/conn (Main harness-Aircon harness)	DT06-8S	-
CN-13	Econoseal J	15	I/conn (Frame harness-Engine harness)	S816-012002	S816-112002
CN-18	Econoseal J	4	I/conn (Ride control harness-Front harness)	S816-004002	S816-004002
CN-20	Molex	2	Horn	36825-0211	-
CN-21	HW070 sealed	6	Front wiper motor	6189-0133	-
CN-22	SWP	2	Front washer tank	S814-002000	-
CN-23	KET	2	Speaker (LH)	7123-1520	-
CN-24	KET	2	Speaker (RH)	7123-1520	-
CN-25	Molex	2	Horn	36825-0211	-
CN-26	250	2	Warning buzzer	S810-002202	-
CN-27	PA	9	Radio & USB player	S811-009003	-
CN-28	MWP	1	Aircon compressor	NMWP01F-B	-
CN-29	KET	2	Receiver drier	MG640795	-
CN-36	-	81	Fuse box	21N8-20041	-
CN-45	Ring term	3	Starter	R14-12/R5-12 ST710384-2	-
CN-56	AMP	20	Cluster	174047-2	-
CN-58	Econoseal III	36	Controller (MCU)	344111-1	-
CN-59	AMP	23	Controller (MCU)	770680-1	-
CN-60	58	2	Fusible link	21EA-40171	S813-130200
CN-65	DEUTSCH	2	Back up buzzer	DT06-2S-EP06	-
CN-71	DEUTSCH	2	Parking solenoid	DT06-2S-EP06	-
CN-74	PACKARD	2	Alternator	1288-6568	-
CN-79	PACKARD	3	Engine stop solenoid	-	1201-5793
CN-83	NMWP	32	Aircon fan	PB625-02027	-

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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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(14) Assemble nut (34).

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



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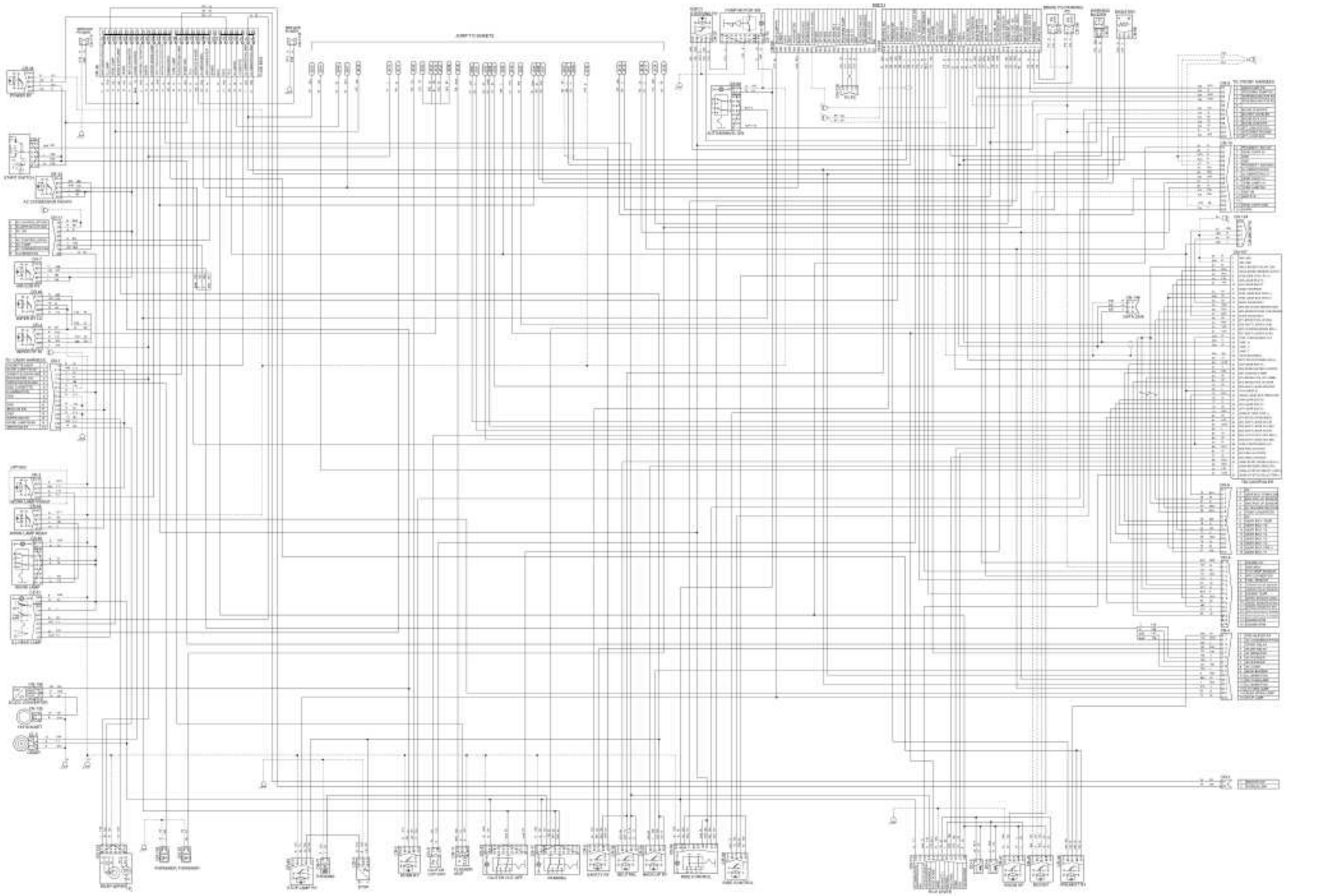
(15) Assemble the boot (35).



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· Cap type (1/2, opt)



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