WHEEL LOADER

SERVICE MANUAL

HL955, HL955TM

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 1-23

SECTION 2 ENGINE

Group 1 Structure and Function 2-1
Group 2 Engine speed and Stall rpm 2-12
Group 3 Fuel Warmer System 2-13

SECTION 3 POWER TRAIN SYSTEM

Group 1 Structure and Function (fault code) 3-1
Group 2 Operational Checks and Troubleshooting 3-78
Group 3 Test and Adjustments 3-90
Group 4 Disassembly and Assembly 3-92

SECTION 4 BRAKE SYSTEM

Group 1 Structure and Function 4-1
Group 2 Operational Checks and Troubleshooting 4-32
Group 3 Tests and Adjustments 4-39
Group 4 Disassembly and assembly 4-41

SECTION 5 STEERING SYSTEM

Group 1 Structure and Function 5-1
Group 2 Operational Checks and Troubleshooting 5-13
Group 3 Tests and Adjustments 5-21
Group 4 Disassembly and Assembly 5-28

SECTION 6 WORK EQUIPMENT

Group 1 Structure and Function 6-1
Group 2 Operational Checks and Troubleshooting 6-40
Group 3 Tests and Adjustments 6-51
Group 4 Disassembly and Assembly 6-63

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SECTION 7 ELECTRICAL SYSTEM

Group 1 Component Location 7-1
Group 2 Electrical Circuit 7-3
Group 3 Monitoring System 7-22
Group 4 Electrical Component Specification 7-69
Group 5 Connectors 7-76
Group 6 Troubleshooting 7-97

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2) MAIN PUMP

Item	Specification
Type	Variable piston pump
Capacity	54+38 cc/rev
Maximum operating pressure	280 kgf/cm² (3980 psi)
Rated oil quantity	185 ℓ /min (48.8 U.S.gpm / 40.6 U.K.gpm)
Maximum speed	2230 rpm

3) FAN AND BRAKE PUMP

Item	Specification
Type	Variable piston pump
Capacity	28 cc/rev
Maximum operating pressure	250 kgf/cm² (3560 psi)
Rated oil quantity	56 ℓ /min (15.6 U.S.gpm)
Maxmum speed	2230 rpm

4) MAIN CONTROL VALVE

Item	Specification
Type	2 spool
Operating method	Hydraulic pilot assist
System pressure	280 kgf/cm² (3980 psi)
Overload relief valve pressure	340 kgf/cm² (4840 psi) / *300 kgf/cm² (4270 psi)

* : Bucket dump

5) ELECTRO-HYDRAULIC BLOCK

Item	Specification
Type	Proportional pressure reducing vlave
Control current	0–950 mA
Resistance	10.5 Ω
Normal flow	12 ℓ /min (3.17 U.S.gpm)

6) REMOTE CONTROL VALVE (EH TYPE)

Item	Specification
Type	Fingertip
Axle	Single axle for boom, bucket, auxiliary
Operating voltage	4.5–5.5 V
Output signal	0.5–4.5 V (neutral 2.5 V)

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2. TROUBLESHOOTING

1) TRANSMISSION

- 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/or adjustments (See group 3.)

Problem	Cause	Remedy
Transmission slippage	Low oil level.	Add oil.
	Wrong oil grade.	Change oil.
	Restricted transmission pump suction screen.	Remove and clean screen.
	Leak in transmission control valve or gasket.	Remove valve and inspect gaskets.
	Low transmission pump flow due to worn pump.	Do transmission pump flow test.
	Weak or broken pressure regulating valve spring.	Do transmission system pressure test.
Error code on display	Something wrong in transmission.	Go to transmission fault code group at page 3-57~3-73.

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GROUP 5 CONNECTORS

1. CONNECTOR DESTINATION

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-1	DEUTSCH	48	I/conn (Frame harness-Main harness)	DRB16-48SAE-L018	DRB12-48PAE-L018
CN-2	DEUTSCH	60	I/conn (Front harness-Main harness)	DRB12-60SBE-L018	DRB12-60PBE-L018
CN-4	DEUTSCH	60	I/conn (Engine harness-Main harness)	DRB16-60SAE-L018	DRB12-60PAE-L018
CN-5	DEUTSCH	60	I/conn (Front harness-Main harness)	DRB16-60SAE-L018	DRB12-60PAE-L018
CN-7	AMP	15	I/conn (Main harness-Cab harness)	2-85262-1	368301-1
CN-9	DEUTSCH	4	Cab camera	DT06-4S	DT04-4P
CN-11	AMP	15	I/conn (Main harness-Aircon harness)	2-85262-1	368301-1
CN-12	AMP	15	I/conn (Front harness-Bottom harness)	2-85262-1	368301-1
CN-14	DEUTSCH	12	I/conn (Frame harness-Grill harness)	DT06-12S	DT04-12P
CN-15	KET	11	I/conn (RH console harness-Main harness)	MG651350	MG641353
CN-16	KET	14	I/conn (RH console harness-Main harness)	MG651110	MG641113
CN-18	DEUTSCH	12	LH seat console	DT06-12S	DT04-12P
CN-19	Econoseal J	6	I/conn (Emer steer harness-Front harness)	S816-006002	S816-106602
CN-21	AMP	6	Front wiper motor	936257-1	-
CN-24	DEUTSCH	12	Grill harness	DT06-12S	-
CN-26	250	2	Warning buzzer	S810-002202	-
CN-26A	AMP	10	Joystick steering	-	174657-2
CN-27	MK II	16	Radio and USB player	PK145-16017	-
CN-27A	MK II	8	USB connector	174984-2	-
CN-31	DEUTSCH	3	Brake priority	DT06-3S	-
CN-36~39	-	-	Fuse box	21WD-12051	-
CN-43	AMP	2	Lock-up	282028	-
CN-45	Ring term	-	Starter	R14-12	ST 710246-2
CN-48	AMP	1	Hour meter	2-520193-2	-
CN-56	KUM	16	Cluster	KPK145-16017	-
CN-57	AMP	20	Monitor	174047-2	-
CN-58A	DEUTSCH	40	MCU	DRC26-40-SA	-
CN-58B	DEUTSCH	40	MCU	DRC26-40-SB	-
CN-64	MOLEX	4	Smart key	39012040	-
CN-65	DEUTSCH	2	Back up buzzer	DT06-2S	-
CN-68	DEUTSCH	2	Pilot cut off	DT06-2S	-
CN-71	DEUTSCH	2	Parking solenoid	DT06-2S	-
CN-72	DEUTSCH	2	Cowl open activator	DT06-2S	-

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5) DISASSEMBLY AND ASSEMBLY

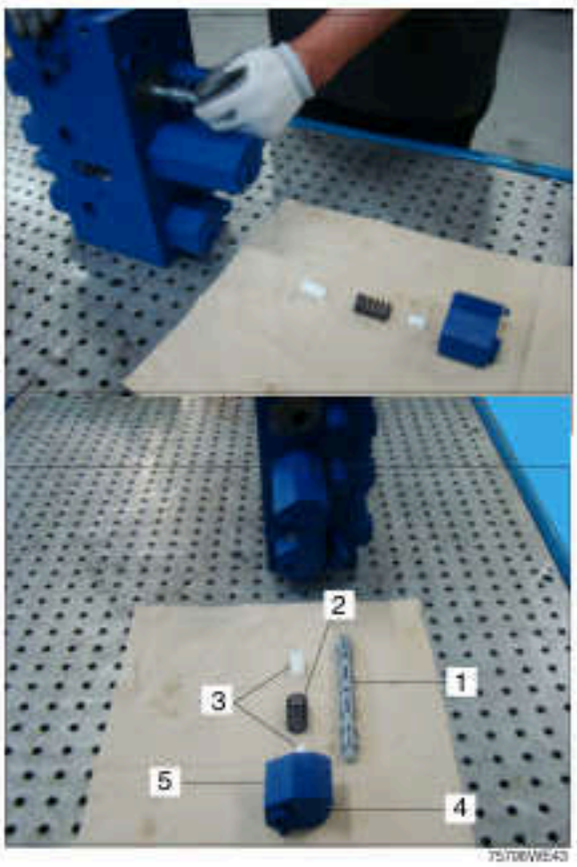
(1) Spool

① Loosen the bolt (2EA).

- Tool : Wrench 4 mm
- Tightening torque : 0.85 kgf · m (6.1 lbf · ft)



② Remove the cover, spring retainer, spring and spool.



1 Spool
2 Spring
2 Spring ratainer
4 Bolt
5 Cover

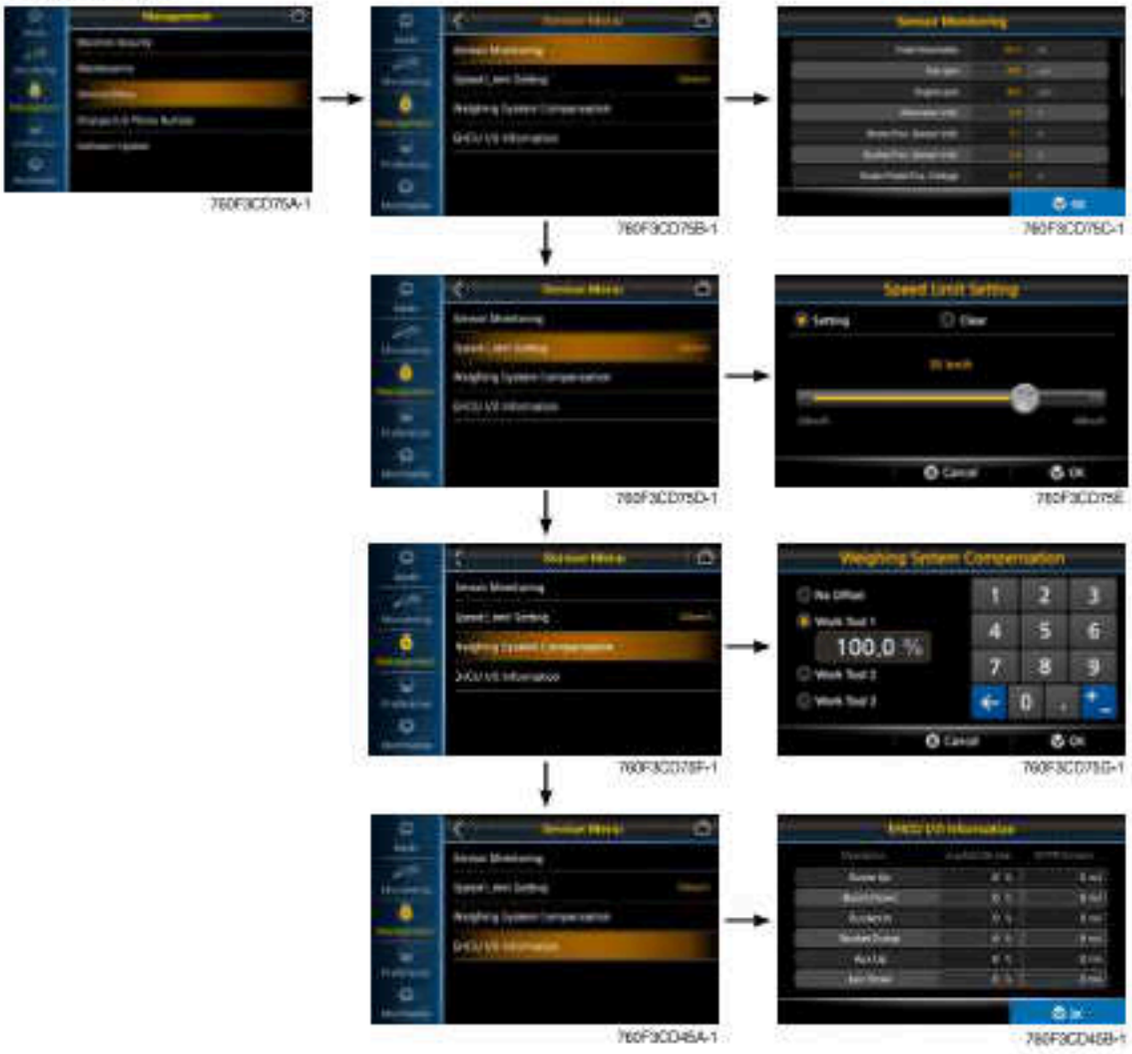
(2) Port relief valve

- Tool : Spanner 24 mm



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③ Service menu



- **Sensor monitoring** : Display information of each sensors.
- **Speed limit setting** : 20~40 km/h (5 km/h intervals)
- **Weighing system compensation**
  - Calibration workload depending on work tool.
  - ※ **Only for the service person. Do not adjust arbitrary.**
- **EHCU I/O information**
  - Real time monitoring (joystick stroke, EPPR current).

④ Change A/S phone number and software update



- Change A/S phone number : Check and change of contact information for customer service.
- Software update : Update file in USB memory.

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