WHEEL LOADER

SERVICE MANUAL

HL740-9A

HYUNDAI

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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 :

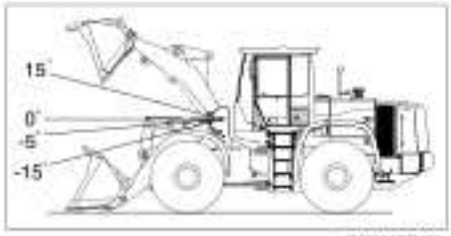
Step 1. Operational check out procedure (see section 1)
Step 2. Operational checks (in this group)
Step 3. Troubleshooting
Step 4. Tests and adjustments (see group 3)

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.
	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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❋ Weighing system

■ Principle



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- The weight indication in bucket is calculated by measuring boom position and boom pressure.
  - ⓐ The weight is '0.0 ton' when the boom is placed at below -15°.
  - ⓑ The weight is indicated when the boom is placed at the range (-5°→15°).
  - ⓒ The weight is calculated when the boom is placed at above -5° and boom is lowered below -15° after dumping operation.
    In order to recheck weight, go to the ⓑ after changing boom position (below -15°).
- Dump operation : It is checked by bucket cylinder's stroke change (below 250 mm).

■ Monitor display

- When pressing work load switch less than 2 seconds, the weight is shown sequence basis. (main display 1→2→3→4→1)

Main display 1



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Press

Main display 2



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Press

Press

Main display 4



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Press

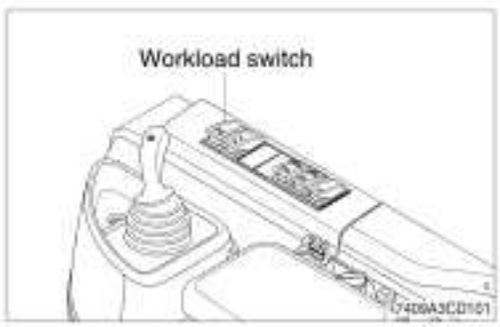
Main display 3



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D	Work weight (today)
D-1	Work weight (previous day)
A Total / B Total / C Total	Total weight accumulated in memory A, B, C individually regardless of date
	Current weight

- Default accumulated value at memory A, B, C when pressing work load switch more than 2 seconds (default : 0.0 ton).



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GROUP 5 CONNECTORS

1. CONNECTOR DESTINATION

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-5	DEUTSCH	48	I/conn (Frame harness-Main harness)	DRB16-48SAE-L018	DRB12-48PAE-L018
CN-6	DEUTSCH	60	I/conn (Frame harness-Main harness)	DRB16-60SBE-L018	DRB12-60PBE-L018
CN-7	AMP	15	I/conn (Main harness-Cab harness)	2-85262-1	368301-1
CN-9	AMP	15	I/conn (Cab harness-Main harness)	358301-1	2-85262-1
CN-10	DEUTSCH	24	I/conn (Frame harness-Front harness)	HD34-24-23PE	HD36-24-23SE
CN-11	DEUTSCH	8	I/conn (Main harness-Aircon harness)	DT06-8S	DT04-8P
CN-12	AMP	15	I/conn (Frame harness-Bottom harness)	2-85262-1	368301-1
CN-13	DEUTSCH	12	I/conn (Frame harness-Engine harness)	DT06-12S	DT04-12P
CN-14	DEUTSCH	12	I/conn (Frame harness-Grill harness)	DT06-12S	DT04-12P
CN-19	Econoseal J	6	I/conn (Emer steer harness-Frame harness)	S816-006002	S816-106602
CN-20	DEUTSCH	2	Horn	DT06-2S	-
CN-21	AMP	6	Front wiper motor	936257-1	-
CN-22	KET	2	Front washer tank	MG640605	-
CN-23	KET	2	Speaker (LH)	7123-1520	-
CN-24	KET	2	Speaker (RH)	7123-1520	-
CN-25	DEUTSCH	2	Horn	DT06-2S	-
CN-26	250	2	Warning buzzer	S810-002202	-
CN-27	MK II	16	Radio and USB player	PK145-16017	-
CN-27A	MK II	8	USB connector	174984-2	-
CN-27B	TYCO	18	USB socket	316988-6	-
CN-28	NMWP	1	Aircon compressor	PB625-01027	-
CN-29	KET	2	Receiver drier	MG640795	-
CN-36	-	-	Fuse box	21Q7-10910	-
CN-45	Ring term	-	Starter	R14-12	ST 710246-2
CN-56	AMP	20	Cluster	174047-2	-
CN-57	AMP	20	Monitor	174047-2	-
CN-58A	DEUTSCH	40	MCU	DRC26-40-SA	-
CN-58B	DEUTSCH	40	MCU	DRC26-40-SB	-
CN-60	58	2	Fusible link	07. 00910	03. 210000
CN-64	MOLEX	4	Smart key	39012040	-
CN-65	DEUTSCH	2	Back up buzzer	DT06-2S	-
CN-68	DEUTSCH	2	Safety	DT06-2S-EP06	-
CN-71	DEUTSCH	2	Parking solenoid	DT06-2S-EP06	-
CN-74	PACKARD	4	Alternator	1218-6568	-

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5) DISASSEMBLY AND ASSEMBLY

(1) Spool

① Loosen the bolt (2EA).

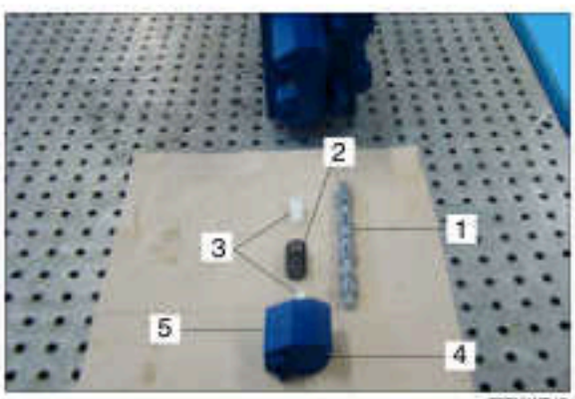
- Tool : Wrench 4 mm
- Tightening torque : 0.85 kgf · m (61 lbf · ft)



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

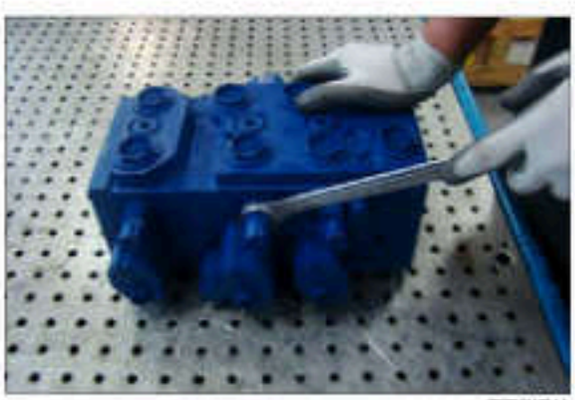


1 Spool
2 Spring
2 Spring ratainer
4 Bolt
5 Cover



(2) Port relief valve

- Tool : Spanner 24 mm



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⑤ Rear camera



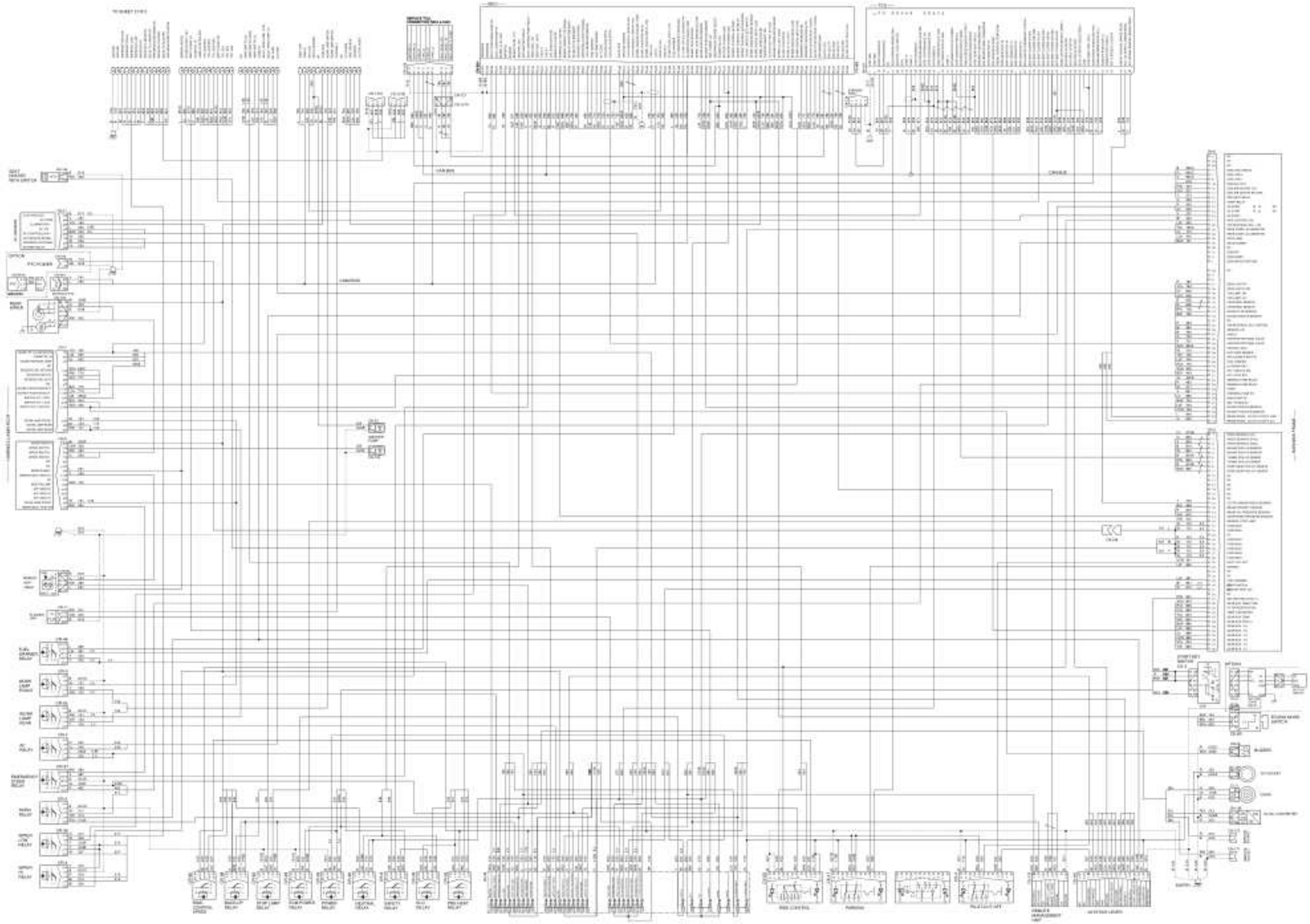
- Reverse mode
  - If transmission engages the reverse gear (R1~R3), the camera mode is displayed automatically in main display.
- Active camera
  - Three cameras can be installed on the machine.
- Display order
  - Set the channel sequence of each camera.
- If the camera was not equipped, this menu is not useful.
- In main display, if the ▣/ESC button is pushed, the first ordered display camera will be viewed.

⑥ Language



- User can select preferable language and all display are changed the selected language.
- 18 multi-language available.

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