WHEEL LOADER

SERVICE MANUAL

HL760-9

HYUNDAI

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SECTION 1 GENERAL

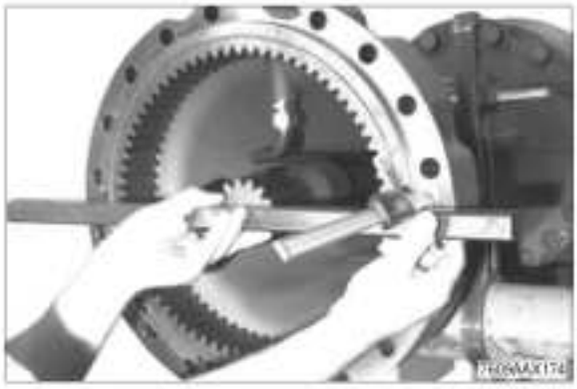
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㉓ Measure dimension II, from the front face of the sun gear shaft to the mounting surface of the axle housing.

Dimension II e.g. ..... 17.15 mm

Straightedge 5870 200 022



CALCULATION EXAMPLE :

Dimension I	19.75 mm
Dimension II	- 17.15 mm
Difference	2.60 mm
Required axial play e.g.	- 1.00 mm
Difference = shim e.g.	**s = 1.60 mm**

㉔ Insert sun gear shaft into the planetary carrier.

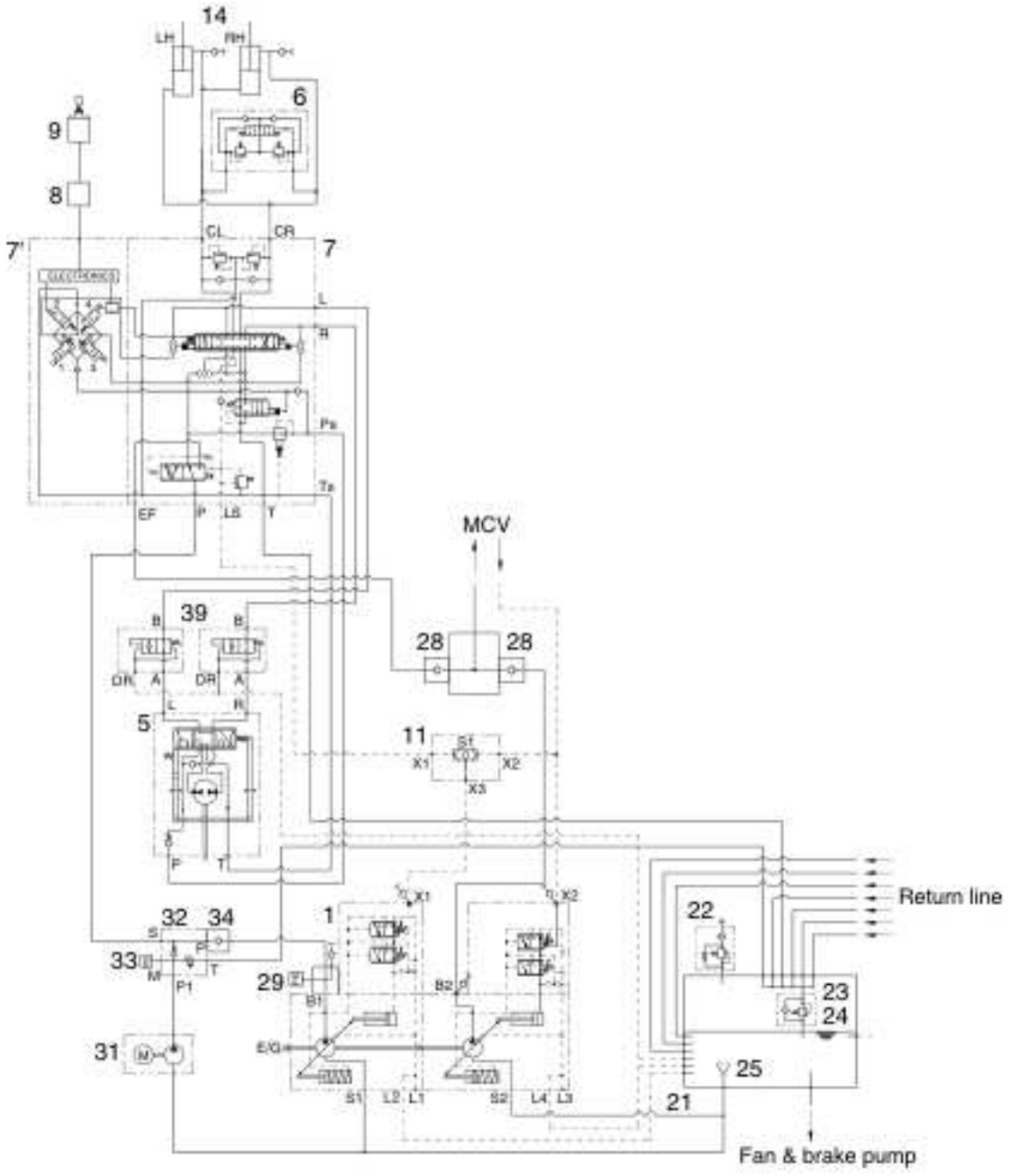


㉕ Fix determined shim (s) e.g. s = 1.60 mm with grease into the sun gear shaft.



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2. HYDRAULIC CIRCUIT



1	Main pump (steering)	11	Shuttle valve	28	Check valve
5	Steering unit	14	Steering cylinder	29	Pressure sensor
6	Cushion valve	21	Hydraulic tank	31	Motor pump (option)
7	Steering valve (EHPS)	22	Air breather	32	Check block (option)
7'	Electric steering valve (option)	23	Return filter	33	Pressure sensor (option)
8	Controller (option)	24	Bypass valve	34	Check valve (option)
9	Joystick (option)	25	Strainer	39	Stop valve (option)

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2. TROUBLESHOOTING

※ 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 (see group 2)
Step 3. Troubleshooting
Step 4. Tests and adjustments (see group 3)

Problem	Cause	Remedy
Noisy hydraulic pump	Low oil supply or wrong viscosity.	Fill reservoir with recommended oil.
	Plugged or pinched suction line.	Clean or replace line.
	Air in oil.	Check for foamy oil. Tighten connections. Replace O-rings and or lines.
	Plugged suction strainer.	Inspect and clean strainer in reservoir.
	Loose or missing hydraulic line clamps.	Tighten or replace clamps.
	Hydraulic lines in contract with frame.	Inspect and repair.
	Worn or damaged pump.	Do hydraulic pump performance check in group 2. Do hydraulic pump flow test in group 3.
No or Slow hydraulic functions	Failed or worn hydrualic pump.	Do performance check.
	Cold oil.	Warm oil up.
	Slow engine speed.	Adjust engine speed. Check high idle speed.
	Suction line air leak.	Check for foamy oil.
	Low oil supply.	Add recommended oil.
	Wrong oil viscosity.	Use recommended oil.
	Oil leaking past cylinders or control valve.	Check cylinder drift in group 2.
	Blocked or damaged line.	Inspect lines.
	Faulty pilot control valve (RCV).	Do pilot control valve (RCV) pressure test in group 3.
	Binding loader control valve (MCV) spool.	Inspect valve.
	Faulty steering valve (EHPS).	Check priority valve, orifice of steering valve (EHPS) specification.

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5) DISASSEMBLY AND ASSEMBLY

(1) Spool

① Loosen the bolt (2EA).

- Tool : Wrench 5 mm
- Tightening torque : 0.85 kgf · m (6.1 lbf · ft)



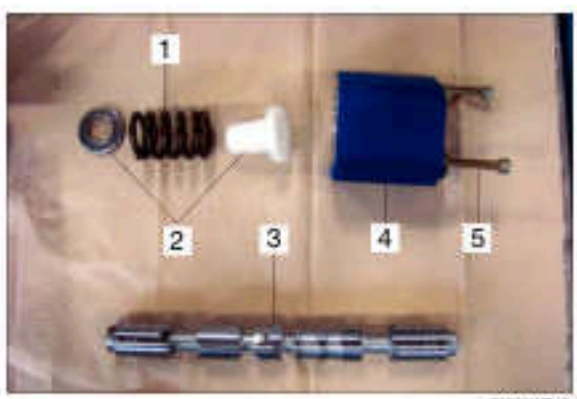
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② Remove the cover, spring retainer, spring and spool.



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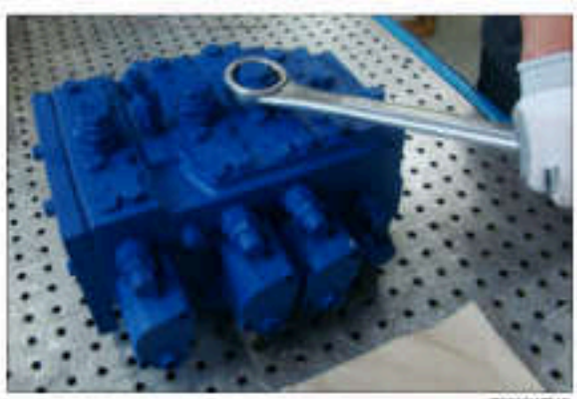
1 Spring
2 Spring ratainer
3 Spool
4 Cover
5 Bolt



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(2) Compensator valve

- Tool : Spanner 42 mm

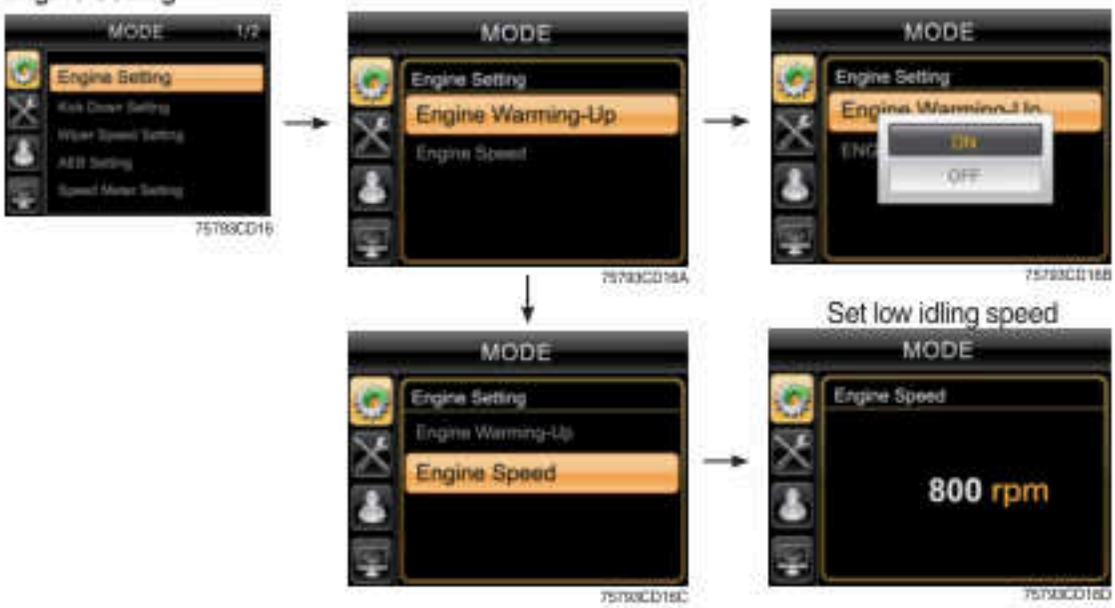


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(2) Mode

① Engine setting



② Kick down setting



- Mode 1 (down/up) : Press kick down button once, shift down and press button again, shift up.
- Mode 2 (down only) : Press kick down button every time, shift to lower gear respectively.

※ Refer to page 7-50.

③ Wiper speed setting



- Setting wipe speed 1 to 4.

④ Fan-auto mode



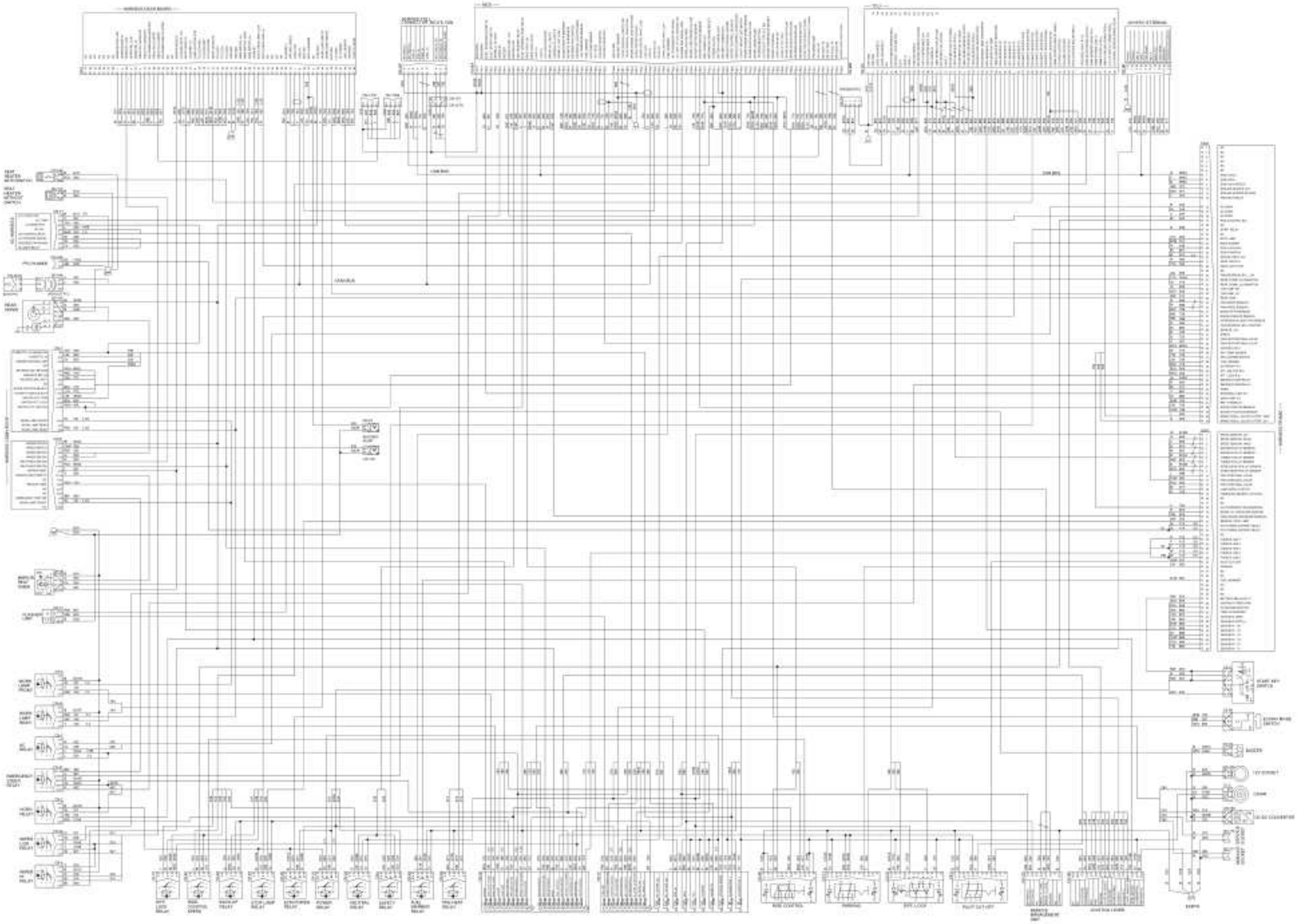
- Select reverse interval or reverse time.
- Set reverse interval (30~300 min) or reverse time (30~300 sec).

※ Default : Interval (60 min), time (120 sec)

※ Refer to page 7-46, fan control switch.

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· ELECTRICAL CIRCUIT (1/2) : Machine serial No.-#0054



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