WHEEL LOADER

SERVICE MANUAL

HL780-9

HYUNDAI

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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 error code group at page 3-32~3-51.

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Example "B_1" :

Dimension I	39.70 mm
Dimension X($1.0^{+0.5}$mm)	- 1.20 mm
Results in installation dimension	= 38.50 mm

Example "B_2" :

Dimension II	40.00 mm
Installation dimension A	- 38.50 mm
Results in shim(s)	s = 1.50 mm

(4) Install shims (3EA, s = 0.50 mm) and grease the O-ring (arrow).

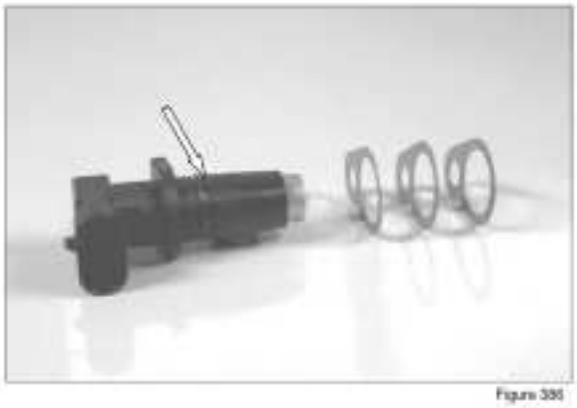


Figure 386

(5) Fasten the speed transmitter by means of cap screw.

· Torque limit (M8/8.8) :
2.35 kgf · m (17.0 lbf · ft)

※ Installation position of the speed transmitter, also see figure 373.



Figure 387

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1. CONNECTOR DESTINATION

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-4	DEUTSCH	60	I/conn (Dashboard harness-Main harness)	DRB16-60SBE-L018	DRB12-60PBE-L018
CN-5	DEUTSCH	48	I/conn (Frame harness-Main harness)	DRB16-48SAE-L018	DRB12-48PAE-L018
CN-6	DEUTSCH	60	I/conn (Main harness-Frame harness)	DRB16-60SAE-L018	DRB12-60PAE-L018
CN-7	AMP	15	I/conn (Main harness-Cab harness)	2-85262-1	368301-1
CN-9	AMP	12	I/conn (Cab harness-Main harness)	2-85262-1	368301-1
CN-10	DEUTSCH	23	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	8	I/conn (Frame harness-Engine harness)	DT06-8S	DT04-8P
CN-14	DEUTSCH	12	I/conn (Frame harness-Grill harness)	DT06-12S	DT04-12P
CN-19	Econoseal J	6	I/conn (Emer steer harness-Front 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 MP3 player	PK145-16017	-
CN-27A	MK II	8	USB connector	174984-2	-
CN-28	NMWP	1	Aircon compressor	NMWP01F-B	-
CN-29	KET	2	Receiver drier	MG640795	-
CN-36	RTMR	22	Fuse box A	15301-1	-
CN-37	RTMR	31	Fuse box B	15301-5	-
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	-	S813-130200
CN-65	DEUTSCH	2	Back up buzzer	DT06-2S	-
CN-71	DEUTSCH	2	Parking solenoid	DT06-2S-EP06	-
CN-74	PACKARD	4	Alternator	1218-6568	-
CN-79	DEUTSCH	2	Differential lock	DT06-2S-EP06	-

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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)



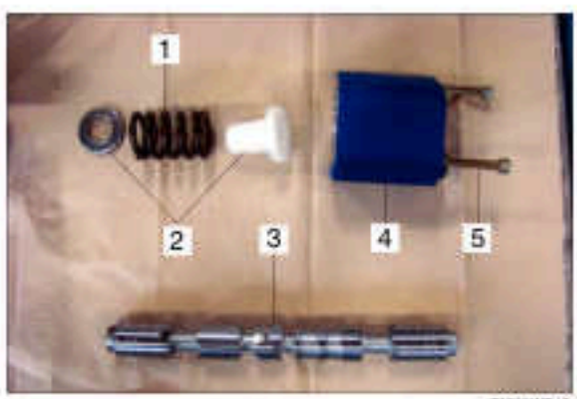
T6096WE40

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



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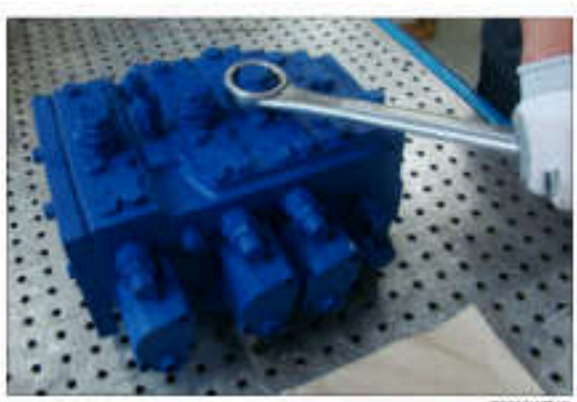
1 Spring
2 Spring ratainer
3 Spool
4 Cover
5 Bolt



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(2) Compensator valve

- Tool : Spanner 42 mm

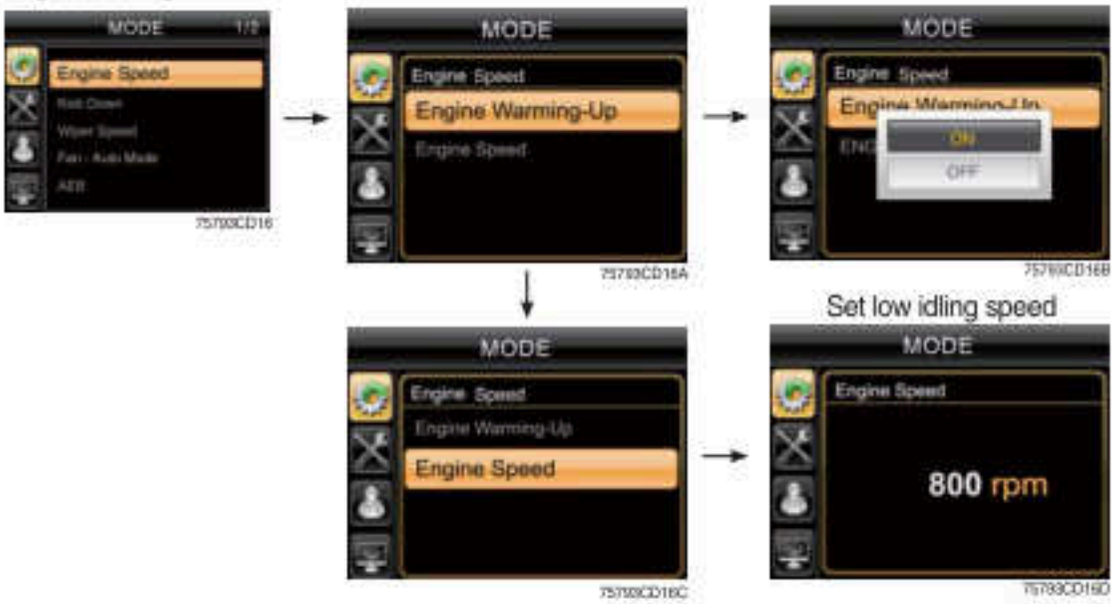


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(2) Mode

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



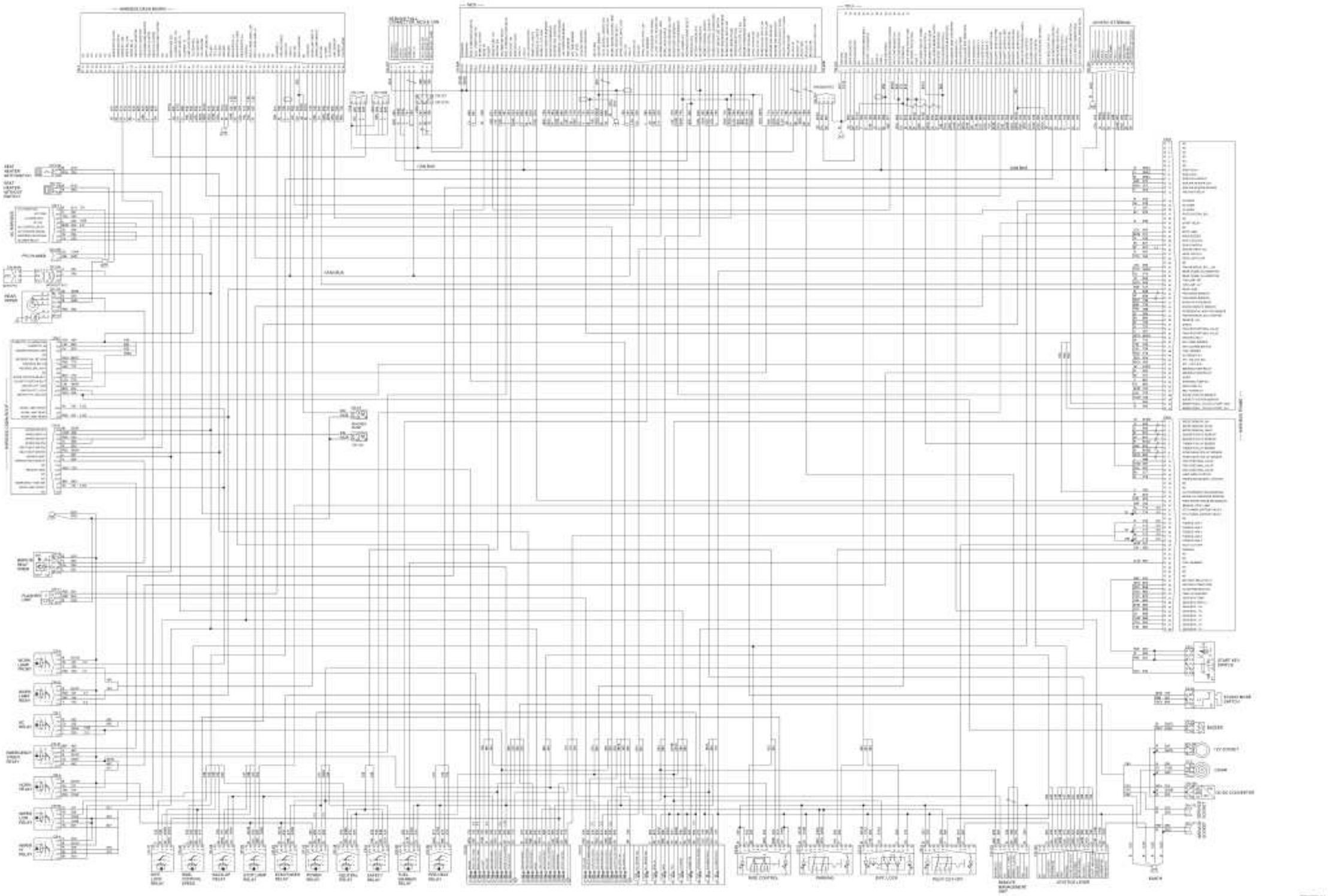
- Select reverse interval or reverse time.
- Set reverse interval (30~300 min) or reverse time (30~300 sec).

※ 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.-#0031



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