WHEEL LOADER

SERVICE MANUAL

HL740-9B

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 1-20

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 3-59

SECTION 4 BRAKE SYSTEM

Group 1 Structure and Function 4-1
Group 2 Operational Checks and Troubleshooting 4-30
Group 3 Tests and Adjustments 4-37
Group 4 Disassembly and Assembly 4-39

SECTION 5 STEERING SYSTEM

Group 1 Structure and Function 5-1
Group 2 Operational Checks and Troubleshooting 5-9
Group 3 Tests and Adjustments 5-15
Group 4 Disassembly and Assembly 5-21

SECTION 6 WORK EQUIPMENT

Group 1 Structure and Function 6-1
Group 2 Operational Checks and Troubleshooting 6-41
Group 3 Tests and Adjustments 6-51
Group 4 Disassembly and Assembly 6-65

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SECTION 7 ELECTRICAL SYSTEM

Group 1 Component Location 7-1
Group 2 Electrical Circuit 7-3
Group 3 Monitoring System 7-21
Group 4 Electrical Component Specification 7-51
Group 5 Connectors 7-58
Group 6 Troubleshooting 7-78

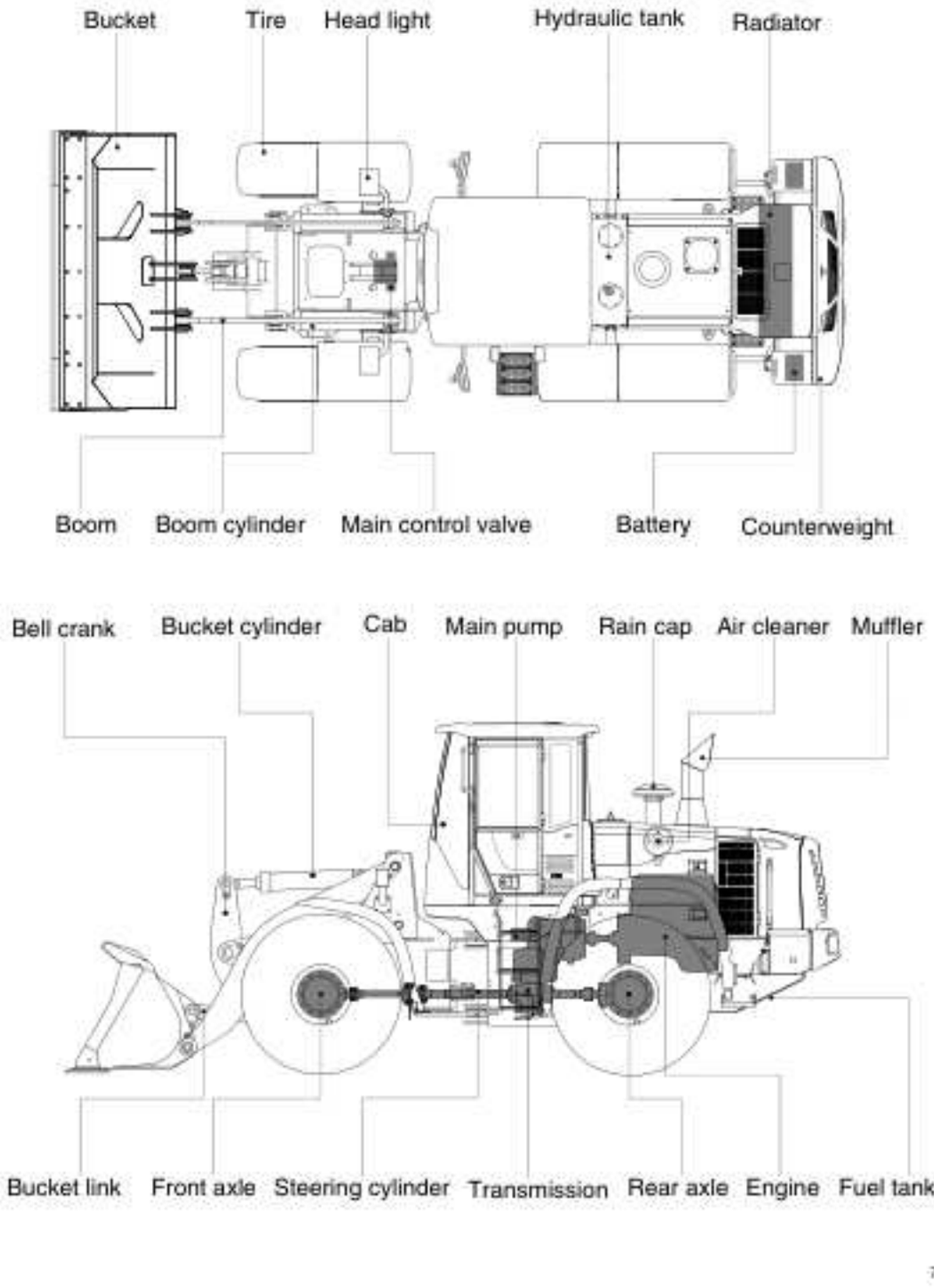
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SECTION 1 GENERAL

Group 1 Safety Hints 1-1
Group 2 Specifications 1-10
Group 3 Operational Checkout Record Sheet 1-23

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1. MAJOR COMPONENTS



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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.)

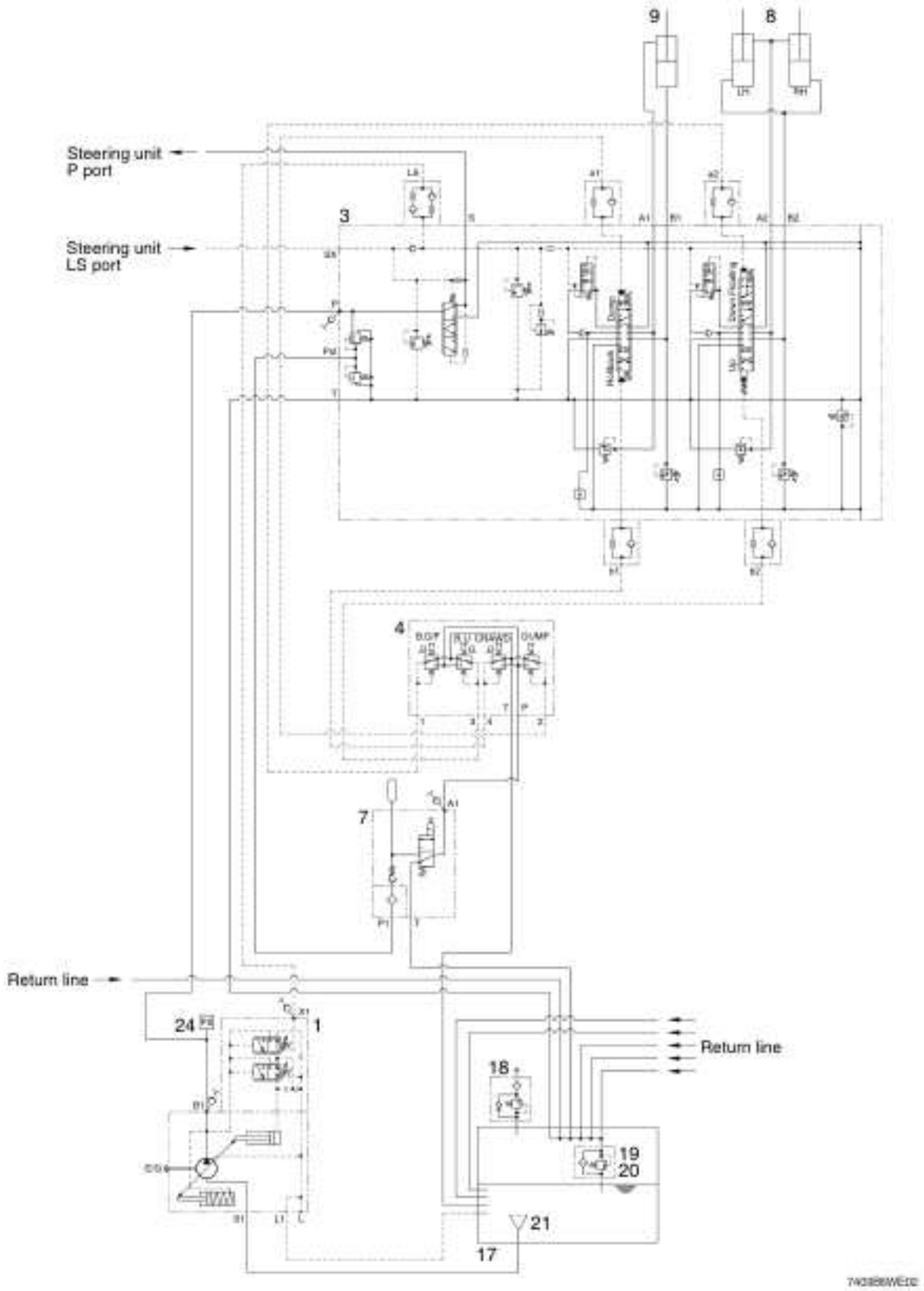
  Step 3. Troubleshooting

  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 3-23~3-39.

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3. WORK EQUIPMENT HYDRAULIC CIRCUIT



1	Main pump	8	Boom cylinder	19	Return filter
3	Main control valve	9	Bucket cylinder	20	Bypass valve
4	Remote control valve	17	Hydraulic tank	21	Strainer
7	Safety valve	18	Air breather	24	Pressure sensor

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5) DISASSEMBLY AND ASSEMBLY

(1) Spool

① Loosen the bolt (2EA).

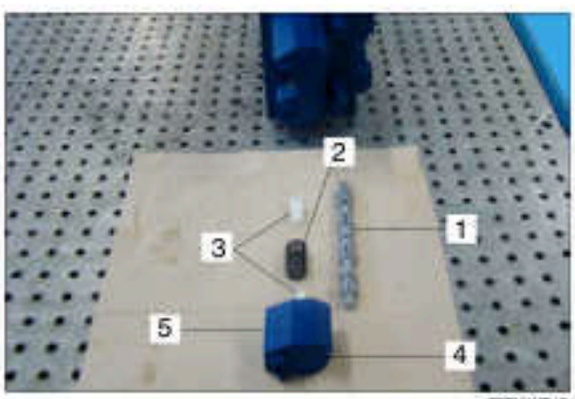
- Tool : Wrench 4 mm
- Tightening torque : 0.85 kgf · m (61 lbf · ft)



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

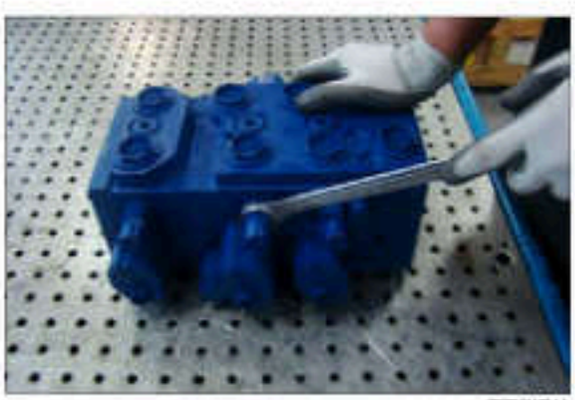


1 Spool
2 Spring
2 Spring ratainer
4 Bolt
5 Cover



(2) Port relief valve

- Tool : Spanner 24 mm



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③ Machine information



- Version
  - Software versions of MCU, cluster and monitor can be checked.
- Status info
  - The machine status can be checked.

④ Service contact



- The phone number of the service man can be checked and changed.

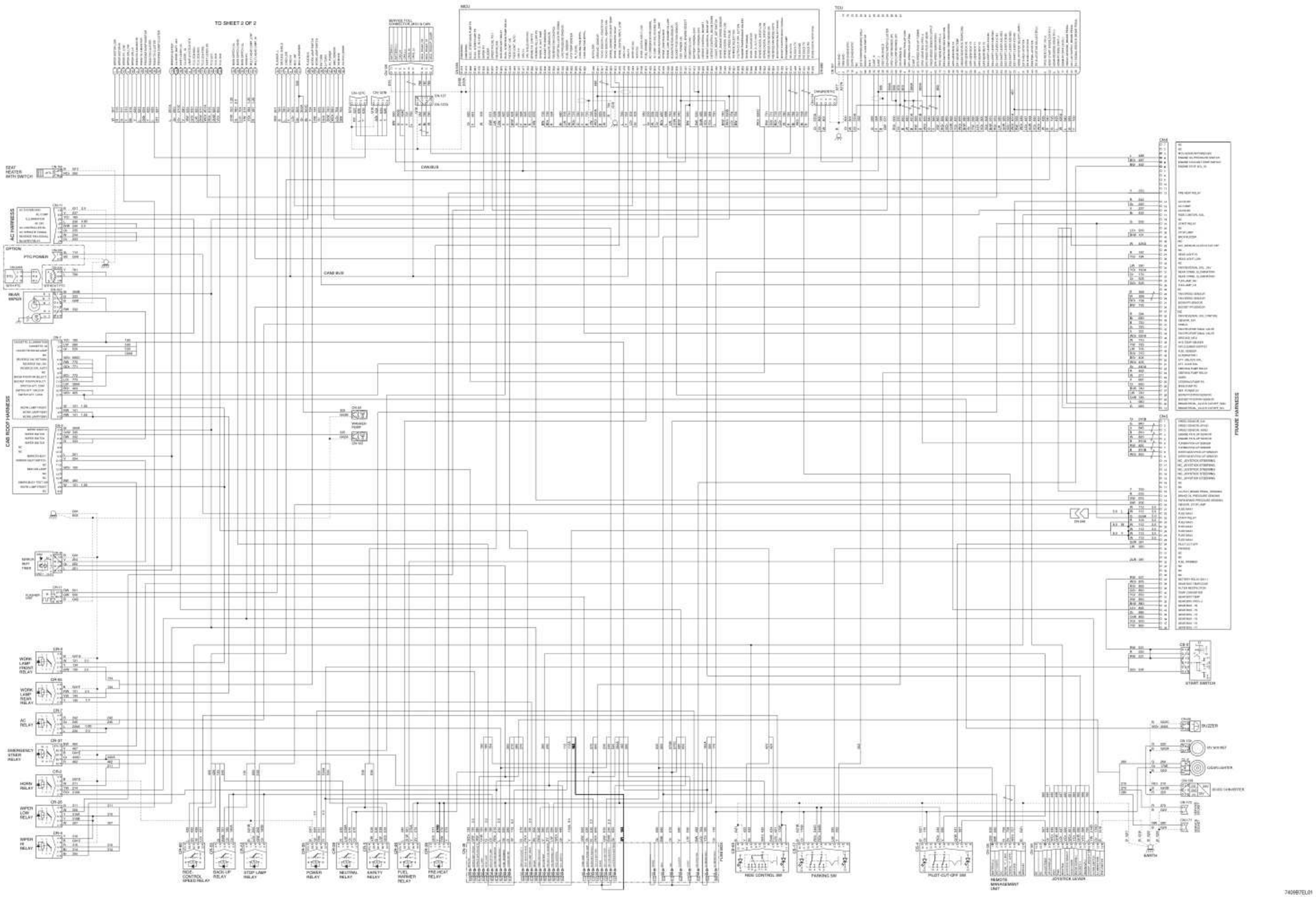
⑤ Service menu



- The software of monitor can be downloaded.

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· ELECTRICAL CIRCUIT (1/2)


TO SHEET 2 OF 2
MCU
TCU
SERVICE TOOL CONNECTOR (KEY & CAN)
CAN BUS
CAB ROOF HARNESS
FRAME HARNESS
SEAT HEATER WITH SWITCH
AC HARNESS
OPTION
PTC POWER
REAR WIPER
WORK LAMP FRONT RELAY
WORK LAMP REAR RELAY
AC RELAY
EMERGENCY STEER RELAY
HORN RELAY
WIPER LOW RELAY
WIPER HI RELAY
RIDE CONTROL SPEED RELAY
BACK-UP RELAY
STOP LAMP RELAY
POWER RELAY
NEUTRAL RELAY
SAFETY RELAY
FUEL WARMER RELAY
PRE-HEAT RELAY
RIDE CONTROL SW
PARKING SW
PILOT-CUT-OFF SW
REMOTE MINI-HANDLE SWITCH UNIT
JOYSTICK LEVER
START SWITCH
BUZZER
HYDRAULIC OIL TEMP SENSOR
ENGINE OIL PRESSURE SENSOR
ENGINE COOLANT TEMP SENSOR
ENGINE SPEED SEN. (+)
ENGINE SPEED SEN. (-)
ENGINE OIL PRESSURE SWITCH
ENGINE COOLANT TEMP SWITCH
ENGINE STOP SOL. (+)
ENGINE STOP SOL. (-)
ENGINE PREHEATING RELAY
ENGINE PREHEATING TIMER SWITCH
ENGINE STOP SOL. (+)
ENGINE STOP SOL. (-)
ENGINE PREHEATING RELAY
ENGINE PREHEATING TIMER SWITCH
ENGINE OIL PRESSURE SWITCH
ENGINE COOLANT TEMP SWITCH
ENGINE SPEED SEN. (+)
ENGINE SPEED SEN. (-)
HYDRAULIC OIL TEMP SENSOR
ENGINE OIL PRESSURE SENSOR
ENGINE COOLANT TEMP SENSOR
ENGINE SPEED SEN. (+)
ENGINE SPEED SEN. (-)