WHEEL LOADER

SERVICE MANUAL

HL760-9A

HYUNDAI

MidWestTech | Hyundai HL760-9A Wheel Loader Service Manual | Publication HL760-9A

Order the manual at mid-west-tech.com >

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 2-11
Group 3 Fuel Warmer System 2-12

SECTION 3 POWER TRAIN SYSTEM

Group 1 Structure and Function 3-1
Group 2 Operational Checks and Troubleshooting 3-68
Group 3 Test and Adjustments 3-79
Group 4 Disassembly and Assembly 3-81

SECTION 4 BRAKE SYSTEM

Group 1 Structure and Function 4-1
Group 2 Operational Checks and Troubleshooting 4-29
Group 3 Tests and Adjustments 4-36
Group 4 Disassembly and assembly 4-38

SECTION 5 STEERING SYSTEM

Group 1 Structure and Function 5-1
Group 2 Operational Checks and Troubleshooting 5-15
Group 3 Tests and Adjustments 5-23
Group 4 Disassembly and Assembly 5-30

SECTION 6 WORK EQUIPMENT

Group 1 Structure and Function 6-1
Group 2 Operational Checks and Troubleshooting 6-42
Group 3 Tests and Adjustments 6-53
Group 4 Disassembly and Assembly 6-68

MidWestTech | Hyundai HL760-9A Wheel Loader Service Manual | Publication HL760-... Order the manual at mid-west-tech.com >

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 7-61
Group 5 Connectors 7-68
Group 6 Troubleshooting 7-89

MidWestTech | Hyundai HL760-9A Wheel Loader Service Manual | Publication HL760-... Order the manual at mid-west-tech.com >

SECTION 1 GENERAL

Group 1 Safety Hints 1-1
Group 2 Specifications 1-10
Group 3 Operational Checkout Record Sheet 1-25

MidWestTech | Hyundai HL760-9A Wheel Loader Service Manual | Publication HL760-... Order the manual at mid-west-tech.com >

⑨ Mount outer and inner disks in alternating order, starting with an inner disk.

The installation clearance of the internal parts is corrected by mounting outer disks with different thicknesses.

▲ **The difference in thickness between the left and the right disk package must only be 0.1 mm at maximum.**



Determine the installation clearance 0.2~0.7 mm

⑩ Measure dimension I, from the mounting face of the differential housing to the plane face of the outer disk.

Dimension I e.g. ..... 44.30 mm



⑪ Measure dimension II, from the contact face of the outer disk to the mounting face on the housing cover.

Dimension II e.g. ..... 43.95 mm

CALCULATION EXAMPLE :

Dimension I ..... 44.30 mm
Dimension II ..... - 43.95 mm
Difference = disk clearance = 0.35 mm

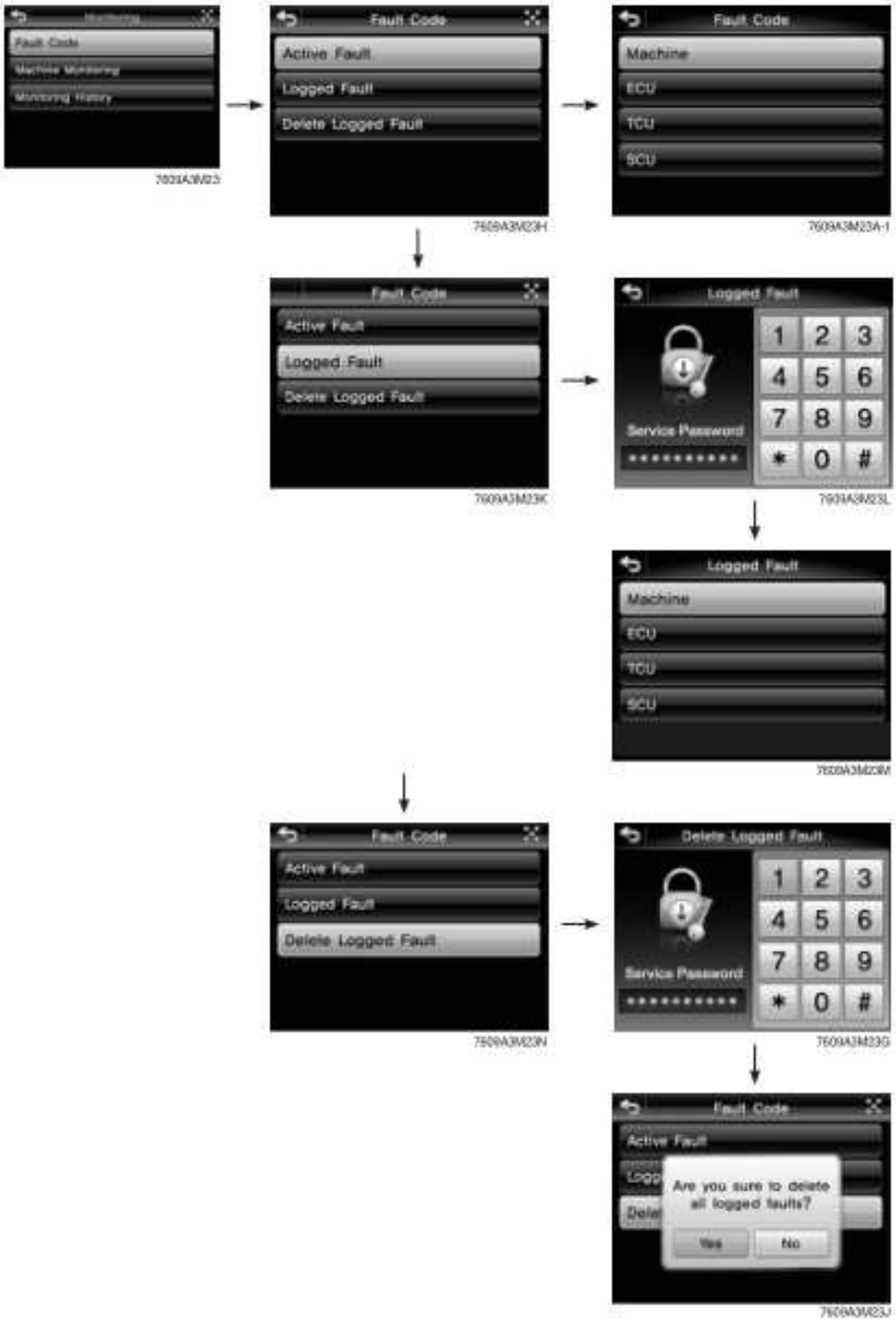


▣ Any deviation from the required installation clearance is to be corrected with corresponding outer disks (s = 2.7, s = 2.9, s = 3.0, s = 3.1, s = 3.2, s = 3.3 or s = 3.5 mm), taking care that the difference in thickness between the left and the right disk package must only be 0.1 mm at maximum.

MidWestTech | Hyundai HL760-9A Wheel Loader Service Manual | Publication HL760-... Order the manual at mid-west-tech.com >

(3) Monitoring

① Fault code



- Monitor the fault code of the Machine / ECU / TCU / SCU.

※ Not define will be indicated in case of that there's no fault.

※ SCU (opt) : Only for SCU (Steering Control Unit) equipped machine.

MidWestTech | Hyundai HL760-9A Wheel Loader Service Manual | Publication HL760-... Order the manual at mid-west-tech.com >

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 (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	12	I/conn (Cab harness-Main harness)	2-85262-1	368301-1
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	Molex	2	Horn	36825-0211	-
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	Molex	2	Horn	36825-0211	-
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-28	NMWP	1	Aircon compressor	PB625-01027	-
CN-29	KET	2	Receiver drier	MG640795	-
CN-36	-	129	Fuse box	21Q7-10910	-
CN-43	AMP	2	Lock-up	282028	282104-1
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-64	MOLEX	4	Smart key	39012040	-
CN-65	DEUTSCH	2	Back up buzzer	DT06-2S	-
CN-71	DEUTSCH	2	Parking solenoid	DT06-2S-EP06	-

MidWestTech | Hyundai HL760-9A Wheel Loader Service Manual | Publication HL760-... Order the manual at mid-west-tech.com >

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)



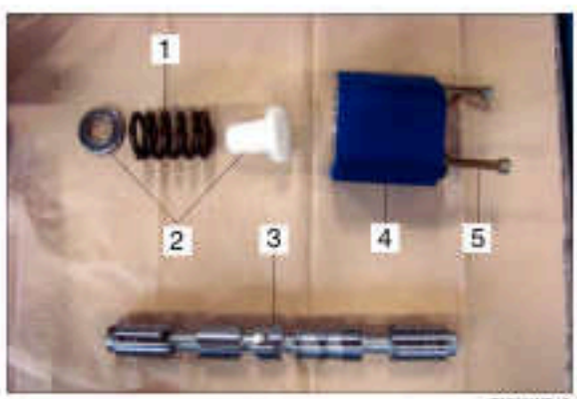
T6096WE40

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



T6096WE41

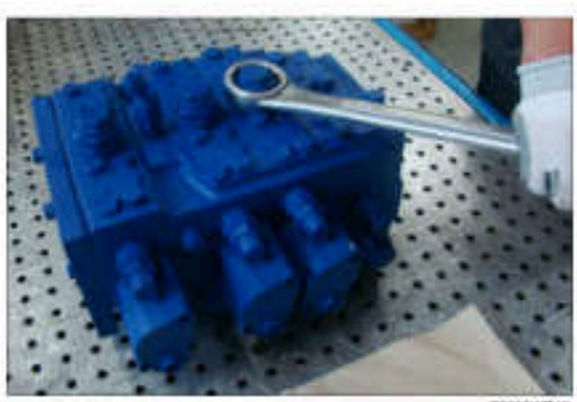
1 Spring
2 Spring ratainer
3 Spool
4 Cover
5 Bolt



T6096WE42

(2) Compensator valve

- Tool : Spanner 42 mm



T6096WE43

MidWestTech | Hyundai HL760-9A Wheel Loader Service Manual | Publication HL760-... Order the manual at mid-west-tech.com >

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.

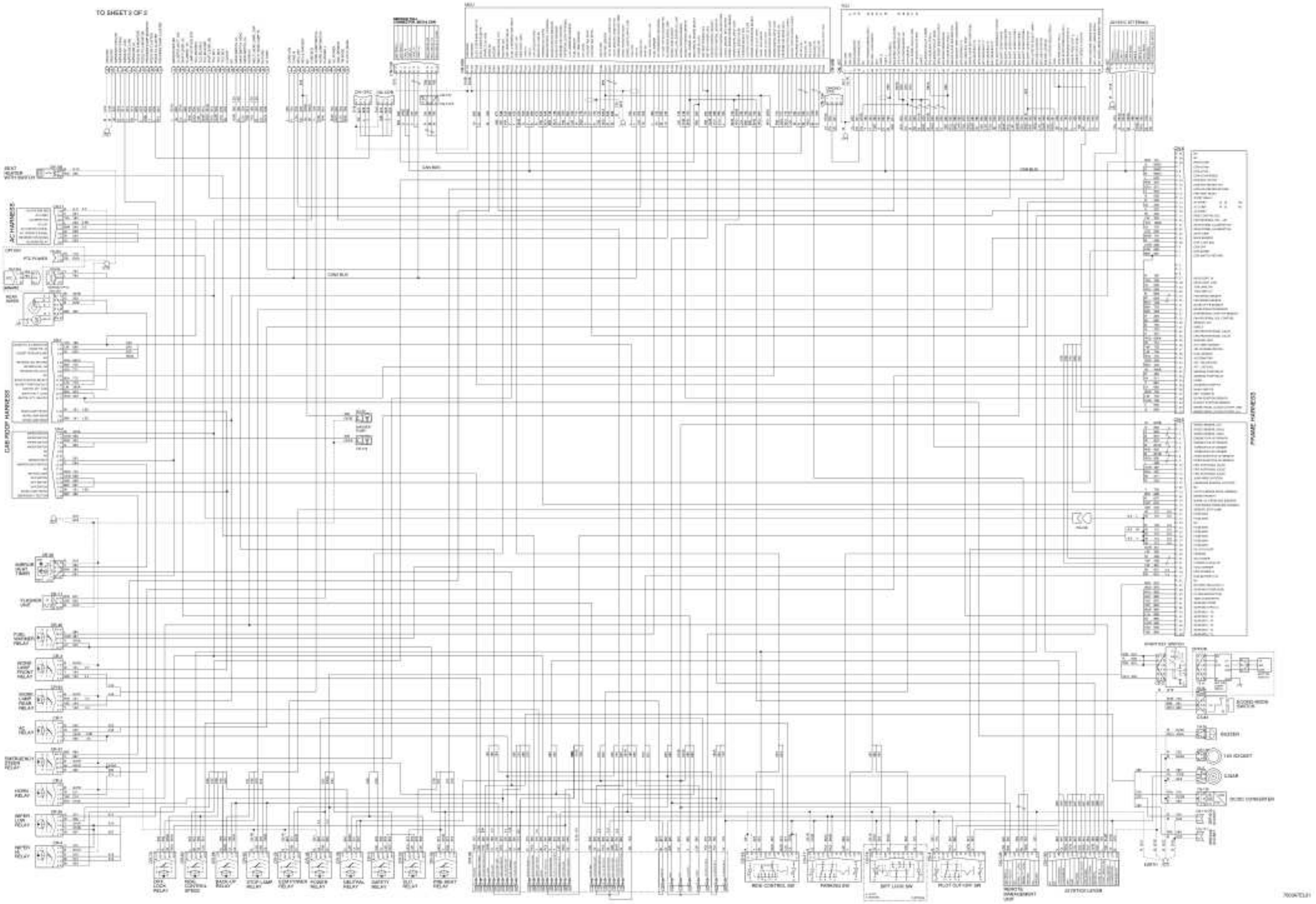
- If the camera was not equipped, this menu is not useful.
- In main display, if the ▣/**ESC** button is pushed, the first ordered display camera will be viewed.

⑥ Language



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

MidWestTech | Hyundai HL760-9A Wheel Loader Service Manual | Publication HL760-... Order the manual at mid-west-tech.com >



MidWestTech | Hyundai HL760-9A Wheel Loader Service Manual | Publication HL760-9A

Order the manual at mid-west-tech.com >