WHEEL LOADER

SERVICE MANUAL

HL975A CVT

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 1-23

SECTION 2 ENGINE

Group 1 Structure and Function 2-1
Group 2 Engine speed and Stall rpm 2-8

SECTION 3 POWER TRAIN SYSTEM

Group 1 Structure and Function (fault codes) 3-1
Group 2 Operational Checks and Troubleshooting 3-62
Group 3 Test and Adjustments 3-74
Group 4 Disassembly and Assembly 3-75

SECTION 4 BRAKE SYSTEM

Group 1 Structure and Function 4-1
Group 2 Operational Checks and Troubleshooting 4-29
Group 3 Tests and Adjustments 4-39
Group 4 Disassembly and assembly 4-41

SECTION 5 STEERING SYSTEM

Group 1 Structure and Function 5-1
Group 2 Operational Checks and Troubleshooting 5-18
Group 3 Tests and Adjustments 5-26
Group 4 Disassembly and Assembly 5-33

SECTION 6 WORK EQUIPMENT

Group 1 Structure and Function 6-1
Group 2 Operational Checks and Troubleshooting 6-40
Group 3 Tests and Adjustments 6-51
Group 4 Disassembly and Assembly 6-63

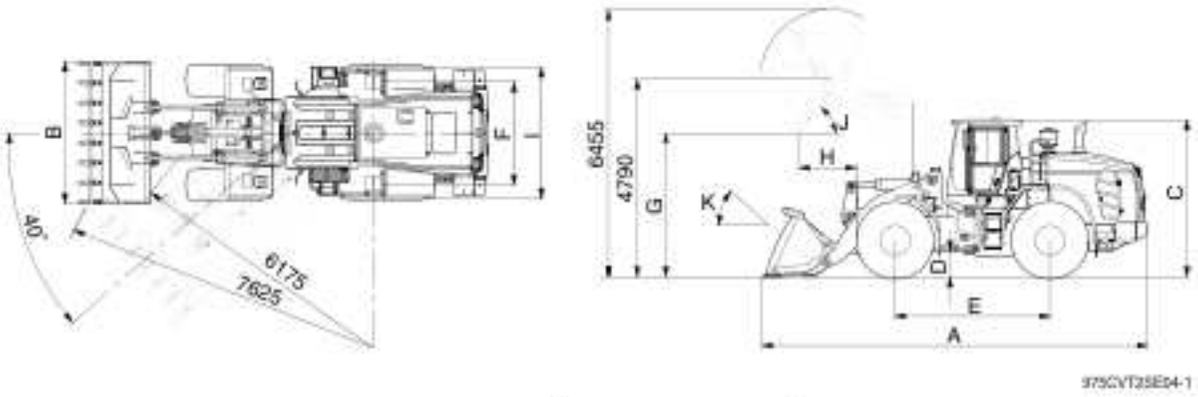
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SECTION 7 ELECTRICAL SYSTEM

Group 1 Component Location 7-1
Group 2 Electrical Circuit 7-3
Group 3 Monitoring System 7-22
Group 4 Electrical Component Specification 7-72
Group 5 Connectors 7-79
Group 6 Troubleshooting 7-101

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WITH 1-PIECE TOOTH TYPE BUCKET (HL975A CVT XT)



Description			Unit	Specification
Operating weight			kg (lb)	27190 (59950)
Bucket capacity		Struck	m³ (yd³)	4.0 (5.2)
		Heaped		4.6 (6.0)
Overall length		A	mm (ft-in)	9790 (32' 1")
Overall width		B		3300 (10' 10")
Overall height		C		3590 (11' 9")
Ground clearance		D		460 (1' 6")
Wheelbase		E		3550 (11' 8")
Tread		F		2300 (7' 7")
Dump clearance at 45°		G		3360 (11' 0")
Dump reach (full lift)		H		1505 (4' 11")
Width over tires		I		2975 (9' 9")
Dump angle		J	degree (°)	48
Roll back angle (carry position)		K		49
Cycle time		Lift (with load)	sec	6.5
		Dump (with load)		1.9
		Lower (empty)		4.4
Maximum travel speed			km/hr (mph)	36.0 (22.4))
Braking distance			m (ft-in)	11.0 (36' 1")
Minimum turning radius (center of outside tire)				6.18 (20' 3")
Gradeability			degree (°)	30
Breakout force			kg (lb)	24580 (54910)
Travel speed	Forward	First gear	km/hr (mph)	7.0 (4.3)
		Second gear		11.0 (6.8)
		Third gear		26.0 (16.1)
		Fourth gear		36.0 (22.4)
	Reverse	First gear		7.0 (4.3)
		Second gear		11.0 (6.8)
		Third gear		26.0 (16.1)
		Fourth gear		36.0 (22.4)

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GROUP 2 OPERATIONAL CHECKS AND TROUBLESHOOTING

1. OPERATIONAL CHECKS

This procedure is designed so the mechanic can make a quick check of the system using a minimum amount of diagnostic equipment. If you need additional information, read structure and function, Group 1.
A location will be required which is level and has adequate space to complete the checks.

The engine and all other major components must be at operating temperature for some checks.

Locate system check in the left column and read completely, following the sequence from left to right. Read each check completely before performing.

At the end of each check, if no problem is found (OK), that check is complete or an additional check is needed. If problem is indicated (NOT OK), you will be given repair required and group location.
If verification is needed, you will be given next best source of information:

- Chapter 2 : Troubleshooting
- Group 3 : Tests and adjustments

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3. WORK LIGHT SWITCH

1) OPERATING FLOW

※ Main light switch on monitor : Select position lamp.

(1) Work lamp switch (select Front)

MCU [CN-58A (88)] → Front work lamp relay [CR-03 (87)] → I/conn [CN-07 (06)]

→ LH Front work lamp ON [CL-32 (1)]

→ RH Front work lamp ON [CL-33 (1)]



(2) Work lamp switch (select Rear)

MCU [CN-58A (44)] → Rear work lamp relay [CR-55 (87)] → I/conn [CN-01 (5)]

→ I/conn [CN-24 (12)] → LH Rear work lamp ON [CL-46 (1)]

→ RH Rear work lamp ON [CL-45 (1)]



2) CHECK POINT

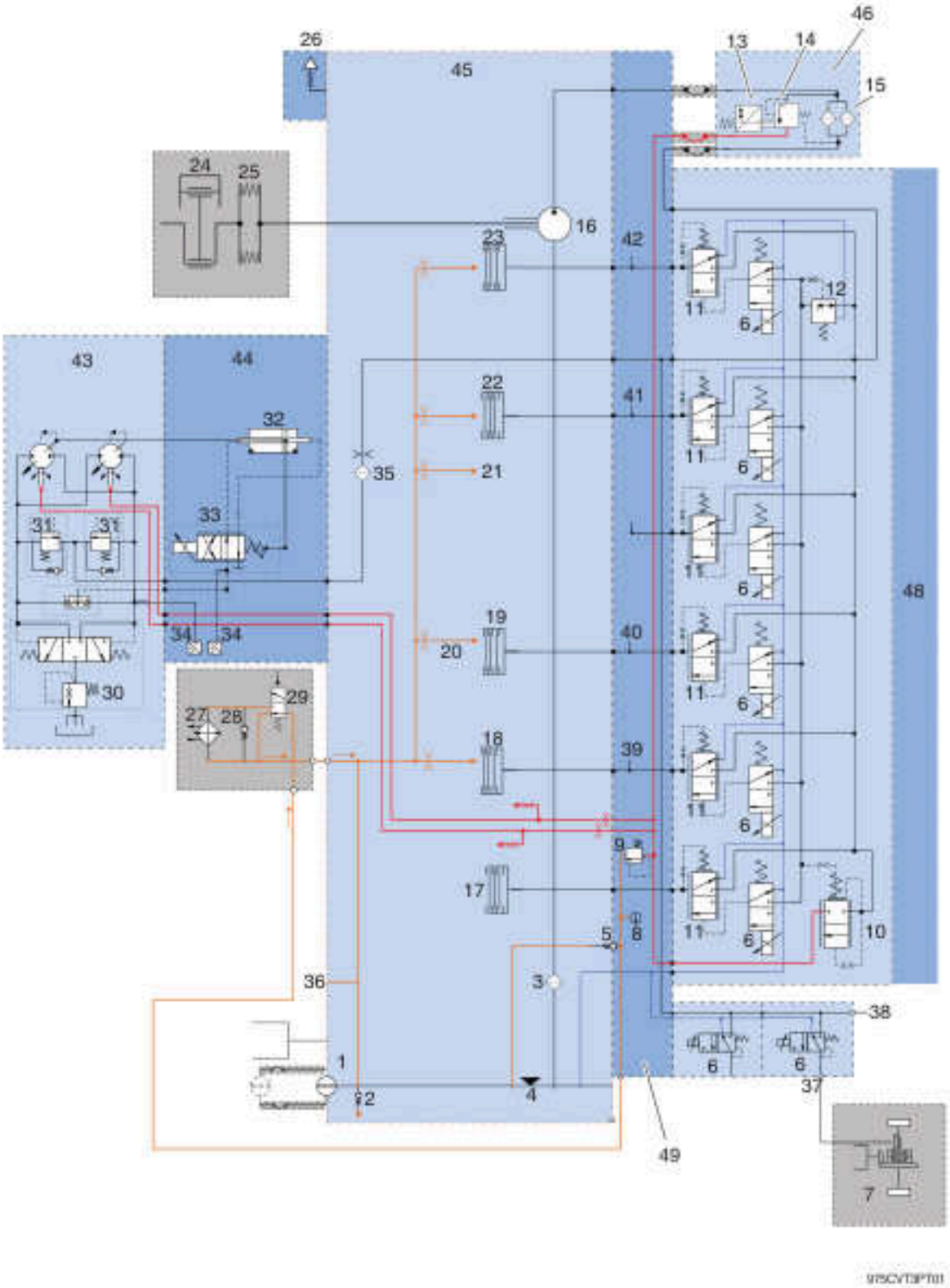
Engine	Key switch	Check point	Voltage
OFF	ON	① - GND (work lamp power input) ② - GND (work lamp power output) ③ - GND (front work lamp) ④ - GND (rear work lamp)	20~25V

※ GND : Ground

※ The circuit diagram may differ from the equipment, so please check before a repair.

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3) HYDRAULIC CIRCUIT



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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)



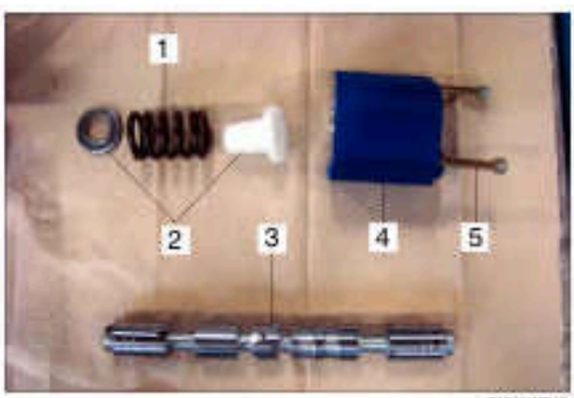
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② Remove the cover, spring retainer, spring and spool.



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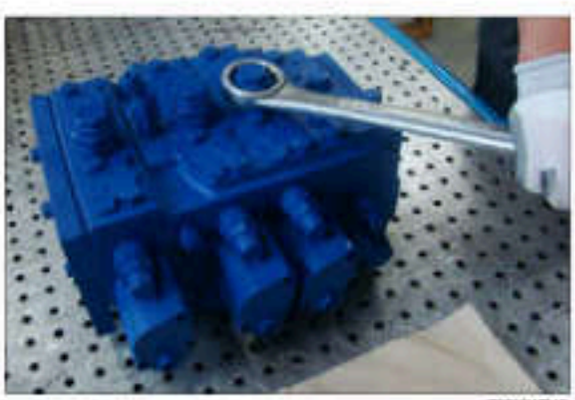
1 Spring
2 Spring ratainer
3 Spool
4 Cover
5 Bolt



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(2) Compensator valve

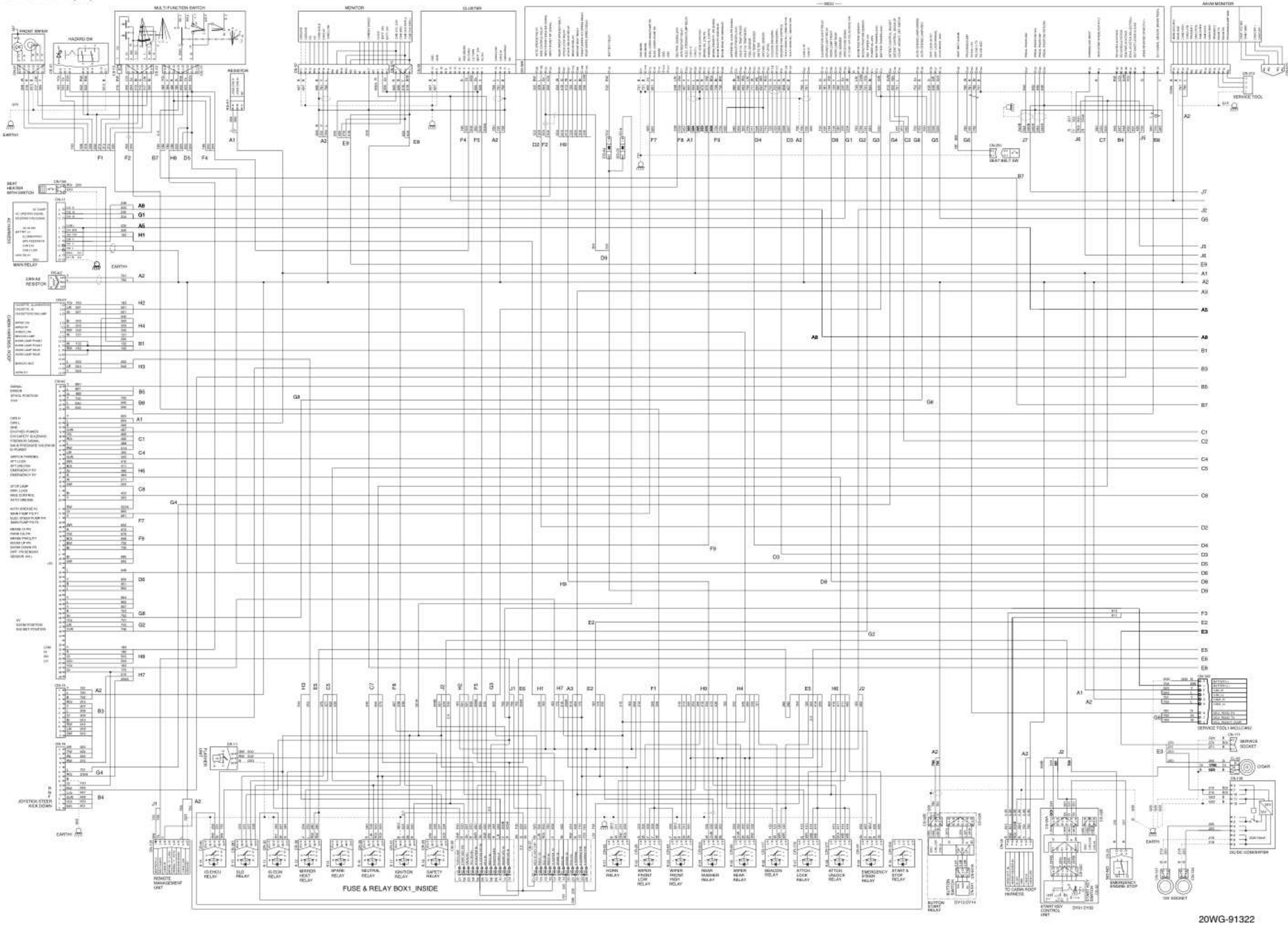
- Tool : Spanner 42 mm



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1. ELECTRICAL CIRCUIT (1/3)



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