WHEELED EXCAVATOR

SERVICE MANUAL

R55W-9A

HYUNDAI

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7) POWER TRAIN

Item	Description		Specification
Gear box	Type		2 speed hydrostatic
	Gear ratio	1st	6.357
		2nd	1.961
Parking brake	Type		Multi disc brake integrated in rear axle
	Maximum braking power		700 kgf · m (5060 lbf · ft)
Axle	Type		4 wheel drive with differential
	Gear ratio		8.67
	Brake		Multi disc brake

8) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	ø 110 × ø 65 × 715mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	ø 90 × ø 55 × 850mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	ø 80 × ø 50 × 660mm
	Cushion	Extend only
Dozer cylinder	Bore dia × Rod dia × Stroke	ø 110 × ø 60 × 219mm
	Cushion	-
Boom swing cylinder	Bore dia × Rod dia × Stroke	ø 95 × ø 50 × 535mm
	Cushion	-

※ Discoloration of cylinder rod can occur when the friction reduction additive of lubrication oil spreads on the rod surface.

※ Discoloration does not cause any harmful effect on the cylinder performance.

9) BUCKET

Item		Capacity		Tooth quantity	Width	
		SAE heaped	CECE heaped		Without side cutter	With side cutter
R55W-9A	STD	0.18 m³ (0.24 yd³)	0.15 m³ (0.20 yd³)	5	670 mm (26.4")	740 mm (29.1")
	OPT	0.07 m³ (0.09 yd³)	0.06 m³ (0.08 yd³)	3	315 mm (12.4")	360 mm (14.2")

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2. STARTING CIRCUIT

1) OPERATING FLOW

Battery (+) terminal → Battery relay[CR-1] → Fusible link [CN-60]
→ I/conn [CN-13 (2)] → Master switch [CS-74A] → Fuse box No.1 → Start key [CS-2 (1)]

※ Start switch : ON

→ Start switch ON [CS-2 (2)] → ECU IG power relay [CR-45 (30,86)]
→ I/conn [CN-4 (22)] →
Battery relay [CR-1] : Battery relay operating (all power is supplied with the electric component)
→ Start switch ON [CS-2 (3)] → Fuse box (all power is supplied with electric component)

※ Start switch : START

Start switch START [CS-2 (5)]
→ I/conn [CN-4 (36)] → ECU [CN-93A (35)→(28, 73)] → I/conn [CN-18 (2, 3)]
→ Anti-restart relay [CR-5 (30,86)→(87)] → I/conn [CN-18 (12)]
→ Start relay [CR-23 (1)→(2)] → Start motor operating

2) CHECK POINT

Engine	Start switch	Check point	Voltage
Operating	Start	① - GND (battery) ② - GND (start key) ③ - GND (battery relay M4) ④ - GND (starter B^+) ⑤ - GND (starter M) ⑥ - GND (start relay) ⑦ - GND (battery relay M8)	10–12.5V

※ GND : Ground

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GROUP 1 BEFORE TROUBLESHOOTING

1. INTRODUCTION

When a trouble is occurred in the machine, this section will help an operator to maintain the machine with easy.
The trouble of machine is parted Hydraulic & Mechanical system and Electrical system system.
At each system part, an operator can check the machine according to the troubleshooting process diagram.



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(5) Assembling the shaft

① Fit the shaft into the bearing (with the bearing in the bottom) by using the press machine and jig. If the press is not available, use the jig in the similar manner and drive the shaft into the bearing by knocking with a plastic hammer.



② Install the C-type stop ring to fix the bearing.



③ Assembling the shaft.
Assemble the shaft into the housing.
Knock the spline end lightly with a plastic hammer and fix the bearing outer ring firmly into the housing hole.



(6) Apply grease to the O-ring for assembling.



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(5) Utilities

① Camera setting

- Three cameras can be installed on the machine and the display order can be set by this menu.
- If the camera was not equipped, this menu is not useful.



- In the operation screen, if the ESC/CAM switch is pushed, rear view camera display or stop.
- Turnning the select switch in clockwise direction, the next ordered will be shown and in counter-clockwise direction, the previously ordered will be shown. Also, you can change camera channel using touch the screen.
- Push the select switch or touch the screen, the displayed screen will be enlargement.



② Mode

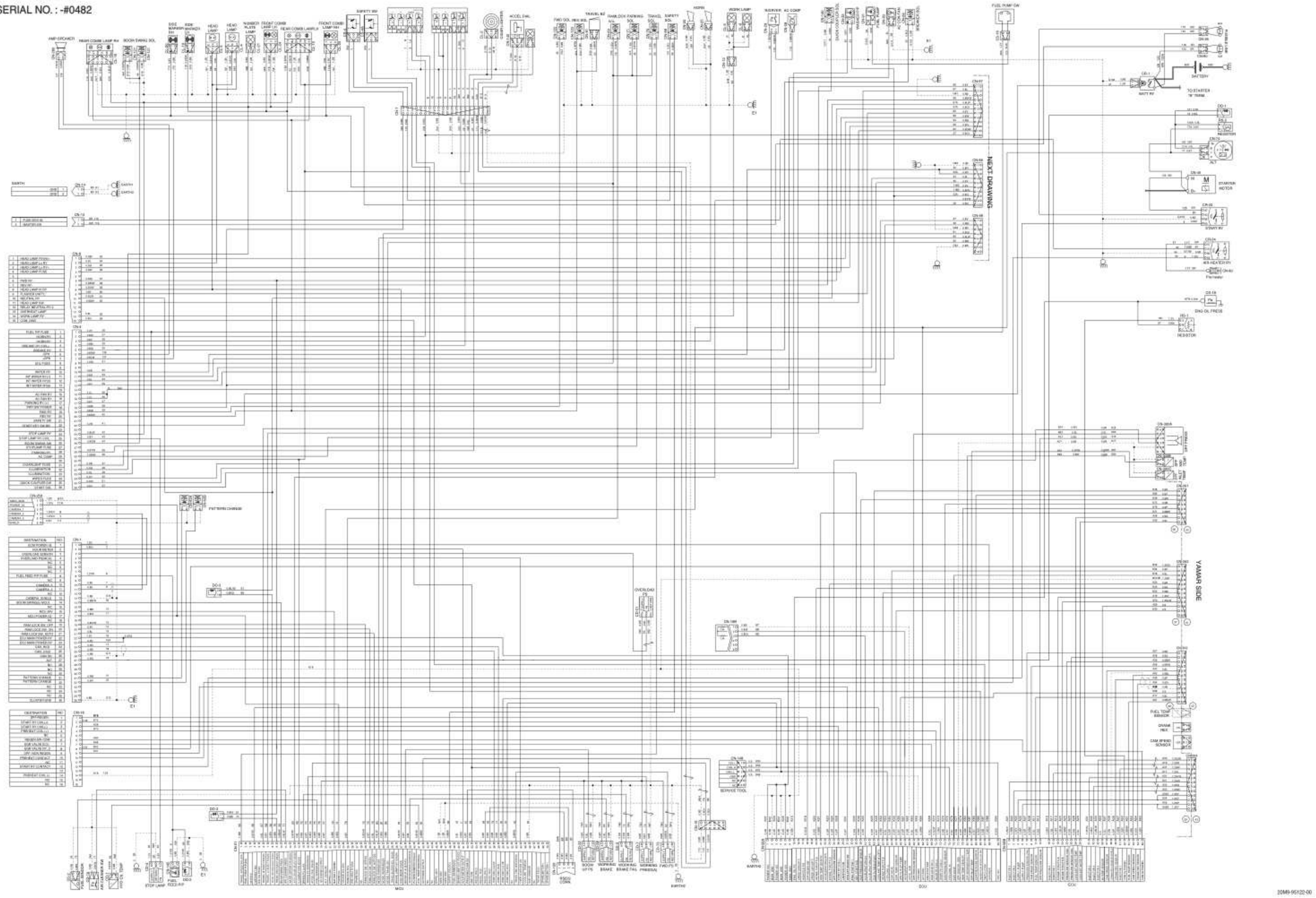


- When this cluster's buttons are not work, you can control using touch screen instead of these buttons.
- You can only control in this mode screen.

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· ELECTRICAL CIRCUIT (1/3)

- MACHINE SERIAL NO. : -#0482



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