CRAWLER EXCAVATOR

SERVICE MANUAL

R27Z-9

HYUNDAI

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2) 2.03 m (6' 8") boom, 1.12 m (3' 8") arm equipped with 0.08 m³ (SAE heaped) bucket and 300 mm (12") rubber track, the dozer blade down with 220 kg (485 lb) counterweight.

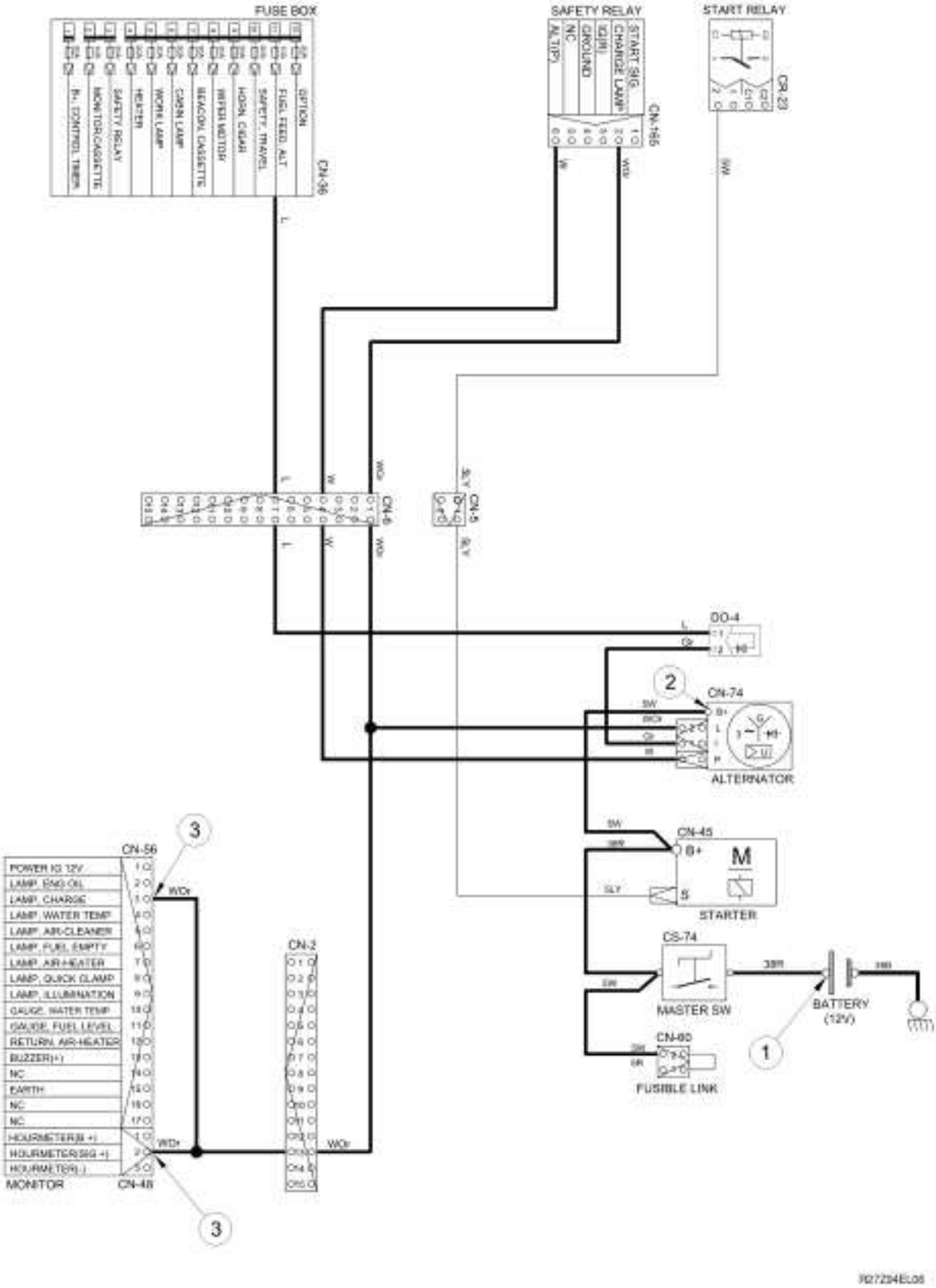
· : Rating over-front · : Rating over-side or 360 degree

Load point height		Load radius								At max. reach		
		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (10.0 ft)		3.5 m (11.5 ft)		Capacity		Reach
												m (ft)
3.5 m (11.5 ft)	kg									*670	490	3.07
	lb									*1480	1080	(10.1)
3.0 m (10.0 ft)	kg					*760	480			*600	360	3.63
	lb					*1680	1060			*1320	790	(11.9)
2.5 m (8.2 ft)	kg					*970	490	*570	370	*570	310	3.99
	lb					*2140	1080	*1260	820	*1260	680	(13.1)
2.0 m (6.6 ft)	kg			*1270	650	*1170	480	*900	370	*570	270	4.22
	lb			*2800	1430	*2580	1060	*1980	820	*1260	600	(13.8)
1.5 m (5.0 ft)	kg			*2200	630	*1640	470	*1140	360	*570	260	4.35
	lb			*4850	1390	*3620	1040	*2510	790	*1260	570	(14.3)
1.0 m (3.3 ft)	kg			*2710	600	1880	450	1380	350	*600	250	4.39
	lb			*5970	1320	4140	990	3040	770	*1320	550	(14.4)
0.5 m (1.6 ft)	kg			2840	580	1860	440	1370	350	*630	250	4.35
	lb			6260	1280	4100	970	3020	770	*1390	550	(14.3)
Ground Line	kg	*1490	810	2820	570	1850	430	1360	340	*690	260	4.22
	lb	*3280	1790	6220	1260	4080	950	3000	750	*1520	570	(13.8)
-0.5 m (-1.6 ft)	kg	*2090	810	2810	570	1840	430	*1070	340	*790	280	4.00
	lb	*4610	1790	6190	1260	4060	950	*2360	750	*1740	620	(13.1)
-1.0 m (-3.3 ft)	kg	*3030	820	*2750	570	1850	440			*950	330	3.64
	lb	*6680	1810	*6060	1260	4080	970			*2090	730	(11.9)
-1.5 m (-5.0 ft)	kg	*2850	840	*2040	590					*1320	430	3.09
	lb	*6280	1850	*4500	1300					*2910	950	(10.1)
-2.5 m (-8.2 ft)	kg									*1040	450	3.06
	lb									*2290	990	(10.0)

Note 1. Lifting capacity are based on SAE J1097 and ISO 10567.
2. Lifting capacity of the ROBEX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The load point is a hook located on the back of the bucket.
4. *Indicates load limited by hydraulic capacity.

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CHARGING CIRCUIT



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GROUP 2 HYDRAULIC AND MECHANICAL SYSTEM

1. INTRODUCTION

1) MACHINE IN GENERAL

(1) If even a minor fault is left intact and operation is continued, a fatal failure may be caused, entailing a large sum of expenses and long hours of restoration.
Therefore when even a small trouble occurs, do not rely on your intuition and experience, but look for the cause based on the troubleshooting principle and perform maintenance and adjustment to prevent major failure from occurring. Keep in mind that a fault results from a combination of different causes.

(2) The following lists up commonly occurring faults and possible causes with this machine. For the troubleshooting of the engine, refer to the coming troubleshooting and repair.

(3) When carrying out troubleshooting, do not hurry to disassemble the components.
It will become impossible to find the cause of the problem.

(4) Ask user or operator the following.
① Was there any strange thing about machine before failure occurred?
② Under what conditions did the failure occur?
③ Have any repairs been carried out before the failure?

(5) Check before troubleshooting.
① Check oil and fuel level.
② Check for any external leakage of oil from components.
③ Check for loose or damage of wiring and connections.

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(16) Place the ring (128) over the pre-load collars.



(17) Place the carrier 1 assembly into the body (101) align spline of carrier to the pinion shaft (104).



(18) Place the carrier 2 assembly into the body (101) align spline of S1 gear to the b1 gear.



(19) Place the S2 gear (109) into the carrier 2 assembly.



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4) OLED display

(1) Main display



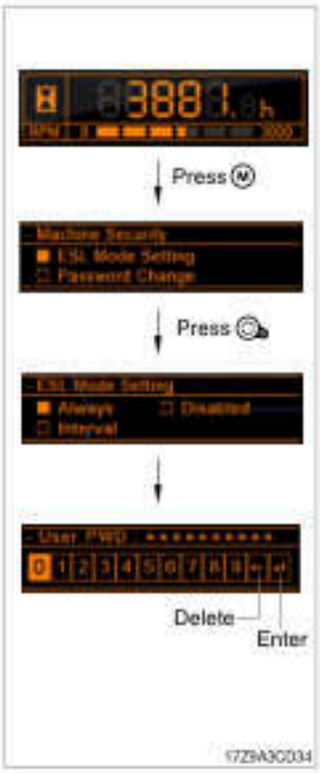
① Service meter : This meter shows the total operation hours of the machine.

※ Always ensure the operating condition of the service meter during the machine operation.

② Engine rpm : This displays the engine speed.

③ Engine run status : This displays the engine run ststus.

(2) Machine security



① ESL (Engine Starting Limit) mode setting

- ESL mode is designed to be a theft deterrent or will prevent the unauthorized operation of the machine.
- If the ESL mode was selected Always, the password will be required when the start switch is turned ON.
- Disable : Not used ESL function.

Always: The password is required whenever the operator start engine.

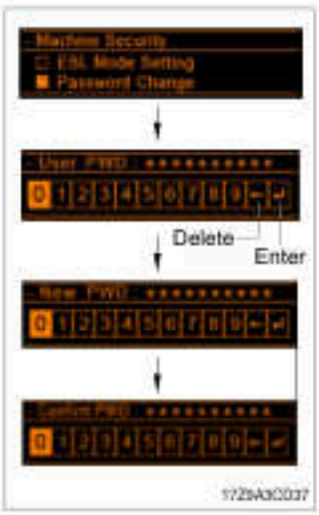
Interval : The password is required when the operator start engine first. But the operator can restart the engine within the interval time without inputting the password.

The interval time can be set maximum 2 days.

Interval time

- If set interval time to 5 minutes, ESL system is activated after 5 minutes. Therefore, the password does not need to restart engine within 5 minutes.

※ Default password : 00000

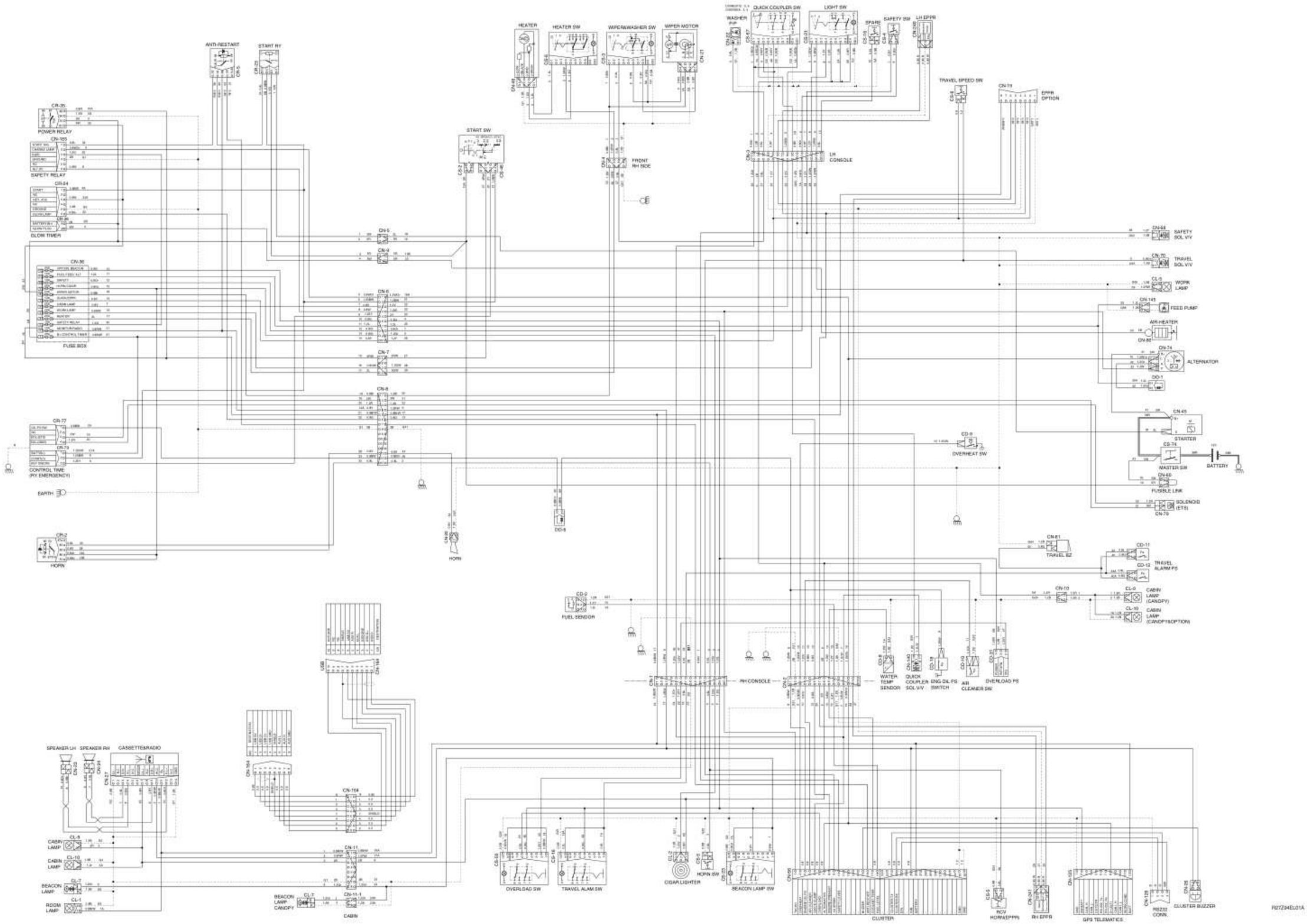


② Password change

- Input 5 to 10 digits and press Enter.

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ELECTRICAL CIRCUIT (machine serial No. : #1137~)



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