CRAWLER EXCAVATOR

SERVICE MANUAL

R25Z-9A

HYUNDAI

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5. LIFTING CAPACITIES

1) 1.945 m (6' 5") boom, 1.12 m (3' 8") arm equipped with 0.07 m³ (SAE heaped) bucket and 250 mm (10") rubber track, the dozer blade up with 118 kg (260 lb) counterweight.

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

Load point height		Load radius								At max. reach		
		2.0 m (7.0 ft)		2.5 m (8.0 ft)		3.0 m (10.0 ft)		3.5 m (11.0 ft)		Capacity		Reach
												m (ft)
3.5 m (11.0 ft)	kg									460	400	2.88
	lb									1010	880	(9.4)
3.0 m (10.0 ft)	kg					410	360			330	290	3.48
	lb					900	790			730	640	(11.4)
2.5 m (8.0 ft)	kg					410	360			270	240	3.85
	lb					900	790			600	530	(12.6)
2.0 m (7.0 ft)	kg			560	490	410	360	310	270	240	210	4.09
	lb			1230	1080	900	790	680	600	530	460	(13.4)
1.5 m (5.0 ft)	kg	800	680	540	470	400	350	300	260	220	190	4.22
	lb	1760	1500	1190	1040	880	770	660	570	490	420	(13.8)
1.0 m (3.0 ft)	kg			520	450	380	340	290	260	210	190	4.26
	lb			1150	990	840	750	640	570	460	420	(14.0)
0.5 m (2.0 ft)	kg	730	610	500	430	370	330	290	250	210	190	4.22
	lb	1610	1340	1100	950	820	730	640	550	460	420	(13.8)
Ground Line	kg	720	600	490	420	370	320	290	250	220	190	4.09
	lb	1590	1320	1080	930	820	710	640	550	490	420	(13.4)
-0.5 m (-2.0 ft)	kg	720	610	490	420	370	320			240	210	3.86
	lb	1590	1340	1080	930	820	710			530	460	(12.7)
-1.0 m (-3.0 ft)	kg	730	610	500	430	370	320			290	250	3.49
	lb	1610	1340	1100	950	820	710			640	550	(11.5)
-1.5 m (-5.0 ft)	kg	750	630	510	440					400	350	2.90
	lb	1650	1390	1120	970					880	770	(9.5)
-2.5 m (-8.0 ft)	kg									370	330	3.14
	lb									820	730	(10.3)

Note Lifting capacity are based on SAE J1097 and ISO 10567.

1. 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.
2. The load point is a hook located on the back of the bucket.

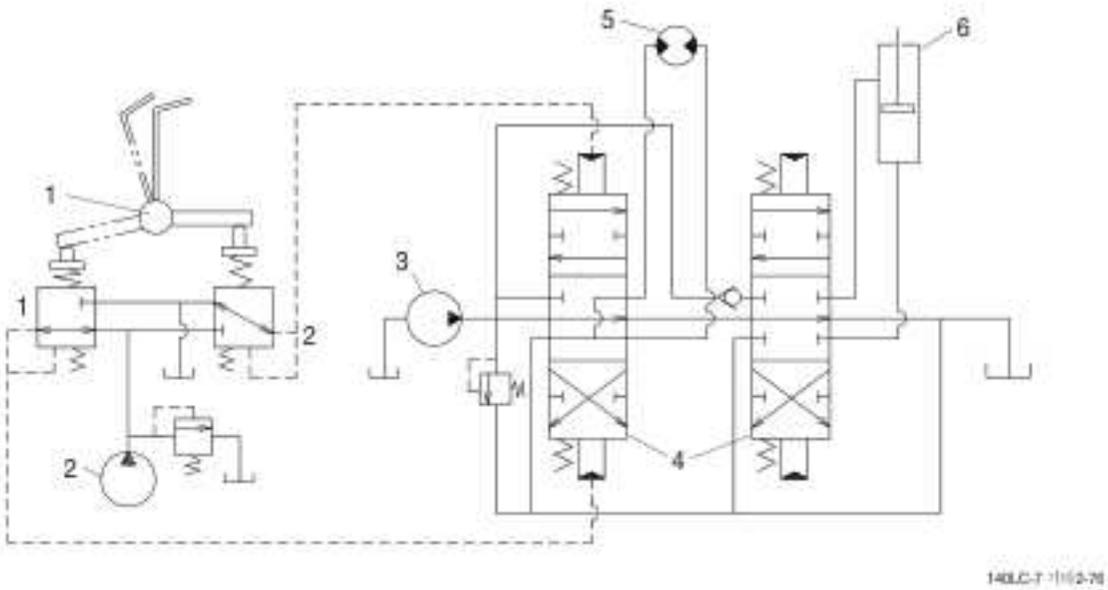
*indicates load limited by hydraulic capacity.

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3) OPERATION

The operation of the pilot valve will be described on the basis of the hydraulic circuit diagram shown below ant the attached operation explanation drawing.

The diagram shown below is the typical application example of the pilot valve.



1	Pilot valve	3	Main pump	5	Hydraulic motor
2	Pilot pump	4	Main control valve	6	Hydraulic cylinder

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2) TROUBLESHOOTING AND COUNTERMEASURE

No.	Trouble	Possible cause	Countermeasure
1	Overload to engine	· Speed is higher than standard · Setting pressure is higher than specifications · Damage of internal parts of pump	- Readjust it as standard - Readjust it as spec - Repair or replace
2	Low pump flow or low pressure	· Speed down of engine · Wrong coupling · Damage of internal parts of pump	- Readjust of engine speed - Repair or replace - Repair or replace
3	Abnormal noise or abnormal vibration (cavitations)	· Air in the oil · Water in the oil · Clog of suction filter · High suction pressure · Damage of piston shoe · Installation condition is no good · Wrong coupling	- Check piping Bleed the air in the hydraulic circuit - Replace oil - Clean or replace - Correction - Replace - Correction - Replace
4	Oil leakage	· Damage of O-ring or packing · Loosened plug · Leaking from oil seal	- Replace - Tight up - Replace Replace of oil seal

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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



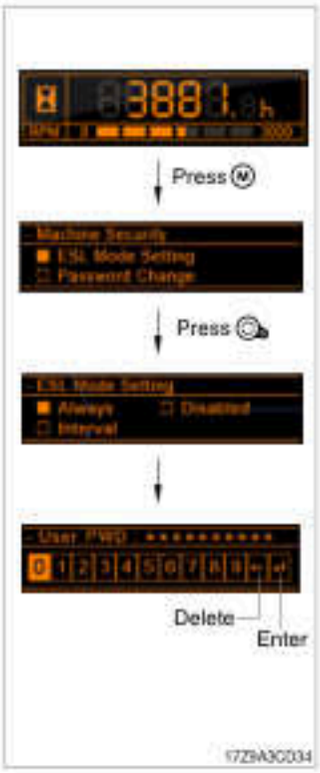
① Service meter : This meter shows the total operation hours of the machine.

※ 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.

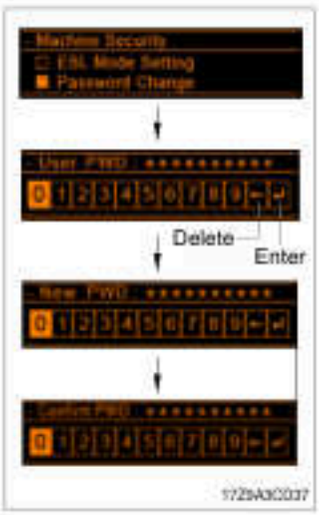
Interval : The password is required when the operator start engine first. But the operator can restart the engine within the interval time without inputting the password.

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.

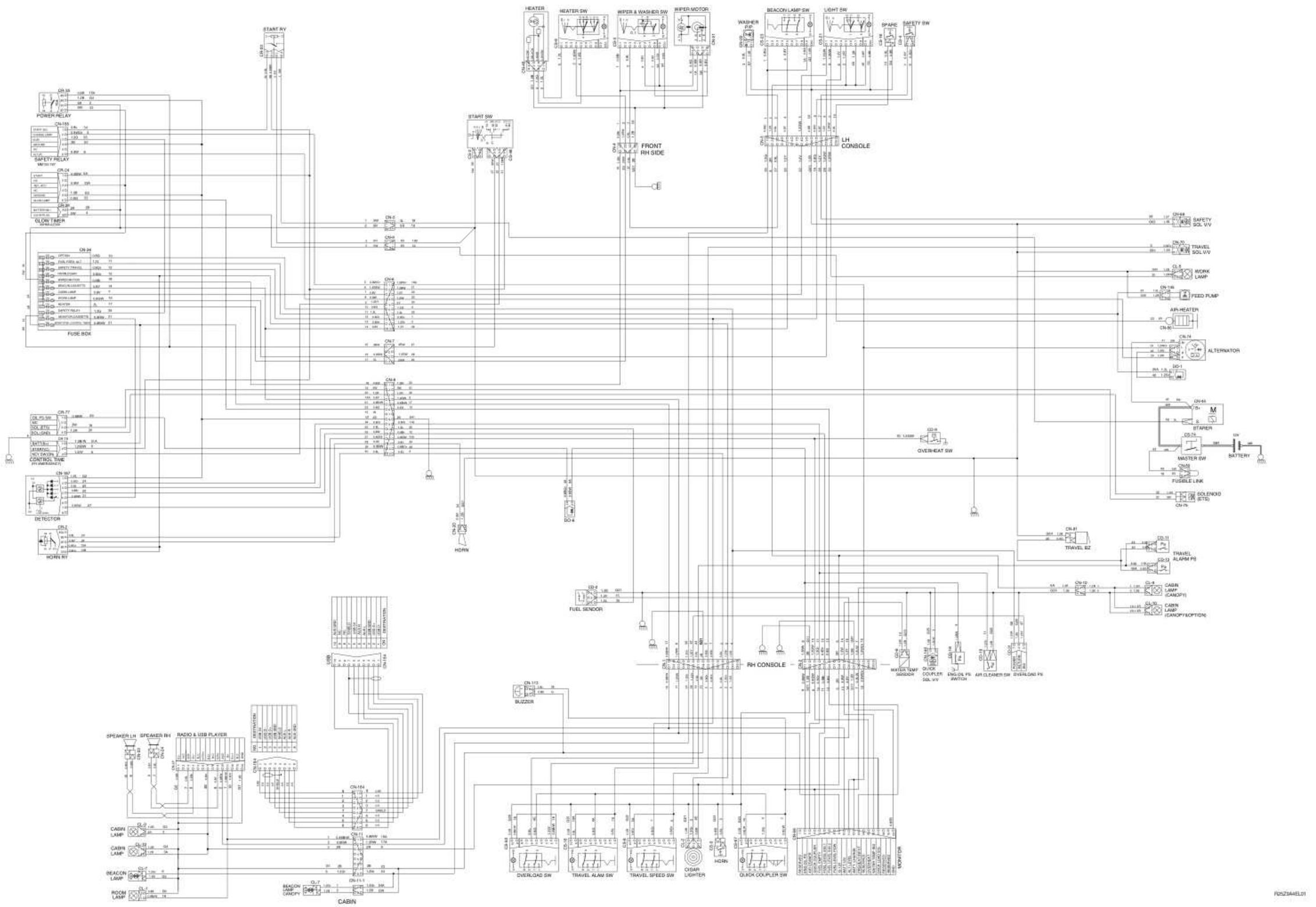
※ Default password : 00000



② Password change

- Input 5 to 10 digits and press Enter.

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