CRAWLER EXCAVATOR

SERVICE MANUAL

HX140L

HYUNDAI

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2) HX140 L, ADJUST BOOM

(1) 4.90 m (16' 1") adjust boom, 1.90 m (6' 3") arm equipped with 0.58 m³ (SAE heaped) bucket and 600 mm (24") triple grouser shoe.

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

Load point height		Load radius						At max. reach		
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity		Reach
										m (ft)
6.0 m (20.0 ft)	kg			*3150	*3150			*2880	2010	6.45
	lb			*6940	*6940			*6350	4430	(21.2)
4.5 m (15.0 ft)	kg			*3480	*3480	*3290	2180	2530	1550	7.33
	lb			*7670	*7670	*7250	4810	5580	3420	(24.0)
3.0 m (10.0 ft)	kg	*6970	*6320	*4400	3370	3430	2100	2250	1340	7.76
	lb	*15370	*13930	*9700	7430	7560	4630	4960	2950	(25.5)
1.5 m (5.0 ft)	kg			5230	3090	3310	1980	2170	1280	7.84
	lb			11530	6810	7300	4370	4780	2820	(25.7)
Ground Line	kg	*5470	*5470	5060	2940	3220	1900	2270	1340	7.58
	lb	*12060	*12060	11160	6480	7100	4190	5000	2950	(24.9)
-1.5 m (-5.0 ft)	kg	*9260	5620	5030	2910	3210	1890	2640	1570	6.93
	lb	*20410	12390	11090	6420	7080	4170	5820	3460	(22.7)
-3.0 m (-10 ft)	kg			5130	3000					
	lb			11310	6610					

Note 1. Lifting capacity are based on SAE J1097 and ISO 10567.
2. Lifting capacity of the HX 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.

(2) 4.90 m (16' 1") adjust boom, 2.10 m (6' 11") arm equipped with 0.58 m³ (SAE heaped) bucket and 600 mm (24") triple grouser shoe.

Load point height		Load radius						At max. reach		
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity		Reach
										m (ft)
6.0 m (20.0 ft)	kg			*2930	*2930			*2760	1900	6.68
	lb			*6460	*6460			*6080	4190	(21.9)
4.5 m (15.0 ft)	kg			*3280	*3280	*3160	2200	2420	1470	7.52
	lb			*7230	*7230	*6970	4850	5340	3240	(24.7)
3.0 m (10.0 ft)	kg	*6430	*6430	*4200	3380	3430	2100	2160	1280	7.94
	lb	*14180	*14180	*9260	7450	7560	4630	4760	2820	(26.0)
1.5 m (5.0 ft)	kg			5230	3090	3300	1980	2080	1220	8.02
	lb			11530	6810	7280	4370	4590	2690	(26.3)
Ground Line	kg	*5820	5510	5040	2920	3200	1890	2170	1270	7.77
	lb	*12830	12150	11110	6440	7050	4170	4780	2800	(25.5)
-1.5 m (-5.0 ft)	kg	*9380	5550	4960	2870	3170	1860	2490	1480	7.14
	lb	*20680	12240	10980	6330	6990	4100	5490	3260	(23.4)
-3.0 m (-10 ft)	kg	*8320	5690	5060	2940					
	lb	*18340	12540	11160	6480					

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(SERIAL NO. : #0611-)

DTC		Diagnostic Criteria	Application		
HCESPN	FMI		G	C	W
841	2	10 seconds continuous, ECM Communication Data Error	●		
		(Results / Symptoms) 1. Control Function – ECM operation failure (Checking list) 1. CN-93 (#25) – CN-52 (#02) Checking Open/Short 2. CN-93 (#26) – CN-52 (#01) Checking Open/Short			
848	2	(When mounting the Haptic Controller) 60 seconds continuous, Haptic Controller Communication Data Error	●		
		(Results / Symptoms) 1. Control Function – Haptic Controller operation failure (Checking list) 1. CN-8 (#2) – CN-51 (#09) Checking Open/Short 2. CN-8 (#3) – CN-51 (#08) Checking Open/Short			
850	2	(When mounting the RMCU) 60 seconds continuous, RMCU communication Data Error	●		
		(Resuluts / Symptoms) 1. Control Function – RMCU operation failure (Checking list) 1. CN-125A (#3) – CN-51 (#09) Checking Open/Short 2. CN-125A (#11) – CN-51 (#08) Checking Open/Short			
866	2	(When mounting the AAVM) 60 seconds continuous, AAVM communication Data Error	●		
		(Results / Symptoms) 1. Control Function – AAVM operation failure (Checking list) 1. CN-9 (#5) – CN-51 (#09) Checking Open/Short 2. CN-9 (#6) – CN-51 (#08) Checking Open/Short			
867	2	60 seconds continuous, RDU communication Data Error	●		
		(Results / Symptoms) 1. Control Function – RDU operation failure (Checking list) 1. CN-376 (#10) – CN-51 (#09) Checking Open/Short 2. CN-376 (#18) – CN-51 (#08) Checking Open/Short			

※ Some error codes are not applied to this machine.

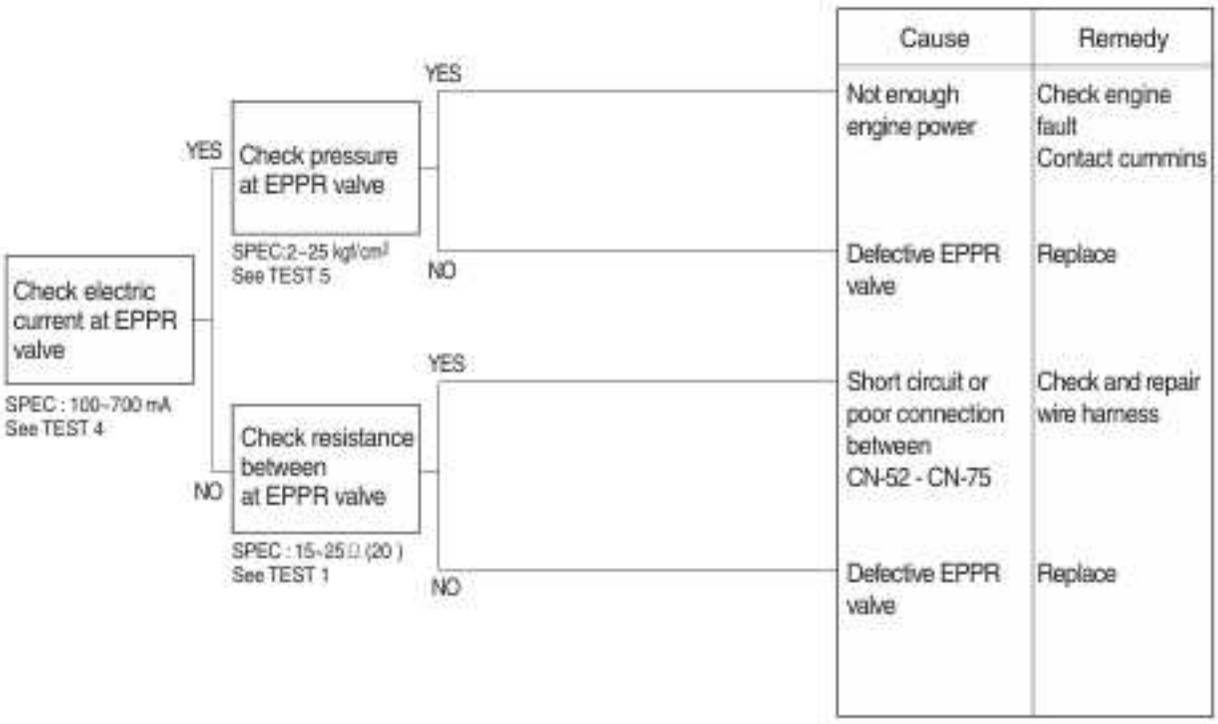
G : General C : Crawler Type W : Wheel Type

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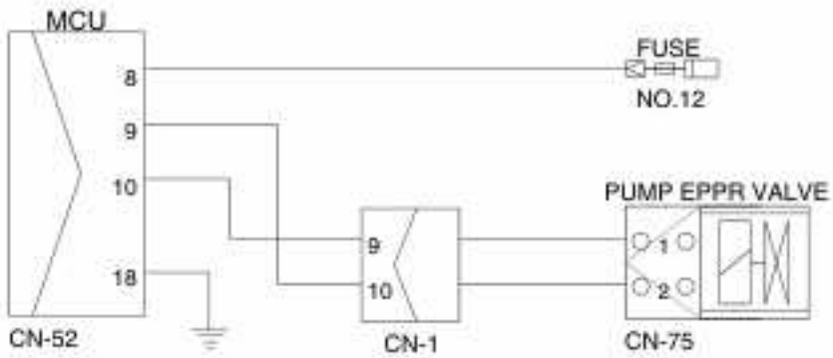
2. ENGINE STALL (SERIAL NO. : -#0610)

※ Before carrying out below procedure, check all the related connectors are properly inserted.

1) INSPECTION PROCEDURE



Wiring diagram



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■ Disassemble cylinder sub.

9) Disassemble cylinder block assembly, piston assembly (9) and seat plate (M).





10) Disassemble ball guide (16), ring and pin (15) from cylinder block, respectively.





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(19) Shrink fit taper bearing (3) on drive shaft, complete drive shaft sub assembly.



125LCR8SM102

Casing assembly

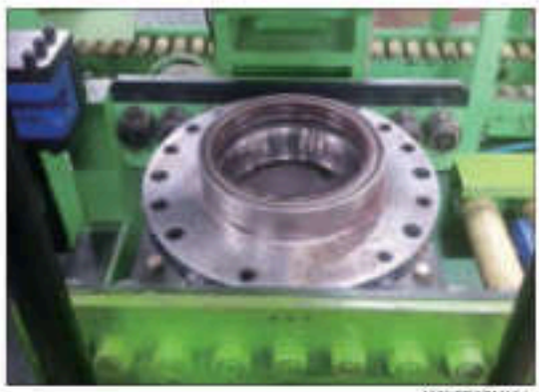
(20) Press outer ring of the taper bearing in the casing (8) by using the jig.



125LCR8SM103

(21) Press in oil seal (27) by using the jig.

※ Be careful of the direction of the assembly.



125LCR8SM104

(22) Assemble drive shaft sub assembly.

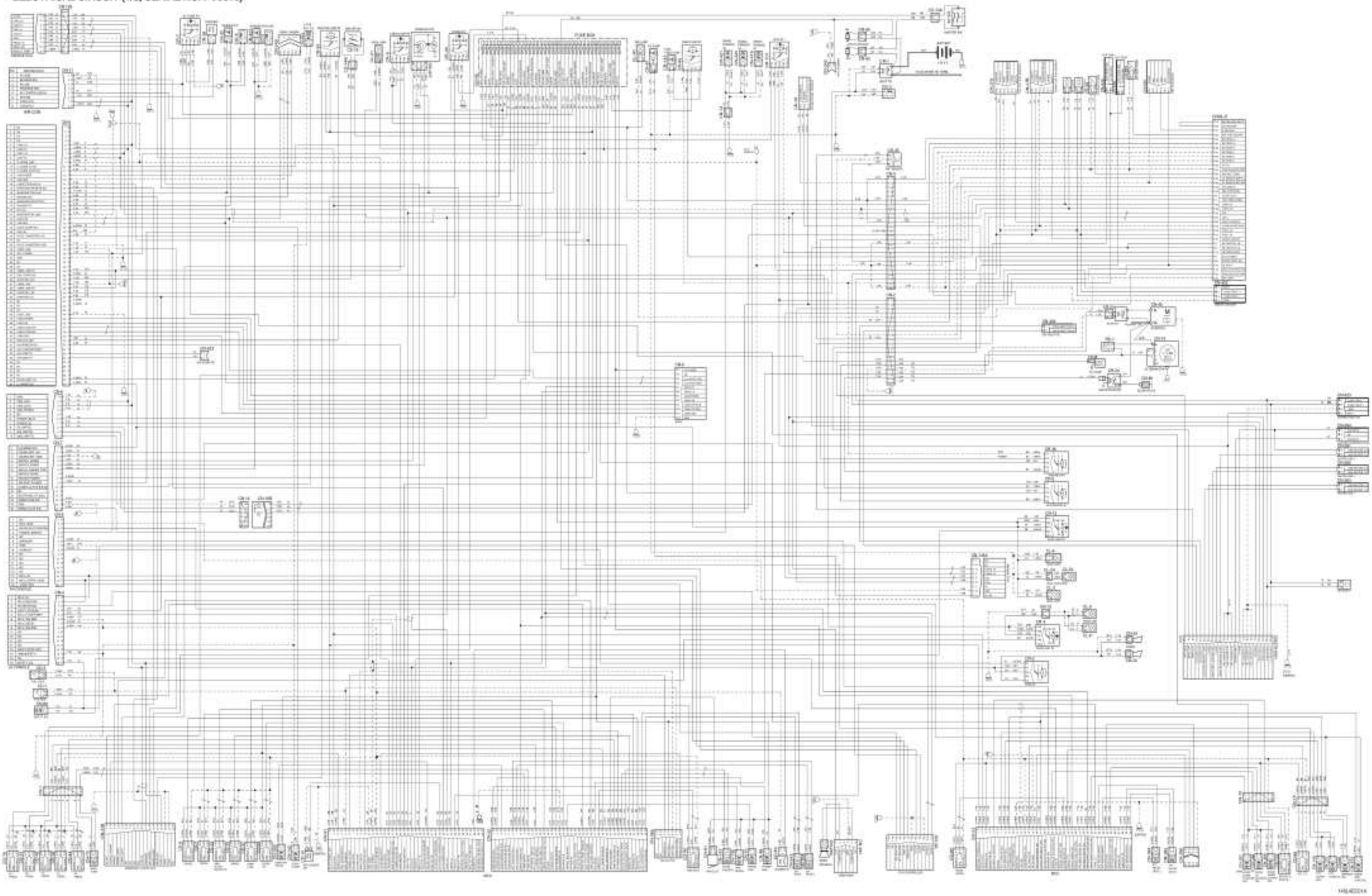
※ Be careful of damage of oil seal.



125LCR8SM105

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· ELECTRICAL CIRCUIT (1/5, SERIAL NO. : -#0610)



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