CRAWLER EXCAVATOR

SERVICE MANUAL

HX145A LCR

HYUNDAI

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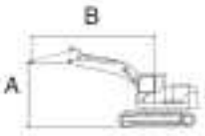
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Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
HX145A LCRD	2-PIECE BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		4939	2500	2800	600	-	Up	-	-	-

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



Lift-point height (A)		Lift-point radius (B)						At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
										m (ft)
7.5 m (24.6 ft)	kg							*3080	*3080	4.31
	lb							*6790	*6790	(14.1)
6.0 m (19.7 ft)	kg			*3790	*3790			*2500	*2500	5.89
	lb			*8360	*8360			*5510	*5510	(19.3)
4.5 m (14.8 ft)	kg	*3800	*3800	*4130	*4130	*3730	2880	*2310	*2310	6.79
	lb	*8380	*8380	*9110	*9110	*8220	6350	*5090	*5090	(22.3)
3.0 m (9.8 ft)	kg	*7170	*7170	*4910	4270	*4010	2790	*2270	2060	7.28
	lb	*15810	*15810	*10820	9410	*8840	6150	*5000	4540	(23.9)
1.5 m (4.9 ft)	kg			*5750	3990	4110	2670	*2350	1950	7.43
	lb			*12680	8800	9060	5890	*5180	4300	(24.4)
0.0 m (0.0 ft)	kg	*3940	*3940	6170	3810	4010	2580	*2550	1980	7.27
	lb	*8690	*8690	13600	8400	8840	5690	*5620	4370	(23.9)
-1.5 m (-4.9 ft)	kg	*7150	6850	*6010	3740	3960	2540	*2970	2170	6.78
	lb	*15760	15100	*13250	8250	8730	5600	*6550	4780	(22.3)
-3.0 m (-9.8 ft)	kg	*7140	6960	*5090	3780					
	lb	*15740	15340	*11220	8330					

Note 1. Lifting capacity are based on 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 Lift-point is bucket pivot mounting pin on the arm (without bucket mass).

4. *Indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.
Lifting capacities will vary with different work tools, ground conditions and attachments.
The difference between the weight of a work tool attachment must be subtracted.
Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

⚠ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessory for non-standard configurations.

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5. AAVM FAULT CODE

Fault Code	Description
A01	AAVM Communication Error -AAVM
A02	AAVM Communication Error -Front Camera
A03	AAVM Communication Error -Rear Camera
A04	AAVM Communication Error -Left Camera
A05	AAVM Communication Error -Right Camera
A06	Manual Setting Fail
A07	No MCU CID
A08	MCU CID Format Error
A09	AAVM Hardware Error -AAVM
A10	AAVM Hardware Error -Front Camera
A11	AAVM Hardware Error -Rear Camera
A12	AAVM Hardware Error -Left Camera
A13	AAVM Hardware Error -Right Camera
A14	MCU CID Model is not registered
A15	MCU CID Model can't be applied

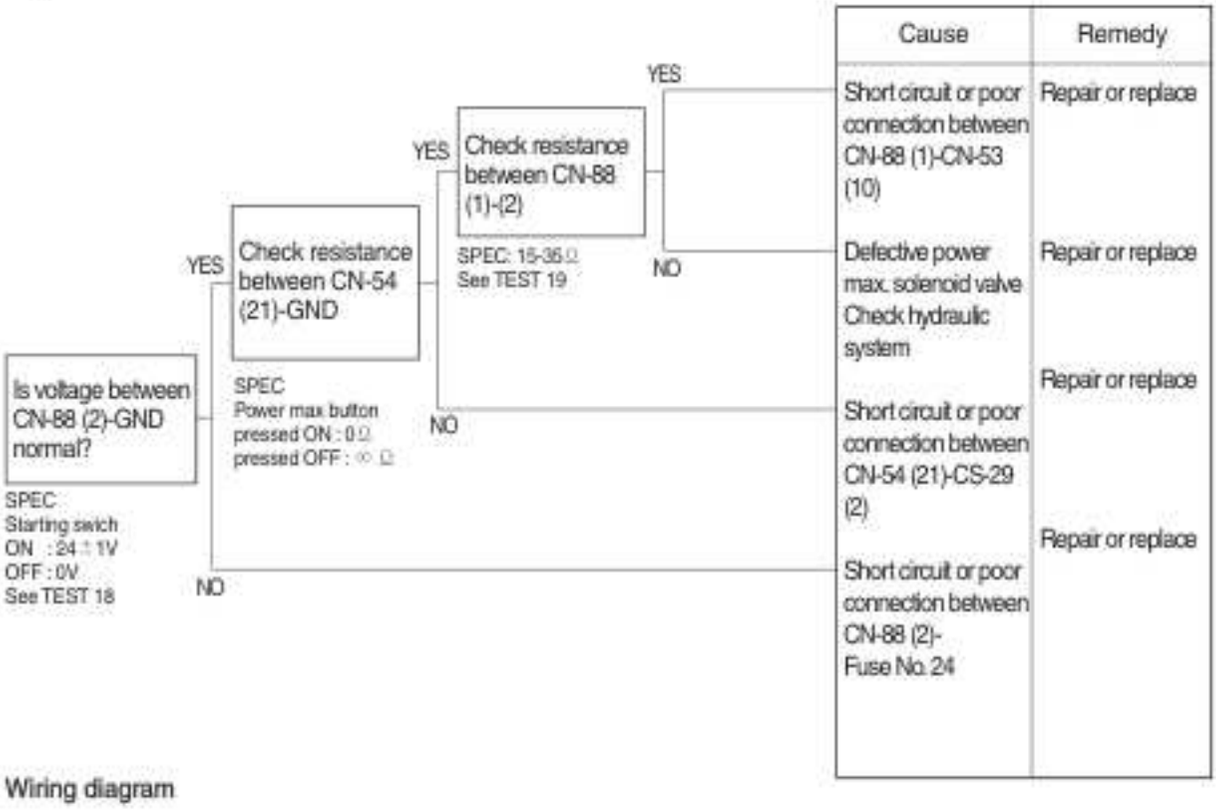
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13. MALFUNCTION OF POWER MAX

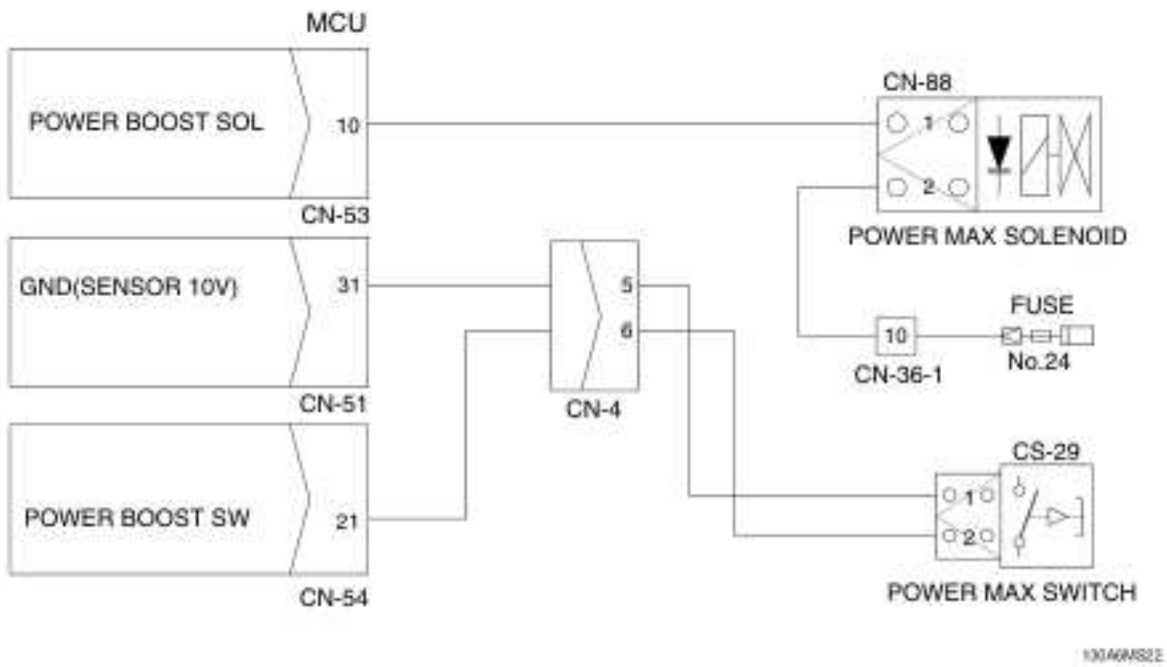
- Fault code : HCESPN 166, FMI 4 or 6

※ 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).



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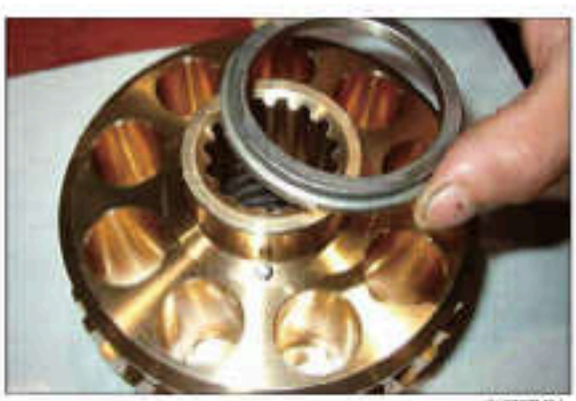


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(10) Disassemble ball guide (16), ring and pin (15) from cylinder block, respectively.



21078TM33



21078TM34

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



125LCR8SM102

Casing assembly

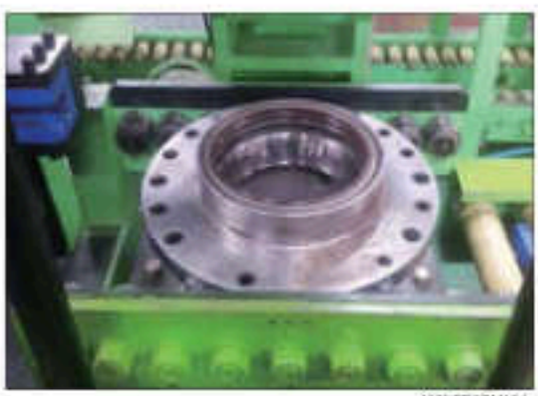
(20) Press outer ring of the taper roller bearing in the casing (8) by using the jig.



125LCR8SM103

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

※ Be careful of the direction of the assembly.



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(22) Assemble drive shaft sub assembly.

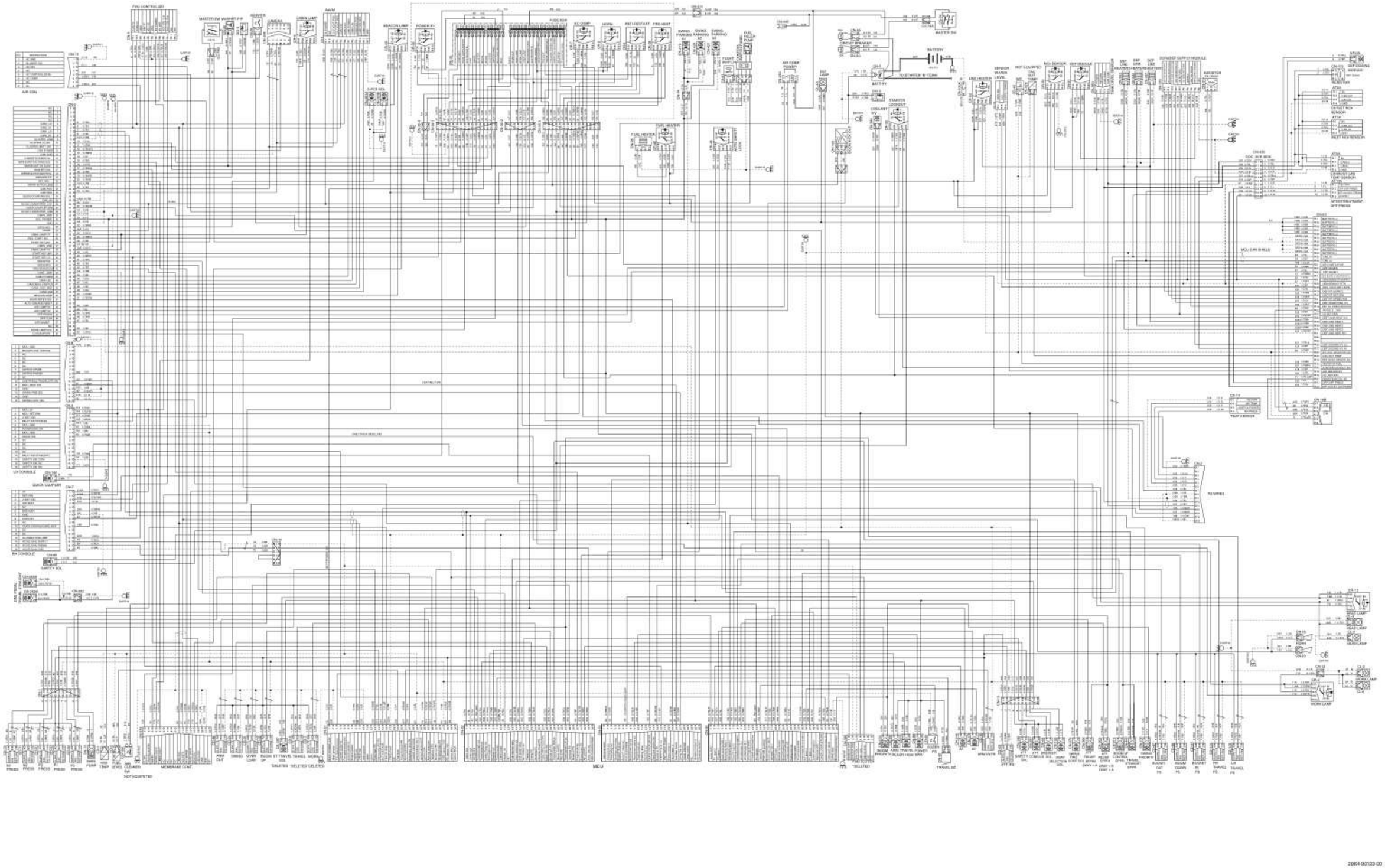
※ Be careful of damage of oil seal.



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· ELECTRICAL CIRCUIT (1/3)



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