CRAWLER EXCAVATOR

SERVICE MANUAL

HX160, HX180L

HYUNDAI

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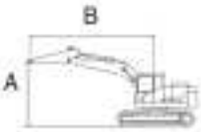
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5. LIFTING CAPACITIES

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outtriger	
HX160 L	MONO BOOM	Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
		5100	2600	2600	600	-	-	-	-	-

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



Lift-point height (A)		Lift-point radius (B) 1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		At max. reach Capacity		Reach
														m (ft)
7.5 m (24.6 ft)	kg											*3400	*3400	4.85
	lb											*7500	*7500	(15.9)
6.0 m (19.7 ft)	kg							*3830	3420			*2960	*2960	6.27
	lb							*8440	7540			*6530	*6530	(20.6)
4.5 m (14.8 ft)	kg					*4890	*4890	*4450	3370			*2840	2550	7.10
	lb					*10780	*10780	*9810	7430			*6260	5620	(23.3)
3.0 m (9.8 ft)	kg			*9410	9100	*6140	4940	*4960	3240	*3100	2290	*2870	2270	7.54
	lb			*20750	20060	*13540	10890	*10930	7140	*6830	5060	*6330	5000	(24.7)
1.5 m (4.9 ft)	kg					*7420	4610	5040	3090	3610	2230	*3050	2160	7.66
	lb					*16360	10160	11110	6810	7960	4920	*6720	4760	(25.1)
0.0 m (0.0 ft)	kg			*5280	*5280	7610	4410	4910	2980			*3420	2200	7.47
	lb			*11640	*11640	16780	9720	10820	6570			*7540	4850	(24.5)
-1.5 m (-4.9 ft)	kg	*5070	*5070	*9170	8030	7530	4350	4860	2930			3960	2420	6.95
	lb	*11180	*11180	*20220	17700	16600	9590	10710	6460			8730	5340	(22.8)
-3.0 m (-9.8 ft)	kg	*9360	*9360	*10230	8160	*7160	4400	4930	2990			4910	2980	6.01
	lb	*20610	*20610	*22550	17990	*15790	9700	10870	6590			10820	6570	(19.7)
-4.5 m (-14.8 ft)	kg			*6920	*6920							*4590	*4590	4.39
	lb			*15260	*15260							*10120	*10120	(14.4)

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 your HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

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

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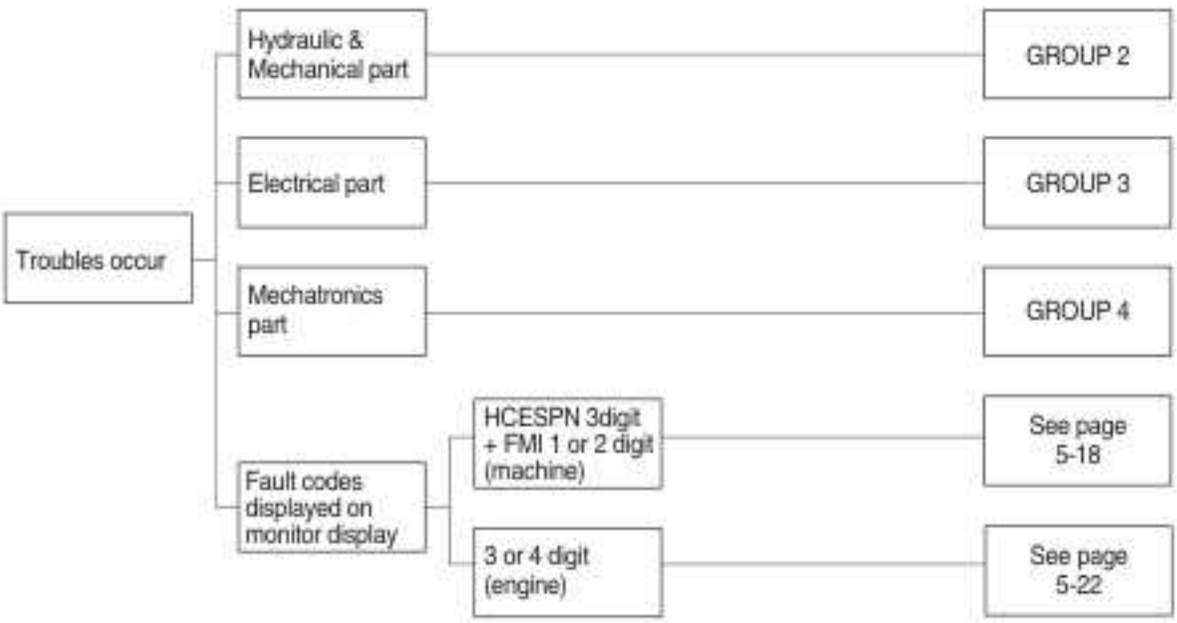
GROUP 1 BEFORE TROUBLESHOOTING

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, Electrical system and Mechatronics system. At each system part, an operator can check the machine according to the troubleshooting process diagram.

※ Before carring out troubleshooting procedure, check monitoring menu in the cluster.

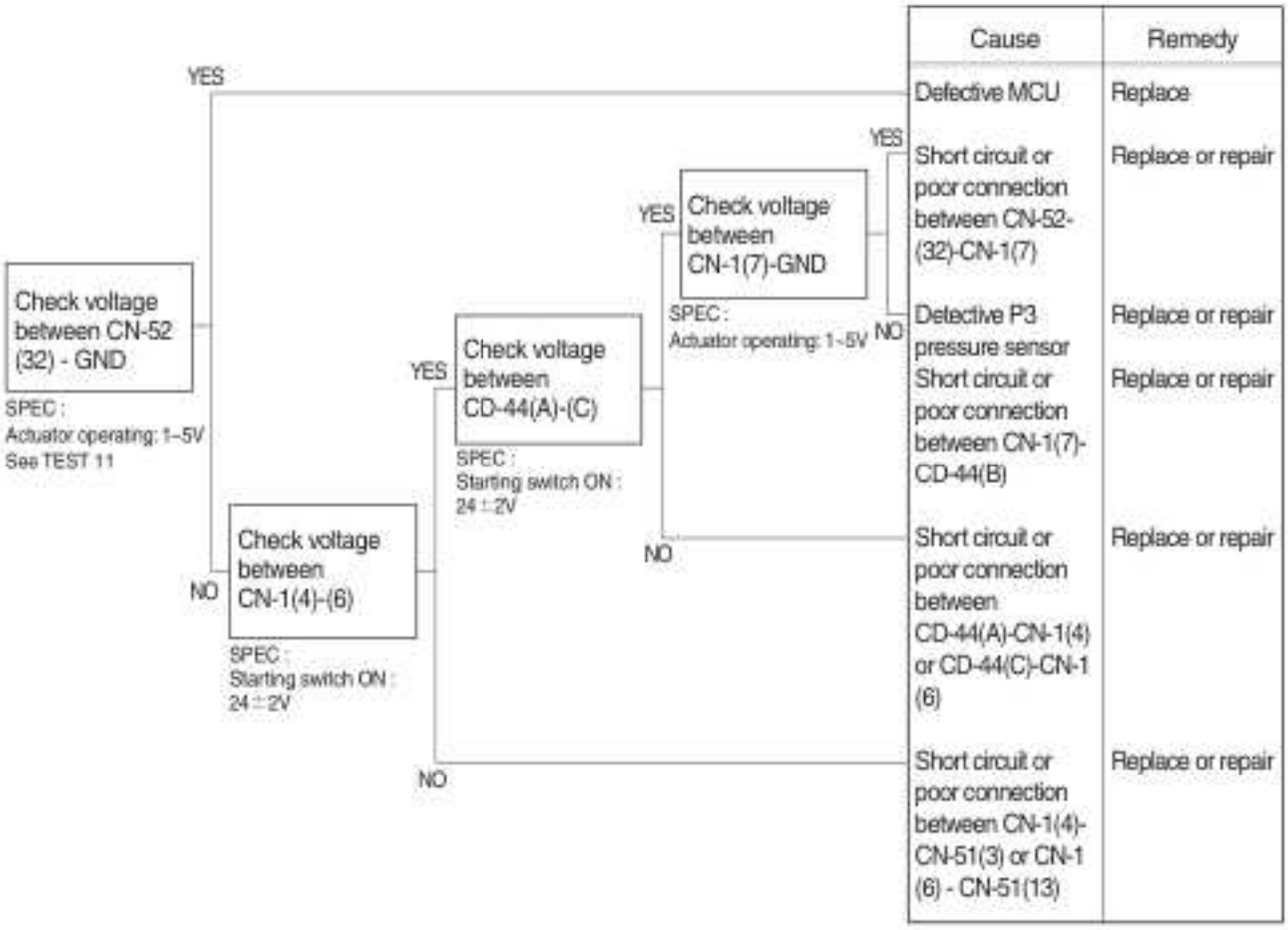


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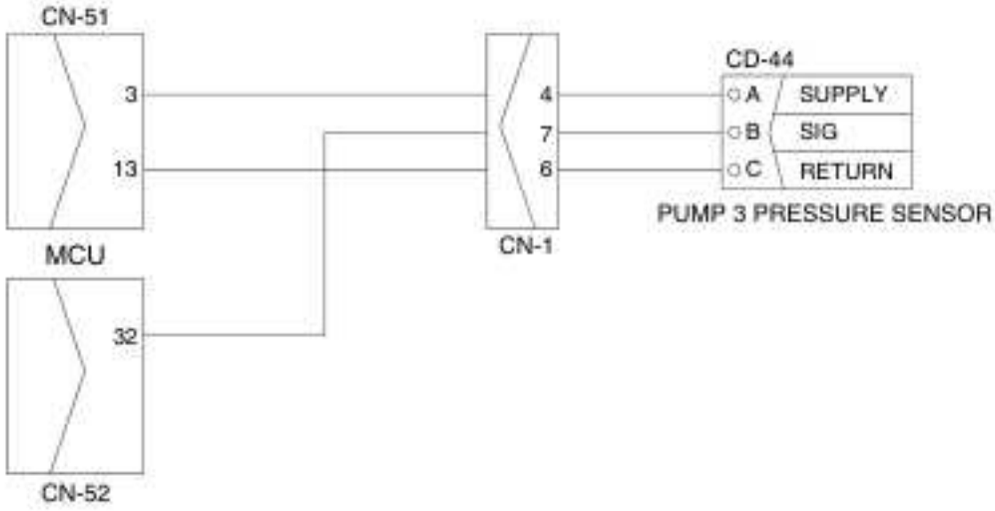
7. MALFUNCTION OF PUMP 3 PRESSURE SENSOR

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

1) INSPECTION PROCEDURE



Wiring diagram



300LEM309

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3) ASSEMBLING PINION GEAR SUB ASSY

(1) Prepare drive shaft pinion gear vertical with ground.

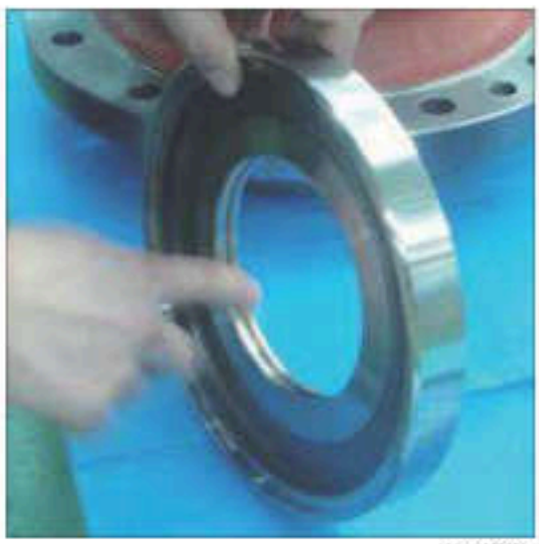


2209A8SM21

(2) Fully apply grease (albania EP02) to O-ring groove of sleeve.

※ Be sure to maintain it vertical with ground when assembling it.

(3) Put O-ring into O-ring groove of sleeve. Fully apply grease on O-ring.



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(4) Assemble taper bearing and sleeve into drive shaft using press jig.
Use special jig for pressing. Leave no space between sleeve and taper bearing.



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21) Assemble valve plate (70) into rear cover (29).



22) After assembling shaft casing (1) and rear cover (29).
Assemble spool assembly (30), spring (38), spool (39), cover (37) after then complete assembly with wrench bolt (45).

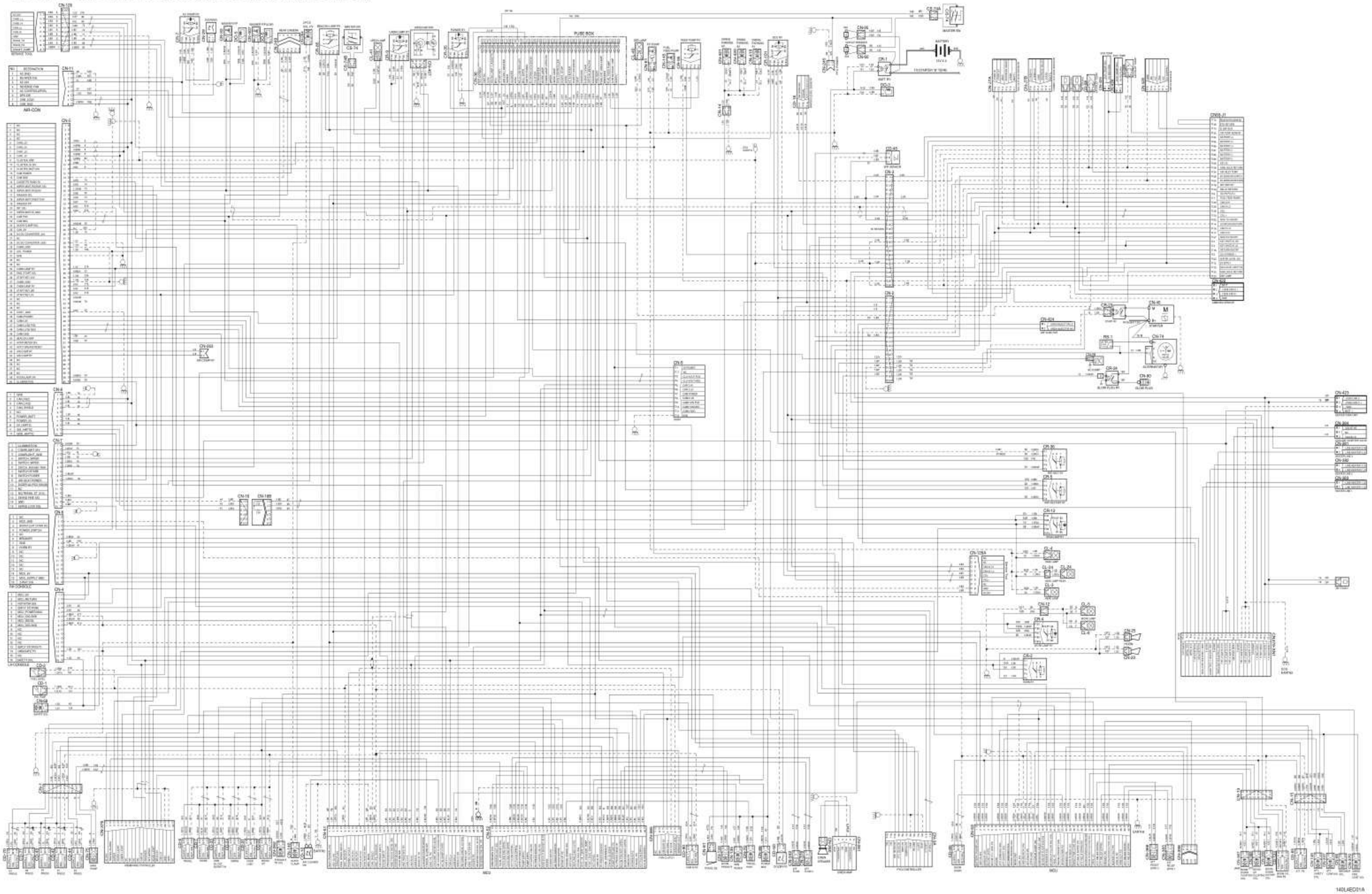


23) Finish assembly.



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· ELECTRICAL CIRCUIT (1/5, SERIAL NO. HX160 L : -#0239 / HX180 L : -#0062)



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