CRAWLER EXCAVATOR

SERVICE MANUAL

HX430L

HYUNDAI

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(2) 6.5 m (21' 4") boom, 3.2 m (10' 6") arm equipped with 1.90 m³ (SAE heaped) bucket and 600 mm (24") triple grouser shoe and 6200 kg (13670 lb) counterweight.

Load point height		Load radius												At max. reach		
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)		Capacity		Reach
																m (ft)
9.0 m	kg													*5440	*5440	7.31
(30 ft)	lb													*11990	*11990	(24.0)
7.5 m	kg									*5330	*5330			*5490	*5490	8.53
(25.0 ft)	lb									*11750	*11750			*12100	*12100	(28.0)
6.0 m	kg									*6000	*6000			*5630	5080	9.32
(20.0 ft)	lb									*13230	*13230			*12410	11200	(30.6)
4.5 m	kg							*7670	*7670	*6690	*6690	*5290	*5290	*5850	4450	9.80
(15.0 ft)	lb							*16910	*16910	*14750	*14750	*11660	*11660	*12900	9810	(32.2)
3.0 m	kg					*12950	*12950	*9350	*9350	*7600	7290	*6650	5220	*6110	4130	10.01
(10.0 ft)	lb					*28550	*28550	*20610	*20610	*16760	16070	*14660	11510	*13470	9110	(32.8)
1.5 m	kg					*15710	15610	*10910	9940	*8500	6920	*7140	5020	*6420	4040	9.98
(5.0 ft)	lb					*34630	34410	*24050	21910	*18740	15260	*15740	11070	*14150	8910	(32.7)
Ground	kg			*12890	*12890	*17110	14960	*11990	9480	*9200	6640	*7490	4880	*6770	4190	9.70
Line	lb			*28420	*28420	*37720	32980	*26430	20900	*20280	14640	*16510	10760	*14930	9240	(31.8)
-1.5 m	kg	*13760	*13760	*17830	*17830	*17340	14770	*12430	9270	*9490	6490			*7150	4640	9.15
(-5.0 ft)	lb	*30340	*30340	*39310	*39310	*38230	32560	*27400	20440	*20920	14310			*15760	10230	(30.0)
-3.0 m	kg	*18570	*18570	*23870	*23870	*16570	14860	*12110	9270	*9150	6510			*7520	5610	8.26
(-10.0 ft)	lb	*40940	*40940	*52620	*52620	*36530	32760	*26700	20440	*20170	14350			*16580	12370	(27.1)
-4.5 m	kg	*24270	*24270	*20790	*20790	*14620	*14620	*10670	9500					*7700	*7700	6.89
(-15.0 ft)	lb	*53510	*53510	*45830	*45830	*32230	*32230	*23520	20940					*16980	*16980	(22.6)

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Fault code J1939 SPN J1939 FMI	Reason	Effect (only when fault code is active)
4866 6303 4	Engine coolant level 2 sensor circuit - Voltage below normal, or shorted to low source. Low signal voltage detected at the engine coolant level 2 circuit.	None on performance.
4956 520750 13	Engine variable geometry turbo (VGT) software - Out of calibration. VGT software does not match application.	Possible reduced engine performance.
4957 520750 31	Engine variable geometry turbo (VGT) software - Condition exists. The VGT actuator and ECM software is not compatible.	Possible reduced engine performance.

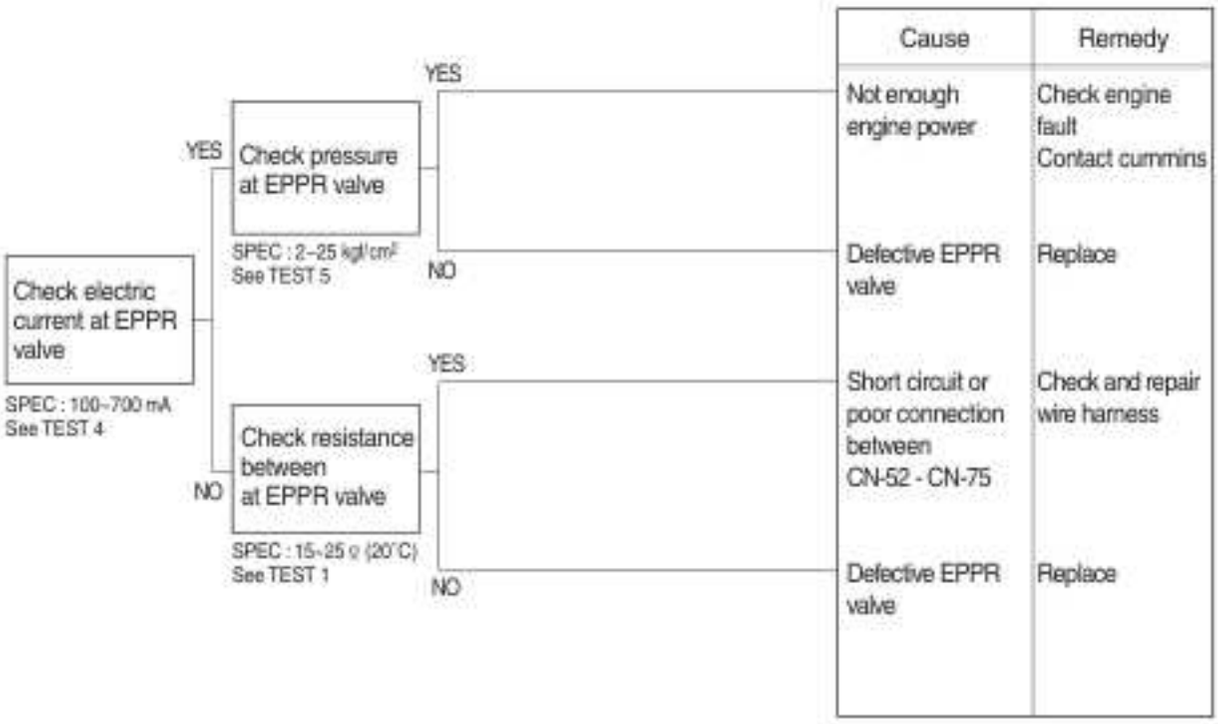
※ Some fault codes are not applied to this machine.

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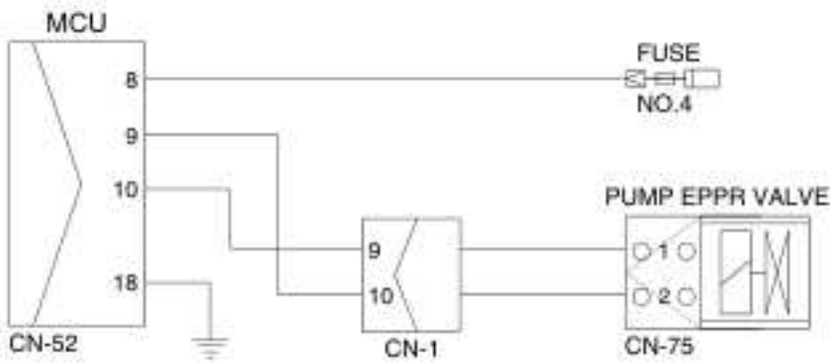
2. ENGINE STALL

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

1) INSPECTION PROCEDURE



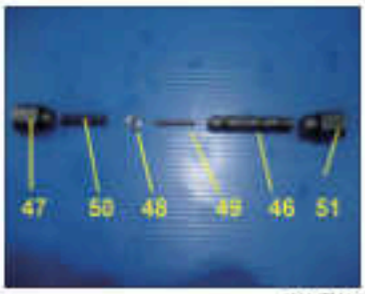
Wiring diagram



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(5) Insert spool (46), parallel pin (49), spring seat (48) and spring (50) in regular sequence and then assemble plug (47), connector (51) using torque-wrench.

· Tightening torque : 5.5±0.5 kgf · m (39.8±3.62 lbf · ft)



43038TM46


43038TM47


43038TM48

(6) Press needle bearing (10) into rear cover (32) using jig.


43038TM49

(7) Assemble spring pin (30), parallel pin (27) using small hammer.


43038TM50

(8) Apply loctitle #242 on the restrictor (57, 58) and then assemble restrictor (57, 58), O-ring (43, 44) into rear cover (34).



43038TM51



43038TM52



43038TM53

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⑤ Disassemble shoe plate (8) from body (1).



⑥ Using a plier jig, disassemble snap ring (4) and shaft assy (5).



(2) Disassemble cylinder block assy sub

① Disassemble pistion assy (14), set plate (13) from cylinder block assy.

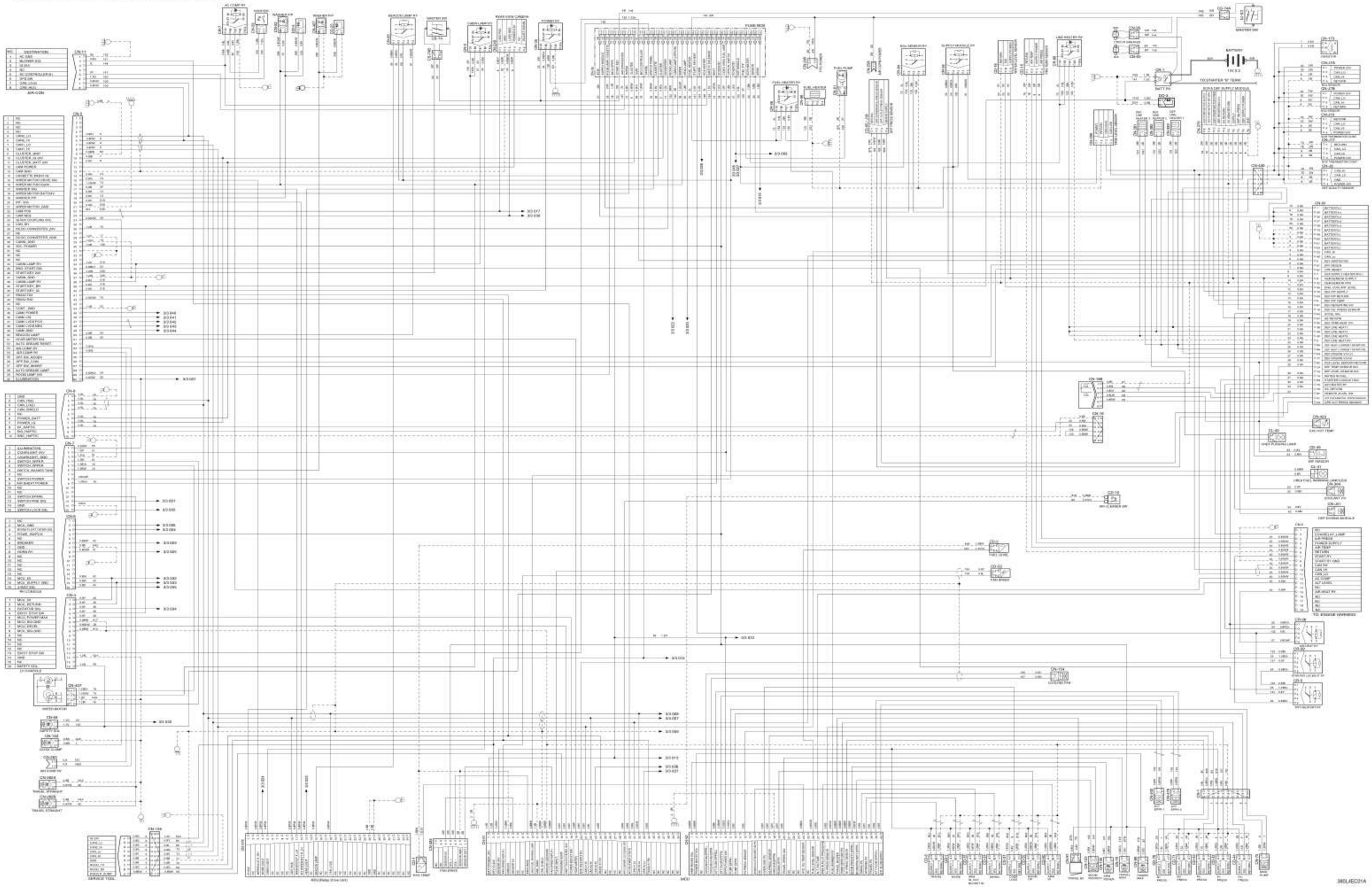


② Disassemble ball guide (12), friction plate (15), plate (16) and ball guide seat (11) from cylinder block (9).



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· ELECTRICAL CIRCUIT (1/6, SERIAL NO. : -#0016)



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