

**ADAS**

Autel Technology Corp.,Ltd.

## Vehicle Diagnostic Report

Shop Name: P &amp; G MOTORS

Shop Number: 13

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Address: 79 Station Road, Seven Hills, 2147, NSW

### Vehicle information

Mazda 2009 MY(Model Year) CX-7 (Europe / General Specs.)

VIN: JM0ER10A200238943

Diagnostics time: 2020/08/07 09:48

Mileage:

Path: Automatic selection &gt; Right Hand Drive &gt; Not equipped &gt; Diagnosis &gt; Auto scan &gt; Live data &gt;

### Live data

NO.	Name	Value	MIN	MAX	Unit
1	A/C pressure switch	On			
2	A/C(Air conditioning) Request Signal	Off			
3	Accelerator Pedal Position	0	0	100	%
4	Accelerator pedal position sensor 1 (%)	0	0	100	%
5	Accelerator pedal position sensor 1 (V)	1.57	0	5	V
6	Accelerator pedal position sensor 2 (%)	0	0	100	%
7	Accelerator pedal position sensor 2 (V)	1.02	0	5	V
8	Actual Camshaft and Crankshaft Differential Position without Adaptation	7.52	6	8	°
9	Air conditioning compressor cycling switch	Off			
10	Air conditioning switch	Off			
11	Automatic Regeneration Request	Off			
12	Barometric pressure (Kpa)	102	0	120	Kpa
13	Barometric pressure (V)	3.64	0	5	V
14	Boost air temperature sensor (°C)	33	-20	100	°C
15	Boost air temperature sensor (V)	1.79	0	5	V
16	Brake ON/OFF	Off			
17	Clutch Pedal Position Switch.	Off			
18	Cruise control lamp	Off			
19	Cruise(Cruise Control) SET+ Switch	Inactive			
20	Cruise(Cruise Control) SET- Switch	Inactive			
21	Cruise(Cruise Control) Resume Switch	Inactive			
22	DPF Regeneration Failure Condition	N/A			
23	DPF(Diesel Particulate Filter) Indicator Illumination Count	0			

24	DSC(Dynamic Stability Control) Control Enable/Disable	On			
25	Desired Boost Pressure	105	90	275.79	Kpa
26	Desired RPM	775	0	5000	RPM
27	Distance Since Last DPF Regeneration	357.02	200	400	km
28	Distance Since Last Oil Change	21488	10000	30000	km
29	Distance Since Last Oil Change 2 (Correction Value)	21000	10000	30000	km
30	EGR(Exhaust Gas Recirculation) Cooler Bypass Valve	Off			
31	Engine Revolutions Per Minute	773	0	5000	RPM
32	Engine Status	Running			
33	Engine coolant temperature (°C)	77	-20	120	°C
34	Engine coolant temperature (V)	0.94	0	5	V
35	Engine load	9.41	0	100	%
36	Engine oil dilution amount	6	5	7	g
37	Equivalence Ratio (Lambda) (Bank 1, Sensor 1)	1	-1	2	
38	Exhaust Gas Differential Pressure (Kpa)	904	0	850000	Pa
39	Exhaust Gas Differential Pressure (V)	1.04	0	5	V
40	Exhaust Gas Flow Amount (mm3/min)	0.48	0	10	
41	Exhaust Gas Recirculation Valve Learning Value - Closed [mm]	0			
42	Exhaust Gas Recirculation Valve Position (mm)	5.64	-5	20	mm
43	Exhaust Gas Recirculation Valve Position (%)	56.47	0	100	%
44	Exhaust Gas Recirculation Valve Position (V)	2.59	0	5	V
45	Exhaust Gas Temperature Sensor (Lower) (°C)	118	0	600	°C
46	Exhaust Gas Temperature Sensor (Lower) (V)	4.78	0	5	V
47	Exhaust Gas Temperature Sensor (Middle) (°C)	105	0	600	°C
48	Exhaust Gas Temperature Sensor (Middle) (V)	4.81	0	5	V
49	Exhaust Gas Temperature Sensor (Upper) (°C)	92	0	600	°C
50	Exhaust Gas Temperature Sensor (Upper) (V)	4.84	0	5	V
51	FIP(Fuel Injection Pump) Flow Control	1.73	0	3	A
52	FIP(Fuel Injection Pump) Flow Desired [mm3/stroke]	23	-200	430	
53	FIP(Fuel Injection Pump) Learning Amount (A)	0	0	0.2	A
54	FIP(Fuel Injection Pump) Learning Amount (NOT_LRN/TMP_LRN/CMP_LRN)	CMP_LR N			
55	FIP(Fuel Injection Pump) Suction Control Valve	1.96	0	2	A
56	Forced Regeneration Request	Off			
57	Fuel Injection Amount Desired (mm3/stroke)	8	0	100	
58	Fuel Injection Learning Value (Injector 1 at 100 MPa) [US]	12			
59	Fuel Injection Learning Value (Injector 1 at 140 MPa) [US]	-12			
60	Fuel Injection Learning Value (Injector 1 at 35 MPa) [US]	60			
61	Fuel Injection Learning Value (Injector 1 at 65 MPa) [US]	16			
62	Fuel Injection Learning Value (Injector 2 at 100 MPa) [US]	-8			
63	Fuel Injection Learning Value (Injector 2 at 140 MPa) [US]	-16			
64	Fuel Injection Learning Value (Injector 2 at 35 MPa) [US]	40			

65	Fuel Injection Learning Value (Injector 2 at 65 MPa) [US]	-8			
66	Fuel Injection Learning Value (Injector 3 at 100 MPa) [US]	-4			
67	Fuel Injection Learning Value (Injector 3 at 140 MPa) [US]	-28			
68	Fuel Injection Learning Value (Injector 3 at 35 MPa) [US]	40			
69	Fuel Injection Learning Value (Injector 3 at 65 MPa) [US]	-4			
70	Fuel Injection Learning Value (Injector 4 at 100 MPa) [US]	-8			
71	Fuel Injection Learning Value (Injector 4 at 140 MPa) [US]	-40			
72	Fuel Injection Learning Value (Injector 4 at 35 MPa) [US]	44			
73	Fuel Injection Learning Value (Injector 4 at 65 MPa) [US]	-16			
74	Fuel Rail Pressure (Kpa)	41.13	0	200	Mpa
75	Fuel Rail Pressure (V)	1.42	0	5	V
76	Fuel Rail Pressure Desired	40.09	0	200	Mpa
77	Fuel pump	42.88	0	100	%
78	Generator Voltage Desired	13.65	11	16	V
79	Generator Warning Light	Off			
80	Generator field current control duty signal	53.08	0	100	%
81	Glow plug control	Off			
82	Glow plug lamp	Off			
83	Heated Exhaust Gas Oxygen Sensor (bank 1, sensor 1) (mA)	8	-2000	2000	uA
84	Heated Exhaust Gas Oxygen Sensor (bank 1, sensor 1) (V)	2.2	0	5	V
85	Heated Exhaust Gas Oxygen Sensor Heater (bank 1, sensor 1)	15.29	0	200	%
86	Idle Validation Switch	Idle			
87	Injector 1 Correction Value [mm3/stroke]	-0.53	-10	10	
88	Injector 2 Correction Value [mm3/stroke]	0.29	-10	10	
89	Injector 3 Correction Value [mm3/stroke]	0.42	-10	10	
90	Injector 4 Correction Value [mm3/stroke]	-0.26	-10	10	
91	Injector Learning Mode Failure Code 1	0			
92	Injector Learning Mode Failure Code 2	0			
93	Intake Air Temperature (°C)	39	-30	120	°C
94	Intake Air Temperature (V)	1.52	0	5	V
95	Intake Shatter Valve Control Actual	80.41	0	100	°
96	Intake Shatter Valve Control Desired (°)	80.5	0	100	°
97	Intake Shatter Valve Control Desired (%)	80.39	0	100	%
98	Intake Shatter Valve Learning Value - Closed	-0.35	-10	50	°
99	Intake Shatter Valve Position (%)	80	0	100	%
100	Intake Shatter Valve Position (V)	3.8	0	5	V
101	Malfunction Indicator Lamp	Off			
102	Manifold absolute pressure sensor (Kpa)	102	0	234.42	Kpa
103	Manifold absolute pressure sensor (V)	1.09	0	5	V
104	Mass Air Flow (g/s)	8.52	0	200	g/s
105	Mass Air Flow (V)	1.69	0	5	V
106	Mass Air Flow Desired	6.96	0	200	g/s

107	Module supply voltage	13.43	9	16	V
108	Number of DPF(Diesel Particulate Filter) Regeneration	304			
109	Number of Engine Oil Deteriorated Events	0			
110	Oxygen Concentration in Exhaust Gas	0.1	0	50	%
111	Oxygen Sensor (Bank 1, Sensor 1) Calibration Value	1.03	0	10	
112	Oxygen Sensor Activation Status (Bank 1, Sensor 1)	0			
113	PM(Particulate Matter) Accumulation Amount (g/l)	3.31	0	26	
114	PM(Particulate Matter) Accumulation Amount Desired (g/l)	1.52	0	26	
115	PM(Particulate Matter) Generation Amount (g/l)	3.74	0	26	
116	Refrigerant Pressure Switch (Middle Pressure)	Off			
117	Sedimentor Switch	Off			
118	Speed Control Actuator Switch Off	Inactive			
119	Speed Control Actuator Switch On	Inactive			
120	Speed Control Cancel Switch	Inactive			
121	Speed Control Command Switch	4.47	0	10	V
122	The distance travelled since the MIL(Malfunction Indicator Lamp) was activated.	0	0	0	km
123	Torque correction for idle speed control	20.6	-10	10	Nm
124	Variable Boost Control Position Sensor (mm)	1.17	0	50	mm
125	Variable Boost Control Position Sensor (V)	3.99	0	5	V
126	Variable Fan Duty Cycle	0	0	200	%
127	Vehicle Speed	0	0	128.75	km/h
128	fuel temperature	58	0	120	°C
129	generator output voltage	10.12	0	16	V
130	in gear	Off			
131	variable boost control solenoid	47.36	0	100	%