

ELECTRICAL DIAGRAM

دیاگرام الکتریکی

FUSE BOX

جعبه فیوز ۱ و ۲

FUSE BOX 1 LABEL

USE SPECIFIED FUSES ONLY.

20A	10A	15A	15A	15A	10A	10A	15A	15A	15A
EDC ENGINE DIESEL CONTROL	ENGINE CONTROL METER BACK UP LAMP	RADIO HEATER	WIPER CIG LIGHTER	A/C	FLASHER ROOM LAMP	TAIL LAMP	HORN STOP LAMP	HEAD LAMP	HEAD LAMP
IGN		ACC		BATTERY					

FUSE BOX 1

FUSE		
F1	20A	EDC
F2	10A	REVERSE LAMP SW., CLUSTER, CLUSTER MODULE
F3	15A	RADIO / CD, BLOWER SWITCH, CLOCK
F4	15A	WIPER MOTOR, WIPER PUMP, CIGARET LIGHTER
F5	10A	A/C
F6	10A	FLASHER RELAY, CLUSTER, TACHOGRAPH, RADIO / CD
F7	10A	TAIL LAMP
F8	15A	BRAKE, HORN
F9	15A	LIGHTS
F10	20A	LIGHTS

FUSE BOX 2 LABEL

DIESEL FUSES AND RELAYS

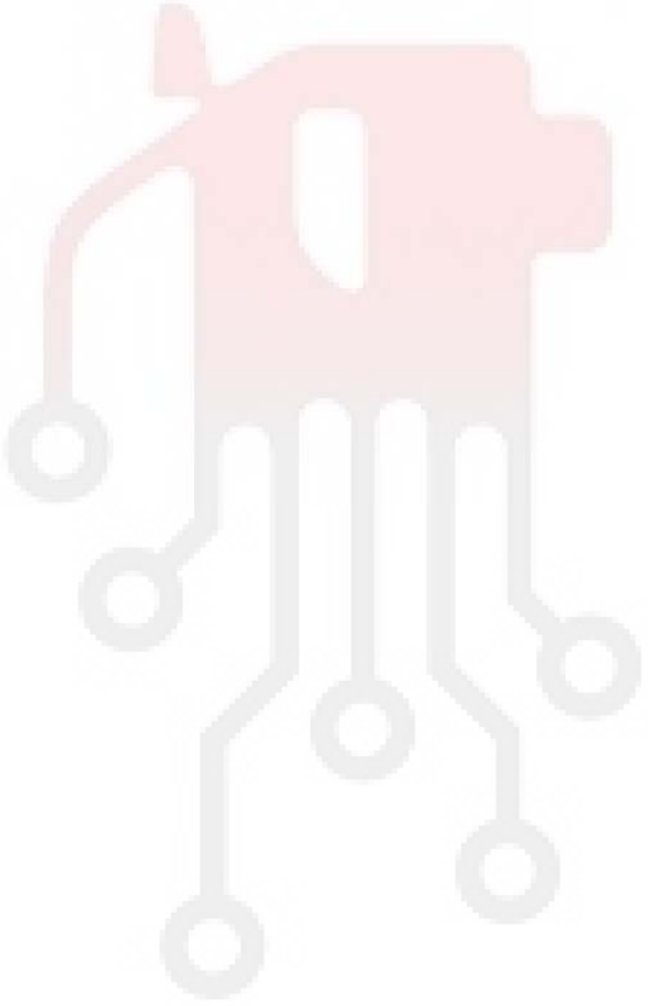
10A	15A	15A	25A	20A	20A	5A	10A	5A	
ENGINE DIESEL CONTROL	ENGINE DIESEL CONTROL	ENGINE DIESEL CONTROL	PRE HEATING	ABS	ABS	ABS	TACHO- GRAPH	FOG LAMP	
EDC MAIN RELAY			BATTERY			IG			

FUSE BOX 2

FUSE		
F11	10A	EDC
F12	15A	EDC
F13	15A	EDC
F14	25A	PRE FUEL HEATING
F15	20A	ABS
F16	20A	ABS
F17	5A	ABS
F18	10A	TACHOGRAPH
F19	5A	FOG LAMP
F20	---	---

	P-Code	Fault Path Type Description	نوع خطا	Possible Cause	Check Items	Possible Symptom
1	P0100	Battery voltage error of HFM sensor	خطای ولتاژ باتری / تغذیه سنسور دبی هوای ورودی	The power supply of the air flowmeter is abnormal	Test the supply voltage of HFM (test the voltage to the bundle point 1)	HFM failure, EGR system closed loop Control shutdown, engine torque limit, intake by substitution value
2	P0101	SCB of hardware signal of HFM sensor (Air flow meter)	خطای سخت افزاری در سنسور دبی هوای ورودی	Air flowmeter flow signal line open, with high level, power, low level, ground short circuit, etc	Detect the HFM circuit, such as whether the air flow signal line is open, with low, power short circuit	
3	P010D	SRC(signal range check) high error for raw value in HFM sensor	بالا بودن رنج سیگنال سنسور دبی	The flow signal of the air flowmeter is not normal, such as the high frequency signal out of the permitted range, by interference, etc	Detect the HFM circuit and check whether there is interference source around the sensor	
4	P010C	SRC low error for raw value in HFM sensor (Air flow meter)	پایین بودن رنج سیگنال سنسور دبی هوای ورودی	The flow signal of the air flowmeter is abnormal, such as low The frequency signal exceeds the allowable range, is disturbed, etc	Detect the HFM circuit and whether there is a thousand sources of disturbance around the air flow signal	
5	P0402	Air demand and actual fresh air intake The difference exceeds the upper limit (the positive deviation is too large)	مقدار بالاتر از حد مجاز - EGR	The air intake system is blocked, resulting in less air intake, air leakage in the air intake system, EGR stuck in a larger position (more carbon, etc.), air filtration blocked, air leakage in the EGR pipeline, abnormal TVA (if any), etc	Check EGR valve, air tightness of intake system, air tightness of EGR pipeline, TVA (if any)	EGR out of the closed-loop control, driving performance may feel restricted, black smoke, severe conditions may shake, even stop the machine and so on
6	P0401	Air demand and actual fresh air intake The difference exceeds the lower limit (the negative deviation is too large)	مقدار کمتر از حد مجاز - EGR	EGR valve stuck in a small position (more carbon, etc.), EGR valve open, EGR valve pipe blocked, etc	Check EGR valve, air tightness of intake system, air tightness of EGR pipeline, TVA (if any)	With the EGR out of the closed-loop control, the driver may feel better power
7	P0563	SRC(signal range check) high for battery voltage sensor	خطای ولتاژ باتری - زیاد	High battery voltage	Check the power supply of the vehicle or replace the battery	Fuse or ECU power supply Circuit to burn out
8	P0562	SRC low for battery voltage sensor	خطای ولتاژ باتری کم	Battery voltage depression	Charge or replace batteries	Vehicle unable to start or The ECU cannot communicate
9	P0504	Plausibility check for Brake	خطای فشنگی ترمز	Brake signal circuit open, short circuit, main brake auxiliary Brake signal out of sync, etc	Check the brake main and auxiliary switch wiring harness for short circuit or open circuit with power supply and two switch letters Is the number in sync, if the fault still exists	Unable to enter cruise, The brake and accelerator pedals are reliable
10	P0119	Water temperature sensor absolute value reasonableness report wrong	خطای سنسور دمای آب	Temperature sensor aging, not working properly, hair Failure of motor cooling system (e.g. thermostat normally on)	Check for temperature sensor characteristics, drift, etc	Engine torque limit, water temperature Walk instead of value
11	P0116	Water temperature sensor absolute value reasonableness report wrong	خطای سنسور دمای آب	Failure of motor, cooling system, abnormal operation, failure of engine cooling system		
12	P0118	water temperature sensor voltage is higher than the upper limit	خطای سنسور دمای آب - مقدار زیاد	Water temperature sensor circuit to high voltage short circuit, open circuit, etc	Check whether the signal line 33 of the water temperature sensor is open and short with the power supply and high level	

13	P0117	water temperature sensor voltage is below the lower limit	خطای سنسور دمای آب - مقدار کم	Water temperature sensor circuit to the ground, low - level short circuit	Check whether the signal line 33 of the water temperature sensor is short-circuited to the ground and low level	
14	P1700	Unreliable clutch signal or open signal cable	خطای فشنگی کلاچ	The clutch signal circuit is open, short, etc	Check the clutch switch and its wiring harness, if the fault still exists Change the clutch switch and try again	Unable to enter cruise
15	P1245	Limited engine torque	محدود شدن گشتاور	Engine performance is limited	Resolve failures that cause performance constraints	The performance of the engine is limited
16	P110A	performance limiter for level 0.	محدود شدن عملکرد خودور		Can be restricted can be released	
17	P110B	performance limiter for level 1.	محدود شدن عملکرد خودور			
18	P110C	performance limiter for level 2.	محدود شدن عملکرد خودور			
19	P110D	performance limiter for level 3.	محدود شدن عملکرد خودور			
20	P110E	performance limiter is active.	محدود شدن عملکرد خودور			
21	P150A	Powerstage diagnosis could be disabled due to high Battery voltage	خطای ولتاژ باتری - زیاد	Excessive battery voltage	Test battery voltage and circuit	downtime
22	P150B	Powerstage diagnosis could be disabled due to low Battery voltage	خطای ولتاژ باتری - کم	The battery voltage is too low		The system showed no obvious reaction
23	P1650	EEPROM area erase failure, cannot be performed Erase	خطای حافظه ECU	ECU erase failure	ECU rewrites	The system showed no obvious reaction
24	P1651	EEPROM area erase failure, cannot be performed Erase	خطای حافظه ECU	ECU read failure		The system showed no obvious reaction
25	P1652	EEPROM area erase failure, cannot be performed Erase	خطای حافظه ECU	ECU write failure		The system showed no obvious reaction
26	P0409	EGR valve driver is open	بدون بار EGR	Drive the vacuum EGR valve EPW or self drive The electron EGR is open	Check the EGR valve circuit	Exhaust recirculation system exits and closes Loop control
27	P0403	EGR valve controller chip temperature is too high	خطای مدار EGR	EGR drive circuit temperature is too high or components are burnt	EGR drive circuit temperature is too high or components are burnt	Exhaust recirculation system exits and closes Loop control
28	P0490	Short circuit to battery - EGR	خطای اتصال به باتری- EGR	Drive the vacuum EGR valve EPW or self drive Electronic EGR on power supply, high level short circuit	Check whether the ECU control is short-circuiting to the high level of the power supply	Exhaust recirculation system exits and closes Loop control
29	P0489	Short circuit to ground - EGR	خطای اتصال به زمین- EGR	The EPW or self - propelled electronic EGR that drives the vacuum EGR valve is ground - to - ground, low - level short circui	Check whether the EGR control is short-circuited to ground or low level	Exhaust recirculation system exits and closes Loop control
30	P1610	Injection cut off demand (ICO) for shut off coordinator	خطای درخواست CUT OFF	A jet cut-off request occurred due to a fault in the ECU monitoring layer	Repair the ECU or replace the ECU	Speed limited
31	P0219	Overspeed detection in component engine protection	خطای محافظت از قطعات از افزایش دور	The engine injector keeps pumping, and the vehicle goes down a steep slope in low gear	Verify vehicle conditions and check fuel injector for oil leakage	Engine shutdown (in case of overspeed, the engine's corresponding protection f.unction, e.g.turn off fuel injection timing, turn off fuel injection volume or set rail pressure to zero, etc. Is activated)
32	P2229	Atmospheric pressure sensor- HIGH (Integration within the ECU)	خطای فشار هوا	The atmospheric pressure sensor is malfunctioning	Check or replace the ECU	Engine torque is limited, Force walk



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