

Madison 300

OBD Fault-code overview list

Component	Fault Code	Fault Status Code	Monitoring strategy	Fault detection criteria	MI action criteria	Secondary parameters	Preconditioning	Demonstration Test
Intake air temperature sensor	P0110	xxxx.0001 SCVbat or OC	Intake temperature sensor voltage signal	Check the sensor voltage; If it is bigger then maximum setting voltage, that means it is SC or OC	1 cycle	None	None	key on
	P0110	xxxx.0010 SCGnd	Intake temperature sensor voltage signal	If it is less then minimum setting voltage, that means it is SC	1 cycle	None	None	key on
Oxygen LAMBDA sensor	P0130	xxxx.0001 SCVbat	check oxygen feedback signal voltage	Error detected when voltage VLAMA1 > SLAMCC mV	3 cycles	None	None	IDLE
	P0130	xxxx.0010 OC, SCGnd	check oxygen feedback correction	Error detected when (KO2B1=>KO2MAXI) AND (C.SUPKO2 >N.SUPKO2)	3 cycle	None	None	IDLE
	P0130	xxxx.1000 Plausibility	check oxygen feedback correction	Signal not Plausibility	3 cycle	None	None	IDLE
Throttle position sensor	P0120	xxxx.0001 SCVbat OC	Check TPS ANGfART voltage	Error detected when ANGfART < MINPAP mV.	1 cycle	None	None	key on
		xxxx.0010 SCGnd	Check TPS ANGfART voltage	Error detected when ANGfART > ANGMXDGN mV,	1 cycle	None	None	key on
Fuel injectioor	P0201	xxxx.0001 SCVbat	check circuit voltage	circuit high	1 cycle	None	None	key on and push start-switch
		xxxx.0010 SCGnd	check circuit voltage	circuit low	1 cycle	None	None	key on and push start-switch
		xxxx.0100 OC	check circuit voltage	circuit low or open	1 cyde	None	None	key on and pus start-switch
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FC1		0		0	FC1-54-01			

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Ignition coil	P0351	xxxx.0001 SCVbat	check circuit voltage	Error detected if, upon the ON command, the logic level of the internal voltage feedback to the ECU is High	1 cycle	None	None	key on
		xxxx.0010 SCGnd,OC	check circuit voltage	Error detected if, upon the OFF command, the logic level of the internal voltage feedback to the ECU is Low	1 cycle	None	None	key on and push start-switch
Oxygen sensor Heather	P0135	xxxx.0001 SCVbat	check circuit voltage	circuit high	1 cycle	None	None	IDLE
		xxxx.0010 SCGnd	check circuit voltage	circuit low	1 cycle	None	None	IDLE
		xxxx.0100 OC	check circuit voltage	circuit open	1 cycle	None	None	IDLE
Fuel pump relay	P0230	xxxx.0001 SCVbat	check circuit voltage	circuit high	1 cycle	None	None	key on
		xxxx.0010 SCGnd,OC	check circuit voltage	circuit open	1 cycle	None	None	key on
Light out diagnosis	P1300	xxxx.0001 SCVbat	check circuit voltage	circuit high	0 cycle	None	None	key on
		xxxx.0010 SCGnd	check circuit voltage	circuit low	0 cycle	None	None	key on
		xxxx.0100 OC	check circuit voltage	circuit open	0 cycle	None	None	key on
Cooling Fan diagnosis	P0480	xxxx.0001 SCVbat	check circuit voltage	circuit high	1cycle	None	None	key on
		xxxx.0010 SCGnd	check circuit voltage	circuit low	1cycle	None	None	key on
		xxxx.0100 OC	check circuit voltage	circuit open	1 cycle	None	None	key on
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FC1		0		0		FC1-54-02		
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Stepper motor diagnosis	P0505	xxxx.0010 SCGnd	check circuit voltage	feedback voltage by hardware	1 cycle	None	None	IDLE
		xxxx.1000 signal not valid	check circuit voltage	feedback voltage by hardware	1 cycle	None	None	IDLE
Starter switch diagnosis	P0512	xxxx.1000 SCVbat	check circuit voltage	Error detected when IN_CSTARTRQ=1 for at least CSTARTERTIME calibration time msec	0 cycle	None	None	At engine start
EEPROM Error diagnosis	P0601	xxxx.1000	Check signal of EEPROM cell	Check by hardware	1 cycle	None	None	Key on
Battery Voltage diagnosis	P0560	xxxx.0001	check battery voltage	Over maximum limit	1 cycle	None	None	IDLE
		xxxx.0010	check battery voltage	Below minimum limit	1 cycle	None	None	IDLE
Atmospheric Pressure diagnosis	P0105	xxxx.0001	check circuit voltage	The error is detected if PREA > PRESDIAGTHMAX or alternative definition PREAD > PRESDIAGMAXTHMV	3 cycle	None	None	Key on
		xxxx.0010	check circuit voltage	The error is detected if PREA > PRESDIAGTHMIN or alternative definition PREAD < PRESDIAGMINTHMV	3 cycle	None	None	Key on
		xxxx.1000	check circuit voltage	The error is detected if PREA - PREAREC > PREATHR, or alternative definition PREAREC-PREAD > PREADTHRMV , where PREAREC is obtained from the table TBPAREC f(RPM,ANGFARC)	3 cycle	None	None	Key on
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SMOT(ENGINE SPEED SENSOR) Functional diagnosis	P0336	xxxx.1000	Check flywheel signal	Error detected when SISTFAS <> FLYWHEEL_SYNCHRO and WAITTRANSCNT == VRS_NDENTE for a CAMEDGEFAULTH number of events (applicable).	1 cycle	None	None	At engine star
Water Temperature diagnosis	P0115	xxxx.0001 SCVbat or OC	check circuit voltage	Error detected when TH2OI >MAXEAU Mv	1 cycle	None	None	IDLE
		xxxx.0010 SCGnd	check circuit voltage	Error detected when TH2OI < MINEAU mV	1 cycle	None	None	IDLE

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FC1	0	0	FC1-54-04	OBd Fault-code overview lis