MALFUNCTION(BANK2[SENSOR1)

DTC	P1133/21 A/F SENSOR CIRCUIT RESPONSE MALFUNCTION (BANK1 SENSOR1)
DTC	P1153/28 A/FISENSORICIBCUITIBESPONSE

CIRCUIT DESCRIPTION

Refer To DTC P0125 on page 05-333.

DTC[No.	DTC[Detecting[Condition	Trouble[A rea
P11 <u>3</u> 3/21 P11 <u>5</u> 3/28	After@ngine[]s@varmed@p,@and@uring@ehicle@riving@at@ngine	Open@r[short]n[A/F[sensor@ircuit A/F[sensor Air[nduction[system Fuel@ressure Injector
	deteriorated[[2][inp[]]retection[[iogic]	•ECM

WIRING DIAGRAM

Refer[]o[]DTC[]P0125[]on[]page[]05-333.

INSPECTION PROCEDURE

HINT:

Read freeze frame [data] using [hand-held [tester.] Because freeze frame freezed the [help ngine conditions] when the [halfunction] betweeted. When the final function is detected. When the fire useful for determining whether the function is detected. When the fire useful for determining whether the fire function is detected. When the fire useful for determining whether the fire function is detected. When the fire useful for determining whether the fire function is detected. When the fire useful for determining the fire function is detected. When the fire function is detected. When the fire function is detected in the fire function is detected. The fire function is detected in the fire function in the fire function is detected. The fire function is detected in the fire function in the fire function is detected. The fire function is detected in the fire function in the fire function is detected. The fire function is detected in the fire function in the fire function in the fire function is detected in the f

1 CHECK[OTHER[DTC[OUTPUT(BESIDES[DTC[P11g3,P11g3)

(a) Read the DTC using the hand-held tester.

YES GO TO RELEVANT DTC CHART

NO

2 | READ[VALUE[OF[HAND-HELD[TESTER(AIR[FUEL[RATIO[\$ENSOR)

- (a) Warm up the A/F sensor with the engine speed at 2,500 pm for approx. 90 sec.
- (b) Read[he]voltage[of[he]A/F[sensor[on]he[screen[of[]he]hand-held[]ester[when]you[perform[all]]he following[conditions.

HINT:

The $\$ of the $\$ FR+ $\$ range of the $\$ FR+ $\$ range of the $\$ rang

Result:

Condition	A/F[\$ensor[Voltage[Value
Engine[]dling	the IDentification of the College (OFROOTS W)
Engine []acing	Not imains at 3.8 V (0.7660 V*) Not remains at 3.8 V (0.76 V*) or more Not remains at 2.8 V (0.56 V*) or less When you use the hand-held tester
Driving at engine speed 1,500 rpm or more and vehicle speed 40 km/h (25 mph) or more, and operate throttle valve open and close	

HINT:

- •□ During[]uel[enrichment,[]here[]s[a[case[]hat[]he[output[]yoltage[of[]he[]A/F[sensor[]s[]below[]2.8[]y[]0.56 V*),[]t[]s[]hormal.
- During [fuel cut, [there] sacase [that [the output voltage of [the A/F] sensor [sabove] 3.8 V (0.76 V*), it is normal.
- If the output voltage of the A/F sensor remains at 3.30 v 0.660 v*) even after or ming all the above conditions, the A/F sensor circuit may be open.
- Ifftheoutput voltage of the A/F sensor means at 3.8 v (0.76 v*) or more, or 2.8 v (0.56 v*) or messeven after performing all the above conditions, the A/F sensor circuit may be short.

after[performing[all[]he[above[conditions,]]he[A/F[sensor[circuit[]may]]be[short.				
*:[y vhen	[you[]use[]the[]hand-held[]ester.			
	ОК	Go[to[step[9		
NG				
0		/FOM TA/FIRENCOD)		
3	CHECK[HARNESS[AND[CONNECTOR	(ECINI -[A/F[BENSOR)		
	NG	REPAIR OR REPLACE HARNESS AND CONNECTOR		
ОК				
4□	CHECK[AIR[FUEL[RATIO[SENSOR(RE	SISTANCE)[(See[page 12–13)		
	NG	REPLACE[AIR[FUEL[RATIO[SENSOR		
ОК				
5□	CHECK_AIR_INDUCTION_SYSTEM_(Sec	page 11–49)		
	NG	REPAIR OR REPLACE AIR INDUCTION SYSTEM		
ОК	\neg			
<u> </u>				
6□	CHECK[EGR[\$YSTEM[(See[page 12-1	5)		
	NG >	REPLACE EGR SYSTEM		
ОК				
7	CHECK[FUEL[PRESSURE[(See[page 1	11– <u>5</u> 2)		

NG

REPAIR OR REPLACE FUEL SYSTEM

OK

DIAGNOSTICS[] - EFI[\$YSTEM[[1MZ-FE] 8∏ INSPECT[FUEL[INJECTOR[ASSY[See]page 11-52) NG **REPLACE FUEL INJECTOR ASSY** OK **REPLACE AIR FUEL RATIO SENSOR** PERFORM CONFIRMATION DRIVING PATTERN 9 GO 10 CHECK READ OUTPUT DTC(BESIDES DTC P1133,P1153) YES **CHECK AND REPLACE ECM** NO CONFIRM VEHICLE RUNS OUT OF FUEL IN THE PAST 11 **CHECK FOR INTERMITTENT PROBLEMS** NO

YES

DTC P1133 OR P1153 IS CAUSED BY RUNNING OUT OF FUEL