DTC25Air–Fuel Ratio Lean Malfunction26Air–Fuel Ratio Rich Malfunction

- CIRCUIT DESCRIPTION ----

Refer to page EG–556 for the circuit description.

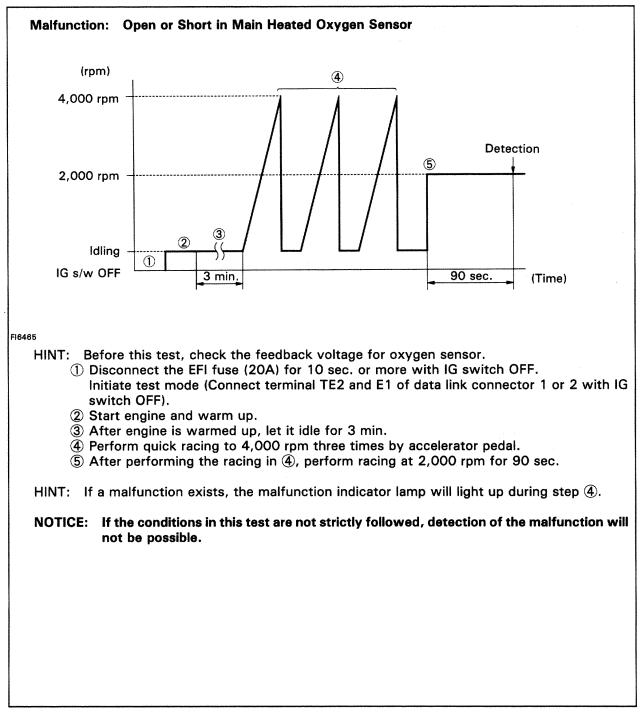
DTC No.	DTC Detecting Condition	Trouble Area
	 (1) Main heated oxygen sensor voltage is 0.45 V or less (lean) for 90 sec under conditions (a) and (b). (2 trip detection logic) *¹ (a) Engine coolant temp: 70°C (158 °F) or more. (b) Engine speed: 1,500 rpm or more. 	 Open or short in main heated oxygen sensor circuit. Main heated oxygen sensorlgnition system Engine coolant temp. sensor
25 26	 (2) Main heated oxygen sensor voltage is alternating above and below 0.45 V at 5 times par second or more under conditions (a) and (b). (2 trip detection logic) *1 (a) Engine speed: Idling (b) Engine coolant temp.: Between 60°C (140°F) and 95°C (203°F) 	 Open or short in injector circuit. Fuel line pressure (injector blockage) Volume air flow meter (air intake) Engine ground bolt loose Foreign object caught in valve
	 (3) Difference of air-fuel ratio feedback compensation value between right and left banks in more than 10 percentage for 30 sec. or more under conditions (a) and (b). (2 trip detection logic) *1 (a) Engine speed: 2,000 rpm or more. (b) Engine coolant temp.: Between 60°C (140°F) and 95°C (203°F) 	 Fuel line pressure (injector leak, blockage) Mechanical system malfunction (skipping teeth of timing belt) Ignition system

*1: See page EG-515.

DIAGNOSTIC TROUBLE CODE DETECTION DRIVING PATTERN

Purpose of the driving patterm.

- (a) To simulate diagnostic trouble code detecting condition after diagnostic trouble code is recorded.
- (b) To check that the malfunction is corrected when the repair is completed confirming that diagnostic trouble code is no longer detected.

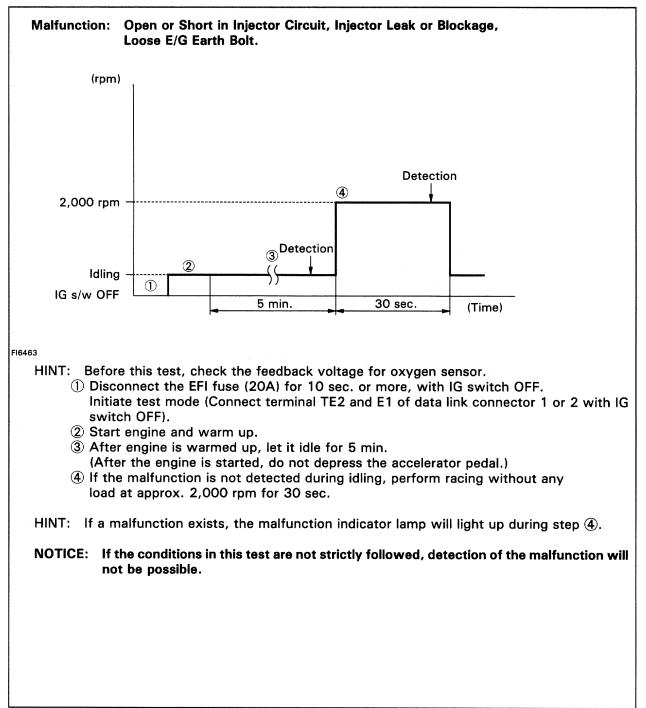


- CIRCUIT DESCRIPTION (Cont'd) -

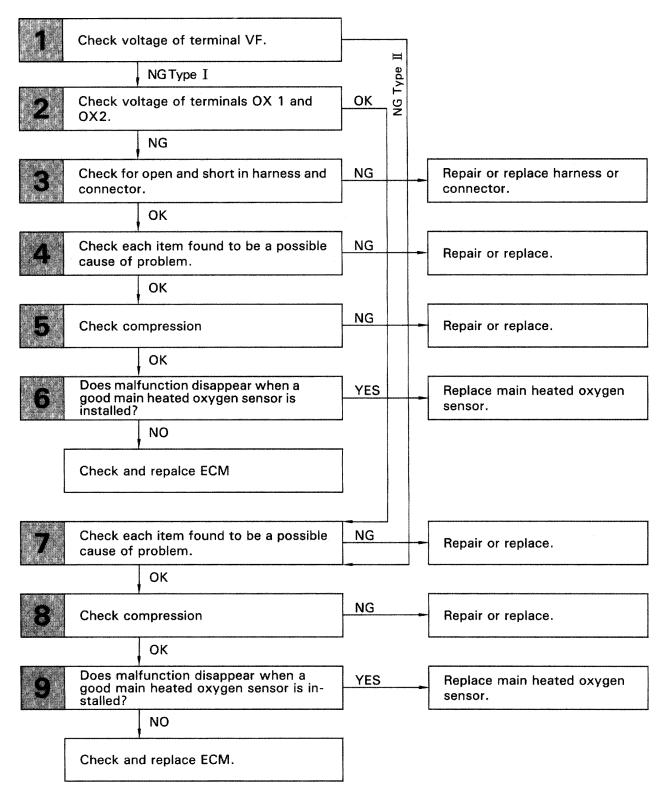
DIAGNOSTIC TROUBLE CODE DETECTION DRIVING PATTERN

Purpose of the driving pattern.

- (a) To simulate diagnostic trouble code detecting condition after diagnostic trouble code is recorded.
- (b) To check that the malfunction is corrected when the repair is completed confirming that diagnostic trouble code is no longer detected.

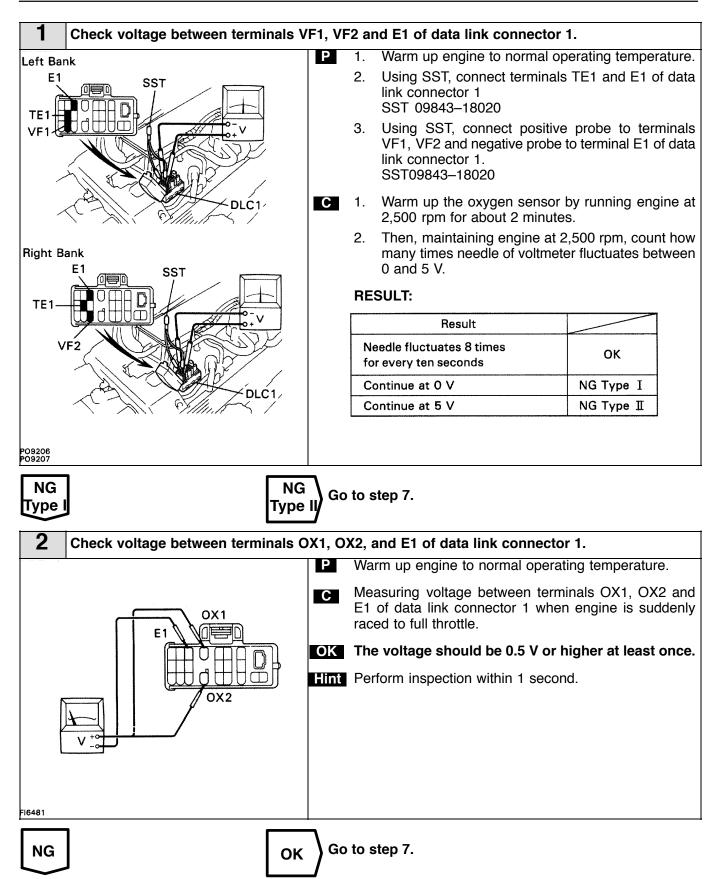


- DIAGNOSTIC CHART



WIRING DIAGRAM

Refer to page EG-556 for the WIRING DIAGRAM.



	; engine control module an	tor between engine control i d data link connector 1 (Se replace harness or connector	e page <mark>IN–34)</mark> .
4 Check each item found	d to be a possible cause of	problem.	
ed.	n the table below show the or	le according to the results of der in which the checks shoul	
Main heated oxygen sensor signal from either side continues at 0 V.	Main heated oxygen sensor signals from both sides continue at 0 V.	Possible Cause	See page
1		Faulty sensor installation.	
3		Injector circuit	EG-628
2	3	Misfire	IG-7
4		Valve timing	EG-69
	1	Air leakage	EG-292
	2	Fuel system	EG-610
	6	Characteristics deviation in volume air flow meter.	EG-578
	4	Characteristics deviation in engine coolant temp. sensor.	EG-560
	5	Characteristics deviation in intake air temp. sensor.	EG-564
ОК	NG Repair or	eplace.	
5 Check compression (S	See page EG-43).		
ОК	NG Repair or I	replace.	
6 Does malfunction disa	ppear when a good main h	neated oxygen sensor is ins	talled?
NO	YES Replace m	ain heated oxygen sensor.	
Check and replace engine co	ntrol module.		

ain heated oxygen ensor signal from ther side continues at 5.0 V	Main heated oxygen sensor signals from both sides continue at 5.0 V	Main heated oxygen sensor signals from both sides are normal.	Possible Cause	See page
1	-	7	Injector circuit	EG-628
		3	Misfire	IG-7
2		4	Valve timing	EG-69
		1	Air leakage	EG-292
	1	2	Fuel system	EG-610
	4	8	Characteristics deviation in volume air flow meter.	EG-578
	2	5	Characteristics deviation in engine coolant temp. sensor.	EG-560
	3	6	Characteristics deviation in intake air temp, sensor.	EG-564
	N		ace.	
	N ession (See page E		ace.	
		G-43).		