

**On-board Diagnostic System — Diagnostic Test
Mode III
Self-diagnostic Results (Cont'd)**

Diagnostic trouble code No.	Detected items	Malfunction is detected when ...	Check item (remedy)
*11	Camshaft position sensor circuit	<ul style="list-style-type: none"> • Either 1° or 120° signal is not entered for the first few seconds during engine cranking. • Either 1° or 120° signal is not input often enough while the engine speed is higher than the specified rpm. 	<ul style="list-style-type: none"> • Harness and connector (If harness and connector are normal, replace camshaft position sensor.)
12	Mass air flow sensor circuit	<ul style="list-style-type: none"> • The mass air flow sensor circuit is open or shorted. (An abnormally high or low voltage is entered.) 	<ul style="list-style-type: none"> • Harness and connector (If harness and connector are normal, replace mass air flow sensor.)
13	Engine coolant temperature sensor circuit	<ul style="list-style-type: none"> • The engine coolant temperature sensor circuit is open or shorted. (An abnormally high or low output voltage is entered.) 	<ul style="list-style-type: none"> • Harness and connector • Engine coolant temperature sensor
14	Vehicle speed sensor circuit	<ul style="list-style-type: none"> • The vehicle speed sensor circuit is open or shorted. 	<ul style="list-style-type: none"> • Harness and connector • Vehicle speed sensor (reed switch)
*21	Ignition signal circuit	<ul style="list-style-type: none"> • The ignition signal in the primary circuit is not entered during engine cranking or running. 	<ul style="list-style-type: none"> • Harness and connector • Power transistor unit
31	ECM	<ul style="list-style-type: none"> • ECM calculation function is malfunctioning. 	[Replace ECM (ECCS control module).]
32	EGR function	<ul style="list-style-type: none"> • EGR valve does not operate. (EGR valve spring does not lift.) 	<ul style="list-style-type: none"> • EGR valve • EGRC-solenoid valve
33	Heated oxygen sensor circuit	<ul style="list-style-type: none"> • The heated oxygen sensor circuit is open or shorted. (An abnormally high or low output voltage is entered.) 	<ul style="list-style-type: none"> • Harness and connector • Heated oxygen sensor • Fuel pressure • Injectors • Intake air leaks
34	Knock sensor circuit	<ul style="list-style-type: none"> • The knock sensor circuit is open or shorted. (An abnormally high or low voltage is entered.) 	<ul style="list-style-type: none"> • Harness and connector • Knock sensor
35	EGR temperature sensor circuit	<ul style="list-style-type: none"> • The EGR temperature sensor circuit is open or shorted. (An abnormally high or low voltage is entered.) 	<ul style="list-style-type: none"> • Harness and connector • EGR temperature sensor
43	Throttle position sensor circuit	<ul style="list-style-type: none"> • The throttle position sensor circuit is open or shorted. (An abnormally high or low voltage is entered.) 	<ul style="list-style-type: none"> • Harness and connector • Throttle position sensor
45	Injector leak	<ul style="list-style-type: none"> • Fuel leaks from injector. 	<ul style="list-style-type: none"> • Injector
51	Injector circuit	<ul style="list-style-type: none"> • The injector circuit is open. 	<ul style="list-style-type: none"> • Harness and connector • Injector

*: Check items causing a malfunction of camshaft position sensor circuit first, if both diagnostic trouble code No. 11 and 21 are displayed at the same time.