

FAIL-SAFE CHART

If any of the following codes is recorded, the ECU enters fail-safe mode.

Code No.	Fail-Safe Operation	Fail-Safe Deactivation Conditions
14	Fuel cut	1 IGF1 detected in consecutive 8 ignitions.
15	Fuel cut	1 IGF2 detected in consecutive 8 ignitions.
16	Torque control prohibited.	Returned to normal condition.
22	THW is fixed at 80°C (176°F).	Returned to normal condition.
24	THA is fixed at 20°C (68°F).	Returned to normal condition.
31	Ignition timing controlled between 10° ~ 30° BTDC, Injection time controlled between 3 msec. ~ 30 msec., in relation to: <ul style="list-style-type: none"> • Engine rpm • Throttle angle • ISC step value 	KS input 15 times/sec. or more.
35	Atmospheric pressure is fixed at 760 mmHg.	Returned to normal condition.
41	VTA1 is fixed at 0°	The following 1 or 2 must be repeated at least 2 times consecutively. 1 When IDL is ON $0.25\text{ V} \leq \text{VTA1} \leq 0.95\text{ V}$ 2 When IDL is OFF $0.25\text{ V} \leq \text{VTA1} \leq 4.9\text{ V}$
47	Value of VTA1 is used.	The following 1 or 2 must be repeated at least 2 times consecutively. 1 When IDL2 is ON $0.25\text{ V} \leq \text{VTA2} \leq 0.95\text{ V}$ 2 When IDL2 is OFF $0.25\text{ V} \leq \text{VTA2} \leq 4.9\text{ V}$
52	Max. timing retardation.	IG switch OFF.
53	Max. timing retardation.	Returned to normal condition.
55	Max. timing retardation.	IG switch OFF.

Back-Up Function

If there is trouble with the program in the ECU and the ignition signals (IGT) are not output, the ECU controls fuel injection and ignition timing at predetermined levels as a back-up function to make it possible to continue to operate the vehicle.

Furthermore, the injection duration is calculated from the starting signal (STA) and the throttle position signal (IDL). Also, the ignition timing is fixed at the initial ignition timing, 5° BTDC, without relation to the engine speed. HINT: If the engine is controlled by the back-up function, the CHECK ENGINE light lights up to warn the driver of the malfunction but the diagnostic code is not output.