

FAIL-SAFE CHART

If any of the following codes are recorded, the ECM enters fail-safe mode.

DTC No.	Fail-Safe Operation	Fail-Safe Deactivation Conditions
P0031 P0032 P0037 P0038	Turn off heater	Ignition switch OFF
P0100 P0102 P0103	Ignition timing is calculated from engine speed and throttle angle	"Pass" condition detected
P0110 P0112 P0113	Intake air temperature is fixed at 20°C (68°F)	"Pass" condition detected
P0115 P0116 P0117 P0118	Engine coolant temperature is fixed at 80°C (176°F)	"Pass" condition detected
P0120 P0121 P0122 P0123 P0220 P0222 P0223 P0604 P0606 P0607 P0657 P2102 P2103 P2111 P2112 P2118 P2119 P2135	If Electronic Throttle Control System (ETCS) has malfunction, ECM cuts off current to throttle control motor. Throttle control valve returns to predetermined opening angle (approximately 16°) by force of return spring. ECM then adjusts engine output by controlling fuel injection (intermittent fuel-cut) and ignition timing in accordance with accelerator pedal opening angle to enable vehicle to continue at minimal speed. If accelerator pedal is depressed firmly and slowly, vehicle can be driven slowly. If accelerator pedal is depressed quickly, vehicle may speed up and slow down erratically.	"Pass" condition is detected and then ignition switch is turned OFF, fail-safe operation will stop and system will return to normal condition
P0325 P0327 P0328	Maximum timing retardation	Ignition switch OFF
P0351 P0352 P0353 P0354	Fuel is cut	"Pass" condition detected
P2120 P2121 P2122 P2123 P2125 P2127 P2128 P2138	Accelerator pedal position sensor has two (main and sub) sensor circuits. If malfunction occurs in either of sensor circuits, ECM detects abnormal signal voltage difference between two sensor circuits and switches to limp mode. In limp mode, remaining circuit is used to calculate accelerator pedal opening to allow vehicle to continue driving. If both circuits malfunction, ECM regards opening angle of accelerator pedal to be fully closed. In this case, throttle valve will remain closed as if engine is idling.	"Pass" condition is detected and then ignition switch is turned OFF, fail-safe operation will stop and system will return to normal condition