FAIL–SAFE CHART

1. FAIL–SAFE CHART

If any of the following DTCs are set, the ECM enters fail–safe mode to allow the vehicle to be driven temporarily.

DTC No.	Detection Item	Fail–safe Operation	Fail–safe Deactivation Conditions
P0045/34 (05–482)	Turbo/Super Charger Boost Control Solenoid Circuit / Open [Turbocharger system malfunction]	Limits engine power	Ignition switch OFF
P0087/49 (05–486)	Fuel Rail/System Pressure – Too Low [Fuel pressure sensor system malfunction]	Limits engine power	Ignition switch OFF
P0088/49 (05–495)	Fuel Rail/System Pressure – Too High [Common rail system malfunction]	Limits engine power	Ignition switch OFF
P0093/78 (05–501)	Fuel System Leak Detected – Large Leak [Fuel leaks in common rail system]	Limit engine power for 1 minute and the stall the engine	Ignition switch OFF
P0095/23 (05–505)	Intake Air Temperature Sensor 2 Circuit [Intake air temperature sensor (intake air connector)]	Intake air (intake manifold) temperature fixed at specified value	Pass condition detected
P0097/23 (05–505)	Intake Air Temperature Sensor 2 Circuit Low [Intake air temperature sensor low input (intake air connector)]	Intake air (intake manifold) temperature fixed at specified value	Pass condition detected
P0098/23 (05–505)	Intake Air Temperature Sensor 2 Circuit High [Intake air temperature sensor high input (intake air connector)]	Intake air (intake manifold) temperature fixed at specified value	Pass condition detected
P0100/31 (05–512)	Mass or Volume Air Flow Circuit [Mass air flow meter]	EGR valve fixed at specified opening angle	Pass condition detected
P0102/31 (05–512)	Mass or Volume Air Flow Meter Circuit Low Input [Mass air flow meter low input]	EGR valve fixed at specified opening angle	Pass condition detected
P0103/31 (05–512)	Mass or Volume Air Flow Meter Circuit High Input [Mass air flow meter high input]	EGR valve fixed at specified opening angle	Pass condition detected
P0105/31 (05–520)	Manifold Absolute Pressure/Barometric Pressure Circuit [Intake air pressure sensor]	Turbo pressure fixed at specified value	Pass condition detected
P0107/31 (05–520)	Manifold Absolute Pressure/Barometric Pressure Circuit Low Input [Intake air pressure sensor low input]	Turbo pressure fixed at specified value	Pass condition detected
P0108/31 (05–520)	Manifold Absolute Pressure/Barometric Pressure Circuit High Input [Intake air pressure sensor high input]	Turbo pressure fixed at specified value	Pass condition detected
P0110/24 (05–526)	Intake Air Temperature Circuit [Intake air temperature sensor]	Intake air temperature fixed at specified value	Pass condition detected
P0112/24 (05–526)	Intake Air Temperature Circuit Low Input [Intake air temperature sensor low input]	Intake air temperature fixed at specified value	Pass condition detected
P0113/24 (05–526)	Intake Air Temperature Circuit High Input [Intake air temperature sensor high input]	Intake air temperature fixed at specified value	Pass condition detected

DTC No.	Detection Item	Fail–safe Operation	Fail–safe Deactivation Conditions
P0115/22 (05–532)	Engine Coolant Temperature Circuit [Engine coolant temperature sensor]	Engine Coolant temperature sensor output fixed at specified value (fixed value varies depending on conditions)	Pass condition detected
P0117/22 (05–532)	Engine Coolant Temperature Circuit Low Input [Engine coolant temperature sensor low input]	Engine Coolant temperature sensor output fixed at specified value (fixed value varies depending on conditions)	Pass condition detected
P0118/22 (05–532)	Engine Coolant Temperature Circuit High Input [Engine coolant temperature sensor high input]	Engine Coolant temperature sensor output fixed at specified value (fixed value varies depending on conditions)	Pass condition detected
P0168/39 (05–538)	Fuel Temperature Too High [Fuel temperature sensor rationality]	Limits engine power	Pass condition detected
P0180/39 (05–539)	Fuel Temperature Sensor "A" Circuit [Fuel temperature sensor]	Fuel temperature fixed at specified value	Pass condition detected
P0182/39 (05–539)	Fuel Temperature Sensor "A" Circuit Low Input [Fuel temperature sensor low input]	Fuel temperature fixed at specified value	Pass condition detected
P0183/39 (05–539)	Fuel Temperature Sensor "A" Circuit High Input [Fuel temperature sensor high input]	Fuel temperature fixed at specified value	Pass condition detected
P0190/49 (05–486)	Fuel Rail Pressure Sensor Circuit [Fuel pressure sensor]	Limits engine power	Ignition switch OFF
P0191 (05–546)	Fuel Rail Pressure Sensor Circuit Range/Performance [Fuel pressure sensor rationality]	Limits engine power	Ignition switch OFF
P0192/49 (05–486)	Fuel Rail Pressure Sensor Circuit Low Input [Fuel pressure sensor low input]	Limits engine power	Ignition switch OFF
P0193/49 (05–486)	Fuel Rail Pressure Sensor Circuit High Input [Fuel pressure sensor high input]	Limits engine power	Ignition switch OFF
P0200/97 (05–547)	Injector Circuit/Open [EDU system for injector malfunction]	When one injector circuit is malfunctioning, engine power is limited; when 2 or more ignition circuits are malfunctioning, engine is stopped.	Ignition switch OFF
P0234/34 (05–555)	Turbo/Super Charger Overboost Condition [Turbocharger system malfunction]	Limits engine power	Ignition switch OFF
P0299/34 (05–555)	Turbo/Super Charger Underboost [Turbocharger system malfunction]	Limits engine power	Ignition switch OFF
P0335/12 (05–560)	Crankshaft Position Sensor "A" Circuit [Crankshaft position sensor]	Engine stopped	Pass condition detected
P0340/12 (05–564)	Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor) [Camshaft position sensor]	Limits engine power	Pass condition detected
P0488/15 (05–576)	Exhaust Gas Recirculation Throttle Position Control Range/Performance [Diesel throttle]	Limits engine power	Ignition switch OFF
P0500/42 (05–582)	Vehicle Speed Sensor "A" [Vehicle speed sensor]	Vehicle speed fixed at 0 km/h (0 mph)	Pass condition detected
P0627/78 (05–593)	Fuel Pump Control Circuit / Open [Common rail system malfunction]	Engine stopped	Pass condition detected
P1229/78 (05–495)	Fuel Pump System [Common rail system malfunction]	Limits engine power	Ignition switch OFF

DTC No.	Detection Item	Fail–safe Operation	Fail–safe Deactivation Conditions
P1251//34 (05–555)	Turbo/Super Charger Overboost Condition (Too High) [Turbocharger system malfunction]	Limits engine power	Ignition switch OFF
P1271 (05–596)	Fuel Regulator Circuit Malfunction (EDU Drive) [EDU system for pressure discharge valve malfunction]	Limits engine power	Ignition switch OFF
P1272 (05–596)	Fuel Pressure Regulator Malfunction [Pressure discharge valve]	Limits engine power	Ignition switch OFF
P1611/17 (05–592)	IC Circuit Malfunction [ECM]	Engine stopped	Ignition switch OFF
P2120/19 (05–617)	Throttle/Pedal Position Sensor/Switch "D" Circuit [Accelerator pedal position sensor (sensor 1)]	Limits engine power	Ignition switch OFF
P2121/19 (05–617)	Throttle/Pedal Position Sensor/Switch "D" Circuit Range/Performance [Accelerator pedal position sensor rationality (sensor 1)]	Limits engine power	Ignition switch OFF
P2122/19 (05–617)	Throttle/Pedal Position Sensor/Switch "D" Circuit Low Input [Accelerator pedal position sensor low input (sensor 1)]	Limits engine power	Ignition switch OFF
P2123/19 (05–617)	Throttle/Pedal Position Sensor/Switch "D" Circuit High Input [Accelerator pedal position sensor high input (sensor 1)]	Limits engine power	Ignition switch OFF
P2125/19 (05–617)	Throttle/Pedal Position Sensor/Switch "E" Circuit [Accelerator pedal position sensor (sensor 2)]	Limits engine power	Ignition switch OFF
P2127/19 (05–617)	Throttle/Pedal Position Sensor/Switch "E" Circuit Low Input [Accelerator pedal position sensor low input (sensor 2)]	Limits engine power	Ignition switch OFF
P2128/19 (05–617)	Throttle/Pedal Position Sensor/Switch "E" Circuit High Input [Accelerator pedal position sensor high input (sensor 2)]	Limits engine power	Ignition switch OFF
P2138/19 (05–617)	Throttle/Pedal Position Sensor/Switch "D"/"E" Voltage Correlation [Accelerator pedal position sensor malfunction]	Limits engine power	Ignition switch OFF
P2226/A5 (05–628)	Barometric Pressure Circuit [ECM]	Atmospheric pressure fixed at specified value	Pass condition detected
P2228/A5 (05–628)	Barometric Pressure Circuit Low Input [ECM]	Atmospheric pressure fixed at specified value	Pass condition detected
P2229/A5 (05–628)	Barometric Pressure Circuit High Input [ECM]	Atmospheric pressure fixed at specified value	Pass condition detected