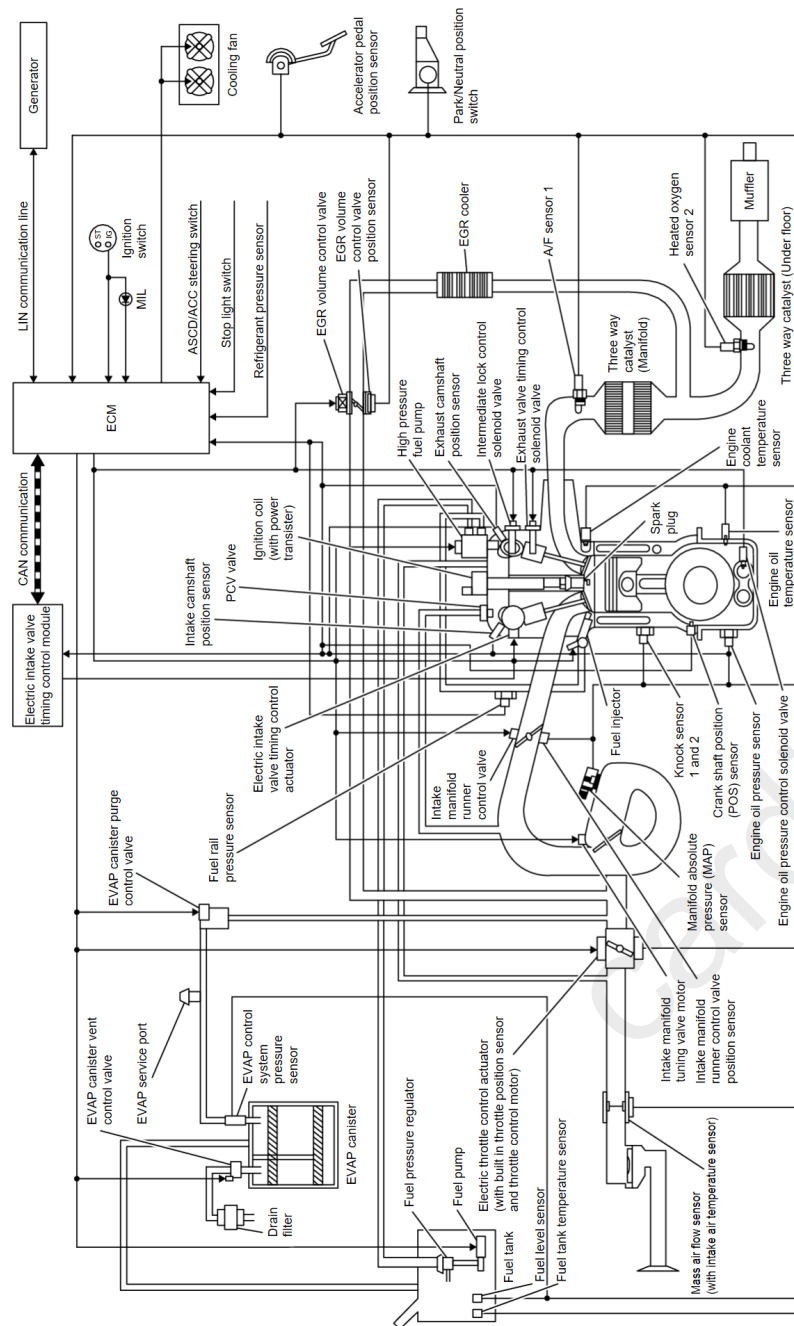




System Description

SYSTEM DIAGRAM

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Component parts	Function
Accelerator pedal position sensor	Accelerator Pedal Position Sensor ➡
Air fuel ratio (A/F) sensor 1	Air Fuel Ratio (A/F) Sensor 1 ➡
ASCD steering switch	Steering Switch ➡
ACC steering switch	
Cooling fan	Cooling Fan ➡
Crankshaft position sensor	Crankshaft Position Sensor ➡
ECM	ECM ➡
EGR system	System Description ➡
EGR volume control valve	EGR Volume Control Valve ➡
Electric intake valve timing control actuator	Electric Intake Valve Timing Control Actuator ➡
Electric intake valve timing control module	Electric Intake Valve Timing Control Module ➡
Electric throttle control actuator	Electric Throttle Control Actuator ➡
Engine coolant temperature sensor	Engine Coolant Temperature Sensor ➡
Engine oil pressure sensor	Engine Oil Pressure Sensor ➡
Engine oil pressure control solenoid valve	Engine Oil Pressure Control Solenoid Valve ➡
Engine oil pressure control system	Warning Light/Indicator Light Warning lamps/Indicator lamps ➡
Engine oil temperature sensor	Engine Oil Temperature Sensor ➡
EVAP canister	EVAP Canister ➡
EVAP canister purge volume control solenoid valve	EVAP Canister Purge Volume Control Solenoid Valve ➡

Component parts	Function
EVAP canister vent control valve	EVAP Canister Vent Control Valve ➡
EVAP control system pressure sensor	EVAP Control System Pressure Sensor ➡
Exhaust camshaft position sensor	Exhaust Camshaft Position Sensor ➡
Exhaust valve timing control solenoid valve	Exhaust Valve Timing Control Solenoid Valve ➡
Exhaust valve timing intermediate lock control solenoid valve	Exhaust Valve Timing Intermediate Lock Control Solenoid Valve ➡
Fuel injector	Fuel Injector ➡
Fuel level sensor unit and fuel pump	Fuel Level Sensor Unit And Fuel Pump Fuel Level Sensor Unit and Fuel Pump ➡
Fuel pressure control	System Description ➡
Fuel rail pressure sensor	Fuel Rail Pressure Sensor ➡
Fuel tank temperature sensor	Fuel Tank Temperature Sensor ➡
Heated oxygen sensor 2	Heated Oxygen Sensor 2 ➡
High pressure fuel pump	High Pressure Fuel Pump ➡
Ignition coil with power transistor	Ignition Coil With Power Transistor ➡
Intake camshaft position sensor	Intake Camshaft Position Sensor ➡
Intake manifold runner control valve	Intake Manifold Runner Control Valve ➡
Intake manifold tuning valve	Intake Manifold Tuning Valve ➡
Knock sensor	Knock Sensor ➡
Malfunction indicator light (MIL)	Malfunction Indicator Light (MIL) Malfunction Indicator Lamp (MIL) ➡ (Full TFT meter)

Component parts	Function
	Malfunction Indicator Light (MIL) Malfunction Indicator Lamp (MIL) (7 inch information display) 
Manifold absolute pressure sensor	Manifold Absolute Pressure Sensor 
Mass air flow sensor (With intake air temperature sensor)	Mass Air Flow Sensor (With Intake Air Temperature Sensor) 
Power generation voltage variable control system	System Description 
Refrigerant pressure sensor	Refrigerant Pressure Sensor 
Stop light switch	Stop Light Switch Stop Lamp Switch 

SYSTEM DESCRIPTION

ECM controls the engine by various functions.

Function	Reference
Dig (direct injection gasoline) system	System Description 
Electric ignition system	System Description 
Intake valve timing control	System Description 
Exhaust valve timing control	System Description 
Intake manifold runner control	System Description 
Intake manifold tuning system	System Description 
Engine protection control	System Description 
Air conditioning cut control	System Description 

Function	Reference
Cooling fan control	System Description 
Evaporative emission system	System Description 
Automatic speed control device (ASCD)	System Description 
CAN communication	System Description 
Active grille shutter system	System Description System Description 