

6. Control System

B: INPUT AND OUTPUT SIGNALS

	Unit	Function
Input signal	Mass air flow sensor	Detects the amount of intake air.
	Throttle position sensor	Detects the throttle position.
	Front and rear oxygen sensors	Detects the density of oxygen in exhaust gases.
	Crankshaft position sensor	Detects crankshaft position.
	Camshaft position sensor	Detects the relative cylinder positions.
	Engine coolant temperature sensor	Detects the engine coolant temperature.
	Knock sensor	Detects engine knocking.
	Vehicle speed sensor 2	Detects vehicle speed.
	Ignition switch	Detects ignition switch operation.
	Starter switch	Detects the condition of engine cranking.
	Park/Neutral position switch (AT)	Detects shift positions.
	Neutral position switch (MT)	Detects gear position being in the neutral.
	Torque control signal (AT)	Controls the engine torque.
	Pressure sensor	Detects atmospheric pressure and intake manifold pressure.
	Heater circuit of front and rear oxygen sensor	Detects the abnormal for heater circuit of front and rear oxygen sensor.
	Diagnostics of AT (AT)	Detects the self-diagnostics of AT.
	A/C switch	Detects the ON-OFF operation of the A/C switch.
	Fuel temperature sensor	Detects the temperature of the fuel in fuel tank.
	Fuel level sensor	Detects the level of the fuel in fuel tank.
	Fuel tank pressure sensor	Detects the evaporation gas pressure in fuel tank.
Output signal	Fuel Injector	Inject fuel.
	Ignition signal	Turns primary ignition current ON or OFF.
	Fuel pump relay	Turns the fuel pump relay ON or OFF.
	A/C control relay	Turns A/C control relay ON or OFF.
	Radiator fan control relay	Turns radiator fan control relay ON or OFF.
	Idle air control solenoid valve	Adjusts the amount of idle air flowing through the throttle valve.
	Malfunction indicator lamp	Indicates trouble.
	Purge control solenoid valve	Controls the purge of evaporative gas absorbed by canister.
	Power supply	Control the ON/OFF switching of main relay.
	EGR solenoid valve	Control the function of EGR system.
	Pressure sources switching solenoid valve	Switch the intake manifold pressure and atmospheric pressure that pressure sensor detects.
	Pressure control solenoid valve	Controls the evaporation gas pressure in fuel tank.
	Drain valve	Closes the evaporation line between the fuel tank and canister to detect the leak of evaporation gases.