Caution

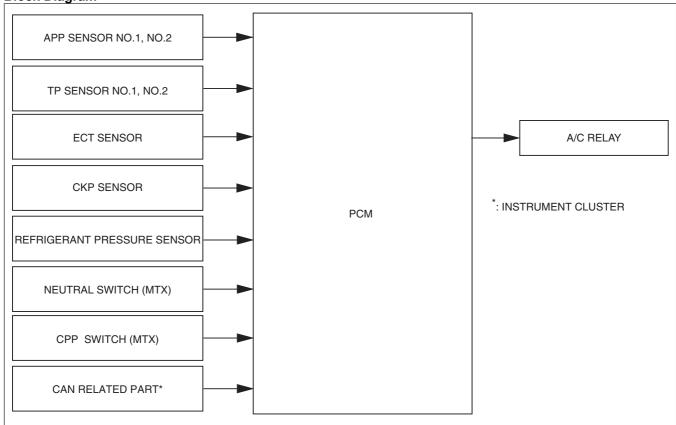
Vehicle specifications differ depending on the vehicle identification number (VIN).

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- Type A VIN:
    JM0 KE****** 100001-
    JM6 KE****** 100001-
    JM7 KE****** 100001-
    JM8 KE****** 100001-
    JMZ KE***** 100001-
    KE10** 100001-
- Type B VIN:
    JM0 KE****** 200001-
    JM6 KE****** 200001-
    JM8 KE****** 200001-
    JMZ KE****** 200001-
    KE10** 200001-
```

Outline

Controls the A/C operation by switching the A/C relay ON/OFF at the optimal timing according to engine operation
conditions. Acceleration performance and A/C compressor reliability have been improved by controlling the A/
C operation.

Block Diagram



ac5wzn00001585

Operation (Type A VIN)

The PCM stops current to the A/C relay when any of the following conditions are met:

A/C cut-off control operation conditions

Ato cut-on control operation conditions			
Operation condition	While A/C relay not energized	Purpose	
At engine start	Approx. 4 s	Improved startability	
When engine is restarted by i-stop control	Approx. 3 s	Improved startability	
When engine speed is 6,700 rpm or more	Approx. 5 s elapsed since engine speed was	A/C compressor reliability	
	6,200 rpm or less	assurance	

Operation condition	While A/C relay not energized	Purpose
Accelerated		Acceleration from standstill/
	3 to 5 s	acceleration performance
		improvement
Time under i-stop control, vehicle speed of	_	i-stop function reliability
1km/h {0.6 mph} or less		improvement
Refrigerant pressure 3.14 MPa {32.0 kgf/	Refrigerant pressure decreases to 2.55 MPa	A/C compressor reliability
cm ² , 455 psi} or more	{26.0 kgf/cm ² , 370 psi} or less	assurance
Refrigerant pressure of 0.196 MPa {2.00 kgf/	Refrigerant pressure of 0.226 MPa {2.30 kgf/	A/C compressor reliability
cm ² , 28.4 psi} or less continues for 5 s or	-	assurance
more	cm ² , 32.8 psi} or more continues to 5 s or more	
Drive-by-wire control malfunction		Reverse driving performance
		assurance
Panic braking determined	_	Load performance assurance
Misfire determination	_	Catalytic converter protection
ECT sensor malfunction	_	Engine protection
Engine coolant temperature 113 °C {235 °F}	Turns on/off repeatedly every 10 s until engine	Engine protection
or more	coolant temperature is less than approx. 107 °C	
	{225 °F}	
Engine coolant temperature 117 °C {243 °F}	Until engine coolant temperature is less than 110	Engine protection
or more	°C {230 °F}	

Operation (Type B VIN)The PCM stops current to the A/C relay when any of the following conditions are met:

A/C cut-off control operation conditions

Operation condition	While A/C relay not energized	Purpose
At engine start	Approx. 4 s	Improved startability
When engine is restarted by i-stop control	Approx. 3 s	Improved startability
When high engine speed (approx. 6,700 rpm	Approx. 5 s elapsed since engine speed was	A/C compressor reliability
or more)	6,200 rpm or less	assurance
Accelerated		Acceleration from standstill/
	Approx. 5 s	acceleration performance
		improvement
Time under i-stop control, vehicle speed of	_	i-stop function reliability
1km/h {0.6 mph} or less		improvement
Refrigerant pressure 3.14 MPa {32.0 kgf/	Refrigerant pressure decreases to 2.55 MPa	A/C compressor reliability
cm ² , 455 psi} or more	{26.0 kgf/cm ² , 370 psi} or less	assurance
Refrigerant pressure of 0.196 MPa {2.00 kgf/	Refrigerant pressure of 0.226 MPa {2.30 kgf/	A/C compressor reliability
cm ² , 28.4 psi} or less continues for 5 s or		assurance
more	cm ² , 32.8 psi} or more continues to 5 s or more	
Drive-by-wire control malfunction		Reverse driving performance
	_	assurance
Panic braking determined	_	Load performance assurance
ECT sensor malfunction	_	Engine protection
When high engine coolant temperature	High engine coolant temperature: Continuously	Engine protection
(approx. 113 °C {235 °F} or more)	cuts off the A/C, and if the engine coolant	
	temperature decreases, it continues to cut-off the	
	A/C.	
Travel on ascending road		Ascent performance
		improvement