

AIR CONDITIONER

DESCRIPTION

1. General

The air conditioner system in the new Camry has the following features:

- A automatic control air conditioner system is standard equipment.
- A semi-center location air conditioner unit, in which the evaporator and heater core are placed in the vehicle's longitudinal direction, has been adopted.
- A compact, lightweight, and highly efficient straight flow (full-path flow) aluminum heater core has been adopted.
- A multi-tank, super-slim structure evaporator has been adopted.
- A compact, lightweight, and low-noise swash plate type compressor has been adopted.
- The heater exchange efficiency has been improved through the adoption of the sub-cool condenser.
- A clean air filter that excels in removing dust has been adopted.
- The air conditioner ECU is equipped with a self-diagnosis function. If there is a malfunction in the system, it stores the DTCs (Diagnostic Trouble Codes) in its memory and blinks the air conditioner switch indicator.

► Performance ◀

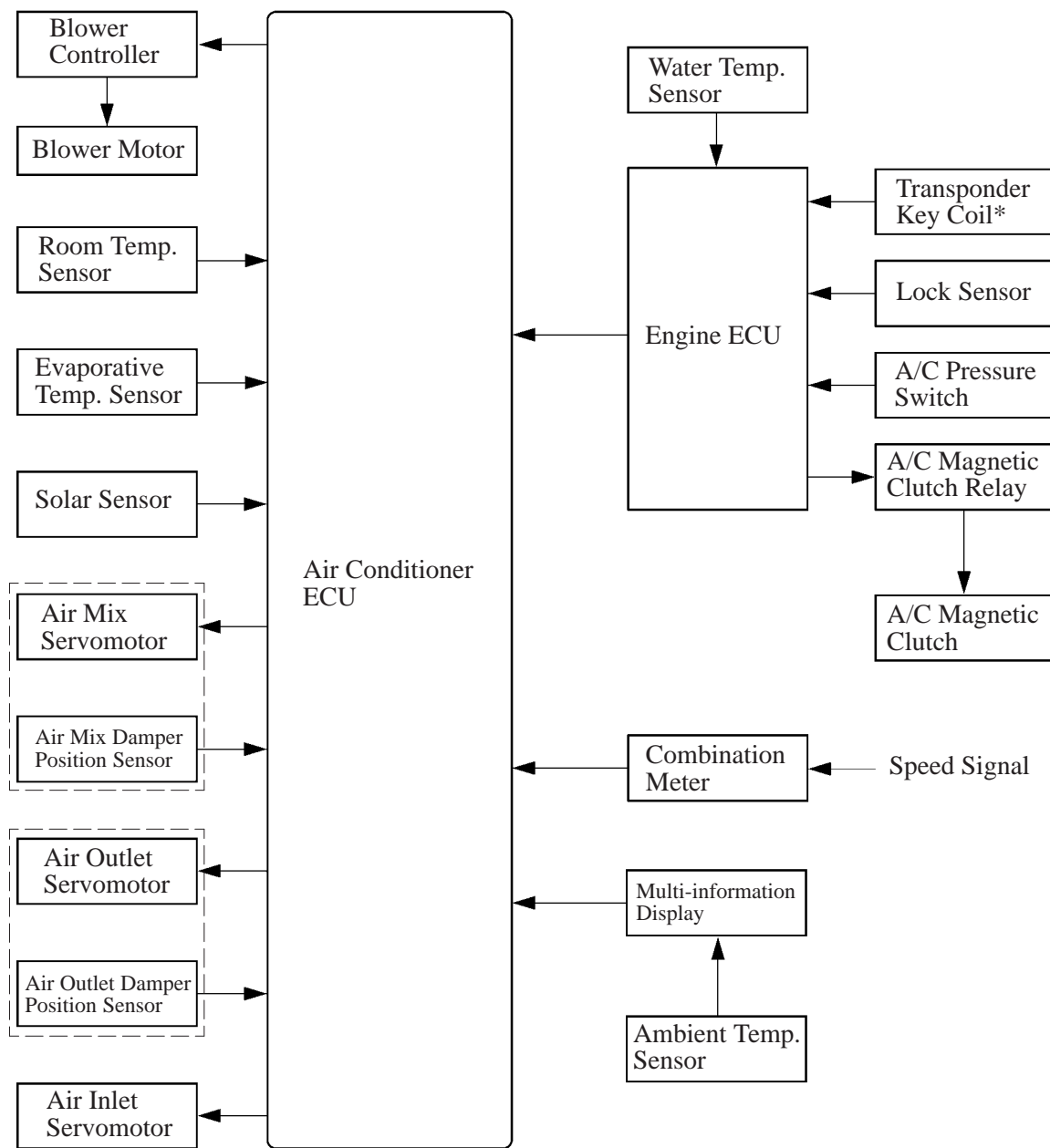
Model		New	Previous
Heater	Heat Output W (Kcal/h)	5750 (4950)	5400 (4650)
	Air Flow Volume m ³ /h	360	365
	Power Consumption W	210	220*
Air Conditioner	Cooling Capacity W (Kcal/h)	5500 (4730)	5230 (4500)
	Air Flow Volume m ³ /h	530	505
	Power Consumption W	260	←

*: With Side Vent Closed

► Specification ◀

Model			New	Previous
Ventilation and Heater Core	Heater Core	Type	Straight Flow (Full-path Flow)	U-turn Flow
		Size W × H × L mm (in.)	228.7 × 140 × 27 (9.0 × 5.5 × 1.1)	220.4 × 155.7 × 27 (8.7 × 6.1 × 1.1)
		Fin Pitch mm (in.)	1.8 (0.07)	2.0 (0.08)
	Blower	Motor Type	A80Fs-12.5T	S80Fs-12T
		Fan Size Dia. × H mm (in.)	150 × 75 (5.9 × 3.0)	←
Air Conditioner	Condenser	Type	Multi-flow (Sub-cool)	3-Passage Flow Type
		Size W × H × L mm (in.)	670 × 387.8 × 16 (26.4 × 15.3 × 0.6)	726 × 415.6 × 22 (28.6 × 16.4 × 0.9)
		Fin Pitch mm (in.)	3.6 (0.14)	4.5 (0.18)
	Evaporator	Type	Multi-tank, Super-slim Structure	Drawn Cup
		Size W × H × L mm (in.)	266.2 × 255 × 58 (10.5 × 10.0 × 2.3)	252 × 260 × 90 (9.9 × 10.2 × 3.5)
		Fin Pitch mm (in.)	3.5 (0.14)	4.0 (0.16)
	Compressor	Type	10S17	10PA17

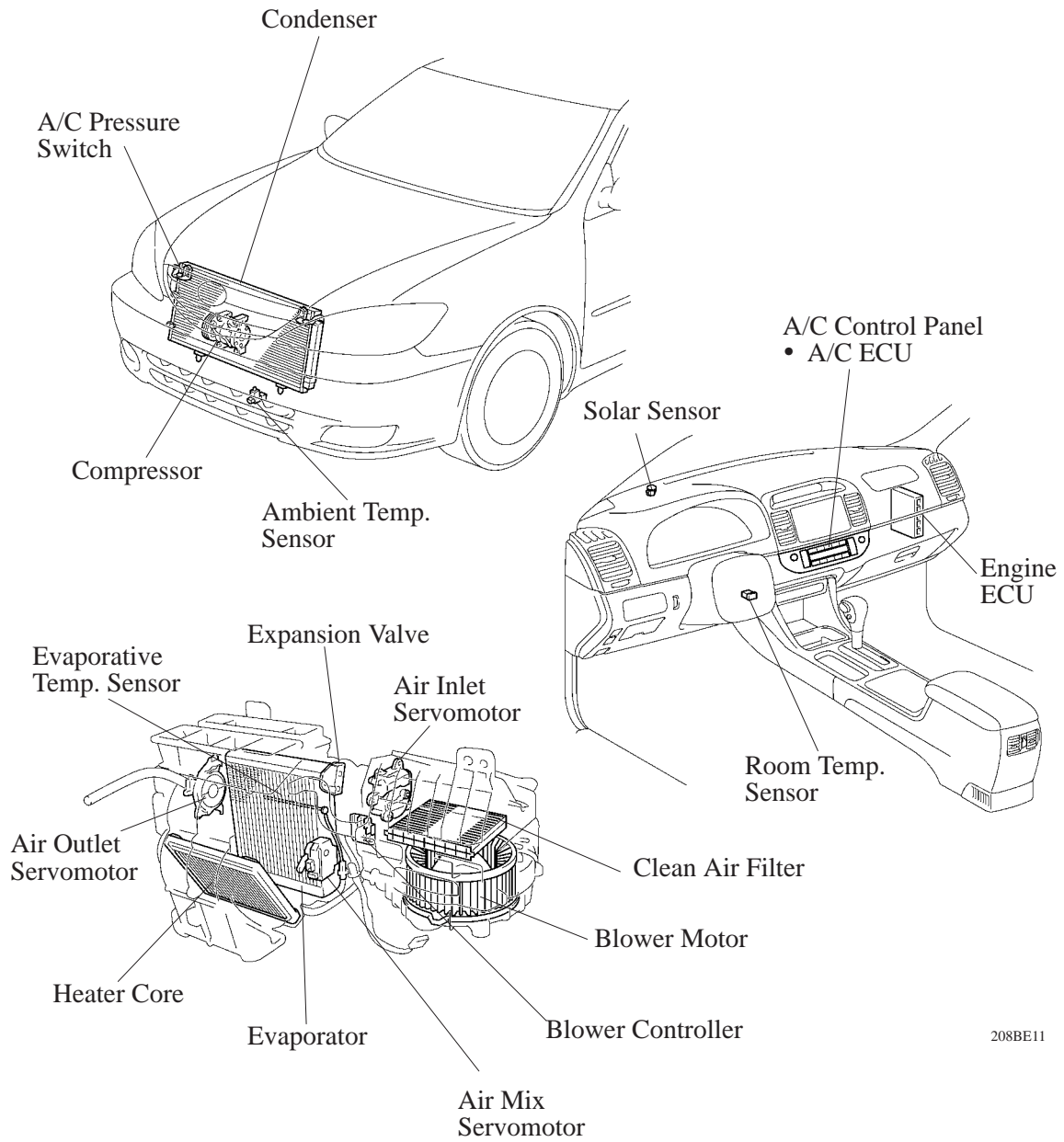
2. System Diagram



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*: With Engine Immobiliser System Model

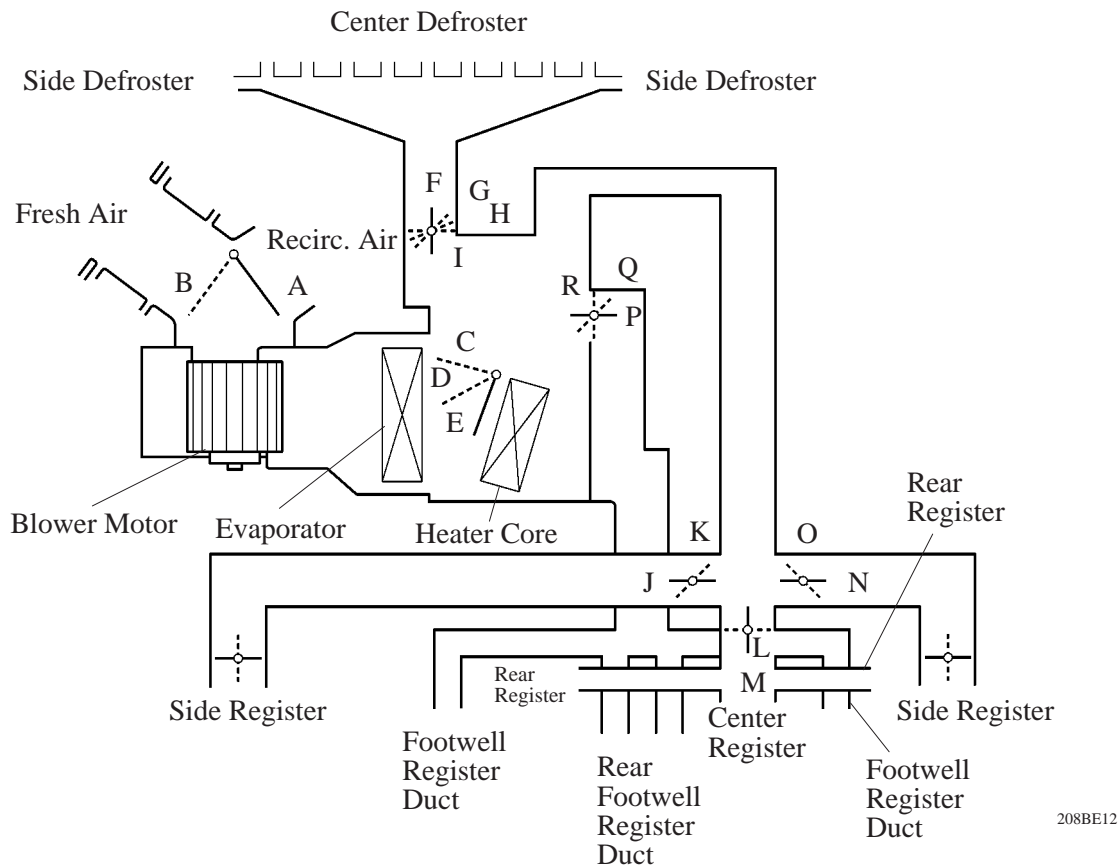
3. Layout of Main Component



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LHD Model

4. Mode Position and Damper Operation

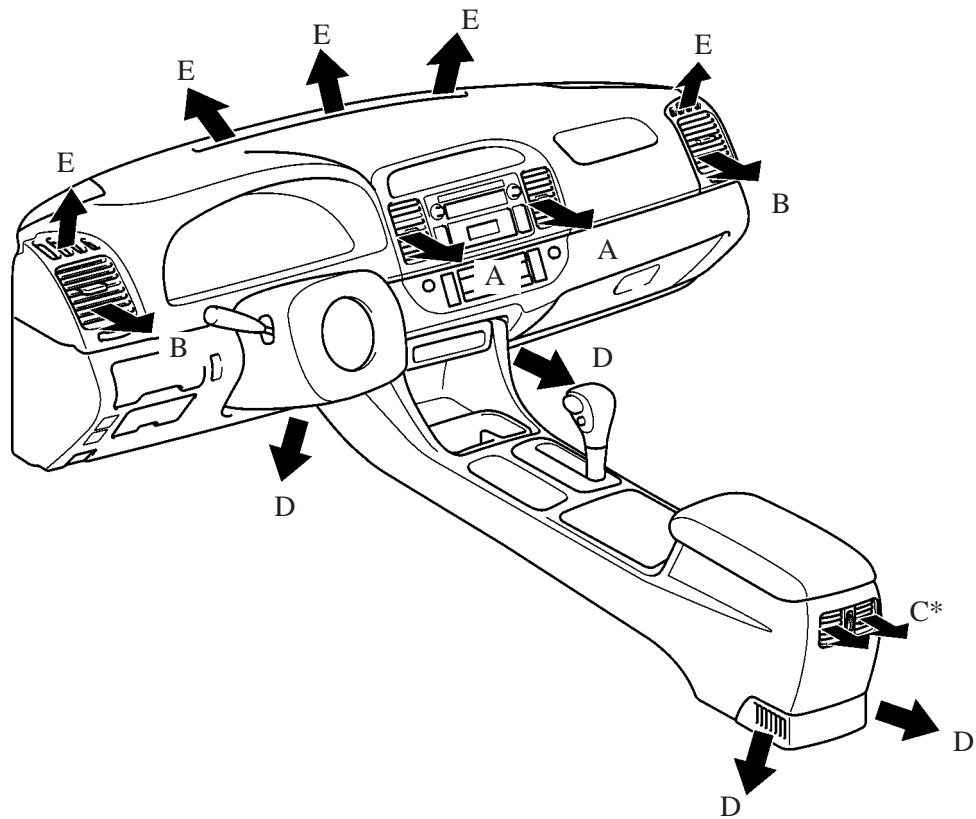


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► Function of Main Damper ◀






Control Damper	Control Position		Damper Position	Operation
Air Inlet Control Damper		FRESH 187BE23	A	Brings in fresh air.
		RECIRC 187BE41	B	Recirculates internal air.
Air Mix Control Damper	MAX COLD – MAX HOT TEMP. SETTING { 18°C (65°F) - 32°C (85°F) }		C ~ D ~ E	Varies the mixture ratio of the fresh air and the recirculation air in order to regulate the temperature continuously from HOT to COLD.
Mode Control Damper		DEF 187BE28	F, K, L, O, R	Defrosts the windshield through the center defroster, side defroster, and side register.
		FOOT/DEF 187BE27	G, K, L, O, Q	Defrosts the windshield through the center defroster, side defroster, and side register, while air is also blown out from the front and rear foot well register ducts.
		FOOT 187BE26	H, K, L, O, P	Air blows out of the front and rear foot well register ducts, and side register. In addition, air blows out slightly from the center defroster and side defroster.
		BI-LEVEL 187BE25	I, J, M, N, P	Air blows out of the center registers, side registers, and foot well register ducts.
		FACE 187BE24	I, J, M, N, R	Air blows out of the center registers, and side register.

5. Air Outlets and Air Volume Ratios



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Air Outlet Mode	A	B	C*	D	E
	Center Face	Side Face	Rear Face	Foot	Defroster
FACE  187BE24	○	○	○	—	—
BI-LEVEL  187BE25	○	○	○	○	—
FOOT  187BE26	—	○	—	○	○
FOOT/DEF  187BE27	—	○	—	○	○
DEF  187BE28	—	○	—	—	○

The size of the circle ○ indicates the proportion of airflow volume.

*: Only for The Parking Brake Pedal Model