

AIR CONDITIONER

■ DESCRIPTION

1. General

The new Hilux has an air conditioner system with the following equipment.

Destinations		Thailand, Philippines, Malaysia	Australia			General Countries	Central and South America
Engine		All	2TR-FE, 1GR-FE	1KD-FTV		All	All
Cab Type		All	All	Single, Extra	Double	All	All
Manual A/C		—	—			Option	Option
Manual Cooler		Standard*	—			—	—
Heater	Conventional	—	Standard		—	Option	Standard
	With PTC	—	—		Standard	—	—

*: Except KUN15R-TRMDYT3

- The heater control panel is the rotary switch type. A rotating cable control mechanism has been adopted to make the control unit more compact.
- The air conditioner unit has been made compact and lightweight by placing the evaporator and the heater core horizontally, above and below in the unit, and adopting a film type slide door for the air mix door.
- A compact, lightweight, and highly efficient straight flow (full-path flow) aluminum heater core has been adopted.
- The PTC (Positive Temperature Coefficient) heater system contains a PTC heater that heats the air that has passed through the heater core to ensure the proper heater performance.
- A multi-tank supper-slim structure evaporator has been adopted on Central and South American model.
- A revolutionary-slim structure evaporator has been adopted on all except Central and South American model.
- A compact, lightweight, and low-noise swash plate type compressor has been adopted.

► Performance ◀

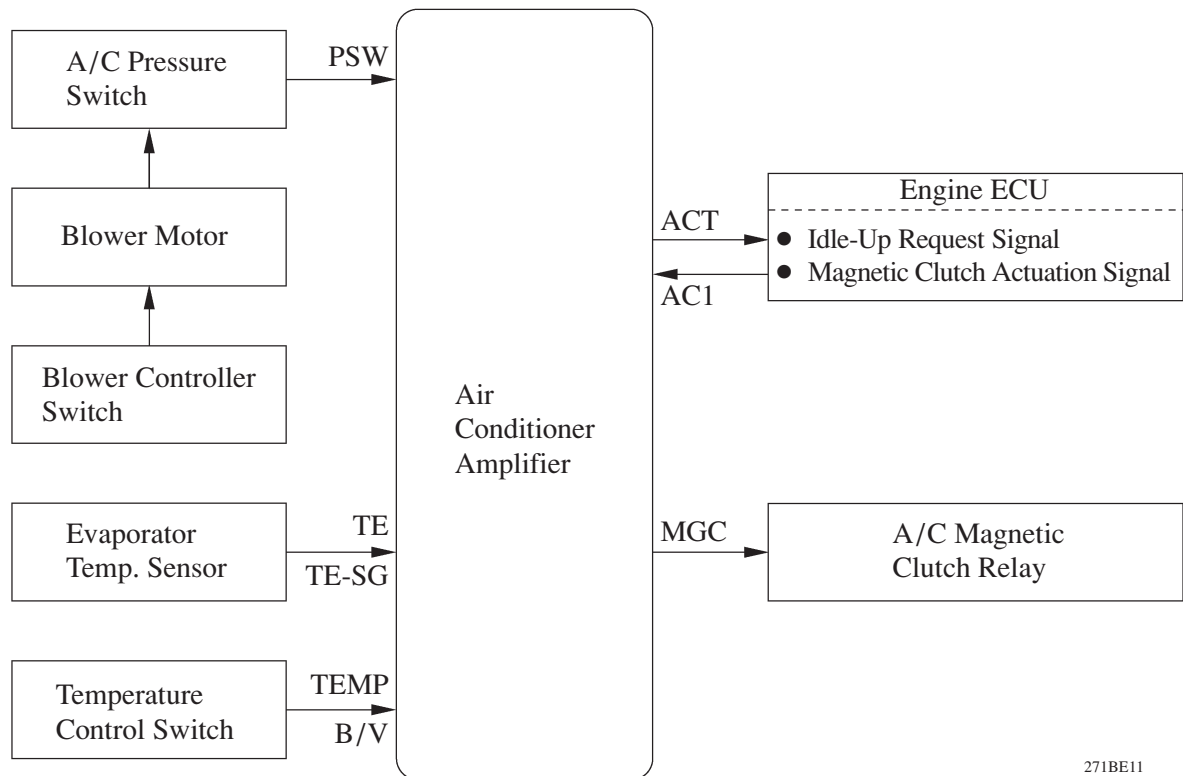
Destinations		Central and South America	Except Central and South America
Heater	Heat Output W	5,200	←
	Air Flow Volume m ³ /h	320	←
	Power Consumption W	Less than 190	Less than 170
PTC Heater	Heat Output W	—	450
Air conditioner or Cooler	Cooling Capacity W	4,800	←
	Air Flow Volume m ³ /h	470	←
	Power Consumption W	Less than 230	Less than 200

► Specifications ◀

Destinations			Central and South America	Except Central and South America
Ventilation and Heater Core	Heater Core	Type	Straight Flow (Full-path Flow)	←
		Size W x H x L mm (in.)	150 x 201.5 x 21 (5.9 x 7.9 x 0.8)	←
		Fin Pitch mm (in.)	1.8 (0.07)	←
	Blower	Motor Type	DPD	K62F-13.5T
		Fan Type	Semi Shroud Fan	←
		Fan Size Dia. x H mm (in.)	150 x 70 (5.9 x 2.8)	155 x 65 (6.1 x 2.6)
Air Conditioner or Cooler	Condenser	Type	Multi-flow (Sub-cool)	←
		Size W x H x L mm (in.)	570 x 492.3 x 16 (22.4 x 18.4 x 0.6)	620 x 440.6 x 16 (24.4 x 17.3 x 0.6)
		Fin Pitch mm (in.)	3.60 (0.14)	3.55 (0.14)
	Evaporator	Type	Multi-tank Supper-slim Structure	Revolutionary-slim Structure
		Size W x H x L mm (in.)	227.8 x 225 x 58 (9.0 x 8.9 x 2.3)	226.1 x 241 x 38 (8.9 x 9.5 x 1.5)
		Fin Pitch mm (in.)	4.0 (0.16)	3.0 (0.12)
	Compressor	Type	10S15	10S11

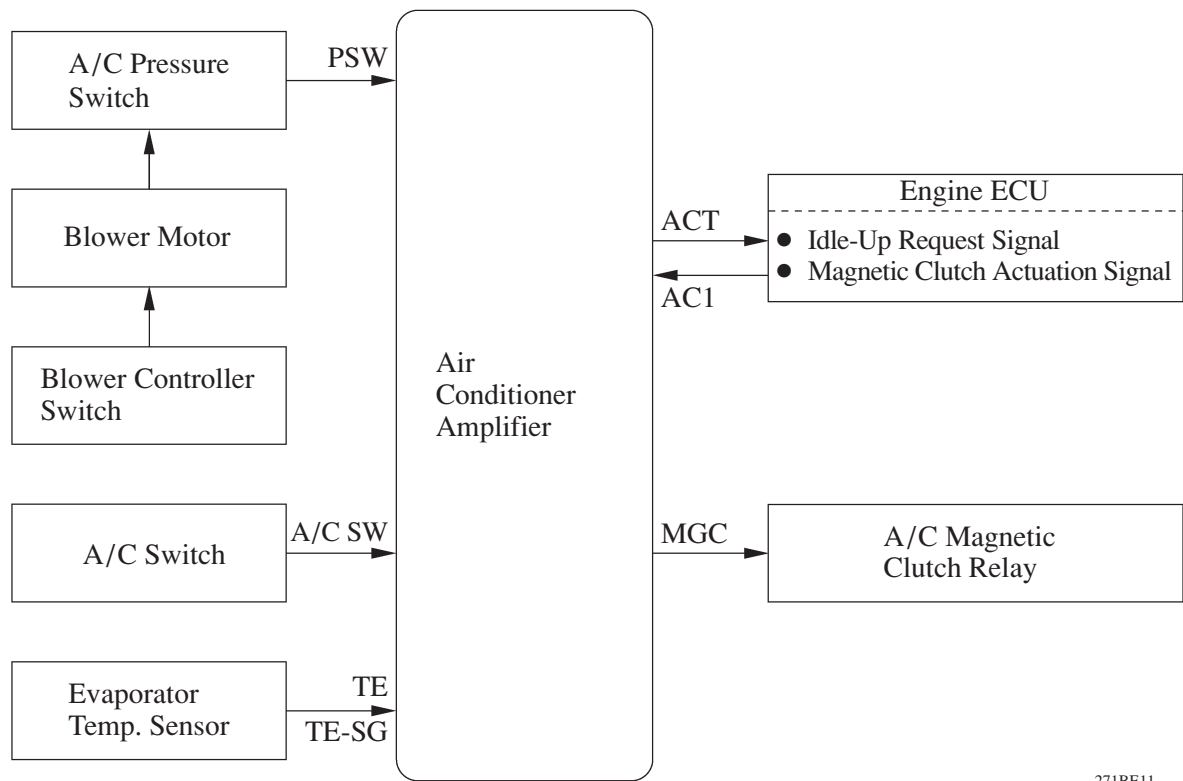
2. System Diagram

► Manual Control Cooler System ◀

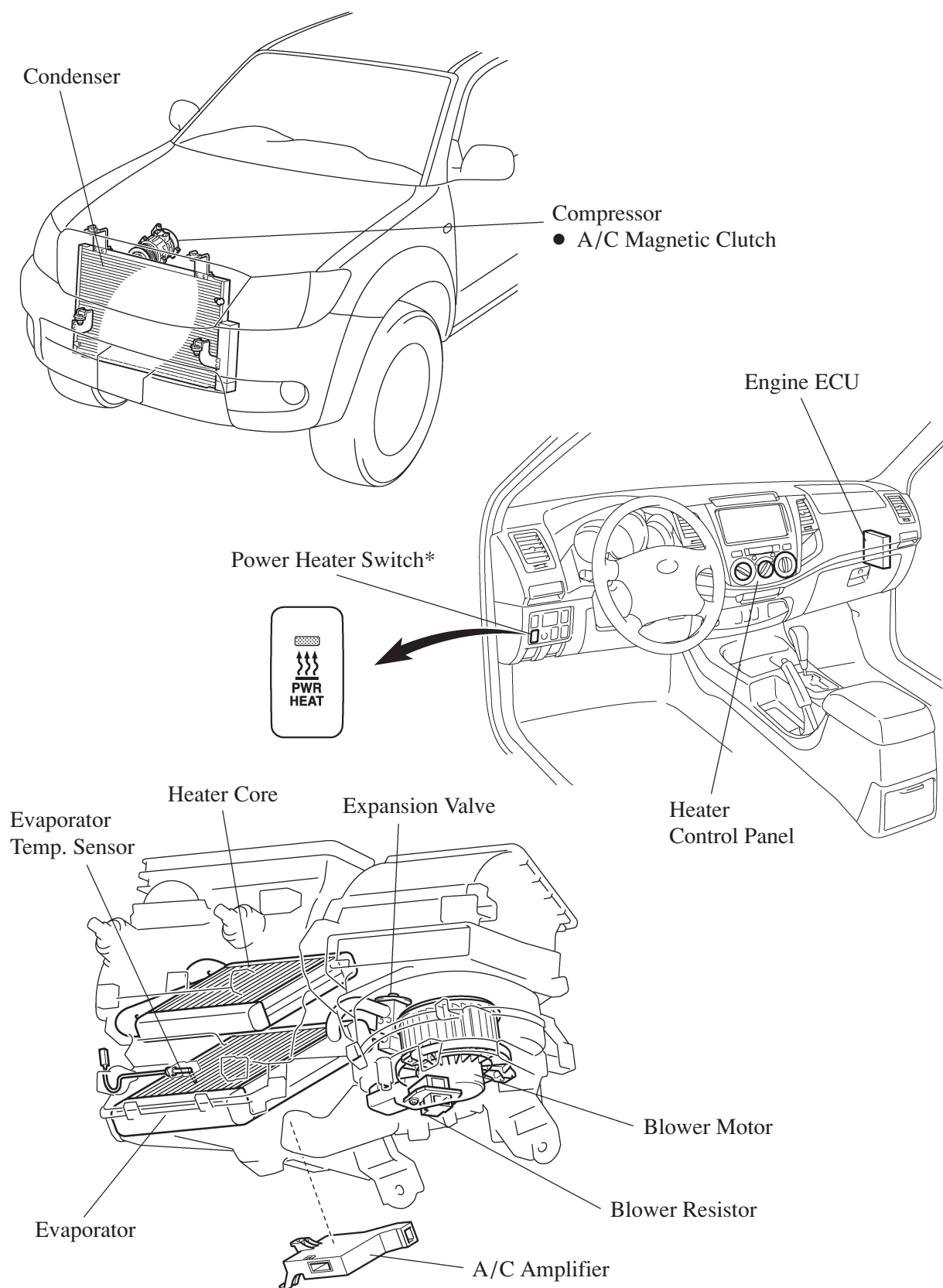


BE

► Manual Control Air Conditioner System ◀



3. Layout of Main Components



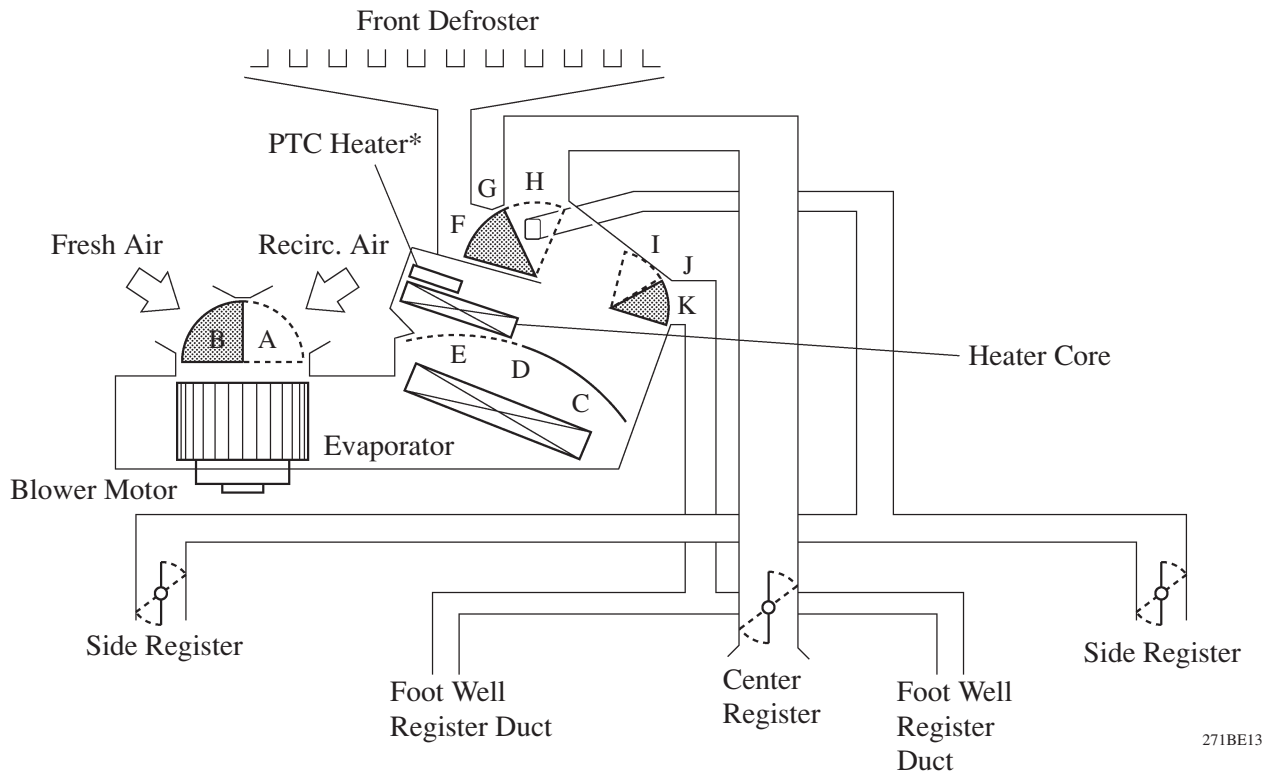
LHD Model

271BE12

*: Only for Models with PTC Heater

4. Model Position and Damper Operation

► Manual Air Conditioner Model ◀



271BE13

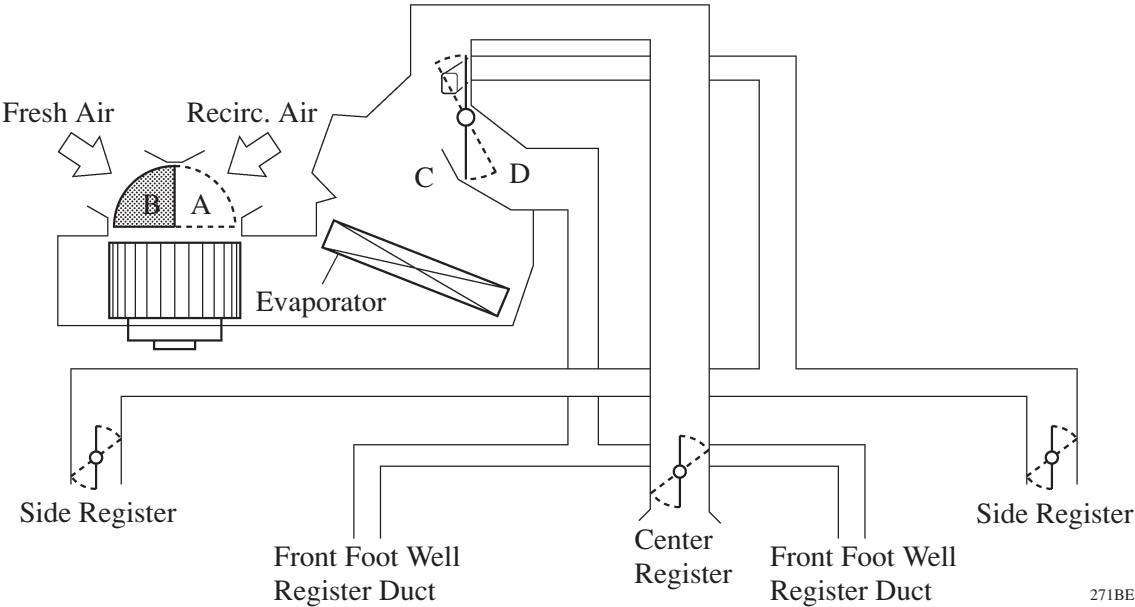
*: Only for Models with PTC Heater

BE

► Function of Main Damper ◀

Control Damper	Control Position	Damper Position	Operation
Air Inlet Control Damper	FRESH	A	Brings in fresh air.
	RECIRC	B	Recirculates internal air.
Air Mix Control Damper	MAX COLD – MAX HOT	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	FACE 187BE24	F, K	Air blows out of the center registers and side register.
	BI-LEVEL 187BE25	F, I	Air blows out of the center registers, side registers, and foot well register ducts.
	FOOT 187BE26	H, I	Air blows out of the foot well register ducts, and side register. In addition, air blows out slightly from the front defroster.
	FOOT/DEF 187BE27	H, J	Defrosts the windshield through the front defroster and side register, while air is also blown out from the foot well register ducts.
	DEF 187BE28	H, K	Defrosts the windshield through the front defroster and side register.

► Manual Cooler Model ◄

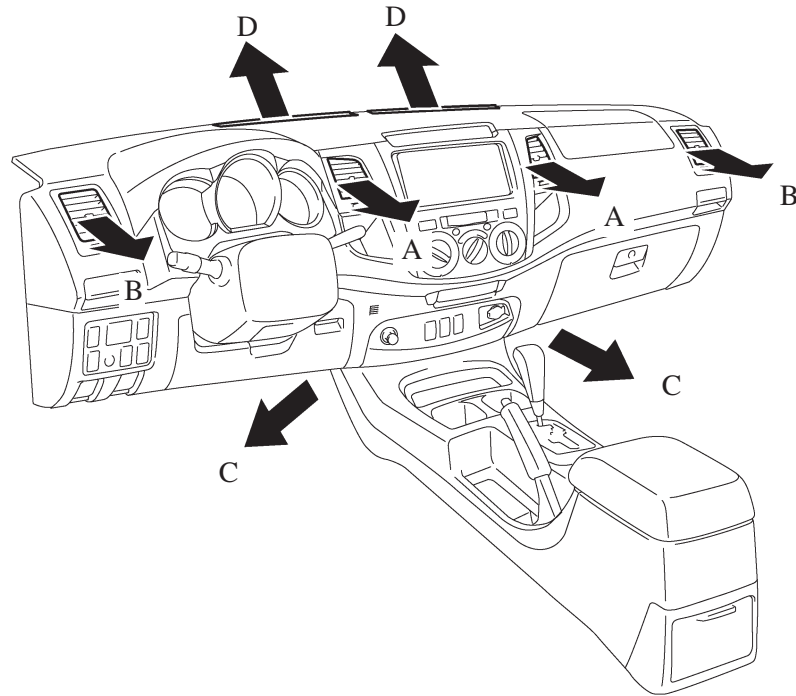


► Function of Main Damper ◄

Control Damper	Control Position	Damper Position	Operation
Air Inlet Control Damper	FRESH	A	Brings in fresh air.
	RECIRC	B	Recirculates internal air.
Mode Control Damper	 FACE 187BE24	C	Air blows out of the center registers and side register.
	 BI-LEVEL 187BE25	D	Air blows out of the center registers, side registers, and foot well register ducts.

5. Air Outlets and Air Volume Rations

► Manual Air Conditioner Model ◀

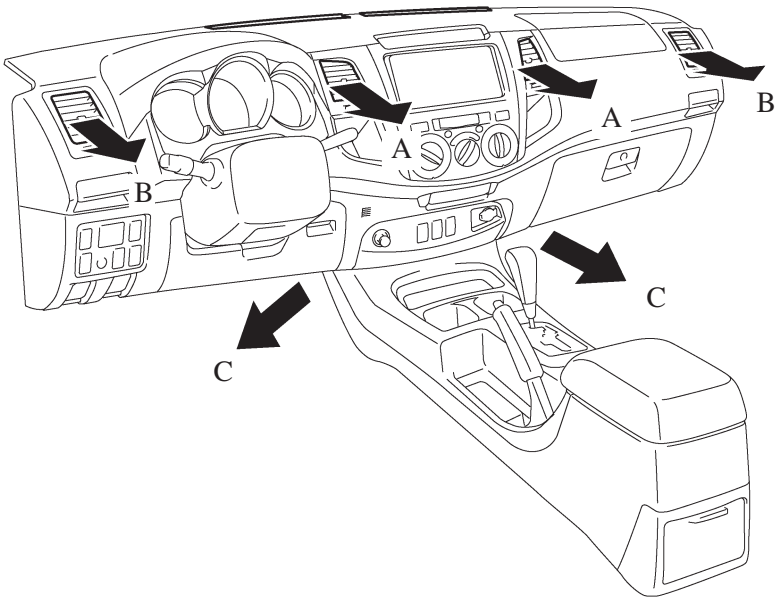


271BE15

Air Outlet Mode			A	B	C	D
			Center Face	Side 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.

► Manual Cooler Model ◄



271BE16

Air Outlet Mode		A	B	C
		Center Face	Side Face	Foot
FACE	 187BE24			—
BI-LEVEL	 187BE25			

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