

2001 XJ RANGE - Air Distribution and Filtering - 412-01

Air Distribution and Filtering

Air Distribution

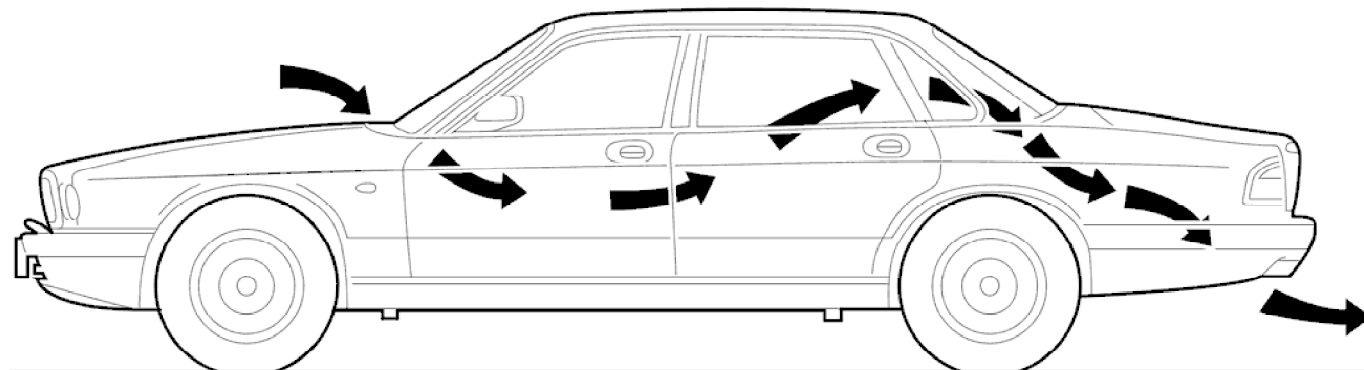
Outside air enters the plenum via four inlets in the lower windshield panel.

If the air conditioning system is operating in FRESH mode (not recirculation mode), then air is drawn through the four plenum apertures (and particle filters where fitted) and into the air conditioning unit via the blower interconnecting ducts in the LH and RH blower assemblies. Air is cooled and dehumidified as it passes through the evaporator and is then 'reheated' to the required temperature as it passes through the heater matrix.

In RECIRCULATION mode, the air in the passenger compartment is drawn into the air conditioning unit via the recirculation air inlets on the blower assemblies.

In FRESH mode, air flows from the cabin into the trunk through a gap between the backlight and the parcel shelf. The air is exhausted from the vehicle through extraction vent assemblies (incorporating one way flaps) whose outlets are above the rear mufflers.

Air Flow Path



E33202

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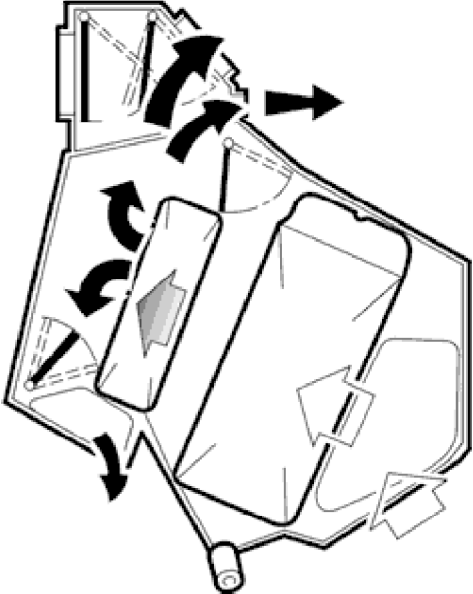
Air Distribution Modes

Bi-level mode



E34312

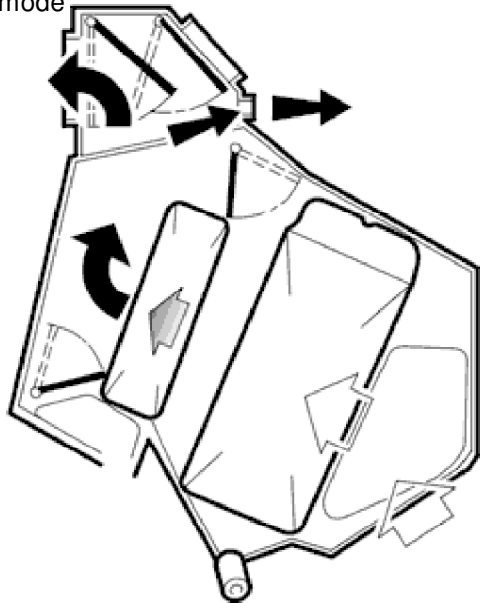
Foot / defog mode



E34313

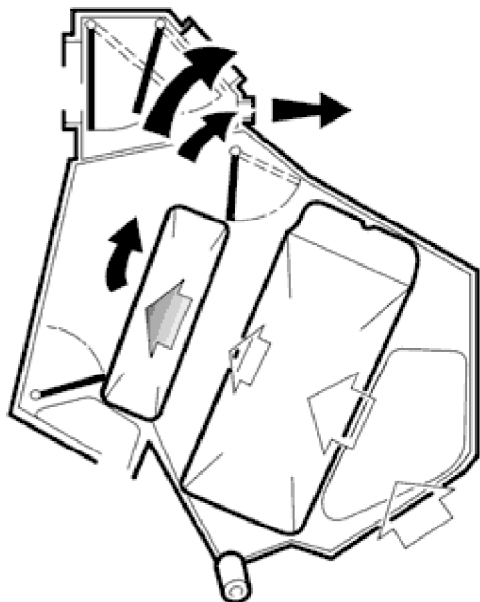
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Face mode



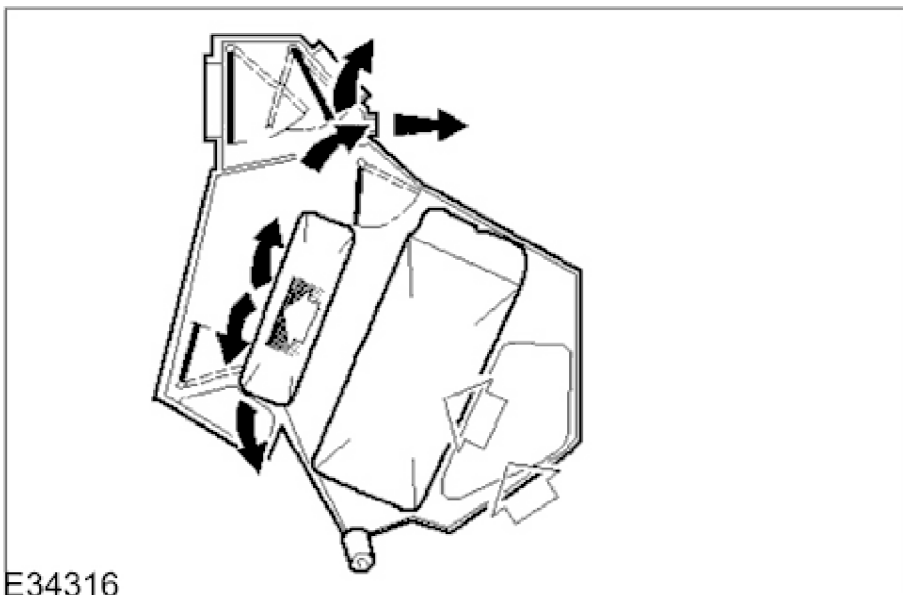
E34314

Defog mode



E34315

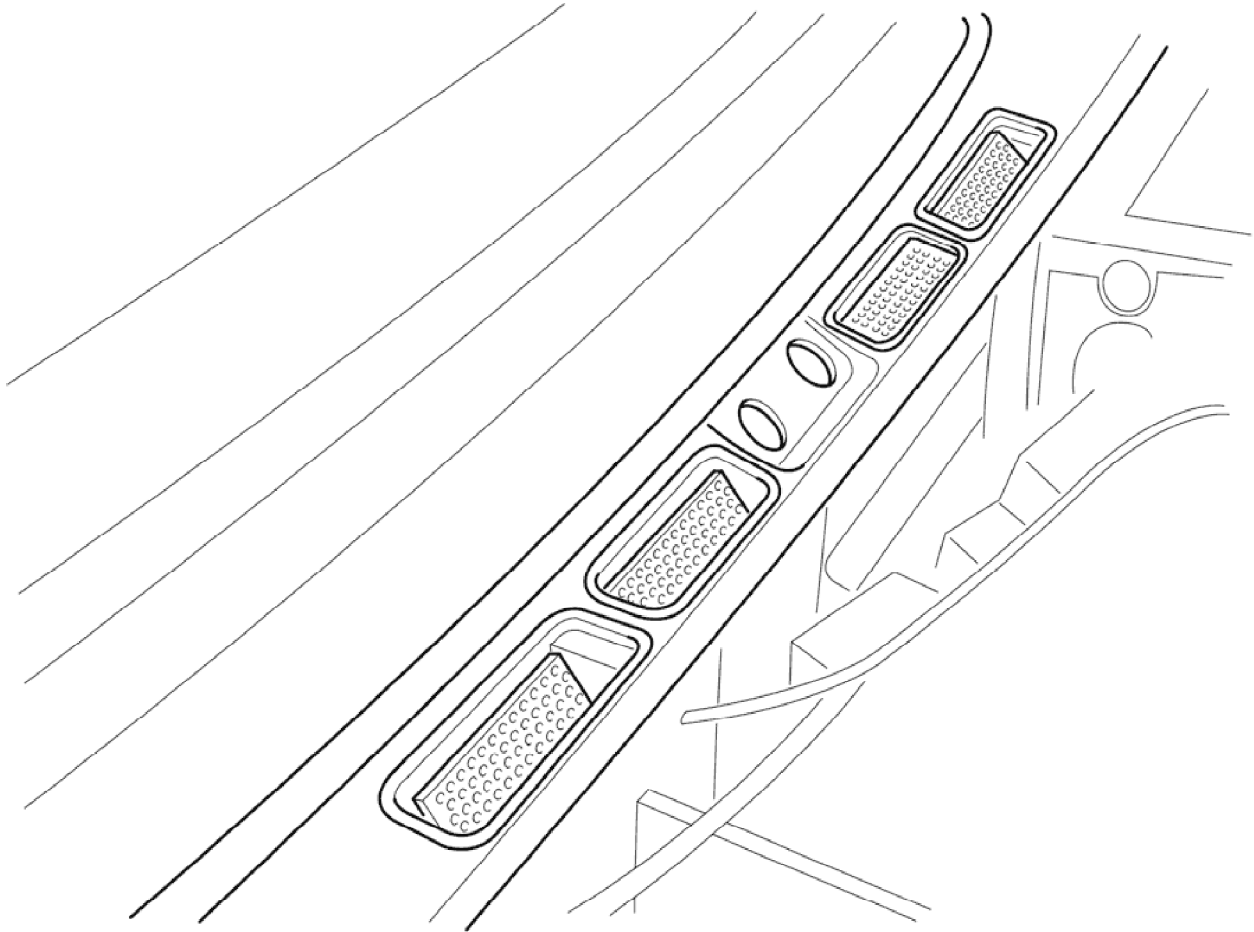
Foot mode.(with automatic air bleed to the windshield)



E34316

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Air Particle Filter



E33203

The air particle filter system (where fitted) is located in the plenum below the windshield .

NOTE:

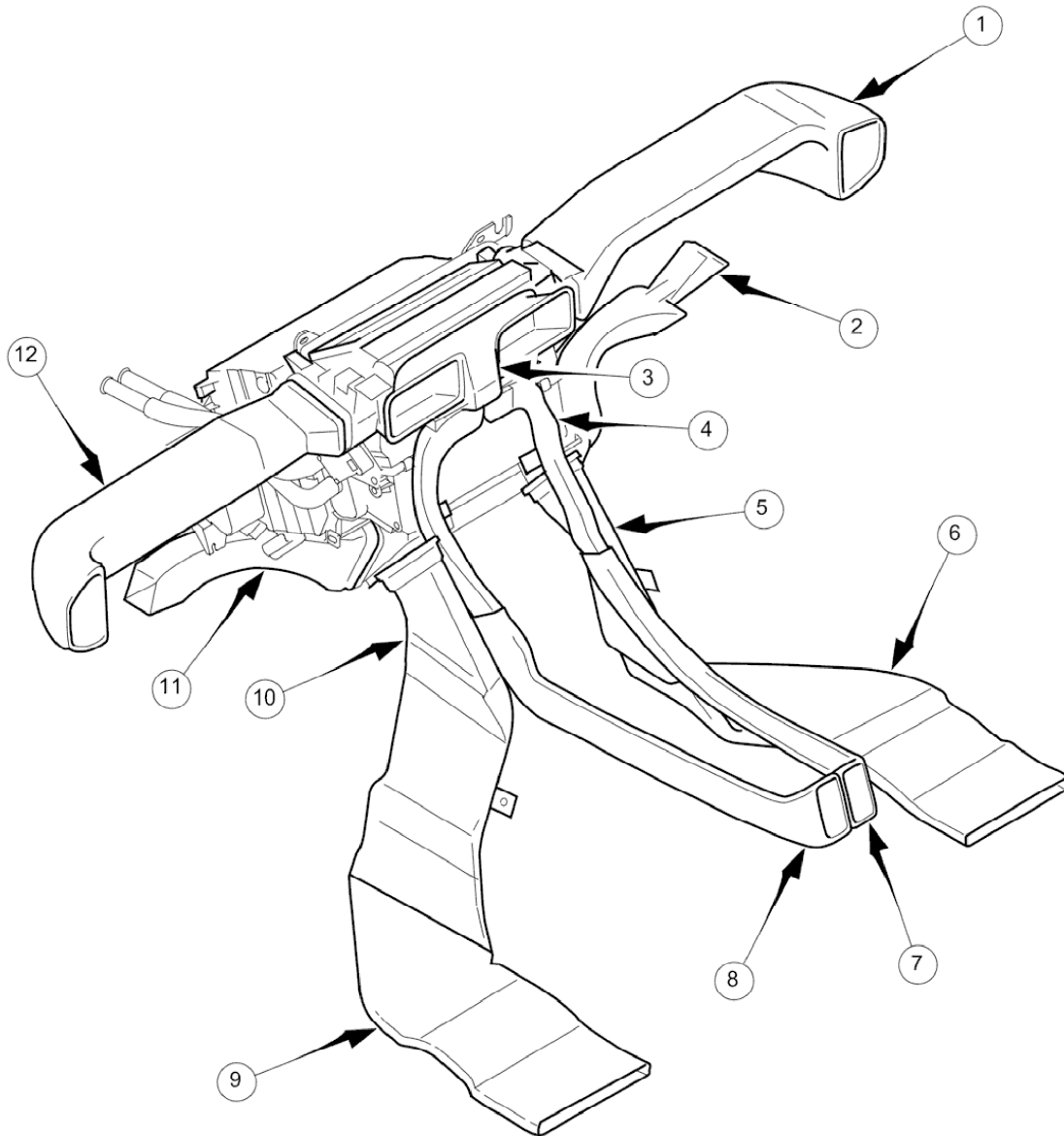
Refer to 'Filter Compensation', Section <<412-04>>.

The filter elements are retained by adhesive strip which is attached to the filter moulding; the filter is fitted with the light, flocked surface towards the engine.

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Location of Air Distribution Ducts

LHD shown

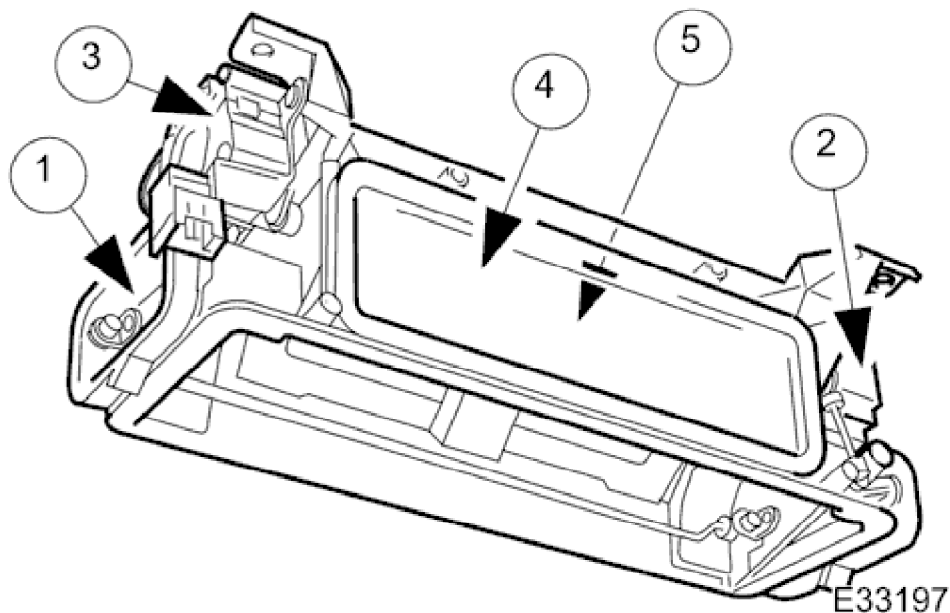


Item	Description
1	Face level duct - RH
2	Passenger footwell duct - LHD
3	Face level duct - center
4	Rear face primary duct
5	Rear intermediate footwell duct - RH
6	Rear footwell duct - RH
7	Rear face duct - RH
8	Rear face duct - LH
9	Rear footwell duct - LH
10	Rear intermediate footwell duct - LH
11	Driver footwell duct - LHD
12	Face level duct - LH

E33253

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Air Distribution Box (ADB)



Item	Description
1	Air outlet - side vent
2	Servo motor - instrument panel center vent
3	Servo motor - defog vent
4	Air outlet - instrument panel center vent
5	Air outlet - defog vent

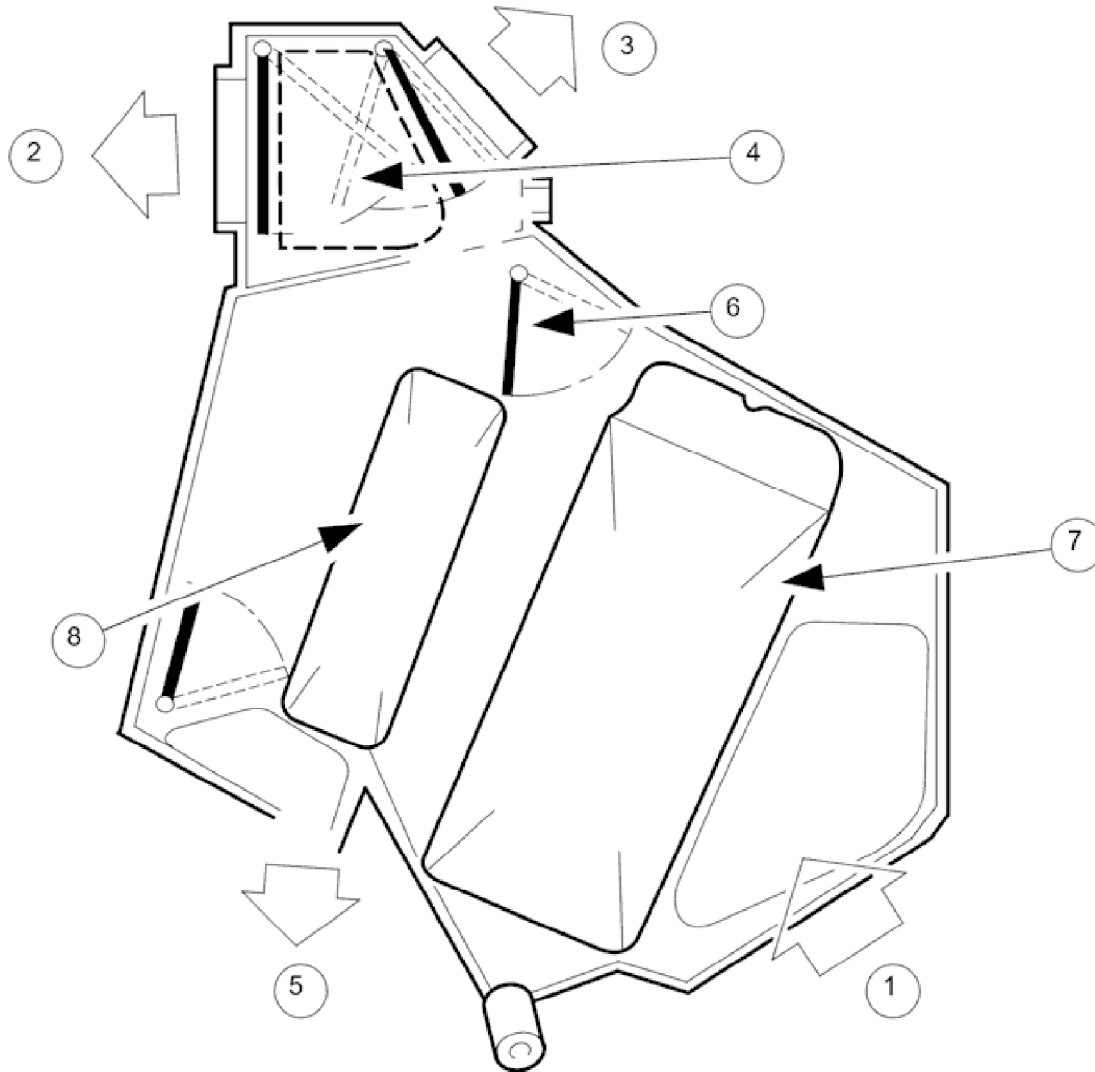
The upper air distribution box ADB, is fixed to the defog duct and instrument panel assembly, and seals by contact pressure to the outlet (top) of the air conditioning unit. The ADB incorporates two servo motor operated flaps which regulate airflow to:

- Windshield and door drop glass
- Instrument panel - center, left hand and right hand vents

The center vent duct incorporates a baffle plate which balances the volume of air flow between the center and right and left hand vents.

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Internal Components and Air Flow

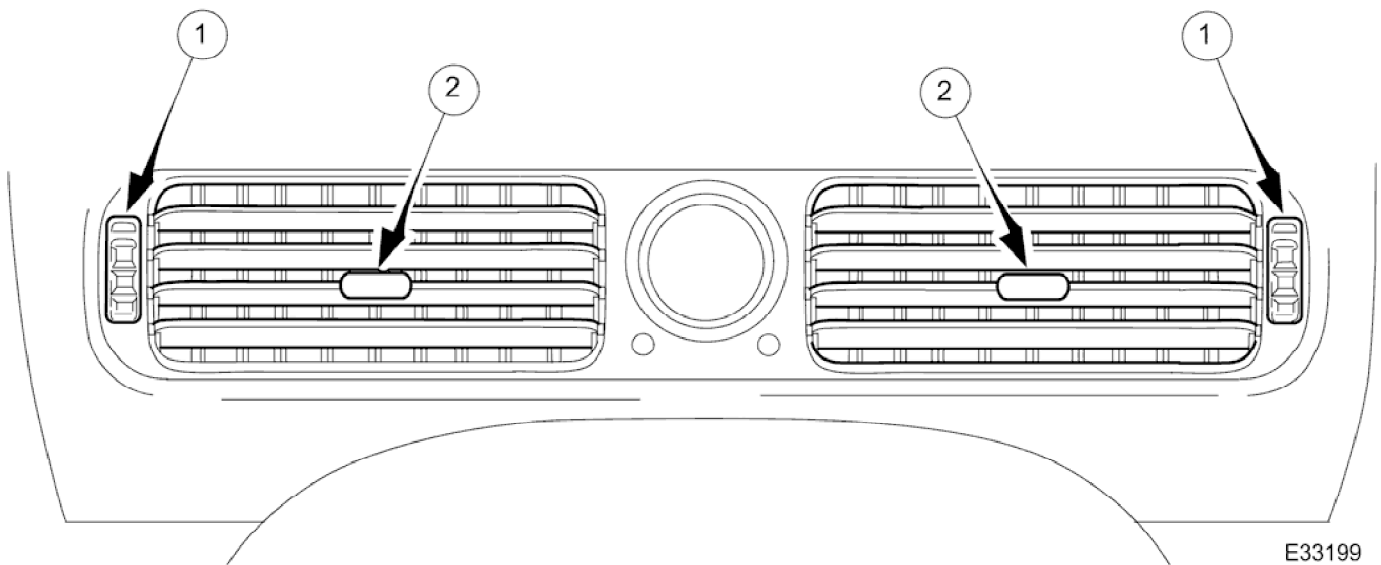


E34317

Item	Description
1	Air inlet - from RH blower (LH opposite, not shown)
2	Air outlet - instrument panel center vents
3	Air outlet - defog
4	Air outlet - instrument panel LH and RH side vents
5	Air outlet - footwell
6	Flap - cool air bypass
7	Evaporator
8	Matrix - heater

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Instrument Panel Air Outlets



E33199

Item	Description
1	Air flow control
2	Air direction control

Air temperature from the center, right and left hand vents is slightly cooler than the foot outlets; however this temperature cannot be varied independently.

The instrument panel side vents, not shown, feature similar controls.