

Telephone:
Fax:
VAT Registration No.:

System information

Control system	Manual temperature control
System layout	Single evaporator - single zone
Refrigerant circuit type	Expansion valve

General information

General information

Self-diagnosis

- No self-diagnosis function applicable to this model range.

System control

- Compressor operation controlled by refrigerant triple pressure switch.
- Compressor will not operate if refrigerant level is low.
- System incorporates an AC evaporator temperature sensor.

System repairs

- Access to evaporator housing from vehicle interior. Removal of fascia panel not required.
- Access to AC/heater blower motor from vehicle interior. Removal of fascia panel not required.

System service

- Refrigerant sight glass located in receiver/drier.

Refrigerant charging

- Ensure refrigerant circuit is evacuated prior to charging.
- Charge via low pressure service connector.
- Continue to charge until recommended quantity has entered system.

System fault diagnosis

- For information regarding system and component diagnosis refer to 'General test procedures' (F9).

Fuse box/relay plates

Engine bay - front left - 1,6i [Fig. 1](#)

Fuse (Amps)	Circuit	
F1 (50A)	Heater blower relay	
F18 (30A)	AC condenser blower motor	
F19 (30A)	Engine coolant blower motor relay II	
Location	Component	Circuit diagram code
3	Engine coolant blower motor relay II	K12-II
5	Heater blower relay	K28
7	Engine coolant blower motor relay I	K12-I

Engine bay - front left - 2,0i [Fig. 2](#)

Fuse (Amps)	Circuit	
F1 (50A)	Heater blower relay	
F12 (30A)	AC condenser blower motor	
F13 (30A)	Engine coolant blower motor relay II	
Location	Component	Circuit diagram code
3	Engine coolant blower motor relay II	K12-II
5	Heater blower relay	K28
7	Engine coolant blower motor relay I	K12-I

Engine bay - front left - 2,0D [Fig. 3](#)

Fuse (Amps)	Circuit	
F8 (30A)	AC condenser blower motor	
F9 (30A)	Engine coolant blower motor relay II	
F10 (50A)	Heater blower relay	
Location	Component	Circuit diagram code
4	Heater blower relay	K28
5	Engine coolant blower motor relay I	K12-I
6	Engine coolant blower motor relay II	K12-II

Engine bay - front right [Fig. 4](#)

Location	Component	Circuit diagram code
1	AC condenser blower motor relay I	K129-I
2	AC condenser blower motor relay II	K129-II
3	AC compressor clutch relay	K143

Fascia - right [Fig. 5](#)

1,6i/2,0i

Fuse (Amps)	Circuit
F10 (10A)	Heater blower relay, AC refrigerant triple pressure switch, AC compressor clutch relay, engine coolant blower motor relay II

2,0D

Fuse (Amps)	Circuit
F8 (7,5A)	Engine coolant blower motor relay II, heater blower relay - → 1995
F10 (10A)	AC refrigerant triple pressure switch, AC compressor clutch relay - → 1995
F10 (10A)	Engine coolant blower motor relay I/II, heater blower relay, AC refrigerant triple pressure switch, AC compressor clutch relay - 1996 →

Fuse satellite - kick panel, left

Fuse (Amps)	Circuit
F1 (10A)	AC master switch

Refrigerant pressures

Preparatory conditions

- Engine at normal operating temperature.
- Ambient temperature 30-35°C.
- Engine idling.
- Air conditioning switched ON.
- AC/heater blower motor switch set to maximum speed.
- AC/heater recirculation flap set to recirculation position.
- AC/heater temperature control(s) set to maximum cold position.
- All ventilation outlets fully open.

Checking

- Run engine at 1500 rpm.

NOTE: Refrigerant pressures may vary slightly with ambient temperature variations.

Ambient temperature	High pressure	Low pressure
30-35°C	13,7-15,7 bar	1,5-2,5 bar

Delivery temperature

- Not specified.

Technical data

Refrigerant

Type	R134a
Quantity	700-800 grams

Refrigerant oil

Type	ND OIL 8
Viscosity	ISO 46
Quantities:	
Compressor	Replace quantity drained + 20 ml
Condenser	35 ml
Evaporator	45 ml
Receiver/drier	15 ml
System	Not specified

Compressor clutch

Adjustment type	Shim
Clearance	0,35-0,65 mm

AC evaporator temperature sensor

Temperature	Resistance
0°C	4,6-5,1 kΩ
15°C	2,1-2,6 kΩ



