

Air conditioner self-diagnosis

Assignment of the operating and display unit - E87

Assignment for vehicles up to model year 2001

Part number	Index	Special features	Planned for
4B0 820 043	without....G	Adapted to vehicles with a version "1" air conditioner unit	- Vehicles up to model year 1998/1999 In model year 1999 gradual changeover to version "2" of the air conditioner unit => Page 87-156
4B0 820 043	P, Q, R, S	- Adapted to vehicles with a version "2" air conditioner unit Recognition of ignition key assignment not possible	- Model year 1999 vehicles In model year 1999 gradual changeover to version "2" of the air conditioner unit => Page 87-156
	H, J, K, L	- Adapted to vehicles with a version "2" air conditioner unit Recognition of ignition key assignment possible (the assignment is supplied by the dash panel insert).	- Vehicles from model year 1999 to model year 2001 In model year 1999 gradual changeover to version "2" of the air conditioner unit => Page 87-156

Continued
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Part number	Index	Special features	Planned for
4B0 820 043	AE, AF, AG, AH	- Adapted to vehicles with a version "2" air conditioner unit Recognition of ignition key assignment possible (the assignment is supplied by the dash panel insert). Compressor shut-off for low ambient temperature does not occur until -1 °C (instead of 2 °C, depending on the code)	- Vehicles from model year 1999 to model year 2001 In model year 1999 gradual changeover to version "2" of the air conditioner unit => Page 87-156

Notes:

- ◆ Note the precise assignment when replacing an operating and display unit -E87

=> Parts List

- ◆ Different versions of the operating and display unit -E87 in vehicles with and without a radio navigation system (or radio with large control panel) with and without switch for heated seats (e.g. index "B", "C", "F" or "G").

=> Parts List

- ◆ In the period from week 36 to week 44 of 1998, production was gradually switched from air-conditioner design "1" to air-conditioner design "2". These designs have specific features that differ => Page [87-160](#) Vehicles with the 8-cyl. engine are fitted exclusively with air-conditioner design "2".
- ◆ Operating and display units -E87 with the part no. and the index "AE", "AF", "AG" and "AH" may be fitted in vehicles with a version "2" air conditioner unit up to model year 2001 => Page [87-160](#).
- ◆ Model year 2000 and 2001 vehicles may only be fitted with operating and display units -E87 with part no. and index "H", "J", "K", "L" or "AG", "AH", "AE", "AF". These operating and display units differ from operating and display units -E87 with part number 4B0 820 043 and index "P", "Q", "R" or "S" in the following ways:

- Recognition of ignition key assignment (display in display group 11 of the measured value block).

- Display of the last 4 compressor shut-off criteria (in display group 13 of the measured value block)

=> Parts List

- ◆ In model year 1999 vehicles with a version "2" air conditioner unit, operating and display units -E87 with part no.

and index "H", "J", "K", "L" or "AG", "AH", "AE", "AF" may also be fitted. However, ignition key assignment is usually not possible, because the relevant information is not supplied by most dash panel inserts.

- ◆ Vehicles from model year 2000 must not be fitted with operating and display units -E87 with the part no. and index "P", "Q", "R" or "S". They may only be fitted in model year 1999 vehicles equipped with a version "2" air conditioner unit => Page [87-160](#).
- ◆ Vehicles up to model year 2001 must not be fitted with operating and display units -E87 with the part no. and index "AA", "AB", "AC" "AD" or from "AJ" onwards.

=> Parts List

- ◆ For the Audi allroad the air conditioner changeover does not take place with the switch from model year 2001 to 2002 but gradually in model year 2002

=> Parts List

Assignment for vehicles from model year 2002

Part number	Index	Special features	Planned for
4B0 820 043	AA, AB, AC, AD AJ,.....	Adapted to vehicles with Data exchange between the -E87 and other vehicle control units via the drive data bus High-pressure sender -G65 (instead of pressure switch -F129) Encodable for vehicles with a compressor for air conditioner with magnetic clutch -N25 or with regulating valve -N280	- Vehicles from Model Year 2002

Notes:

- ◆ Note the precise assignment when replacing an operating and display unit -E87

=> Parts List

- ◆ Different versions of the operating and display unit -E87 in vehicles with and without a radio navigation system (or radio with large control panel) and with and without switch for heated seats (e.g. index "AA", "AB", "AC" or "AD").

=> Parts List

- ◆ Vehicles from model year 2002 must not be fitted with operating and display units -E87 with the part no. and index "AG", "AH", "AE" or "AF" (except Audi allroad; for these the changeover takes place gradually).

=> Parts List

- ◆ Vehicles from model year 2002 and the Audi allroad with 4.2l engine must only be fitted with operating and display units -E87 with the part no. and index "AA", "AB", "AC" "AD" or from "AJ" onwards.

=> Parts List

- ◆ For the Audi allroad the air conditioner changeover does not take place with the switch from model year 2001 to 2002 but gradually (launch open, but for vehicles with 4.2l engine at production start).

=> Parts List

- ◆ For the Audi allroad with 4.2l engine, the compressor is driven via a shaft and not via a belt => Page [87-61](#)