



Contents

80 - Heating	1
1 Heating - passenger compartment components	1
1.1 Engine compartment partition panel seal	3
1.2 Heat exchanger/engine compartment partition panel sealing	4
1.3 Fresh air blower V2	5
1.4 Fresh air blower pre-resistance with overheating cut-out N24 - remove and install	7
1.5 Dust and pollen filter - remove and install	9
1.6 Air vents - remove and install	12
1.7 Footwell vent - remove and install	15
1.8 Demister nozzle and air distributor for centre vents - remove and install	16
1.9 Fresh air intake nozzle	17
1.10 Exhaust valve - check	18
1.11 Ventilation adjustment mechanisms	20
1.12 Command cables - remove and install	24
2 Plenum chamber (heating) - remove and install	26
2.1 Plenum chamber - remove and install	27
3 Plenum chamber (Behr) - disassemble and assemble	31
3.1 Air distribution drive mechanism (Behr box) - remove and install	31
3.2 Temperature adjustment mechanism (Behr box) - remove and install	33
4 Plenum chamber (Valeo) - assemble and disassemble	35
4.1 Air distribution activation mechanism (Valeo Chamber) - remove and install	35
4.2 Temperature adjustment mechanism (Valeo Chamber) - remove and install	38
5 Plenum chamber (Denso) - disassemble and assemble	40
5.1 Air distribution drive mechanism (Denso box) - remove and install	40
5.2 Temperature adjustment mechanism (Denso box) - remove and install	41
6 Heat exchanger - remove and install	43
6.1 Heat exchanger (Behr box) - remove and install	44
6.2 Heat exchanger (Valeo Chamber) - remove and install	49
6.3 Heat exchanger (Denso box) - remove and install	53
87 - Air conditioning system	56
1 Notes on repairing vehicles with air conditioning system and on handling refrigerant	56
2 Ventilation adjustment mechanism (heating and air conditioning)	57
2.1 Ventilation / air conditioning adjustment mechanism power connectors	57
3 Command cables - remove and install	58
4 Service valves - location	59
5 Air conditioning with manual adjustment	61
5.1 Heating and air conditioning - passenger compartment components	61
5.2 Engine compartment partition panel seal	64
6 Plenum chamber (heating and air conditioning) - remove and install	66
6.1 Plenum chamber - remove and install	68
6.2 Plenum chamber (Behr) - disassemble and assemble	72
6.3 (Valeo) plenum chamber - remove and install	78
6.4 Plenum chamber (Denso) - remove and install	84
6.5 Refrigerant circuit (engine compartment)	91
6.6 Ambient temperature sensor G17	92
6.7 Pressure sensor G16 - remove and install	92
6.8 Pressure sensor G16 - check	93
6.9 Pressure relief valve in the compressor - check	93
7 Air conditioner compressor support	95
7.1 Air conditioner compressor support for EA11 engines - remove and install	95



8	Refrigerant circuit - assembly overview	98
8.1	Air conditioning magnetic clutch N25 manufacturer (Delphi) - repair	101
8.2	Electromagnetic clutch (Delphi compressor) - remove and install	102
8.3	Air conditioner compressor for EA211 engines - general assembly overview	105
8.4	Compressor - remove and install	107
8.5	Condenser - remove and install	110
8.6	Dryer filter - remove and install	113
8.7	Expansion valve - remove and install	118
8.8	Quick-release coupling - remove and install	121
9	Air conditioning system hoses - remove and install	124
9.1	Air conditioning system low pressure hose - remove and install	124
9.2	Air conditioning system high pressure hose - remove and install	127
9.3	Condenser compressor hose - remove and install	130
10	Filling capacities	133
10.1	R134a refrigerant gas	133
10.2	Cooling system oil	133