



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 series resistor with overheating fuse N24 - remove and install	9
1.5 Dust and pollen filter - remove and install	11
1.6 Air vents - remove and install	15
1.7 Footwell vent - remove and install	18
1.8 Demister nozzle and air distributor for centre vents - remove and install	20
1.9 Fresh air intake nozzle	21
1.10 Exhaust valve - check	22
1.11 Ventilation adjustment mechanisms	25
1.12 Command cables - remove and install	29
2 Plenum chamber (heating) - remove and install	31
2.1 Plenum chamber - remove and install	32
3 Plenum chamber (Behr) - disassemble and assemble	37
3.1 Air distribution drive mechanism (Behr box) - remove and install	37
3.2 Temperature adjustment mechanism (Behr box) - remove and install	39
4 Plenum chamber (Valeo) - assemble and disassemble	41
4.1 Air distribution activation mechanism (Valeo Chamber) - remove and install	41
4.2 Temperature adjustment mechanism (Valeo Chamber) - remove and install	44
5 Plenum chamber (Denso) - disassemble and assemble	47
5.1 Air distribution drive mechanism (Denso box) - remove and install	47
5.2 Temperature adjustment mechanism (Denso box) - remove and install	48
6 Heat exchanger - remove and install	50
6.1 Heat exchanger (Behr box) - remove and install	51
6.2 Heat exchanger (Valeo Chamber) - remove and install	57
6.3 Heat exchanger (Denso box) - remove and install	62
87 - Air conditioning system	66
1 Notes on repairing vehicles with air conditioning system and on handling refrigerant	66
2 Ventilation adjustment mechanism (heating and air conditioning)	67
2.1 Ventilation / air conditioning adjustment mechanism power connectors	67
3 Command cables - remove and install	68
4 Service valves - location	69
5 Air conditioning with manual adjustment	71
5.1 Heating and air conditioning - passenger compartment components	71
5.2 Engine compartment partition panel seal	74
6 Plenum chamber (heating and air conditioning) - remove and install	76
6.1 Plenum chamber - remove and install	78
6.2 Plenum chamber (Behr) - Assembly overview	83
6.3 Plenum chamber (Valeo) - Assembly overview	90
6.4 Plenum chamber (Denso) - Assembly overview	97
6.5 Refrigerant circuit (engine compartment)	104
6.6 Ambient temperature sensor G17	106
6.7 Pressure sensor G16 - remove and install	106
6.8 Pressure sensor G16 - check	107
6.9 Pressure relief valve in the compressor - check	107
7 Air conditioner compressor support	108
7.1 Air conditioner compressor support for EA11 engines - remove and install	108



8	Refrigerant circuit - assembly overview	112
8.1	Air conditioning magnetic clutch N25 manufacturer (Delphi) - repair	116
8.2	Electromagnetic clutch (Delphi compressor) - remove and install	117
8.3	Air conditioner compressor for EA211 engines - general assembly overview	121
8.4	Compressor - remove and install	123
8.5	Condenser - remove and install	126
8.6	Dryer filter - remove and install	130
8.7	Expansion valve - remove and install	135
8.8	Quick-release coupling - remove and install	138
9	Air conditioning system hoses - remove and install	142
9.1	Air conditioning system low pressure hose - remove and install	143
9.2	Air conditioning system high pressure hose - remove and install	146
9.3	Condenser compressor hose - remove and install	150
10	Filling capacities	153
10.1	R134a refrigerant gas	153
10.2	Cooling system oil	153