



Contents

80 - Heating	1
1 Servicing heating system	1
1.1 Servicing heating system	1
1.2 Passenger compartment heating	1
1.3 Removing fresh air blower -V2-	7
1.4 Removing and installing dust and pollen filter	7
1.5 Removing vent	9
1.6 Removing and installing heated air and fresh air controls	13
1.7 Checking ventilation	15
2 Removing and installing heater unit	16
2.1 Removing and installing heater unit	16
3 Dismantling and assembling heater	19
3.1 Dismantling and assembling heater	19
4 Dismantling and assembling heated air and fresh air controls	23
4.1 Dismantling and assembling heated air and fresh air controls	23
5 Installing and adjusting cables	25
5.1 Installing and adjusting cables	25
87 - Air conditioning	30
1 Notes on repair work to vehicles with air conditioning and on handling refrigerant	30
1.1 Notes on repair work to vehicles with air conditioning and on handling refrigerant	30
1.2 Safety precautions when working on vehicles with air conditioning and when handling refrigerant R134a	30
2 Air conditioner with manual controls	32
2.1 Air conditioner with manual controls	32
2.2 Air conditioning and heating - Passenger compartment	32
2.3 Removing and installing heating and air conditioning controls	37
2.4 Dismantling and assembling heating and air conditioning controls	40
2.5 Installing and adjusting heating and air conditioning cables	42
2.6 Air conditioning and heating system - Engine compartment	46
2.7 Removing and installing air conditioner compressor bracket, engine code: APE	53
2.8 Servicing magnetic coupling -N25-; Sanden unit	60
2.9 Removing magnetic coupling from compressor and refitting again	65
3 Servicing refrigerant circuit, which may only be performed at workshops with specially trained personnel (specialist repair workshop for air conditioning systems)	68
3.1 Servicing refrigerant circuit, which may only be performed at workshops with specially trained personnel (specialist repair workshop for air conditioning systems)	68
3.2 Tools	68
3.3 Renewing refrigerant circuit components	69
3.4 Checking high pressure sender -G65-	81
3.5 Removing and installing heater and air conditioner	85
3.6 Dismantling and assembling evaporator housing	88
3.7 Removing expansion valve	92
3.8 Removing and installing condenser	96
4 Capacities	99
4.1 Capacities	99
4.2 Refrigerant R134a	99
4.3 Refrigerant oil	99