

Contents

01 - Self-diagnosis	1
1 Self-diagnosis	1
1.1 Self-diagnosis	1
1.2 Technical data of self-diagnosis	1
1.3 Function	1
1.4 Fault recognition	1
1.5 Safety precautions	2
1.6 Connecting fault reader V.A.G 1551 and selecting electronic climate/heating control.	2
2 Interrogating fault memory	5
2.1 Interrogating fault memory	5
2.2 Fault table	6
3 Final control diagnosis	8
3.1 Final control diagnosis	8
4 Erasing fault memory, end of output	10
4.1 Erasing fault memory, end of output	10
5 Reading measured value block	11
5.1 Reading measured value block	11
6 Electrical testing	12
6.1 Electrical testing	12
6.2 Wiring and component check with test box V.A.G 1598/19	12
6.3 Checking wiring of diagnosis plug	16
80 - Heating	18
1 Servicing heating	18
1.1 Servicing heating	18
1.2 Contact corrosion!	18
2 Components in engine compartment	19
2.1 Components in engine compartment	19
2.2 Removing and installing Bowden cable for air flow flap (fresh-air shutoff flap)	22
2.3 Removing and installing intake duct with air flow flap	24
2.4 Removing and installing trim panel with air recirculation opening	25
2.5 Removing and installing fresh-air blower -V2	25
2.6 Removing and installing fresh-air blower series resistor -N24	27
2.7 Removing and installing pump valve unit	27
2.8 Removing and installing dust and pollen filter	30
2.9 Removing and installing reinforcement plate (plenum chamber)	30
3 Components in passenger compartment	32
3.1 Components in passenger compartment	32
3.2 Removing and installing heater control	37
3.3 Removing and installing fresh-air blower switch -E9	39
3.4 Replacing glass-base lamp for heater control illumination	39
3.5 Removing and installing holder for coolant pipes	40
3.6 Removing and installing Bowden cable to flaps for centre dash-panel vents	40
3.7 Removing and installing Bowden cable from/to the defrost flap	41
3.8 Removing and installing Bowden cable to flaps for footwell vents	42
3.9 Adjusting linkage between flaps for driver's and passenger's footwell vents	43
3.10 Checking stop for temperature flap	43
3.11 Connection diagram for Bowden cables	44
3.12 Removing and installing centre dash-panel vent	46
3.13 Removing and installing top left/right dash-panel vent	46
3.14 Removing and installing defrost vent for left/right side window	47
3.15 Removing and installing bottom left/right dash-panel vent	47
3.16 Checking, removing and installing condensate drain hose with valve	48

3.17	Removing and installing heating-system heat exchanger	49
3.18	Removing and installing vent temperature sender	53
4	Block diagram of air distribution	54
4.1	Block diagram of air distribution	54
5	Checking heat output and function of pump valve unit	58
5.1	Checking heat output and function of pump valve unit	58
6	Removing and installing heating	61
6.1	Removing and installing heating	61
7	Dismantling and assembling heating	65
7.1	Dismantling and assembling heating	65
7.2	Removing and installing grille, fresh-air blower and covers in plenum chamber.	65
7.3	Dismantling and assembling bottom part of housing and air distributor housing	71
7.4	Dismantling and assembling air distributor housing	74