



Contents

01 - Self-diagnosis	1
1 Self-diagnosis	1
1.1 Self-diagnosis	1
1.2 Function	1
1.3 Technical data of self-diagnosis	1
1.4 Connecting fault reader V.A.G 1551 and selecting engine electronics control unit	2
1.5 Coding Simos control unit	3
1.6 Interrogating and erasing fault memory	4
1.7 Fault table	6
1.8 Final control diagnosis	12
1.9 Read measured value block	16
1.10 Display group overview, engine codes ADY, AGG, AKR	17
1.11 Display group overview, engine codes AFT, AKS	20
24 - Mixture preparation, Injection	25
1 Simos injection and ignition system	25
1.1 Simos injection and ignition system	25
1.2 Fitting locations overview	25
1.3 Servicing injection part	31
1.4 Dismantling and assembling intake manifold, engine codes ADY, AGG, AKR	45
1.5 Dismantling and assembling intake manifold upper part, engine codes AFT, AKS	48
1.6 Dismantling and assembling intake manifold lower part, engine codes AFT, AKS	51
1.7 Dismantling and assembling air cleaner	52
1.8 Safety precautions	55
1.9 Rules for cleanliness	55
1.10 Technical data	56
1.11 Idling check	56
1.12 Performing basic setting	57
1.13 Checking Lambda probe and Lambda control	58
1.14 Checking Lambda probe heating	62
1.15 Checking engine operating mode	64
1.16 Checking intake manifold change-over valve	65
1.17 Checking air mass meter	66
1.18 Checking throttle valve control part	68
1.19 Checking coolant temperature sender	75
1.20 Checking intake air temperature sender	77
1.21 Checking engine speed sender	81
1.22 Testing speed signal	82
1.23 Checking control unit voltage supply	84
1.24 Matching engine electronic control unit to electronic immobilizer	86
1.25 Checking air conditioner and air conditioner compressor signals	87
1.26 Checking starter signal	88
1.27 Checking injectors	88
1.28 Checking fuel pressure regulator and holding pressure	92
1.29 Checking intake air system for leaks (unmetered air)	94
28 - Ignition system	96
1 Simos injection and ignition system	96
1.1 Simos injection and ignition system	96
1.2 Servicing ignition part	96
1.3 Safety precautions	100
1.4 Test data, spark plugs	100
1.5 Checking position of distributor	100
1.6 Removing and installing distributor	101



Golf 1992 , Vento 1992 >
Simos injection and ignition system - Edition 12.1995

1.7	Checking ignition timing control	105
1.8	Checking Hall sender	105
1.9	Checking knock sensor	107
1.10	Checking ignition transformer	109
1.11	Checking ignition transformer output stage	109