

Contents

01 Self-diagnosis	Page
Autodiagnosis Multi Point Injection	01- 1
– Technical data of self-diagnosis	01- 1
– Connecting fault reader V.A.G 1551 and selecting functions	01- 5
– Interrogating and erasing fault memory	01- 13
– Fault table	01- 16
– Final control diagnosis	01- 36
– Basic setting of engine	01- 40
– Coding of MPI control unit	01- 83
– Coding variants of MPI control unit	01- 86
– Reading measured value block	01- 87
– Reading individual measured values	01- 90
– Adaptation	01- 90
– Connecting test box V.A.G 1598	01- 97
– Testing cable connections of diagnostic sockets	01-100
– Replacing MPI control unit	01-107
– Removing and installing MPI control unit (Audi 80)	01-108
– Removing and installing MPI control unit (Audi 100)	01-111
24 Fuel preparation, Fuel injection	Page
Multi-point injection (MPI) system	24- 1
– List of fitting locations	24- 1
Servicing multi-point injection system	24- 4
– Safety precautions	24-10
– Rules for cleanliness	24-12
– Technical data	24-13
– Testing idling speed and CO content	24-14
– Testing fuel pressure, pressure regulator and holding pressure	24-22
– Testing fuel pump relay and actuation (Audi 80)	24-25
– Testing fuel pump relay and actuation (Audi 100)	24-30
– Testing injectors	24-36
– Removing and installing injectors	24-40
– Testing fuel quantity injected, leaks and spray pattern of injectors	24-43
– Testing idling speed stabilization valve –N71	24-47
– Testing Lambda probe and Lambda probe heater	24-51
– Removing and installing Lambda probe	24-55
– Testing solenoid valve 1 for activated charcoal filter –N80	24-56
– Testing and adjusting idling speed switch –F60	24-59
– Testing and adjusting throttle valve potentiometer –G69	24-63
– Testing air mass meter –G70	24-67
– Testing air conditioner additional signal	24-71
– Testing AC compressor cutoff	24-73
– Testing actuation of tachometer	24-77
– Testing actuation of on-board computer (fuel consumption indicator)	24-80
– Testing road speed signal	24-83
– Basic setting of throttle valve	24-86
Vacuum connections	24-87
28 Ignition system	Page
Multi-point injection (MPI) ignition system	28- 1
– List of fitting locations	28- 1
– Servicing ignition part	28- 4
– Technical data	28- 8
– Safety precautions	28- 9
– Installing distributor	28-11
– Testing and adjusting basic setting of distributor	28-13
– Testing Hall sender –G40	28-15

- Testing output stage for ignition transformer	28-19
- Testing ignition transformer -N	28-22
- Testing engine speed sender -G28	28-23
- Testing coolant temperature sender -G62	28-26
- Testing voltage supply of MPI control unit	28-29
- Testing knock sensor -G61	28-32