



Contents

01 - Self diagnosis, Electrical check	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 Interrogating fault memory	4
1.6 Fault table	5
1.7 Erasing fault memory	7
1.8 Final control diagnosis	8
1.9 Reading measuring value block	10
1.10 Display group overview for vehicles >09.91	11
1.11 Display group overview for vehicles 10.91>	12
1.12 Read individual measuring value	13
1.13 Checking voltage supply for fault reader V.A.G 1551	13
2 Electrical check	14
2.1 Electrical check	14
2.2 Wiring and component check with test box V.A.G 1598	14
2.3 Checking on wiring loom plug	15
2.4 Test table	15
2.5 Checks with Digifant control unit connected	19
2.6 Test table	19
24 - Mixture preparation, Injection	21
1 Digifant injection and ignition system	21
1.1 Digifant injection and ignition system	21
1.2 Fitting locations overview	21
1.3 Servicing injection part	25
1.4 Safety precautions	41
1.5 Rules for cleanliness	42
1.6 Technical data	42
1.7 Idling check	42
1.8 Checking idling stabilization	46
1.9 Checking Lambda probe and Lambda control	48
1.10 Checking and adjusting throttle closing damper	50
1.11 Checking acceleration/full throttle enrichment and overrun cut-off	50
1.12 Checking throttle valve potentiometer	51
1.13 Checking coolant temperature sender	53
1.14 Checking intake air temperature sender	53
1.15 Checking CO potentiometer	55
1.16 Checking intake manifold pressure sender	56
1.17 Checking and adjusting idling switch	57
1.18 Checking fuel pressure regulator and holding pressure	57
1.19 Checking cold start valve	59
1.20 Removing and installing injectors	60
1.21 Checking injectors	62
1.22 Checking intake air system for leaks (unmetered air)	65
1.23 Checking intake air preheating	65
1.24 Basic throttle valve setting	66
28 - Ignition system	68
1 Digifant injection and ignition system	68
1.1 Digifant injection and ignition system	68
1.2 Servicing ignition part	68



1.3	Dismantling and assembling distributor	75
1.4	Safety precautions	76
1.5	Test and adjustment data, spark plugs	77
1.6	Installing distributor	77
1.7	Checking and adjusting ignition timing	78
1.8	Checking ignition timing control	80
1.9	Checking Hall sender	81
1.10	Checking ignition transformer	82
1.11	Checking ignition transformer output stage	83