

Fault table (17633 to 19718)**Fault table (17633 to 19718)**Refer to the notes on => Page **01-12**.

| Fault code | | Fault readout | Fault remedy |
|------------|-------|--|--|
| SAE | V.A.G | | |
| P1225 | 17633 | Injector, cylinder 1 -N30 Short to earth 1) | - Check injectors =>Page 24-59 |
| P1226 | 17634 | Injector, cylinder 2 -N31 Short to earth 1) | |
| P1227 | 17635 | Injector, cylinder 3 -N32 Short to earth 1) | |
| P1228 | 17636 | Injector, cylinder 4 -N33 Short to earth 1) | |
| P1229 | 17637 | Injector, cylinder 5 -N83 Short to earth 1) | |
| P1230 | 17638 | Injector, cylinder 6 -N84 Short to earth 1) | |

1) When this fault occurs within three driving cycles (engine running at least 5 seconds) the engine control unit switches on the exhaust warning lamp in dash panel insert. Notes on exhaust warning lamp => Page **24-45**.

| Fault code | | Fault readout | Fault remedy |
|------------|-------|--|--|
| SAE | V.A.G | | |
| P1237 | 17645 | Injector, cylinder 1 -N30 Open circuit 1) | - Check injectors =>Page 24-59 |
| P1238 | 17646 | Injector, cylinder 2 -N31 Open circuit 1) | |
| P1239 | 17647 | Injector, cylinder 3 -N32 Open circuit 1) | |
| P1240 | 17648 | Injector, cylinder 4 -N33 Open circuit 1) | |
| P1241 | 17649 | Injector, cylinder 5 -N83 Open circuit 1) | |
| P1242 | 17650 | Injector, cylinder 6 -N84 Open circuit 1) | |

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| Fault code | | Fault readout | Fault remedy |
|------------|-------|-------------------------|--|
| SAE | V.A.G | | |
| P1250 | 17658 | Fuel level too low | - Follow-on fault =>Note |
| P1296 | 17704 | Fault in cooling system | - Check coolant temperature sender =>Page |

Note:

The fault "Fuel level too low" is stored only in conjunction with misfiring or faults concerning lambda control if too little fuel is or was in the tank. The fault is stored in the control unit as static fault and is not set as a sporadic fault even if the vehicle is refuelled in the meantime.

| Fault code | | Fault readout | Fault remedy |
|------------|-------|---|--|
| SAE | V.A.G | | |
| P1325 | 17733 | Knock control cylinder 1 Control limit reached | - Check knock control => Page 28-31 |
| P1326 | 17734 | Knock control cylinder 2 Control limit reached | |
| P1327 | 17735 | Knock control cylinder 3 Control limit reached | |
| P1328 | 17736 | Knock control cylinder 4 Control limit reached | |
| P1329 | 17737 | Knock control cylinder 5 Control limit reached | |
| P1330 | 17738 | Knock control cylinder 6 Control limit reached | |

| Fault code | | Fault readout | Fault remedy |
|------------|-------|--|---|
| SAE | V.A.G | | |
| P1335 | 17743 | Engine torque monitoring 2 Control limit exceeded 3) | - Severe leakage, check intake air system for unmetered air =>Page 28-14 |
| P1336 | 17744 | Engine torque monitoring Control limit exceeded | - Check air mass meter => Page 28-23 |
| P1337 | 17745 | Bank 1, camshaft position sensor => -G163 Short to earth 1) | - Check Hall sender => Page 28-42 |
| P1338 | 17746 | Bank 1, camshaft position sensor => -G163 Open circuit/short to positive 1) | |

1) When this fault occurs within three driving cycles (engine running at least 5 seconds) the engine control unit switches on the exhaust warning lamp in dash panel insert. Notes on exhaust warning lamp => Page 24-45.

3) With this fault, engine control unit switches on EPC warning lamp in dash panel insert. Notes on EPC warning lamp =>Page 24-161.

| Fault code | | Fault readout | Fault remedy |
|------------|-------|--|---|
| SAE | V.A.G | | |
| P1340 | 17748 | Camshaft/crankshaft position sensor Incorrect assignment 1) | - Check phase position of Hall sender=>Page 28-47 |
| P1347 | 17755 | Bank 2, camshaft/crankshaft position sensor Incorrect assignment 1) | |
| P1386 | 17794 | Control unit defective | - Replace engine control unit =>Page 24-30 |
| P1387 | 17795 | Control unit defective 1) | |
| P1388 | 17796 | Control unit defective 3) | |

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|-------|-------|---|-----------------------------------|
| P1391 | 17799 | Bank 2, camshaft position sensor => -G40 Short to earth 1) | - Check Hall sender => Page 28-42 |
| P1392 | 17800 | Bank 2, camshaft position sensor => -G40 Open circuit/short to positive 1) | |

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3) With this fault, engine control unit switches on EPC warning lamp in dash panel insert. Notes on EPC warning lamp => Page 24-161.

| Fault code | | Fault readout | Fault remedy |
|------------|-------|---|---|
| SAE | V.A.G | | |
| P1393 | 17801 | Ignition output 1 Electrical fault in circuit 1) | - Check actuation or wiring connections from engine control unit to output stage => Page 28-12 |
| P1394 | 17802 | Ignition output 2 Electrical fault in circuit 1) | |
| P1395 | 17803 | Ignition output 3 Electrical fault in circuit 1) | |
| P1410 | 17818 | Tank breather valve -N80 Short to positive 1) | - Check solenoid valve 1 for activated charcoal filter => Page 24-153 |
| P1411 | 17819 | Bank 2, secondary air system Throughput too small 1) | - Check secondary air pump fuse Check vacuum hoses Check hose connections from pump to combination valve for secondary air inlet => Engine, Mechanical Components; Repair group 26; Secondary air system |

1) When this fault occurs within three driving cycles (engine running at least 5 seconds) the engine control unit switches on the exhaust warning lamp in dash panel insert. Notes on exhaust warning lamp => Page 24-45.

Notes on fault codes 17801 and 17802, 17803:

"Ignition outputs 1, 2 and 3" are the outputs on the engine control unit via which the engine control unit activates the output stage of the ignition coils.

| Fault code | | Fault readout | Fault remedy |
|------------|-------|---|---|
| SAE | V.A.G | | |
| P1414 | 17822 | Bank 2, secondary air system Leaks detected | - Check hoses from pump to mechanical secondary air inlet valve, cylinder bank 2 => Engine, Mechanical Components; Repair group 26; Secondary air system |
| P1421 | 17829 | Secondary air inlet valve -N112 Short to earth 1) | - Checking secondary air system => Engine, Mechanical Components; Repair group 26; Secondary air system |
| P1422 | 17830 | Secondary air inlet valve -N112 Short to positive 1) | |
| P1423 | 17831 | Bank 1, secondary air system Throughput too small 1) | - Check secondary air pump fuse Check vacuum hoses Check hose connections from pump to combination valve for secondary air inlet => Engine, Mechanical Components; Repair group 26; Secondary air system |

1) When this fault occurs within three driving cycles (engine running at least 5 seconds) the engine control unit switches on the exhaust warning lamp in dash panel insert. Notes on exhaust warning lamp => Page 24-45.

| Fault code | | Fault readout | Fault remedy |
|------------|-------|--|--|
| SAE | V.A.G | | |
| P1424 | 17832 | Bank 1, secondary air system Leaks detected | - Check hose connections and components of the secondary air system => Engine, Mechanical Components; Repair group 26; Secondary air system |

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|-------|-------|---|--|
| P1425 | 17833 | Tank breather valve -N80 Short to earth 1) | - Check solenoid valve 1 for activated charcoal filter => Page 24-153 |
| P1426 | 17834 | Tank breather valve -N80 Open circuit 1) | |

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| Fault code | | Fault readout | Fault remedy |
|------------|-------|---|---|
| SAE | V.A.G | | |
| P1427 | 17835 | Actuating vacuum pump for brake system Short to positive | - Check actuation of vacuum pump for brake system |
| P1428 | 17836 | Actuating vacuum pump for brake system Short to earth | |
| P1429 | 17837 | Actuating vacuum pump for brake system Open circuit | |

| Fault code | | Fault readout | Fault remedy |
|------------|-------|--|--|
| SAE | V.A.G | | |
| P1432 | 17840 | Secondary air inlet valve -N112 Open circuit 1) | - Checking secondary air system => Engine, Mechanical Components; Repair group 26; Secondary air system |
| P1433 | 17841 | Secondary air pump relay -J229 Open circuit 1) | |
| P1434 | 17842 | Secondary air pump relay -J229 Short to positive 1) | |
| P1435 | 17843 | Secondary air pump relay -J229 Short to earth 1) | |
| P1479 | 17887 | Brake vacuum system Mechanical fault | - Perform short trip in engine control unit (Basic setting; Display group 8 with ignition on and selector lever in "P" or "N" position) Check hoses to and from pump to brake servo Perform final control diagnosis in control unit to check whether |

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| | | | vacuum pump is working or is actuated. |
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1) When this fault occurs within three driving cycles (engine running at least 5 seconds) the engine control unit switches on the exhaust warning lamp in dash panel insert. Notes on exhaust warning lamp => Page 24-45.

| Fault code | | Fault readout | Fault remedy |
|------------|-------|---|--|
| SAE | V.A.G | | |
| P1501 | 17909 | Fuel pump relay -J17 Short to earth 1) | - Check fuel pump relay =>Page 24-72 |
| P1502 | 17910 | Fuel pump relay -J17 Short to positive 1) | |
| P1512 | 17920 | Intake manifold changeover valve -N156 Short to positive | - Checking intake manifold changeover function =>Page 24-95 |
| P1515 | 17923 | Intake manifold changeover valve -N156 Short to earth | |
| P1516 | 17924 | Intake manifold changeover valve -N156 Open circuit | |
| P1519 | 17927 | Bank 1, camshaft timing control Fault 1) | => Engine Mechanical Components; Repair group 15; Check camshaft timing control; Check function of camshaft timing control |
| P1522 | 17930 | Bank 2, camshaft timing control Fault 1) | |

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| Fault code | | Fault readout | Fault remedy |
|------------|-------|--|---|
| SAE | V.A.G | | |
| P1523 | 17931 | Crash signal from airbag control unit Implausible signal 4) | => Body, Self-diagnosis; Repair group 01; Self-diagnosis of airbag system |
| P1529 | 17937 | Camshaft timing control Short to positive 1) | => Engine Mechanical Components; Repair group 15; Check camshaft timing control; Check solenoid valves for camshaft |

| | | | |
|-------|-------|--|--|
| | | | timing control |
| P1530 | 17938 | Camshaft timing control Short to earth 1) | |
| P1531 | 17939 | Camshaft timing control Open circuit 1) | |
| P1539 | 17947 | Clutch pedal switch -F36 Implausible signal | - Testing clutch pedal switch =>Page 24-189 |
| P1541 | 17908 | Fuel pump relay -J17 Open circuit 1) | - Check fuel pump relay =>Page 24-72 |

1) When this fault occurs within three driving cycles (engine running at least 5 seconds) the engine control unit switches on the exhaust warning lamp in dash panel insert. Notes on exhaust warning lamp => Page 24-45.

4) The fault is stored with the relevant signal from airbag control unit.

| Fault code | | Fault readout | Fault remedy |
|------------|-------|---|--|
| SAE | V.A.G | | |
| P1542 | 17950 | Angle sender for throttle valve actuator -G187 Implausible signal 1)3) | - Test angle sender for throttle valve actuator => Page 24-170 |
| P1543 | 17951 | Angle sender for throttle valve actuator -G187 Signal too small 1)3) | |
| P1544 | 17952 | Angle sender for throttle valve actuator -G187 Signal too great 1)3) | |
| P1545 | 17953 | Throttle valve control Malfunction 1)2) | - Check throttle valve control part =>Page 24- 163 |
| P1558 | 17966 | Throttle valve actuator -G186 Electrical fault in circuit 1)3) | - Check throttle valve control part=>Page 24-163 |
| P1559 | 17967 | Throttle valve control part -J338 Fault in basic setting 1) | - Perform adaption =>Page 24- 164 |
| P1564 | 17972 | Throttle valve control part -J338 Undervoltage during basic setting | - Charge battery, repeat basic setting |

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3) With this fault, engine control unit switches on EPC warning lamp in dash panel insert. Notes on EPC warning lamp =>Page 24-161.

| Fault code | | Fault readout | Fault remedy |
|------------|-------|---------------|---------------------------|
| SAE | V.A.G | | |
| | | | - Check throttle valve |

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|-------|-------|--|---|
| P1565 | 17973 | Throttle valve control part -J338 Lower stop not reached 1)3) | control part =>Page 24-163 |
| P1568 | 17976 | Throttle valve control part -J338 Mechanical fault 1)3) | |
| P1569 | 17977 | CCS switch -E45 Implausible signal | => Electrical System 02.99 >; Repair group 01; Self-diagnosis of the cruise control system (CCS) |
| P1570 | 17978 | Engine control unit disabled | - Adapt electronic immobiliser to engine control unit => Electrical System 02.99 >; Repair group 01; Immobiliser III self-diagnosis |
| P1579 | 17987 | Throttle valve control part -J338 Adaption not started | - Perform adaption of throttle valve control part in accordance with requirements => Page 24-164 |

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| Fault code | | Fault readout | Fault remedy |
|------------|-------|---|---|
| SAE | V.A.G | | |
| P1602 | 18010 | Voltage supply, terminal 30 Voltage too low | - Check voltage supply for control unit => Page 28-28 |
| P1603 | 18011 | Control unit defective | - Replace engine control unit =>Page 24-30 |
| P1604 | 18012 | Control unit defective 1)3) | |
| P1606 | 18014 | Rough-road detection/engine specified torque from ABS control unit Electrical fault in circuit | - Check data exchange between engine control unit and other CAN-control units =>Page 24-207 |
| | | | => Body, Self- |

| | | | |
|-------|-------|--|--|
| P1609 | 18017 | Crash cut-off was activated (crash caused) 5) | diagnosis; Repair group 01; Self- diagnosis of airbag system After final control diagnosis of airbag system erase fault memory of the engine control unit =>Page 01-9 |
| P1386 | 17794 | Control unit defective | - Replace engine control unit =>Page 24-30 |

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3) With this fault, engine control unit switches on EPC warning lamp in dash panel insert. Notes on EPC warning lamp =>Page 24-161.

5) The fault is stored with the relevant signal from airbag control unit, also with final control diagnosis of the airbag system.

| Fault code | | Fault readout | Fault remedy |
|------------|-------|--|--|
| SAE | V.A.G | | |
| P1612 | 18020 | Engine control unit incorrectly coded 1) | - Code engine control unit =>Page 01-64 |
| P1624 | 18032 | Request fault lamp on, active 6) | - Exhaust- relevant fault of gearbox control unit |
| P1626 | 18034 | Drive data bus No message from gearbox control unit | - Check data exchange between engine control unit and other CAN-control units =>Page 24-207 |

1) When this fault occurs within three driving cycles (engine running at least 5 seconds) the engine control unit switches on the exhaust warning lamp in dash panel insert. Notes on exhaust warning lamp => Page 24-45.

6) The gearbox control unit has recognised a fault which causes the exhaust emissions of the engine to deteriorate. The fault message is sent by the gearbox control unit to the engine control unit which now switches on the fault lamp for self-diagnosis -K83. Notes on fault lamp for self-diagnosis -K83 => Page 24-45. At the same time the message P1624 is displayed in the engine control unit as an indication that the fault lamp for self-diagnosis -K83 was not switched on due to an engine problem but due to a gearbox problem.

| Fault code | | Fault readout | Fault remedy |
|------------|-------|---------------|--------------|
| SAE | V.A.G | | |
| | | | - Checking |

| | | | |
|-------|-------|---|--|
| P1630 | 18038 | Accelerator position sender -G79 Signal too small 1)3) | accelerator position sender =>Page 24- 176 |
| P1631 | 18039 | Accelerator position sender -G79 Signal too great 1)3) | |
| P1633 | 18041 | Accelerator position sender 2 -G185 Signal too small 1)3) | |
| P1634 | 18042 | Accelerator position sender 2 -G185 Signal too great 1)3) | |
| P1639 | 18047 | Senders 1/2 for accelerator pedal position -G79+G185 Implausible signal 1)3) | |

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| Fault code | | Fault readout | Fault remedy |
|------------|-------|---|---|
| SAE | V.A.G | | |
| P1640 | 18048 | Control unit defective 1) | - Replace engine control unit =>Page 24-30 |
| P1648 | 18056 | Drive data bus defective 1) | - Check data exchange between engine control unit and other CAN-control units =>Page 24-207 |
| P1649 | 18057 | Drive data bus No message from ABS control unit | |
| P1682 | 18090 | Drive data bus Implausible message from ABS control unit | |
| P1853 | 18261 | Drive data bus Implausible message from ABS control unit | |

| Fault code | | Fault readout | Fault remedy |
|------------|-------|---|--|
| SAE | V.A.G | | |
| P1912 | 18320 | Pressure sensor for brake servo -G294 Open circuit / short to positive | - Check pressure sensor for brake servo - G294 |
| P1913 | 18321 | Pressure sensor for brake servo -G294 Short to earth | |
| P1914 | 18322 | Pressure sensor for brake servo -G294 Implausible signal | |
| P3262 | 19718 | Exhaust gas bank 1/2 Lambda probes downstream of catalytic converter interchanged | - Check connections |