

Pin Assignments

X6004

| Pin | Type | Description/Function | Connection | Type of Signal | Tester Display | Measurement Notes |
|-----|------|-------------------------------|--|-------------------------|-----------------------|------------------------|
| 1 | Α | 5 V (not short-circuit-proof) | PWG switch | approx. 5 V | None | |
| 2 | М | Ground (electronic ground) | Component ground PWG | | | |
| 3 | | Not used | | | | |
| 4 | E | DK angle reduction (DKR) | ASC control unit | Square – wave signal | Defect code is stored | ◆ M ◆14 approx. 100 Hz |
| 5 | Α | Full load signal | DME control unit 16, cylinder | approx. 0 V open | ON OFF | |
| 6 | A | Idle signal | DME control unit 16, cylinder | approx. 0 V open | ON OFF | |
| 7 | E | PWG position | PWG potentiometer | approx. 0,4 V to 4 V | Angle | |
| 8 | Ε | Road speed signal | EKM control unit | Square-wave signal | None | ◆ M ◆14 |
| 9 | Α | 5 V (not short-circuit-proof) | PWG potentiometer | approx. 5 V | None | |
| 10 | М | Ground (electronic ground) | Component ground DK – 712. cylinder | | | |
| 11 | Α | 5 V (not-short-circuit-proof) | DK potentiometer DK 712. cylinder | approx. 5 V | None | |
| 12 | Α | 5 V (not-short-circuit-proof) | DK potentiometer DK 16. cylinder | approx. 5 V | None | |

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| 13 | E | Diagnosis | Diagnostic socket RxD | | | |
| 14 | M | Ground (Output ground) | Output ground DK 16. cylinder | | | |
| 15 *) | A E | EML warning lamp Voltage supply for defect code memory | Instrument cluster | approx. 0 V approx. 12 V | ON None | *) With ignition switched off |
| 16 | Α | Drive throttle (DK) actuator | DK actuator DK - 712. cylinder | Square – wave signal | Defect code is stored | |
| 17 | А | Drive throttle (DK) actuator | DK actuator DK 16. cylinder | Square – wave signal | Defect code is stored | |
| 18 | E | Voltage supply (+) | DME main relay 2 712. cylinder | On-board voltage | None | |
| 19 | М | Ground | Ground point | | | |
| 20 | Α | Kick-down signal | EGS control unit | approx. 0 V approx. 12 V | ON OFF | |
| 21 | | Not used | | | | |
| 22 | E | DK angle increase (DKE) | ASC control unit | Square – wave signal | Defect code is stored | ◆ M ◆ 14 approx. 100 Hz |
| 23 | Α | DK angle signal (DKV) | ASC/EGS | Square – wave signal | Defect code is stored | ♦ M ♦ 14 approx. 100 Hz |
| 24 | | Not used | | | | · |
| 25 | · · · · · · · · · · · · · · · · · · · | Not used | ······································ | | | |
| 26 | М | Ground (electronic ground) | Component ground DK 16. cylinder | | The state of the s | |
| 27 | E | Throttle position | DK potentiometer DK 16. cylinder | approx. 4,6 V to 1 V | Angle | |

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| 28 | Ē | Throttle position | DK potentiometer DK 712. cylinder | approx. 4,6 V to 1 V | Angle | |
| 29 | - 1, | Not used | | | | |
| 30 | M | Ground (output ground) | Output ground DK – 712. cylinder | | | |
| 31 | M | Ground (electronic ground) | Water temperature sensor | | | |
| 32 | Α | ldle signal | DME control unit 712. cylinder | approx. 0 V open | ON OFF | |
| 33 | А | Full load signal | DME control unit 712. cylinder | approx. 0 V open | ON OFF | |
| 34 | Α | Drive throttle (DK) actuator | DK actuator DK 712. cylinder | Square – wave signal | Defect code is stored | |
| 35 | Α | Drive throttle (DK) actuator | DK actuator DK 16. cylinder | Square – wave signal | Defect code is stored | |
| 36 | E | Voltage supply (+) | DME main relay 2 712. cylinder | On-board voltage | None | |
| 37 | E | Voltage supply (+) | DME main relay 2 712. cylinder | On-board voltage | None | |
| 38 | E | Throttle 170 switch | DK switch DK 16, cylinder | approx. 5 V open | ON OFF | |
| 39 | | Not used | | | | , |
| 40 | E | Throttle 170 switch | DK switch DK — 712. cylinder | approx. 5 V open | ON OFF | |
| 41 | E | A/C compressor ON | Lock sensor | On-board voltage open | ON OFF | |

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| 42 | E | P and N identifier (EGS) | Gear selector lever switch | approx. 12 V open | ON OFF | |
| 43 | E/A | FGR identifier | Cruise control switch | approx. 0 V to 5 V | Detected position | |
| 44 | Е | A/C status signal | A/C relay/DME | approx. 12 V open | ON OFF | |
| 45 | E/A | Engine-coolant temperature | TMot EML sensor | approx. 0 V to 5 V | øC | |
| 46 | E | PWG > 9° switch | PWG switch | approx. 5 V open | ON OFF | |
| 47 | E | Engine speed signal (TD) | DME control unit 16. cylinder | Square-wave signal | None | |
| 48 | | Not used | | | | |
| 49 | E | Injection signal (ti) | DME control unit 16. cylinder | Square-wave signal | Defect code is stored | |
| 50 | Ε | Injection signal (ti) | DME control unit 712. cylinder | Square – wave signal | Defect code is stored | |
| 51 | | Not used | | | | ······································ |
| 52 | E | S-program identifier (EGS) | EGS control unit | ca. 0 V open | ON OFF | |
| 53 | E | Brake pedal position | Brake light switch | approx. 12 V open | ON OFF | |
| 54 | E | Clutch pedal position | Clutch switch | | | |
| 55 | E/A | Diagnosis | Diagnostic socket TxD | | | · · · · · · · · · · · · · · · · · · · |

E = Input, A = Output, M = Ground