

Contents

| | | |
|-----------|---|-----------|
| 23 | Mixture preparation - injection | 1 |
| 1 | Servicing diesel direct injection system | 1 |
| 1.1 | Safety precautions when using testers and measuring instruments during a road test | 1 |
| 1.2 | Safety precautions when working on the fuel supply system | 1 |
| 1.3 | Safety precautions when working on the cooling system | 1 |
| 1.4 | Safety precautions when working on the exhaust system | 2 |
| 1.5 | Rules for cleanliness | 3 |
| 1.6 | Overview of fitting locations - injection system | 3 |
| 1.7 | Exploded view - air cleaner housing | 12 |
| 1.8 | Removing and installing air filter element | 14 |
| 1.9 | Removing and installing air mass meter G70 | 16 |
| 1.10 | Exploded view - intake manifold | 17 |
| 1.11 | Removing and installing intake manifold | 19 |
| 1.12 | Removing and installing engine speed sender G28 | 21 |
| 1.13 | Removing and installing sender wheel for engine speed sender G28 | 22 |
| 1.14 | Exploded view - unit injectors | 22 |
| 1.15 | Removing and installing unit injectors | 24 |
| 1.16 | Renewing O-rings for unit injectors | 29 |
| 1.17 | Cleaning unit injectors (BRD, BVA) | 31 |
| 1.18 | Exploded view - electrical wiring harness for unit injectors and glow plugs | 33 |
| 1.19 | Removing and installing electrical wiring harness for unit injectors and glow plugs | 34 |
| 1.20 | Removing and installing engine control unit | 36 |
| 1.21 | Removing and installing Lambda probe G39 with Lambda probe heater Z19 | 40 |
| 1.22 | Removing and installing exhaust gas pressure sensor 1 G450 | 43 |
| 28 | Glow plug system | 44 |
| 1 | Glow plug system | 44 |
| 1.1 | Different types of glow plugs | 44 |
| 1.2 | Removing and installing ceramic glow plugs | 44 |
| 1.3 | Removing and installing metal glow plugs | 47 |
| 1.4 | Removing and installing engine speed sender G28 | 47 |