

## Diagnosis – Complaint Related Diagnostic Chart

### Instrument Cluster

| Complaint/Problem   | Possible cause  | Remedy/Test step <sup>1)</sup>                             |
|---|---|--|
| Entire instrument cluster (A1) not functioning.   | Power supply,<br>Instrument cluster (A1)  | <b>up to 08/95</b> 23 ⇒ 1.0<br><b>as of 09/95</b> 24 ⇒ 1.0 |
| Indicator lamps for ABS, ASR, charge control, brake pad wear, brake fluid, parking brake and ADS are not functioning. | Power supply,<br>Instrument cluster (A1)  | <b>up to 08/95</b> 23 ⇒ 1.0<br><b>as of 09/95</b> 24 ⇒ 1.0 |
| Rhythmic blinking of warning and indicator lamps in one second intervals  | Short circuit in instrument cluster (A1).   | <b>up to 08/95</b> 23 ⇒ 1.0<br><b>as of 09/95</b> 24 ⇒ 1.0 |
| Non rhythmic blinking of warning and indicator lamps  | Low voltage at instrument cluster (A1).   | <b>up to 08/95</b> 23 ⇒ 1.0<br><b>as of 09/95</b> 24 ⇒ 1.0 |
| Instrument cluster illumination not operating.  | Bulbs,<br>Exterior lamp switch (S1),<br>Instrument cluster (A1).                                | <b>up to 08/95</b> 23 ⇒ 2.0<br><b>as of 09/95</b> 24 ⇒ 2.0 |
| Warning lamps for ABS, ETS/ASR/ESP brake pad wear, brake fluid/parking brake do not go out after engine is started.   | Instrument cluster (A1).<br>Traction system control module (N47)                                | <b>as of 09/95</b> 24 ⇒ 3.0                                |
| Fuel tank gauge (A1p2) inaccurate or not operating.   | Instrument cluster (A1),<br>Fuel level sensor (B4).   | <b>up to 08/95</b> 23 ⇒ 3.0<br><b>as of 09/95</b> 24 ⇒ 4.0 |
| Fuel consumption gauge (A1p10) inaccurate or not operating.   | Instrument cluster (A1),<br>Fuel consumption signal from LH-SFI, HFM-SFI, ME-SFI control module | <b>up to 08/95</b> 23 ⇒ 4.0<br><b>as of 09/95</b> 24 ⇒ 5.0 |
| Engine oil pressure gauge (A1p3) inaccurate or not operating.   | Oil pressure sensor (B5),<br>Instrument cluster (A1).   | <b>up to 08/95</b> 23 ⇒ 5.0<br><b>as of 09/95</b> 24 ⇒ 6.0 |

<sup>1)</sup> Observe Preparation for Test, see 22.

## Diagnosis – Complaint Related Diagnostic Chart

### Instrument Cluster (continued)

| Complaint/Problem  | Possible cause  | Remedy/Test step <sup>1)</sup>                               |
|--|---|--|
| Tachometer (A1p5) inaccurate or not operating.                             | Instrument cluster (A1),<br>TN-signal.  | <b>up to 08/95</b> 23 ⇒ 6.0<br><b>as of 09/95</b> 24 ⇒ 7.0   |
| Low engine oil level indicator lamp (A1e12) lights up but oil level is OK. | Oil level switch S43.   | <b>up to 08/95</b> 23 ⇒ 7.0<br><b>as of 09/95</b> 24 ⇒ 8.0   |
| Electronic speedometer (A1p8) inaccurate or not operating.                 | Instrument cluster (A1),<br>Transmission inductive speed sensor (L2),<br>Vehicle speed signal from traction system control module (N47) | <b>up to 08/95</b> 23 ⇒ 8.0<br><b>as of 09/95</b> 24 ⇒ 9.0   |
| Outside temperature display (A1p4) inaccurate or not operating.            | Instrument cluster (A1),<br>Outside temperature indicator temperature sensor (B14).   | <b>up to 08/95</b> 23 ⇒ 9.0<br><b>as of 09/95</b> 24 ⇒ 10.0  |
| ECT gauge (A1p1) inaccurate or not operating.                              | Instrument cluster (A1),<br>ECT gauge sensor (B13)  | <b>up to 08/95</b> 23 ⇒ 10.0<br><b>as of 09/95</b> 24 ⇒ 11.0 |

<sup>1)</sup> Observe Preparation for Test, see 22.