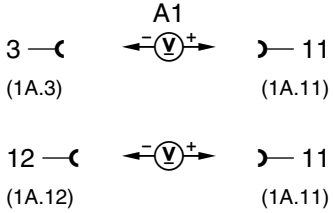
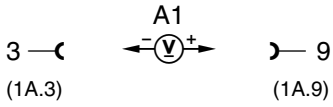
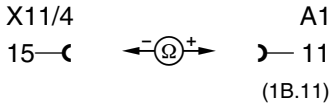
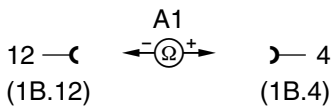


## 1.14 Instrument Cluster (IC)

## Models 202 (as of 6/97), Models 208, 210 (as of 3/97) with FSS






### Electrical Test Program – Test

| ⇒   | Test scope                                                                                                         | Test connection                                                                     | Test condition                                                                                                                                    | Nominal value | Possible cause/Remedy                                                                                            |
|-----|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------|
| 1.0 | <b>Instrument cluster (A1)</b><br>Voltage supply<br>Terminal 30                                                    |    | Ignition: <b>OFF</b><br>Remove instrument cluster (A1)<br>Disconnect connector 1 (30-pin)                                                         | 11 – 14 V     | Model 202: fuse 30<br>Model 208: fuse 26<br>Model 210: fuse 4<br>in fuse and relay box (F1),<br>Wiring,<br>⇒ 1.1 |
| 1.1 | Voltage supply<br>Terminal 15                                                                                      |    | Ignition: <b>ON</b>                                                                                                                               | 11 – 14 V     | Model 202: fuse 19<br>Model 208: fuse 19<br>Model 210: fuse 7<br>in fuse and relay box (F1),<br>Wiring,<br>A1    |
| 2.0 | <b>HHT interface</b><br>Connection between A1 and data link connector (X11/4)                                      |   | Ignition: <b>OFF</b><br>Remove A1,<br>Disconnect connector 1 (30-pin)                                                                             | 5 Ω           | Wiring.                                                                                                          |
| 3.0 | <b>ECL and windshield washer level:</b><br>ECL level switch (S41), windshield washer level switch (S42) and wiring |  | Ignition: <b>OFF</b><br>Coolant level and windshield washer fluid level: OK<br>Remove instrument cluster (A1)<br>Disconnect connector 1 (30 pin). | 233 - 297 Ω   | Wiring<br>⇒ 3.1<br>Values O.K.:<br>A1                                                                            |

## 1.14 Instrument Cluster (IC)

## Models 202 (as of 6/97), Models 208, 210 (as of 3/97) with FSS

### Electrical Test Program – Test

| ⇒   | Test scope                                                  | Test connection                                                                                             | Test condition                                                                                       | Nominal value | Possible cause/Remedy                                  |
|-----|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------------------|
| 3.1 | ECL switch (S41)<br>Resistance                              | 1 —  — 2                   | Ignition: <b>OFF</b><br>Remove expansion tank<br>Disconnect connector at<br>S41.<br>Coolant level OK | 102 - 120 Ω   | S41<br>Values O.K.:<br>⇒ 3.2                           |
| 3.2 | Windshield washer fluid level<br>switch (S42)<br>Resistance | 1 —  — 2                   | Ignition: <b>OFF</b><br>Disconnect connector at<br>S42.<br>Washer fluid level OK                     | 145 - 185 Ω   | S42                                                    |
| 4.0 | <b>CAN bus data lines</b><br>Resistance                     | 1 —  — 2<br>(2B.1) (2B.20) | Ignition: <b>OFF</b><br>Disconnect connector 1<br>(All control modules are<br>connected to CAN)      | around 60 Ω   | CAN: —//—, □ □ —<br>N47<br>N3<br>Values O.K.:<br>⇒ 4.1 |
| 4.1 | CAN bus data lines<br>Voltage Low-data line                 |  — 2<br>A1<br>(2B.1)     | Ignition: <b>ON</b>                                                                                  | around 2.3 V  | N47<br>N3<br>Values O.K.:<br>⇒ 4.2                     |
| 4.2 | CAN bus data lines<br>Voltage High-data line                |  — 2<br>A1<br>(2B.20)    | Ignition: <b>ON</b>                                                                                  | around 2.6 V  | N47<br>N3                                              |