

## 5.4 Loudspeaker Systems (LS)

Model 140, up to M.Y. 1993

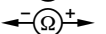
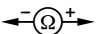
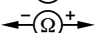
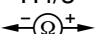
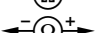
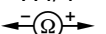
### Electrical Test Program – Test

| ⇒   | Test scope                                                        | Test connection | Test condition                                                              | Nominal value                                          | Possible cause/Remedy                                                                         |
|-----|-------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 1.0 | <b>Left/right audio power amplifier (N40/3)</b><br>Voltage supply |                 | Radio (A2): <b>OFF</b><br>Disconnect N40/3.                                 | 11 – 14 V                                              | Fuse F4-16,<br>Ground (W6),<br>Wiring,<br>⇒ 1.1,<br>If nominal value is OK:<br>Replace N40/3. |
| 1.1 | Control voltage from<br>tuner/amplifier (A2/3)                    |                 | Disconnect N40/3.<br>Radio: <b>ON</b>                                       | 11 – 14 V                                              | Wiring,<br>A2/3 (see 3 volume DM, EC&B,<br>section EB-03).                                    |
| 1.2 | Noise-frequency (line-out) signal from<br>tuner/amplifier (A2/3)  |                 | Disconnect N40/3.<br>Turn volume control to<br>maximum.<br>Radio: <b>ON</b> | 2.0 V<br>A momentary<br>lower value is<br>permissible. | Wiring,<br>A2/3 (see 3 volume DM, EC&B,<br>section EB-03).                                    |

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| ⇒   | Test scope                                   | Test connection                                                                                                                                                                                                                                                                                       | Test condition                              | Nominal value             | Possible cause/Remedy                                           |
|-----|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------|-----------------------------------------------------------------|
| 2.0 | <b>Left front door speaker group (H4/1)</b>  | H4/1<br>8 —  — 17<br>11 —  — 8<br>11 —  — 17       | Radio (A2): <b>OFF</b><br>Disconnect N40/3. | 0.7 – 1.2 Ω<br>∞ Ω<br>∞ Ω | Wiring,<br>H4/1,<br>If nominal values are OK:<br>Replace N40/3. |
| 3.0 | <b>Right front door speaker group (H4/2)</b> | H4/2<br>7 —  — 16<br>11 —  — 7<br>11 —  — 16       | Radio (A2): <b>OFF</b><br>Disconnect N40/3. | 0.7 – 1.2 Ω<br>∞ Ω<br>∞ Ω | Wiring,<br>H4/2,<br>If nominal values are OK:<br>Replace N40/3. |
| 4.0 | <b>Left rear door speaker (H4/3)</b>         | H4/3<br>6 —  — 15<br>11 —  — 6<br>11 —  — 15       | Radio (A2): <b>OFF</b><br>Disconnect N40/3. | 3.0 – 4.5 Ω<br>∞ Ω<br>∞ Ω | Wiring,<br>H4/3,<br>If nominal values are OK:<br>Replace N40/3. |
| 5.0 | <b>Right rear door speaker (H4/4)</b>        | H4/4<br>5 —  — 14<br>11 —  — 5<br>11 —  — 14 | Radio (A2): <b>OFF</b><br>Disconnect N40/3. | 3.0 – 4.5 Ω<br>∞ Ω<br>∞ Ω | Wiring,<br>H4/4,<br>If nominal values are OK:<br>Replace N40/3. |

## Electrical Test Program – Test

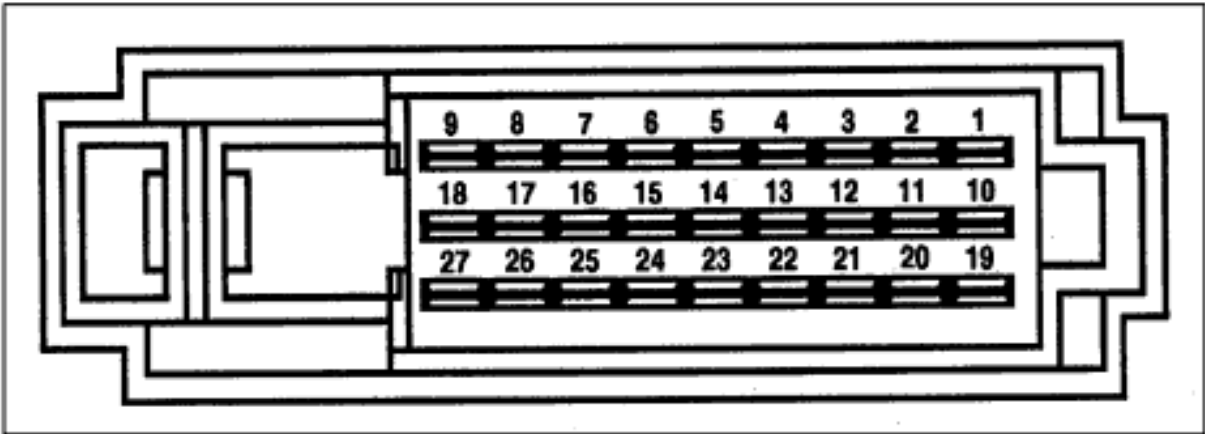
| ⇒   | Test scope                                                                            | Test connection                                                                                                                                                                                                                                                                                          | Test condition                                                 | Nominal value             | Possible cause/Remedy                                            |
|-----|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------|------------------------------------------------------------------|
| 6.0 | <b>Left rear door speaker group (H4/7)</b>                                            | H4/7<br>4 —  — 13<br>11 —  — 4<br>11 —  — 13          | Radio (A2): <b>OFF</b><br>Disconnect N40/3.                    | 0.4 – 1.5 Ω<br>∞ Ω<br>∞ Ω | Wiring,<br>⇒ 6.1,<br>If nominal values are OK:<br>Replace N40/3. |
| 6.1 | <b>Left rear door speaker group (H4/7)</b><br>Individual speakers (H4/7h1 or H4/7h2)  | H4/7h1<br>or<br>H4/7h2<br>—  —                                                                                                                                                                                          | Radio (A2): <b>OFF</b><br>Disconnect speaker group connectors. | 1.8 – 2.4 Ω               | H4/7h1 or H4/7h2.                                                |
| 7.0 | <b>Right rear door speaker group (H4/8)</b>                                           | H4/8<br>3 —  — 12<br>11 —  — 3<br>11 —  — 12          | Radio (A2): <b>OFF</b><br>Disconnect N40/3.                    | 0.4 – 1.5 Ω<br>∞ Ω<br>∞ Ω | Wiring,<br>⇒ 7.1,<br>If nominal values are OK:<br>Replace N40/3. |
| 7.1 | <b>Right rear door speaker group (H4/8)</b><br>Individual speakers (H4/8h1 or H4/8h2) | H4/8h1<br>or<br>H4/8h2<br>—  —                                                                                                                                                                                        | Radio (A2): <b>OFF</b><br>Disconnect speaker group connectors. | 1.8 – 2.4 Ω               | H4/8h1 or H4/8h2.                                                |
| 8.0 | <b>Center fill tweeter speaker (H4/11)</b>                                            | H4/11<br>25 —  — 26<br>11 —  — 25<br>11 —  — 26 | Radio (A2): <b>OFF</b><br>Disconnect N40/3.                    | 3.5 – 5.0 Ω<br>∞ Ω<br>∞ Ω | Wiring,<br>H4/11,<br>If nominal values are OK:<br>Replace N40/3. |

## Electrical Test Program – Test

| ⇒   | Test scope                | Test connection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Test condition                                                                                                                                                                                      | Nominal value                                                                                                                                                                                               | Possible cause/Remedy                                                    |
|-----|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| 9.0 | <b>Fader switch (R26)</b> | <p style="text-align: center;">N40/3</p> <p>20 —  — 21       — 21</p> <p>21 —  — 22       — 22</p> <p>20 —  — 22       — 22</p><br><p>11 —  — 21       — 21</p> <p>11 —  — 22       — 22</p> <p>11 —  — 20       — 20</p> | <p>Radio (A2): <b>OFF</b><br/>Disconnect N40/3.</p> <p>R26 in center position.</p> <p>R26 in center position.</p> <p>Vary position of R26 from stop -to-stop.</p><br><p>R26 in center position.</p> | <p>10 k <math>\Omega</math></p> <p>5 k <math>\Omega</math></p> <p>0 – 10 k <math>\Omega</math></p><br><p><math>\infty \Omega</math></p> <p><math>\infty \Omega</math></p> <p><math>\infty \Omega</math></p> | <p>Wiring,<br/>R26,<br/>If nominal values are OK:<br/>Replace N40/3.</p> |

Electrical Test Program – Test

Connector Layout - Left/right audio power amplifier (N40/3)



M82-N40.3-SR

|   |                                           |    |                                           |    |                                         |
|---|-------------------------------------------|----|-------------------------------------------|----|-----------------------------------------|
| 1 | Circuit 30, F4-16                         | 10 | Circuit 30, F4-16                         | 19 | Control voltage from A2/3               |
| 2 | Ground (W6)                               | 11 | Ground (W6)                               | 20 | Fader switch (R26) (–)                  |
| 3 | Right rear speaker (H4/8) (–)             | 12 | Right rear speaker (H4/8) (+)             | 21 | Fader switch (R26) (+)                  |
| 4 | Left rear speaker (H4/7) (–)              | 13 | Left rear speaker (H4/7) (+)              | 22 | Fader switch (R26)                      |
| 5 | Right rear door speaker (H4/4) (–)        | 14 | Right rear door speaker (H4/4) (–)        | 23 | –                                       |
| 6 | Left rear door speaker (H4/3) (–)         | 15 | Left rear door speaker (H4/3) (+)         | 24 | Right NF signal (–) from A2/3           |
| 7 | Right front door speaker group (H4/2) (–) | 16 | Right front door speaker group (H4/2) (+) | 25 | Center fill tweeter speaker (H4/11) (–) |
| 8 | Left front door speaker group (H4/1) (–)  | 17 | Left front door speaker group (H4/1) (+)  | 26 | Center fill tweeter speaker (H4/11) (+) |
| 9 | Right NF signal (+) from A2/3             | 18 | Left NF signal (–) from A2/3              | 27 | Left NF signal (+) from A2/3            |