










5.13 Loudspeaker System (LS)

Model 208 with Sound System


















Electrical Test Program – Test

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0	Left/right audio power amplifier (N40/3) Voltage supply	9 —  — 26 N40/3	Disconnect connector from N40/3. Radio (A2): OFF	11 – 14 V	Fuse 12 in fuse and relay box (F1), Fuse in N40/3, Ground (W6, W7), Wiring, Values OK: ⇒ 1.1
1.1	Control voltage from radio (A2)	9 —  — 8 N40/3	Disconnect connector from N40/3. Radio (A2): ON	11 – 14 V	Wiring, Loudspeaker signal from radio (A2) Values OK: ⇒ 2
2.0	Left/right audio power amplifier (N40/3) Loudspeaker signal from radio (A2)	<p>Left front: 10 —  — 18</p> <p>Right front: 1 —  — 2</p> <p>Left rear: 3 —  — 5</p> <p>Right rear: 4 —  — 6</p> <p>N40/3</p>	Disconnect connector from N40/3. Radio (A2): ON Turn volume control to maximum.	> 0.2 V Short voltage surges permitted	Wiring, Radio (A2), see 3.1 23, AD82.60 in WIS
3.0	Left door speaker (H4/5)	<p>15 —  — 23</p> <p>9 —  — 15</p> <p>9 —  — 23</p> <p>H4/5</p>	Disconnect connector from N40/3. Radio (A2): OFF	1.5 – 2.5 Ω ∞ Ω ∞ Ω	Wiring, Connectors, H4/5 Values OK: N40/3

5.13 Loudspeaker System (LS)

Model 208 with Sound System
















Electrical Test Program – Test

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
4.0	Left front door speaker group (H4/1)	<p>H4/1</p> <p>9 —  —  — 13</p> <p>9 —  —  — 21</p> <p>21 —  —  — 13</p>	<p>Disconnect connector from N40/3.</p> <p>Connect function generator and set a frequency of 100 to 10,000 Hz with a voltage amplitude of 2 V.</p> <p>Radio (A2): OFF</p> <p></p> <p>Voltage amplitude changes result in volume changes; Frequency changes result in tone changes.</p>	<p>$\infty \Omega$</p> <p>$\infty \Omega$</p> <p>The set frequency can be heard via the speakers.</p>	<p>H4/1</p> <p>Wiring,</p> <p>Connectors,</p> <p>Values OK:</p> <p>N40/3</p>
5.0	Left rear speaker (H4/7) Model 208.3	<p>H4/7</p> <p>12 —  —  — 20</p> <p>9 —  —  — 12</p> <p>9 —  —  — 20</p>	<p>Disconnect connector from N40/3.</p> <p>Radio (A2): OFF</p>	<p>1.5 – 2.5 Ω</p> <p>$\infty \Omega$</p> <p>$\infty \Omega$</p>	<p>H4/7</p> <p>Wiring,</p> <p>Values OK:</p> <p>N40/3</p>
6.0	Right door speaker (H4/6)	<p>H4/6</p> <p>17 —  —  — 25</p> <p>9 —  — 17</p> <p>9 —  — 25</p>	<p>Disconnect connector from N40/3.</p> <p>Radio (A2): OFF</p>	<p>1.5 – 2.5 Ω</p> <p>$\infty \Omega$</p> <p>$\infty \Omega$</p>	<p>Wiring,</p> <p>Connectors,</p> <p>H4/6</p> <p>Values OK:</p> <p>N40/3</p>

5.13 Loudspeaker System (LS)

Model 208 with Sound System

Electrical Test Program – Test

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
7.0	Right front door speaker group (H4/1)	<p>H4/2</p> <p>9 —  —  — 14</p> <p>9 —  —  — 22</p> <p>14 —  —  — 22</p>	<p>Disconnect connector from N40/3.</p> <p>Connect function generator and set a frequency of 100 to 10,000 Hz with a voltage amplitude of 2 V.</p> <p>Radio (A2): OFF</p> <p></p> <p>Voltage amplitude changes result in volume changes; Frequency changes result in tone changes.</p>	<p>$\infty \Omega$</p> <p>$\infty \Omega$</p> <p>The set frequency can be heard via the speakers.</p>	<p>H4/2</p> <p>Wiring,</p> <p>Connectors,</p> <p>Values OK:</p> <p>N40/3</p>
8.0	Right rear speaker (H4/8) Model 208.3	<p>H4/8</p> <p>11 —  —  — 19</p> <p>9 —  —  — 11</p> <p>9 —  —  — 19</p>	<p>Disconnect connector from N40/3.</p> <p>Radio (A2): OFF</p>	<p>1.5 – 2.5 Ω</p> <p>$\infty \Omega$</p> <p>$\infty \Omega$</p>	<p>H4/8.</p> <p>Wiring,</p> <p>Values OK:</p> <p>N40/3</p>
9.0	Subwoofer speaker (H4/29) Model 208.4	<p>H4/29</p> <p>—  —  — —</p>	<p>Radio (A2): OFF</p> <p>Remove speaker and disconnect speaker connector (H4/29x1).</p> <p>Measure directly on speaker.</p>	<p>around 4 Ω</p>	<p>H4/29.</p> <p>Values OK:</p> <p>Wiring,</p> <p>Connectors,</p> <p>N40/3</p>

Electrical Test Program – Component Locations

Connections on back of Radio

Figure 1

A

- 1 Speed-sensitive volume control
- 2 Diagnostic connection (as of MY 1998)
- 3 Muting for telephone system
- 4 Battery voltage (circuit 30)
- 5 Automatic antenna control output, FM/AM amplifier voltage supply and control signal for sound system control module
- 6 Illumination (circuit 58)
- 7 Switched battery power (circuit 15)
- 8 Ground (circuit 31)

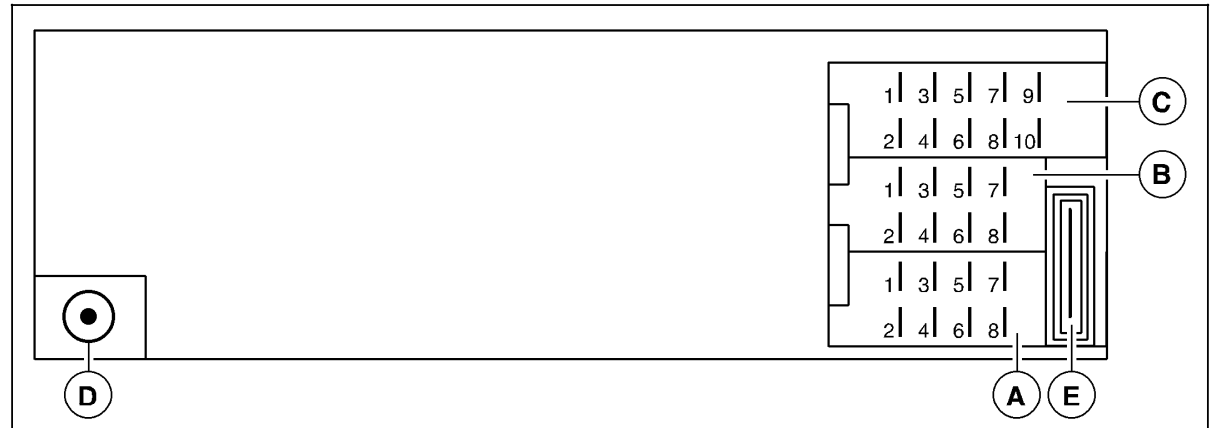
B

- 1 Right rear loudspeaker +
- 2 Right rear loudspeaker –
- 3 Right front loudspeaker +
- 4 Right front loudspeaker –
- 5 Left front loudspeaker +
- 6 Left front loudspeaker –
- 7 Left rear loudspeaker +
- 8 Left rear loudspeaker –

C Connector for CD changer, coding (via wiring harness)

D Antenna jack

E Fuse



P82.60-0238-04