

5.1 Model 202 (with Standard Loudspeaker System)

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Diagnosis – Function Test

Function Test Explanation

For the Function Test, adjust the radio as follows:

- Tune-in a strong radio station (music), or play a cassette or CD.
- Set fader, bass, treble and balance to position 0 (reading in display window).
- Listen to each individual loudspeaker at the various locations.

Diagnosis – Complaint Related Diagnostic Chart

Complaint/Problem	Possible cause	Test step/Remedy ¹⁾
Left front door speaker (H4/5) not functioning	H4/5 Radio (A2)	23 ⇒ 1.0
Left front speaker (H4/9) not functioning	H4/9 Radio (A2)	23 ⇒ 2.0
Left rear door speaker (H4/3) not functioning	H4/3 Radio (A2)	23 ⇒ 3.0
Left rear speaker (H4/7) not functioning	H4/7 Radio (A2)	23 ⇒ 4.0
Right front door speaker (H4/6) not functioning	H4/6 Radio (A2)	23 ⇒ 5.0
Right front speaker (H4/10) not functioning	H4/10 Radio (A2)	23 ⇒ 6.0
Right rear door speaker (H4/4) not functioning	H4/4 Radio (A2)	23 ⇒ 7.0
Right rear speaker (H4/8) not functioning	H4/8 Radio (A2)	23 ⇒ 8.0

¹⁾ Observe Preparation for Test, see 22.

Electrical Test Program – Component Locations

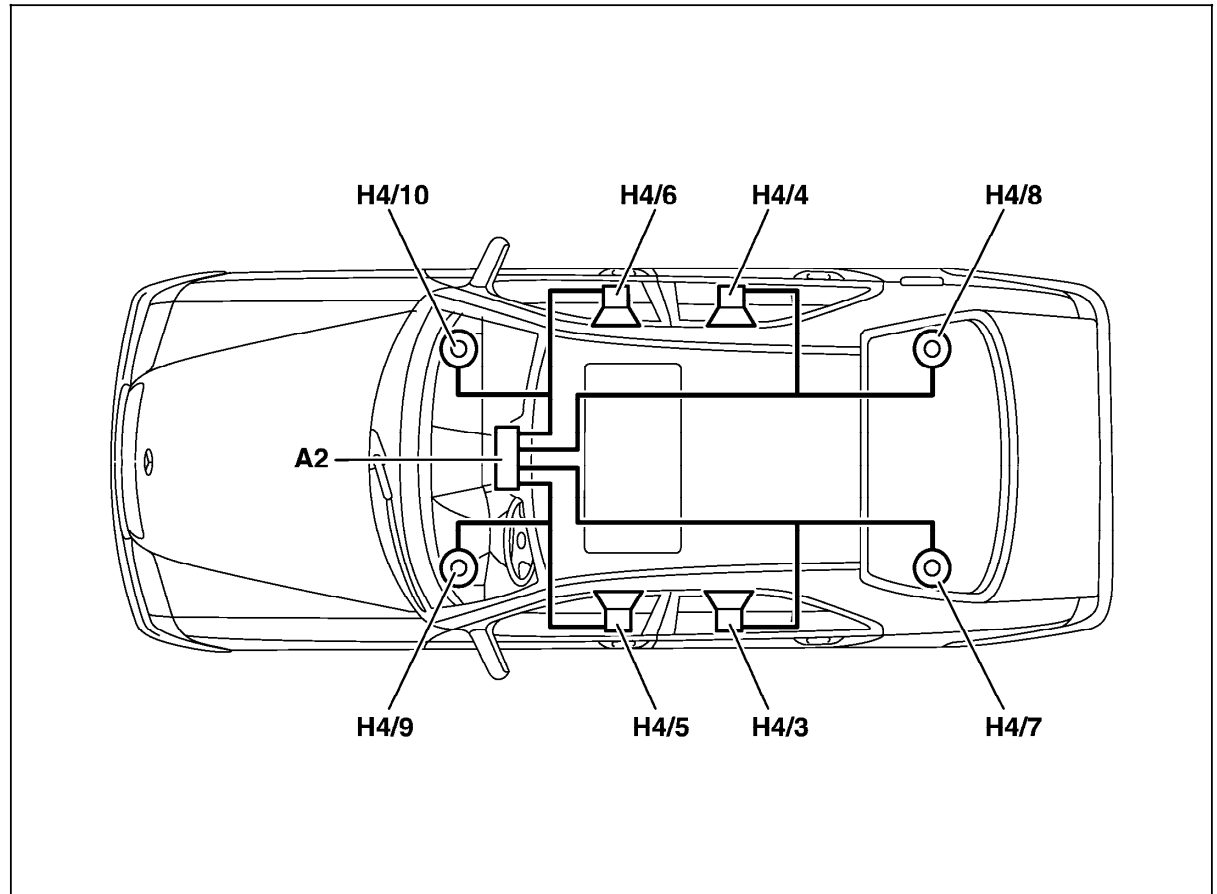


Figure 1
 Front loudspeaker system
 A2 Radio
 H4/3 Left rear door speaker
 H4/4 Right rear door speaker
 H4/5 Left front door speaker
 H4/6 Right front door speaker
 H4/7 Left rear speaker
 H4/8 Right rear speaker
 H4/9 Left front speaker
 H4/10 Right front speaker

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Electrical Test Program – Preparation for Test

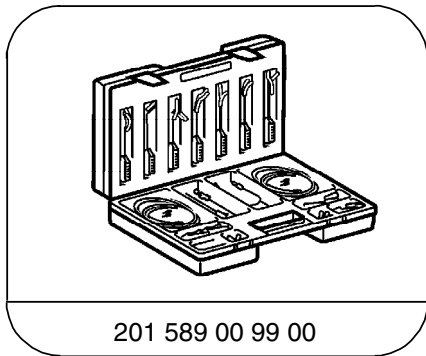
1. Battery voltage 11–14 V.
2. Check fuses.
3. Radio OK.

Electrical wiring diagrams :
 Electrical Troubleshooting Manual, Model 202

Note:

To prevent damage to the radio, the connectors must only be removed or installed with the ignition and radio **OFF**.

Special Tools



201 589 00 99 00

Electrical connecting set

Conventional tools, test equipment

Description	Brand, model, etc.
Multimeter ¹⁾	Fluke Models 23, 77 III, 83, 85, 87, 88
Signal generator ¹⁾	SUN DTR-8416

¹⁾ Available through the MBUSA Standard Equipment Program.

Electrical Test Program – Test

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0	Left front door speaker (H4/5)		Remove radio (A2) Disconnect connector B (Figure 1)	3.5– 4.5 Ω	Wiring, Connectors, H4/5 Values OK: A2, ⇒ 3.1 23 or AD82.60 in WIS
2.0	Left front speaker (H4/9)		Remove radio (A2) Remove speaker and disconnect speaker connector (X4/9x1). Measure directly on speaker between speaker coil and capacitor (Figure 2).	7.5– 8.5 Ω	H4/5 Values OK: Wiring, Connectors, A2, ⇒ 3.1 23 or AD82.60 in WIS
3.0	Left rear door speaker (H4/3)		Remove radio (A2) Disconnect connector B (Figure 1)	3.5 – 4.5 Ω	Wiring, Connectors, H4/3 Values OK: A2, ⇒ 3.1 23 or AD82.60 in WIS

Electrical Test Program – Test

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
4.0	Left rear speaker (H4/7)	<p>H4/7 ←⊖⊕→</p>	Remove radio (A2) Remove speaker and disconnect speaker connector (X4/9x1). Measure directly on speaker (Figure 2).	3.5– 4.5 Ω	H4/7 Values OK: Wiring, Connectors, A2, ⇒ 3.1 23 or AD82.60 in WIS
5.0	Right front door speaker (H4/6)	<p>H4/6 ←⊖⊕→</p> <p>4 — (B.4) 3 — (B.3)</p>	Remove radio (A2) Disconnect connector B (Figure 1)	3.5– 4.5 Ω	Wiring, Connectors, H4/6 Values OK: A2, ⇒ 3.1 23 or AD82.60 in WIS
6.0	Right front speaker (H4/10)	<p>H4/10 ←⊖⊕→</p>	Remove radio (A2) Remove speaker (H4/10) and disconnect speaker connector (X4/9x1). Measure directly on speaker between speaker coil and capacitor (Figure 2).	7.5 – 8.5 Ω	H4/10. Values OK: Wiring, Connectors, A2, ⇒ 3.1 23 or AD82.60 in WIS

Electrical Test Program – Test

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
7.0	Right rear door speaker (H4/4)		Remove radio (A2) Disconnect connector B (Figure 1)	3.5– 4.5 Ω	Wiring, Connectors, H4/4 Values OK: A2, ⇒ 3.1 23 or AD82.60 in WIS
8.0	Right rear speaker (H4/8)		Remove radio (A2) Remove speaker and disconnect speaker connector (X4/8x1). Measure directly on speaker (Figure 2).	3.5 – 4.5 Ω	H4/8. Values OK: Wiring, Connectors, A2, ⇒ 3.1 23 or AD82.60 in WIS

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)

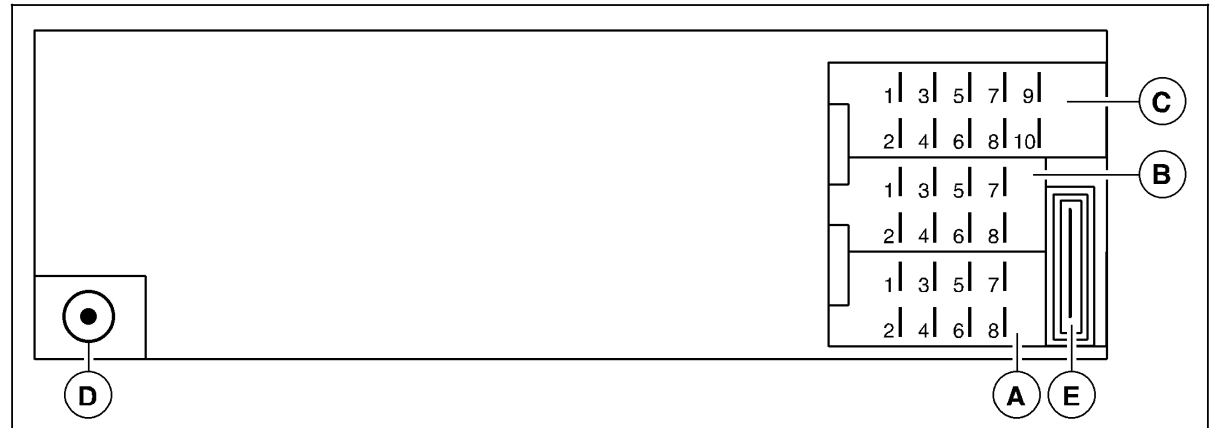
B

- 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)

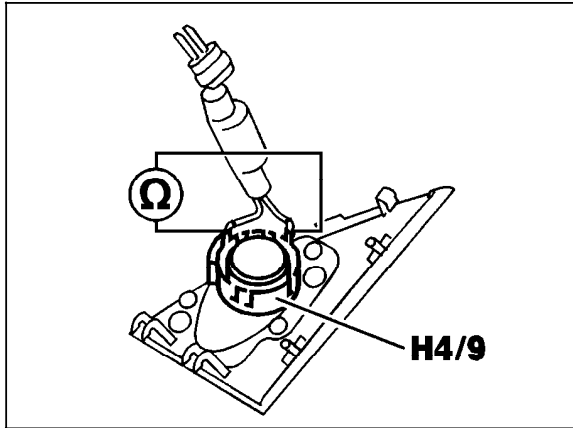
D Antenna jack

E Fuse



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Electrical Test Program – Test



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Figure 2

H4/9 Left front speaker