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	N40/3 9 — (–)(V)(+) — 26	Disconnect connector on N40/3. Radio (A2): **OFF**	11 – 14 V	Fuse F1-C, Fuse in N40/3, Ground (W12), Wiring, Values OK: ⇒ 1.1,
1.1	Control voltage from radio (A2)	N40/3 9 — (–)(V)(+) — 8	Disconnect connector on N40/3. Radio: **ON**	11 – 14 V	Wiring, Radio (A2) (see section 3.1 23), ⇒ 2
2.0	**Left/right audio power amplifier (N40/3)** Speaker signal from radio (A2) **left front:** **right front:**	N40/3 10 — (–)(V~)(+) — 18 1 — (–)(V~)(+) — 2	Disconnect N40/3. Turn volume control to maximum. Radio: **ON**	> 0.2 V Short surges permitted	Wiring, Radio (see section 3.1 23). AD82.60-P-6000 in WIS

Electrical Test Program – Test

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
3.0	**Left front door speaker group (H4/1)**	H4/1 9 — Ω — 13 9 — Ω — 21 21 — G — 9	Disconnect N40/3. Radio (A2): **OFF** Connect signal generator (voltage change results in audio volume changes ; frequency change results in tone changes) Set frequencies between 100 and 10,000 Hz Set voltage at around 2 V	 ∞ Ω ∞ Ω Different frequencies can be heard from the speaker group	Wiring, H4/1, Values OK: Replace N40/3.
4.0	**Left rear speaker (H4/7)**	H4/7 16 — Ω — 24 9 — Ω — 24 9 — Ω — 16	Disconnect N40/3. Radio (A2): **OFF**	 3.2 Ω ∞ Ω ∞ Ω	Wiring, H4/7, Values OK: Replace N40/3.

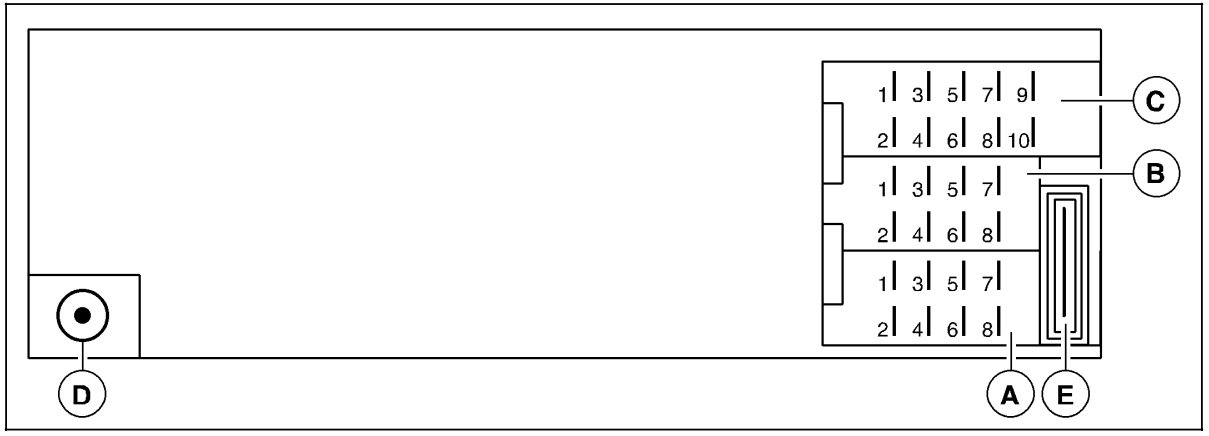
Electrical Test Program – Test

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
5.0	**Right front door speaker group (H4/2)**	H4/2 9 — Ω — 14 9 — Ω — 22 14 — G — 22	Disconnect N40/3. Radio (A2): **OFF** Connect signal generator (voltage change results in audio volume changes ; frequency change results in tone changes) Set frequencies between 100 and 10,000 Hz Set voltage at around 2 V	 ∞ Ω ∞ Ω Different frequencies can be heard from the speaker group	Wiring, H4/2, Values OK: Replace N40/3.
6.0	**Right rear speaker (H4/8)**	H4/8 17 — Ω — 25 9 — Ω — 25 9 — Ω — 17	Disconnect N40/3. Radio (A2): **OFF**	 3.2 Ω ∞ Ω ∞ Ω	Wiring, H4/8, Values OK: Replace N40/3.
7.0	**Acoustimass® bass module (H4/17)**	H4/17 15 — Ω — 23 9 — Ω — 23 9 — Ω — 15	Disconnect N40/3. Radio (A2): **OFF**	 0.8 Ω ∞ Ω ∞ Ω	Wiring, H4/17, If nominal values are OK: Replace N40/3.

Electrical Test Program – Test

Connections on back of Radio

Figure 1



P82.60-0238-04

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

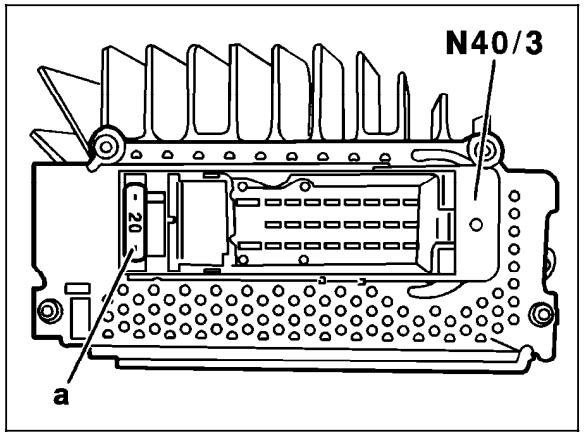
1 Right rear loudspeaker +
2 Right rear loudspeaker –
3 Right front loudspeaker +
4 Right front loudspeaker –
5 Left front loudspeaker +
6 Left front loudspeaker –
7 Left rear loudspeaker +
8 Left rear loudspeaker –

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

D Antenna jack

E Fuse

Electrical Test Program – Test



P82-7024-13

Figure 2

N40/3 Left/right audio power amplifier

a Fuse