

Checking radio, only for cars with green illuminated instrument cluster

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Required for troubleshooting:

- ◆ *Multimeter Fluke 83*
- ◆ *Connector test kit VW 1594*
- ◆ *Valid wiring diagram*
- ◆ *Test antenna*
- ◆ *Operating instructions for the appropriate radio*

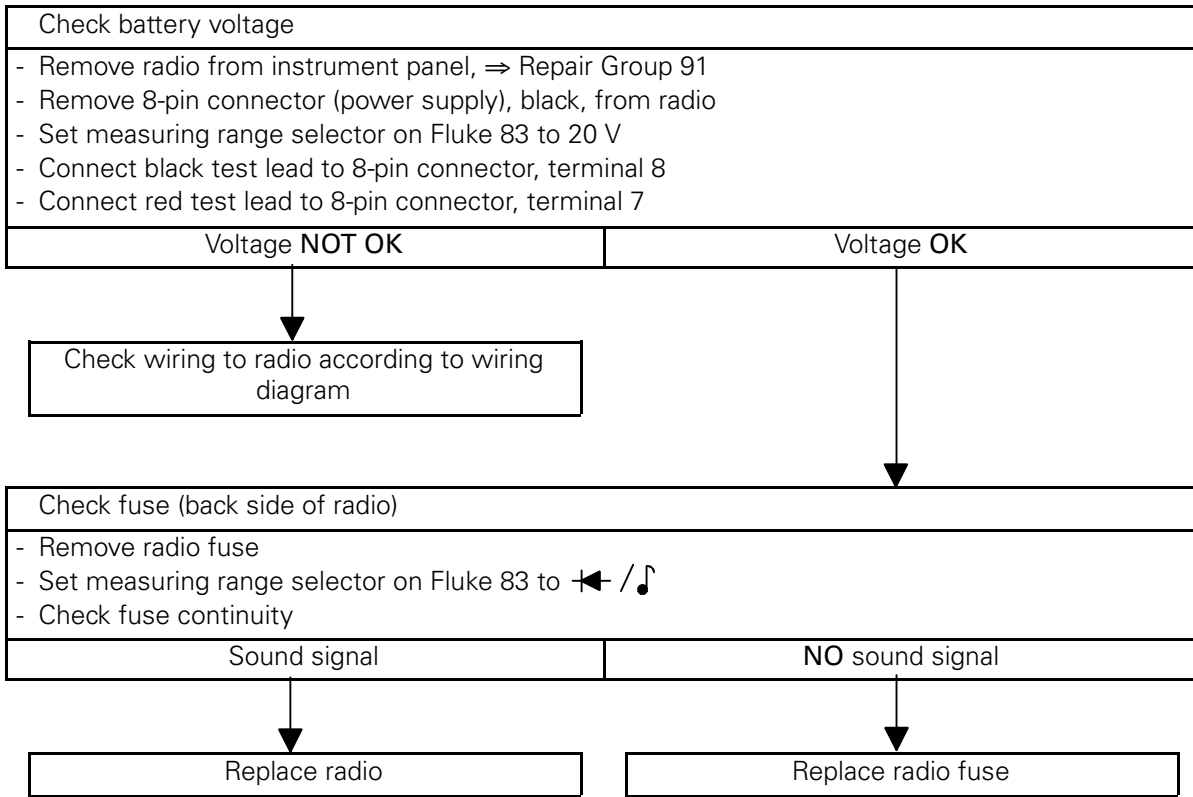
CAUTION!

DO NOT damage, enlarge or bend connector terminals or cavities by forcing probes into them when performing electrical checks. Always use connector test kit VW 1594 to make the necessary electrical connections.

Radio inoperative

Test condition:

- ◆ Fuse S237 OK

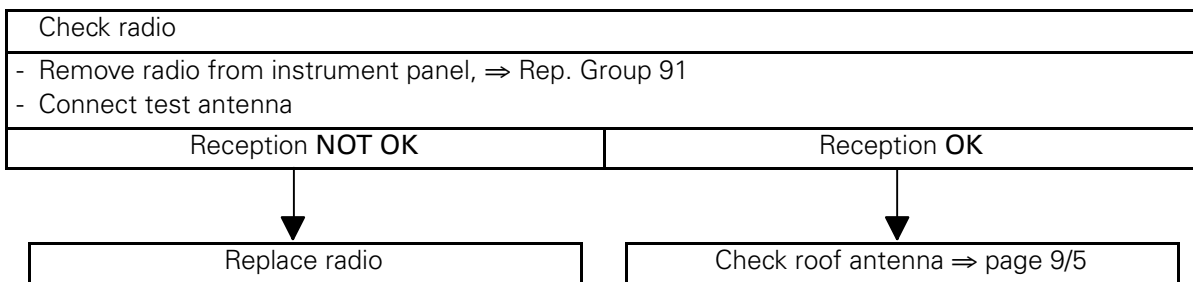


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Poor/intermittent FM reception and interference

Test conditions:

- ◆ Press FM button
- ◆ Select a strong (local) radio station
- ◆ Telescoping antenna fully extended, roof antenna mounted securely
- ◆ Reception conditions OK (DO NOT test inside)

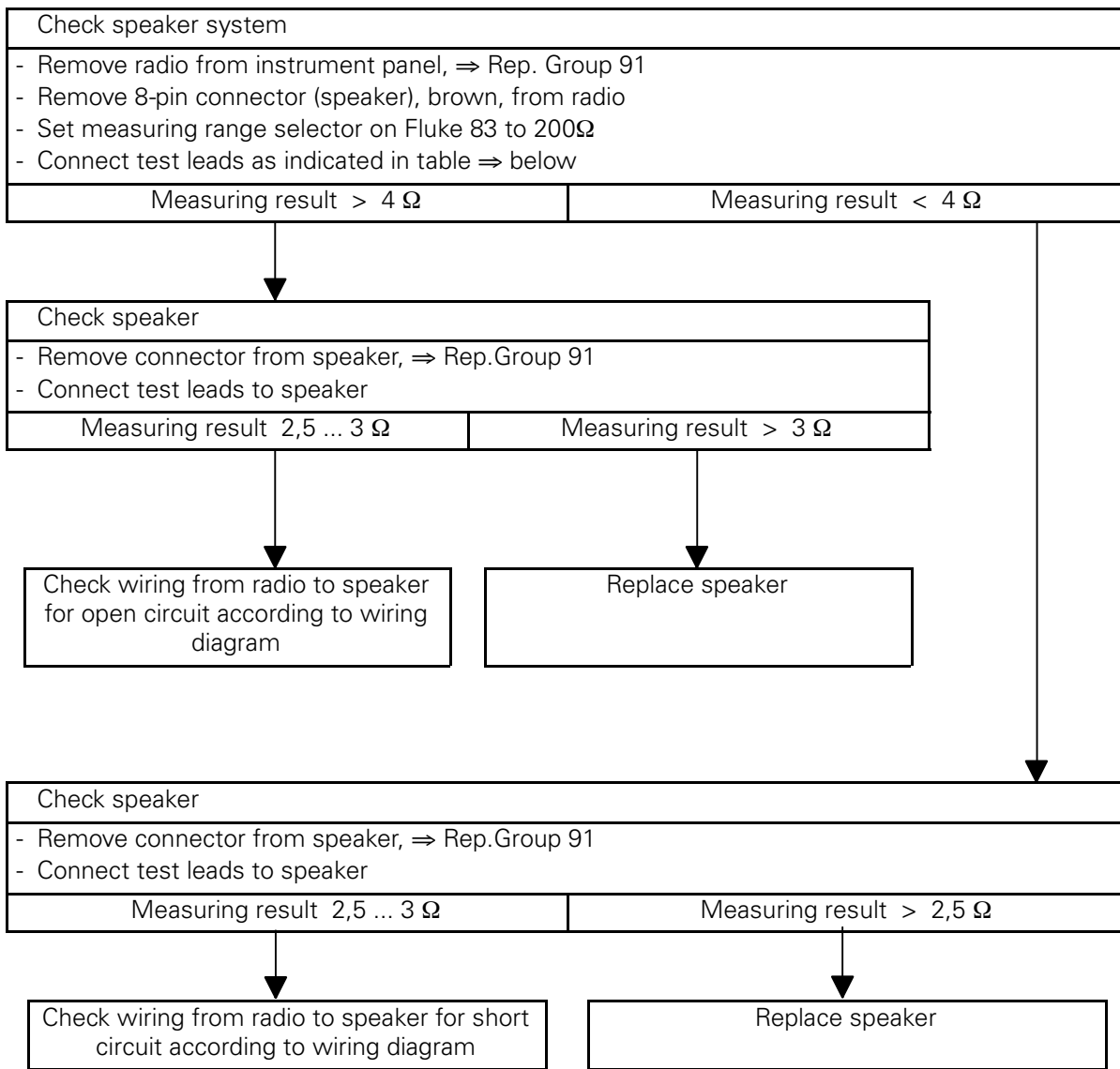


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One or more speakers inoperative

Test conditions:

- ◆ Speaker balance and fader settings in center position
- ◆ Connector for speakers on radio OK

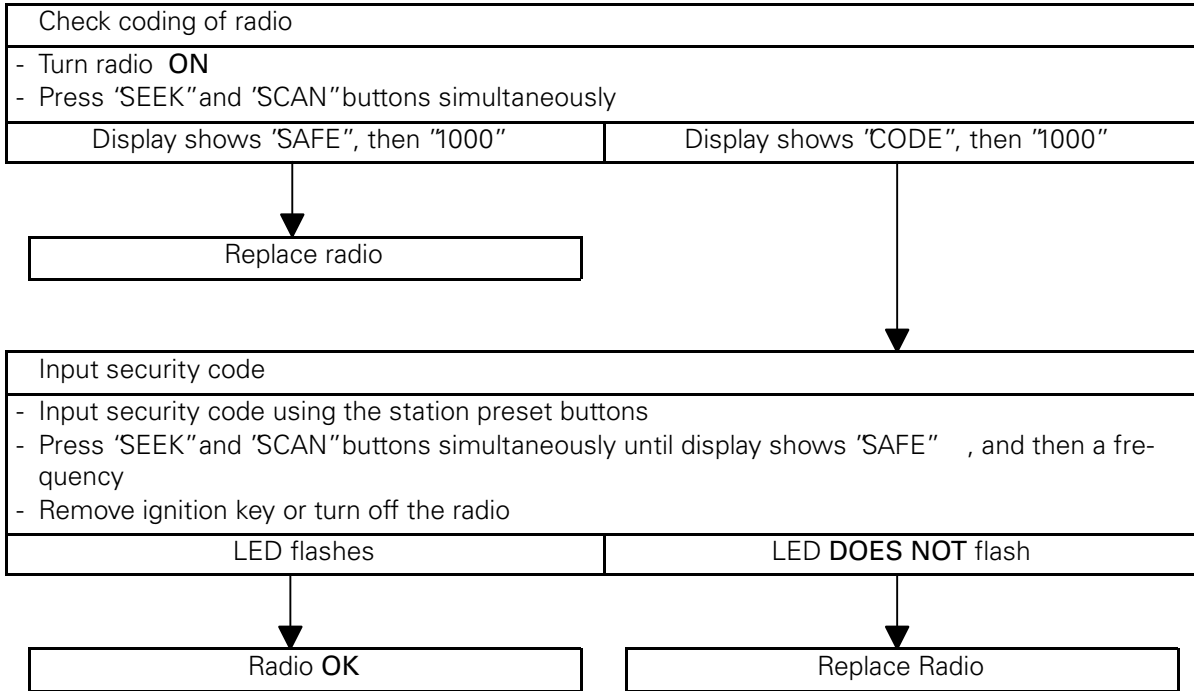


Test connections at 8-pin connector (speaker), brown

Test lead	Speaker left front	Speaker right front	Speaker left rear	Speaker right rear
red	terminal 5	terminal 3	terminal 7	terminal 1
black	terminal 6	terminal 4	terminal 8	terminal 2

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LED for anti-theft-coding does not flash in switched off position



END

Checking roof antenna

Check voltage supply for antenna amplifier	
<ul style="list-style-type: none"> - Turn radio OFF - Remove radio from instrument panel, ⇒ Rep. Group 91 - Disconnect antenna wiring from radio Current measuring with Multimeter Fluke 83 - Set measuring range selector on Fluke 83 to 200mA - Insert red test lead into antenna connector at radio - center wire - Connect black test lead to antenna wire - center wire - Turn radio ON 	
Current approx. 40 - 60mA	NO current

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Radio and antenna wiring OK,
replace roof antenna

<ul style="list-style-type: none"> - Turn radio OFF - Set potentiometer on VW 1301 to range 490 - Connect one lead of VW 1301 to center wire of antenna connector at the radio (Use connector test kit VW 1594) - Connect the other lead of VW 1301 to red test lead of Fluke 83 - Connect black test lead of Fluke 83 to ground - Turn radio ON 	
NO current	Current approx. 40 - 60mA

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Replace radio

Check antenna wiring from radio to roof antenna	
<ul style="list-style-type: none"> - Turn radio OFF - Reconnect antenna wiring to radio - Reinstall radio - Pull down headliner in rear to access antenna mounting, ⇒ Rep. Group 70 - Disconnect antenna wiring from roof antenna - Connect one lead of VW 1301 to center wire of antenna connector (Use connector test kit VW 1594) - Connect the other lead of VW 1301 to red test lead of Fluke 83 - Connect black test lead of Fluke 83 to ground - Turn radio ON 	
NO current	Current approx. 40 - 60mA

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Center wire and shielding in antenna cable are shorted. **Before** replace antenna wiring, check antenna connection under the center console.

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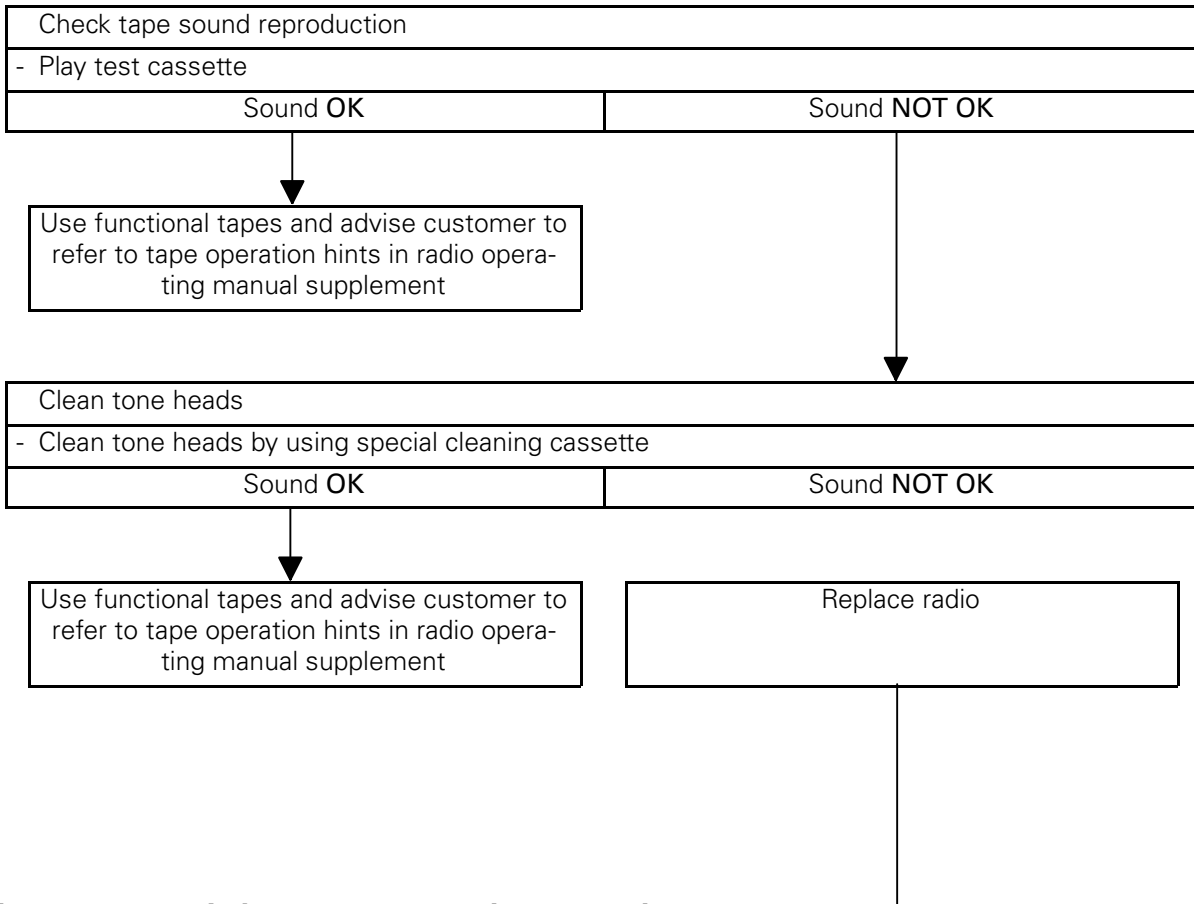
Replace roof antenna

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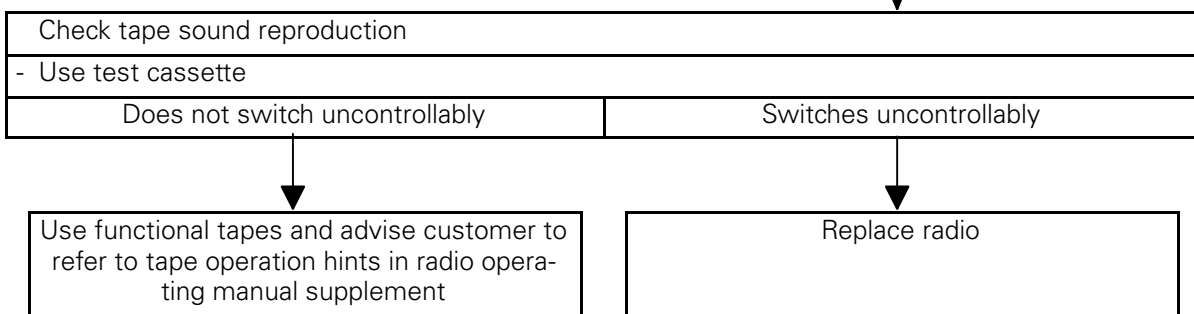
Tape sound is dull or not clear

Test condition:

- ◆ Radio reproduction OK



Autoreverse switches over constantly or to early



END