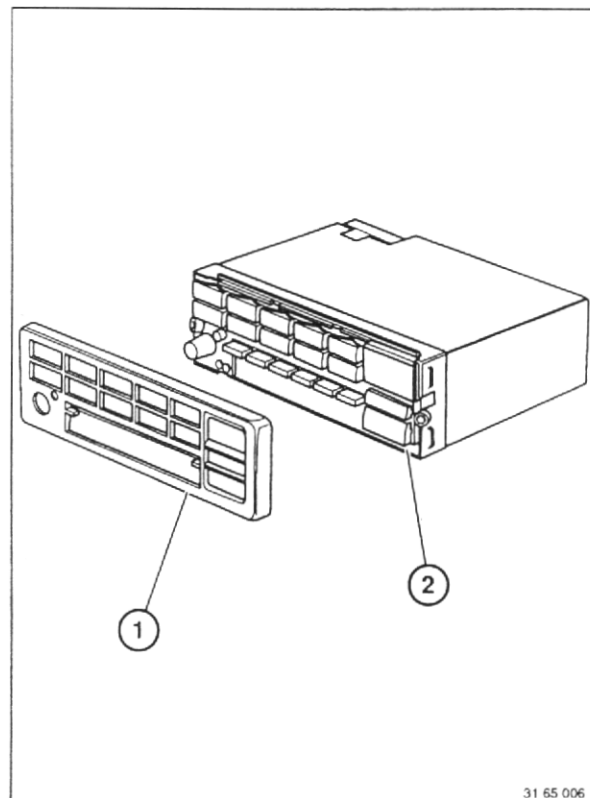


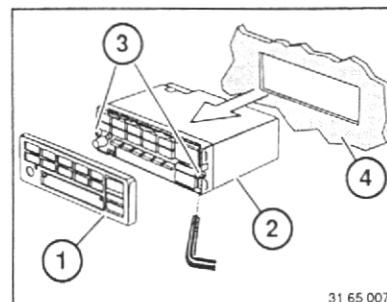
65 Radio and Special Equipment

65 11 030	Radio (Business) – remove and install or replace	65-11/1
030	Radio (Bavaria C II or C Reverse II)	65-11/2
65 12 000	Loudspeaker (front left or right) – remove and install or replace	65-12/1
020	Loudspeaker (rear left or right) – remove and install or replace	65-12/1
65 13 050	Loudspeaker (in left or right front door) – remove and install or replace	65-13/1
	Fault diagnosis for Bavaria Radio C Professional	65-99/1
	Connecting wires – check	65-99/1
	Pin connections	65-99/1
	Fault survey	65-99/3
	Fault 01	65-99/4
	Fault 02	65-99/5
	Fault 03	65-99/6
	Fault 04	65-99/7
	Fault 06	65-99/8
	Fault 07	65-99/8
	Fault 07	65-99/9
	Fault 08	65-99/9
	Fault 09	65-99/10
	Fault 10	65-99/11

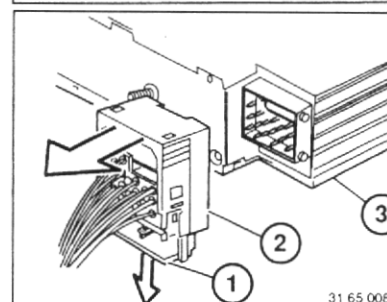
65 11 030 REMOVING AND INSTALLING
OR REPLACING RADIO
(BUSINESS)



1 = Frame
2 = Radio



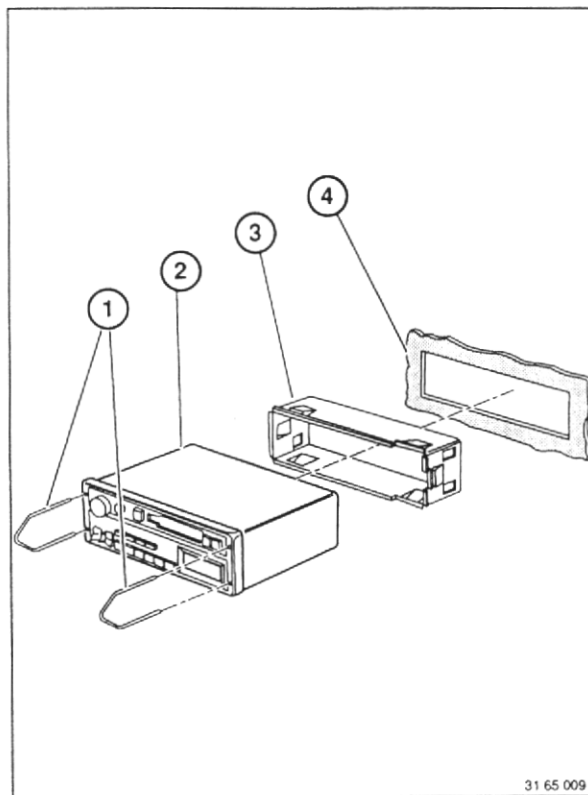
Pull off frame (1).
Unscrew screws (3) on left and right
sides.
Pull radio (2) out of radio opening.



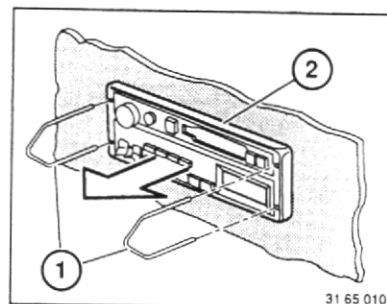
Pull out retainer (1) and disconnect
plug (2) on radio (3).

65-11/2

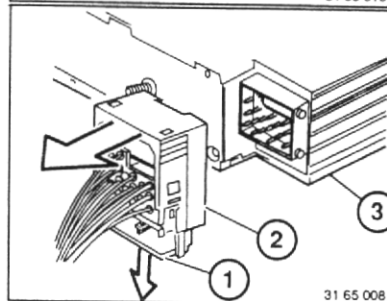
65 11 030 RADIO (BAVARIA C II OR
C REVERSE II)



- 1 = Unlocking hook
- 2 = Radio
- 3 = Radio carrier
- 4 = Radio opening

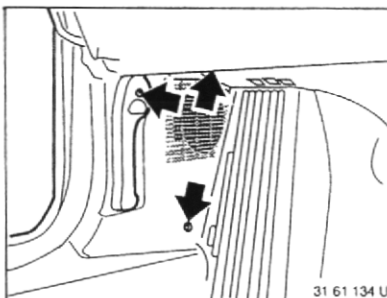


Press unlocking hook (1) into radio on
left and right sides.
Pull out radio carefully with the hooks.



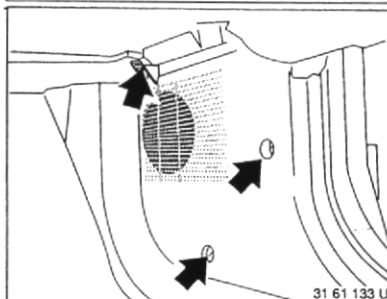
Pull out retainer (1) and disconnect
plug (2) on radio (3).

65-12/1

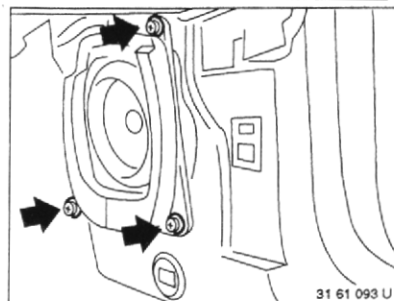


65 12 000 REMOVING AND INSTALLING OR REPLACING LEFT OR RIGHT FRONT RADIO LOUDSPEAKER

(Left)
Unscrew engine hood release lever.
Unscrew screws and lift off A-pillar
plate.



(Right)
Unscrew screws and lift off A-pillar
plate.



Unscrew screws, pull off electric wires
and take out loudspeaker.

65 12 020 REMOVING AND INSTALLING OR REPLACING LEFT OR RIGHT REAR RADIO LOUDSPEAKER

Unclip loudspeaker frame on hatrack
and unscrew screw.
Remove wheel house trim panel in
trunk and resonance box with wires.
Unscrew screws and take out loud-
speaker.

65-13/1

65 13 050 REMOVING AND INSTALLING
OR REPLACING RADIO
LOUDSPEAKER IN LEFT OR
RIGHT FRONT DOOR

Remove door trim panel – see Gr. 51.
Unscrew screws, pull off electric wires
and take out loudspeaker.

TROUBLESHOOTING BAVARIA C PROFESSIONAL RADIOS

Bavaria C4 is available in two versions, either with or without a CD player. Control panel and radio of both versions are separated from each other. The control panel is installed in the dashboard as always, while the radio itself and as applicable a CD player are located in the trunk. This makes it necessary to have a connecting lead between the control panel and radio or CD player, which in the course of troubleshooting is referred to as V1 (without CD player) or V2 (with CD player).

Leads V1 and V2 differ only in length, because connecting lead V2 leads from the control panel to the CD player first and from there with V3 to the radio.

Checking Connecting Leads

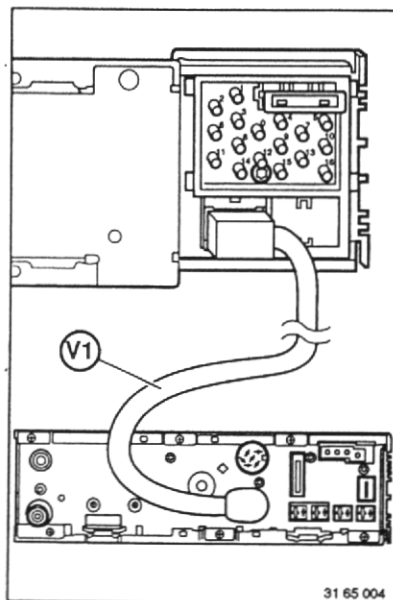
Connecting leads are tested for breaks and short circuits.

Procedures:

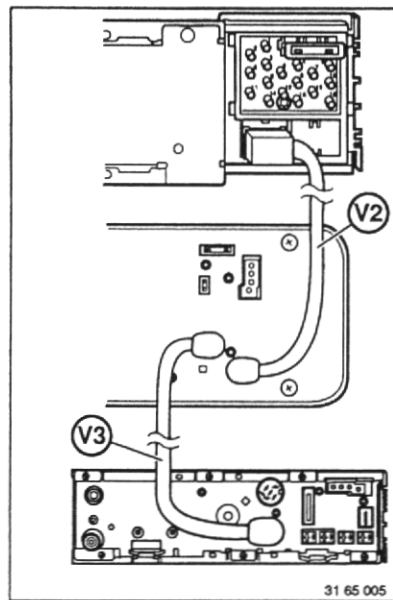
Unplug connecting lead on both ends.

Install a bridge (Special Tool) on the 12-pin Elo plug for the control panel in the case of the V1 or V2 lead. Measure continuity between the different pins on the other end with a multimeter and test points. Remove bridge. Now there should not be continuity between the pins.

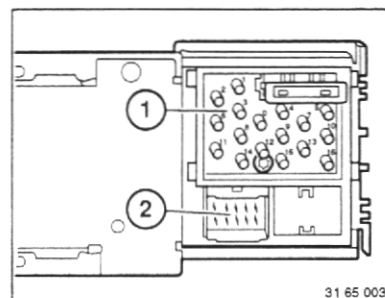
Procedures are the same for the V3 lead, but a different bridge (Special Tool) is used.



Wire Routing Without CD Player

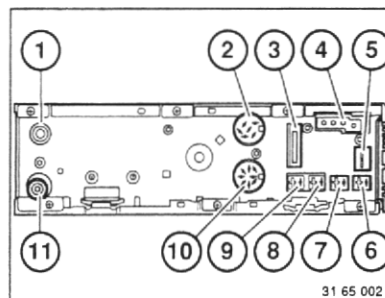


Wire Routing With CD Player



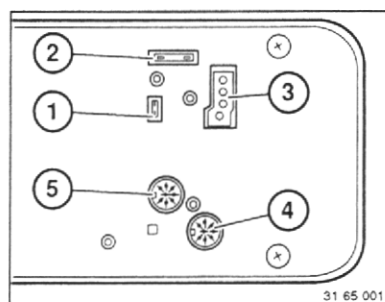
Control Panel Connections:

- 1 17-pin plug (power supply)
- 2 10-pin plug (to radio with V1 lead or to CD player with V2 lead)
- 3 Fuse - 3 amps



Radio Connections:

- 1 Ant. div.
- 2 Remote control
- 3 Fuse - 5 amps
- 4 4-pin plug (power supply)
- 5 1-pin plug (electric antenna)
- 6 Loudspeaker front left
- 7 Loudspeaker front right
- 8 Loudspeaker rear left
- 9 Loudspeaker rear right
- 10 12-pin plug (from control panel with lead V1 or from CD player with lead V3)
- 11 Rear window antenna



CD Player Connections:

- 1 1-pin plug (12 V control output)
- 2 Fuse - 3 amps
- 3 Plug (power supply)
- 4 Plug (to radio with lead V3)
- 5 Plug X3 (from control panel with lead V2)

65 - 99/2

Pin Connections

Pin No. 17 Pin Plug (Control Panel)

1 ... 4		not used
5	term. 75	(switched positive)
6 ... 8		not used
9	term. 30	(permanent positive)
10 ... 12		not used
13	term. 58	(light)
14		not used
15	term. 31	(ground)
16		not used
17		not used

Pin No. 4 Pin Plug (Radio)

1	term. 31	(ground)
2	term. 75	(switched positive)
3		not used
4	term. 30	(permanent positive)

Pin No. 4 Pin Plug (CD Player)

1	term. 31	(ground)
2		not used
3		not used
4	term. 30	(permanent positive)

FAULT SURVEY

The objective of troubleshooting is the systematic detection of sources of fault. Possible faults are listed in this fault survey. Certain procedures are specified for each fault, which answered with yes/no lead to the source of fault.

All plugs of the various components should be checked for correct connection prior to beginning with troubleshooting.

Does not switch on, i.e. radio shows no reaction	⇒	Fault 01
Does not switch on, i.e. clicking is heard in control panel but there is no sound or display	⇒	Fault 02
Does not switch off	⇒	Replace control panel
No sound from one or more loudspeakers while playing radio, cassette or CD (displays shown)	⇒	Fault 03
No sound from one or both channels only while playing cassette	⇒	Fault 04
Sound pattern is dead while playing cassette	⇒	Fault 05
Faulty cassette drive operation, e.g. ejection, fast forward or reverse	⇒	Fault 06
Faulty radio reception	⇒	Fault 07
CD ejection button for ejection of CD magazine does not react	⇒	Fault 08
CD operation fails	⇒	Fault 09
Faulty reaction to loudness or sound adjustments	⇒	Fault 010
Faulty displays (undefined signs displayed)	⇒	Replace control panel

65 - 99/4

FAULT 01

Radio does not switch on – no reaction

Is there battery voltage
between pins 9 and 15
of 17-pin plug on control
panel? — no —> Repair break in positive
or ground wire.

yes

Is fuse in control panel
okay? — no —> Replace fuse.

yes

Replace control panel.

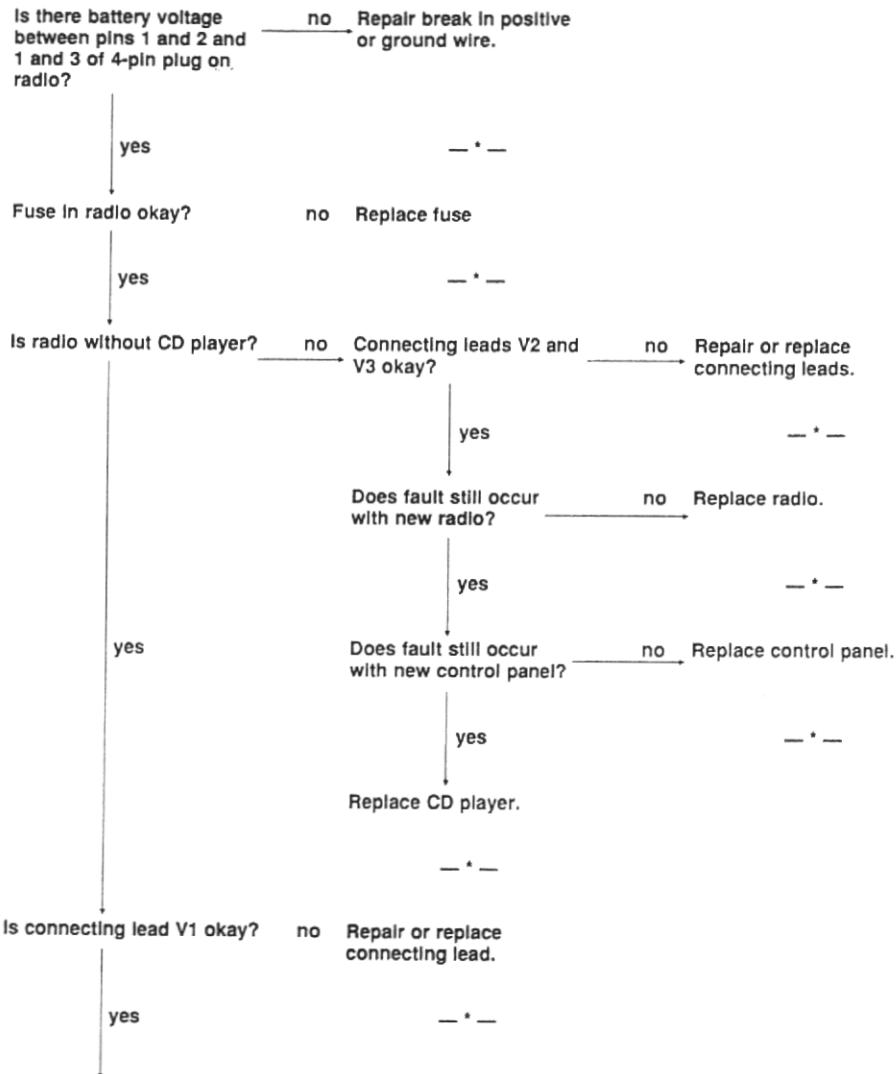
— * —

— * —

65 - 99/5

FAULT 02

Radio does not switch on. Clicking is heard in control panel, but no sound or display.



65 - 99/6

Does fault still occur with a new radio? ☐ no ☐ Replace radio.

yes

Replace control panel.

FAULT 03

No sound from one or more loudspeakers with radio, cassette or CD playing (displays visible)

Sound tuned to middle position? ☐ no ☐ Adjust sound tuning to middle position (see operating instructions).

yes

Are loudspeaker outlets on radio okay (check with test loudspeaker)? ☐ no ☐ Replace radio

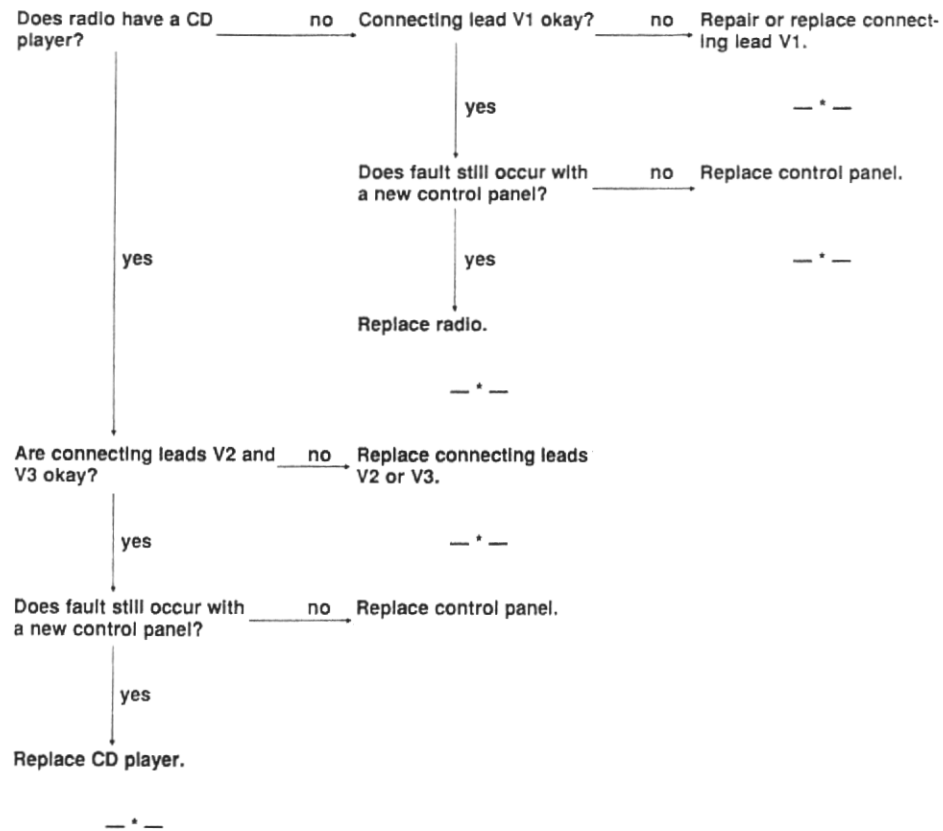
yes

Repair loudspeakers or loudspeaker connections.

65 - 99/7

FAULT 04

No sound from one or both channels while playing cassette



65 - 99/8

FAULT 05

Sound pattern dead while playing cassette

Is sound control in middle position? no → Adjust sound control (see operating instructions).

yes

Does fault still occur with a different cassette of known sound quality? no → Cassette used first is faulty or of poor quality.

yes

Does fault still occur after cleaning the control panel? no → Control panel is okay.

yes

Replace control panel.

— * —

FAULT 06

Faulty cassette drive operation, e.g. ejection, fast forward or reverse

Does fault still occur with a different cassette? no → Cassette has a mechanical fault.

yes

Replace control panel.
(Note: leave seized cassette in control panel. Don't remove with force.)

— * —

65 - 99/9

FAULT 07

Faulty radio reception

Does fault still occur with a new radio? no → Replace radio.

yes

— * —

Check antenna or antenna system and replace faulty part.

— * —

FAULT 08

CD ejection button for ejection of CD magazine does not react

Is there battery voltage between pins 7 and 4 of 4-pin plug on CD player? no → Check power supply in car.

yes

— * —

Is fuse in CD player okay? no → Replace fuse.

yes

— * —

Replace CD player.

— * —

65 - 99/10

FAULT 09

CD operation failure

Installed position of CD
player adjusted correctly?
(Instructions for adjusting
on left and right sides of
housing.)

no

Adjust installed position
correctly.

yes

Replace CD player.

— * —

— * —

65 - 99/11

FAULT 10

Fault reaction to loudness or sound adjustments

Does fault still occur with no Replace radio.
a new radio?

yes

Replace control panel.

— * —

— * —