RENAULT

Technical Note 6011A

Basic documents: MR 339 - 342 - 345 364 - 370 - 392

Vehicle	*Type*
Kangoo	**XCXX**
Clio II	**XBXX**
Mégane II	**XMXX**
Scenic II	**JMXX**
Laguna II	**XGXX**
Trafic II	**XLXX**
Master II	**XDXX**
Clio III	**XRXX**

Entry level navigation system

77 11 329 642 **Edition 4 - APRIL 2007** **Edition Anglaise**

"The repair procedures given by the Manufacturer in this document are based on the technical specifications current when it was prepared.

The procedures may be modified as a result of changes introduced by the manufacturer in the production of the various component units and accessories from which his vehicles are constructed."

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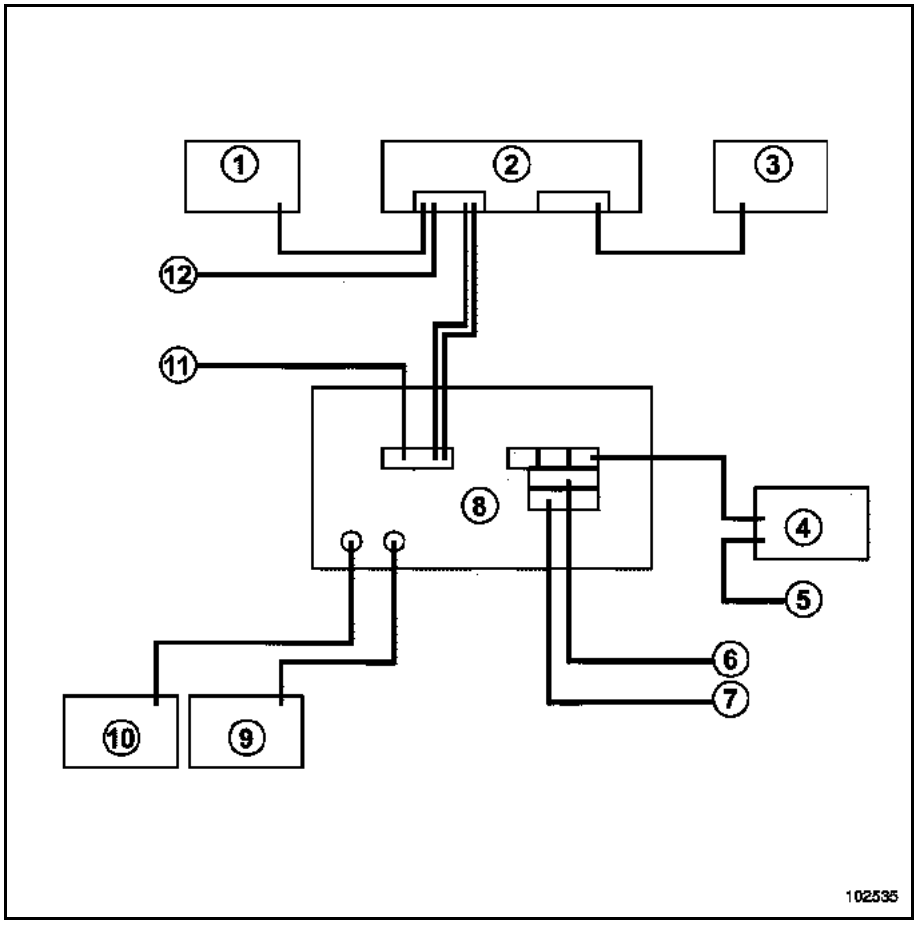
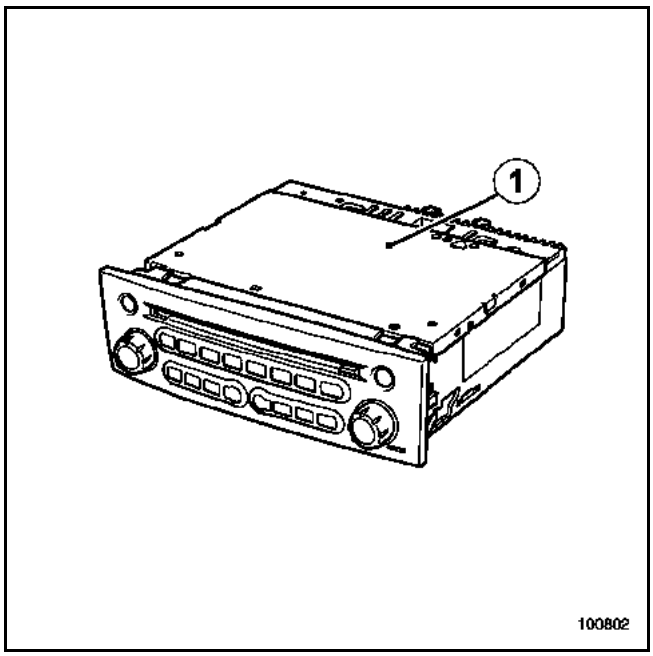
SYSTEM DESCRIPTION



1 External temperature signal (UCH or temperature sensor)
2 Remote display
3 Steering wheel controls
4 CD changer (dashboard or boot)
5 Lighting signal (dashboard-mounted changer only)
6 Speaker outputs
7 Vehicle feeds (+ before ignition/+ accessories/earth/radio mute/speed signal/aerial supply)
8 Radio navigation system
9 Satellite reception aerial
10 Radio aerial
11 Vehicle multiplex connection (reversing signal/vehicle type/+ after ignition).
12 Vehicle feeds (+ before ignition/+ accessories/earth/lights)

The **Entry Level** navigation system is composed of:
– the radio-navigation system used for reading the CD-ROM, navigation CDs and radio,
– a single display.



The system will operate for approximately **20 minutes** without **+ accessories** feed. The radio-navigation system emits a beep and then switches off.

FUNCTIONS PROVIDED BY THE SYSTEM
- listening to the radio (four geographical zones can be programmed),
- displaying the name of the station (**RDS**), via the best transmitter (**AF** function),
- receiving traffic news (**I Trafic** function),
- receiving news flashes and emergency bulletins (**I News** function),
- receiving public safety warning announcements (**PTY 31**),
- playing compact discs,
- controlling a CD changer,
- guiding the vehicle by means of voice messages and symbols on the display screen,
- displaying **traffic information** messages (depending on version).

RADIO FUNCTION DETAILS

Radio

The tuner has three selection modes displayed on the screen and accessed via the radio-navigation front panel:
– manual mode (Manu),
– preset mode (Preset),
– alphabetical mode (List).

Compact Disc player

The CD player can play conventional compact discs and any audio tracks on a CD-ROM. CDs can be played in order or tracks can be chosen at random.

To listen to a Compact Disc during navigation guidance:
– insert the navigation CD-ROM,
– select guidance,
– wait for the end of the journey calculation (hourglass on display disappears),
– eject the CD-ROM and insert the compact disc.

Note:
If the route is modified while a Compact Disc is being played, it may be necessary to reinsert the CD-ROM.

CD changer control

A CD changer may be connected to the radio-navigation system. In that case, it may be necessary to enter a security code. See **Coded Protection** section.

A CD changer must be fitted with the radio-navigation unit disconnected.

The presence of the CD changer is detected automatically when the radio-navigation system is reconnected and the source is then accessible.

Thermal protection

If the temperature of the system is too high for it to operate properly, the volume is automatically reduced (without changing the volume on the display).

Should one of the tracks short circuit, the amplifier is automatically switched off.

Volume control

When the radio-navigation equipment is switched on, the volume is the same as when it was switched off, with a maximum volume of 15.

Note:
– the **mute** function stops the CD playing,
– **Traffic info** messages are played at the current volume setting. If the volume is altered during a message, the setting is stored until it is reset.
– **Navigation** messages are played at volume 7. If the volume is altered (between 0 and 10) during a message, the volume setting is stored.
– the amplifier is fitted with thermal protection which lowers the volume if the system overheats.
– if the tracks short circuit, the amplifier is automatically switched off.

The volume can be corrected as a function of vehicle speed. Select the desired volume change rate via the **Expert** mode: SPEED 5 for maximum change, 0 for no change.

NAVIGATION FUNCTION DETAILS

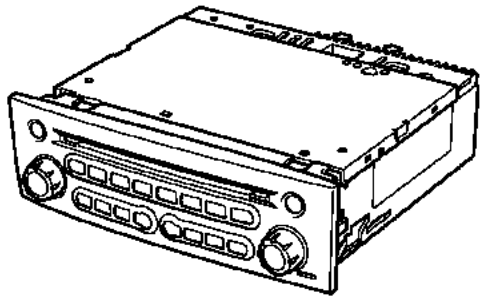
This navigation aid system uses a voice synthesiser and a radio-navigation display to guide the user of the vehicle.

This system allows:
- a specific location to be found, such as:
  - a road, street or avenue, etc.,
  - a hotel,
  - public services,
  - a garage or petrol station,
  - etc.
- select guidance modes in order to:
  - optimise journey time,
  - by selecting main or secondary roads, etc.
- display the distance and journey time.

CD-ROM special notes

The navigation CD-ROM includes:
- cartographic maps,
- voice messages in 12 languages,
- an operating update (depending on the version of CD-ROM).

Note:
The system may operate slightly differently after a new CD-ROM has been loaded. It is possible to find out the version of the CD-ROM by pressing the following keys: **Settings, Menu**, and **OK**.


100802

Simulation mode

The system is equipped with a demonstration mode. Press the following keys: **Settings, Menu**, and **OK**, then select **DEMO**.

IMPORTANT
Demonstration mode must be deactivated to allow the system to operate normally. Every time the ignition is switched off, demonstration mode is deactivated.

Note:
- If the vehicle has been transported by train or ferry, the navigation system may need a few minutes to find its exact location (see **CALIBRATION**).
- If the vehicle battery has been disconnected, the system may need up to **20 minutes** to calculate its exact location. The vehicle must therefore be outdoors (with the navigation system in operation in order to pick up satellite signals with the satellite aerial).
- The system can also operate without valid satellite data. Under these circumstances, there may be a loss of precision in pinpointing exact locations.

The table below lists the compatibility for all the map CD versions according to the radio-navigation part numbers in the Renault range.

Vehicles	Radio-navigation unit part number	MAP CD-ROM	
		SH 1	SH 3
Clio II:	82 00 170 236	COMPATIBLE	NOT COMPATIBLE
Mégane II	82 00 097 398		
Mégane II	82 00 485 487		
Master ph2	82 00 178 157		
Kangoo ph2	82 00 178 157		
Laguna II ph1	82 00 249 262		
Espace IV	82 00 300 852		
Espace IV	82 00 300 853		
Espace IV	82 00 300 854		
Modus	82 00 097 398		
Modus	82 00 335 144		
Modus	82 00 357 390		
Laguna II ph2	82 00 292 332	NOT COMPATIBLE	COMPATIBLE
Clio III	82 00 394 086		
Clio III	82 00 419 008		
Mégane II	82 00 419 008		
Modus	82 00 419 008		
Modus	82 00 419 010		
Modus	82 00 419 011		
Espace IV	82 00 408 759		
Espace IV	82 00 484 424		
Espace IV	82 00 484 426		
Espace IV	82 00 484 428		
Kangoo ph2	82 00 490 632		
Master ph2	82 00 490 632		

Compatibility between SH1/SH3 and the different map CD part numbers:

SH 1	
A-2002	82 00 180 162
B-2002	82 00 309 356
A-2003	82 00 299 536
B25	82 00 517 903

SH 3	
A-25	82 00 411 705
A-25-2	82 00 485 478
A-25-3	82 00 517 892
	82 00 517 895
	82 00 517 896
	82 00 517 898
	82 00 517 899

Two system components are protected by a code:

- the first **4-figure security code** is linked to the radio-navigation system. The user is asked for this code every time the power is cut. This code must be entered via the control satellite. The display shows **CODE** then **0000**.

IMPORTANT
if an incorrect code is entered, the radio-navigation system beeps, displays **CODE** and locks:
– 1st error: 1 minute,
– 2nd error: 2 minutes,
– 3rd error: 4 minutes... (32 minutes maximum)

When the code has been entered, certain parameters must be reprogrammed. Other parameters are only required when the code is entered for the first time (see the **Configurations** section).

Note:
The radio-navigation equipment will operate for approximately **2 minutes** without the code having been entered (with regular warning bleeps).

- the **code which is exchanged between the CD changer (front panel) and the radio-navigation system**.

When replacing a new CD changer and a new radio-navigation system:
– Enter the required code(s).

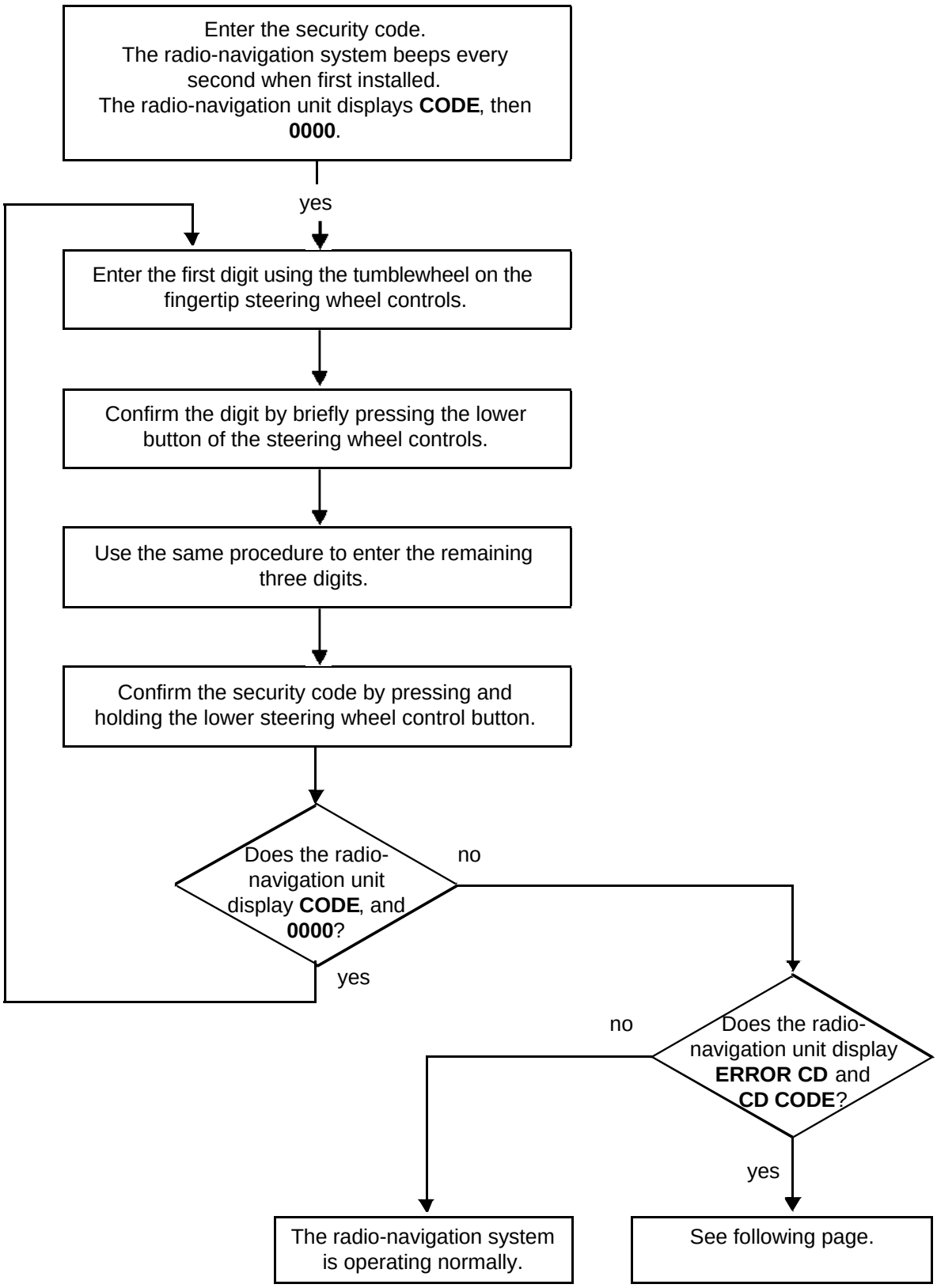
When only replacing the radio-navigation system:
– Enter:
1 the new radio-navigation code,
2 the CD code (code from the former radio-navigation system which was previously connected to the changer).

When only replacing the CD changer:
1 If the CD changer is new, the system code is programmed automatically.
2 If the changer has already been connected to a navigation system:
– Type in the CD code (code from the former radio-navigation system which was previously connected to the changer).
– If the code of the previous radio-navigation unit is lost, the connection code can be cleared with a clearing code. The clearing code is transmitted in the usual manner.

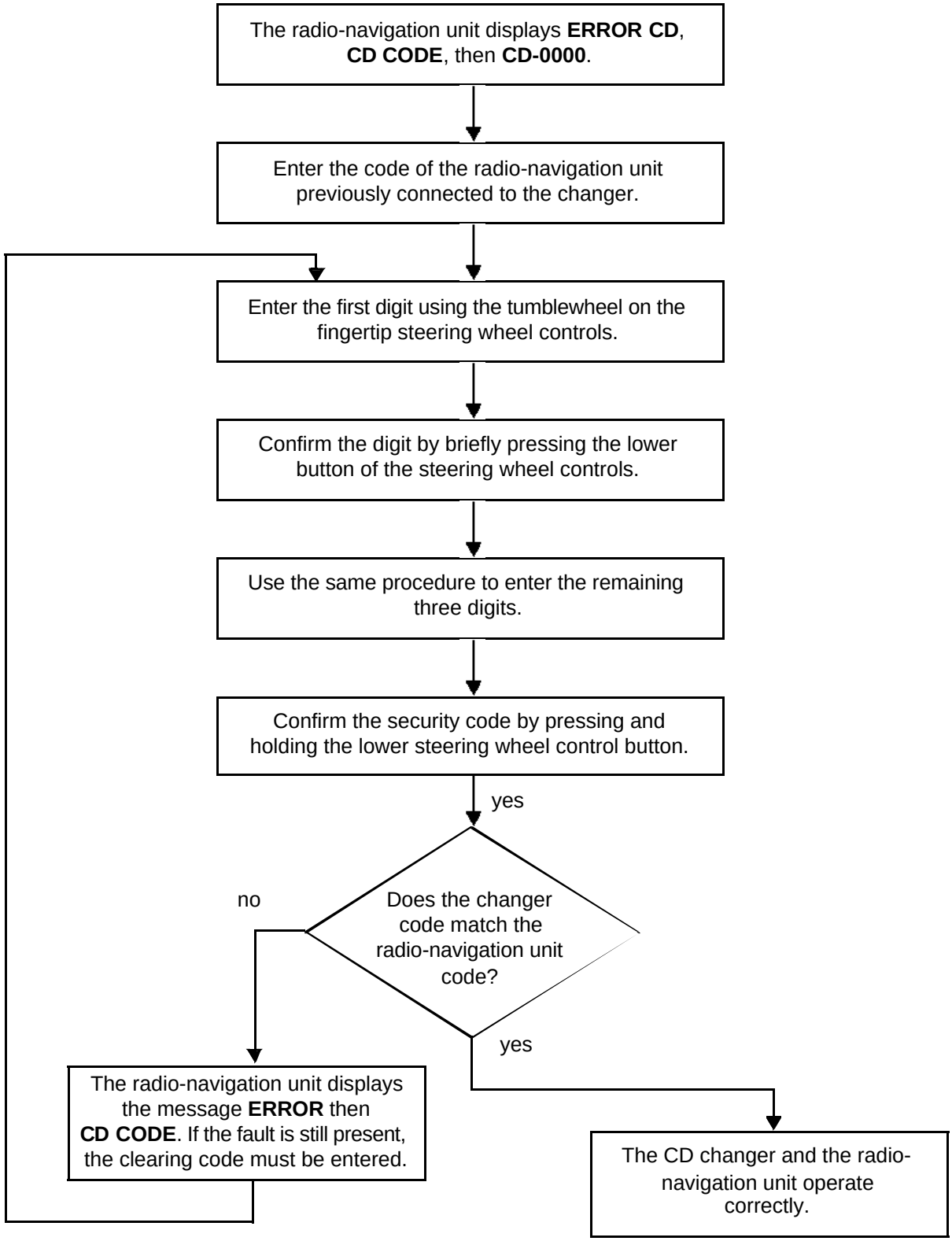
IMPORTANT
Only dash-mounted CD changers have codes. Boot-mounted changers are not coded.

Note:
The radio-navigation system only starts a code exchanging operation with the changer after power supply has been cut.

THE DISPLAY SHOWS 'CODE' OR '0000'



THE DISPLAY SHOWS "CD CODE"



The radio-navigation system parameters are only requested the first time the security code is entered. They are then stored if the power supply is cut off.

- function activation **AUX** (Auxiliary)
- mode activation **AF** (automatic station tuning: RDS)
- alter the **rate** of **volume change** as a function of vehicle speed (5 for maximum change, 0 for no change)
- mode activation **Loudness**
- mode activation **Manual or automatic tuner**

SETTINGS

The settings can be altered after pressing and holding the **Expert** button.

↓

Select the auxiliary input operating mode: **AUX AUTO/ON/OFF**.

↓

Move to the next setting by means of the satellite tumblewheel or the volume button on the radio-navigation unit.

↓

Activate or deactivate monitoring of automatic station tuning (RDS): **AF ON/OFF** using the "+" and "-" buttons.

↓

Select a progression curve for speed-dependent volume control then confirm:
– **SPEED 0:** no regulation
– **SPEED 5:** maximum regulation

↓

Activate or deactivate the **Loudness** function: **LOUD ON/OFF**.

↓

Select the manual tuner operating mode: **TUNE MAN/AUTO**.

↓

Exit by pressing the **C** button.

When the radio-navigation unit is installed, the system must be calibrated.

If calibration is not carried out, the system can be used in radio mode but the navigation mode is inoperative.

Note:
- The time cannot be adjusted if the system is not calibrated.
- If the vehicle has been transported by train or ferry, the navigation system may need a few minutes to find its exact location (see **CALIBRATION**).
- If the vehicle battery has been disconnected, the system may need up to 20 minutes to calculate its exact location. The vehicle must therefore be outdoors (with the navigation system in operation in order to pick up satellite signals with the satellite aerial).
- The system can also operate without valid satellite data. Under these circumstances, there may be a loss of precision in pinpointing exact locations.

CALIBRATION

Switch on the system.

↓

Insert the navigation CD-ROM.

↓

The system displays **Please wait**.

↓

The system offers a selection of languages:

– French
– Italian
– Dutch
– Portuguese
– Swedish
– Flemish

↓

The system displays **Language loading**, then **Language installed**.

↓

Confirm.

↓

The system displays the statutory welcome message.

↓

Confirm or return to the language selection.

↓

The system displays **CALIBRATION STAGE**. System calibration can commence.

Note:
Inserting a new CD ROM can release an update from the Carminat system software.
Follow the instructions below.

WARNING

Do not switch off the vehicle's ignition during the update.

Do not switch off the Carminat device during the operation.

Do not launch an update when driving.

USE

Switch on the Carminat device.

Check that the player does not contain a CD ROM.

Insert one of the two new Carminat CD ROMs. After a short time, choose **Run update?** using the right-hand rotary selector or pressing the NAV button.

The update starts. The dash buttons are backlit.

Wait **5 to 15 minutes**. During this operation the device is not in service. **Do not turn the device off during update.**

Note:
If the update is interrupted by the CD ROM being ejected or by the radio-navigation unit's power supply being cut, it will resume its process after the reinsertion of the CD ROM or re-establishment of the power supply, without screen display. Only the dash buttons are backlit. When these lights go out, the update has finished.

IMPORTANT
Certain configurations are irreversible. In the self-test procedure menu (press NAV to access the menu **SETTING** and **OK**, then by simultaneously pressing **FLAG/MENU/OK**.

When the device switches itself off and the time is displayed, then the update has finished.

Switch on the device.
– The radio function is activated.
– The new navigation software loads for **30 seconds**).

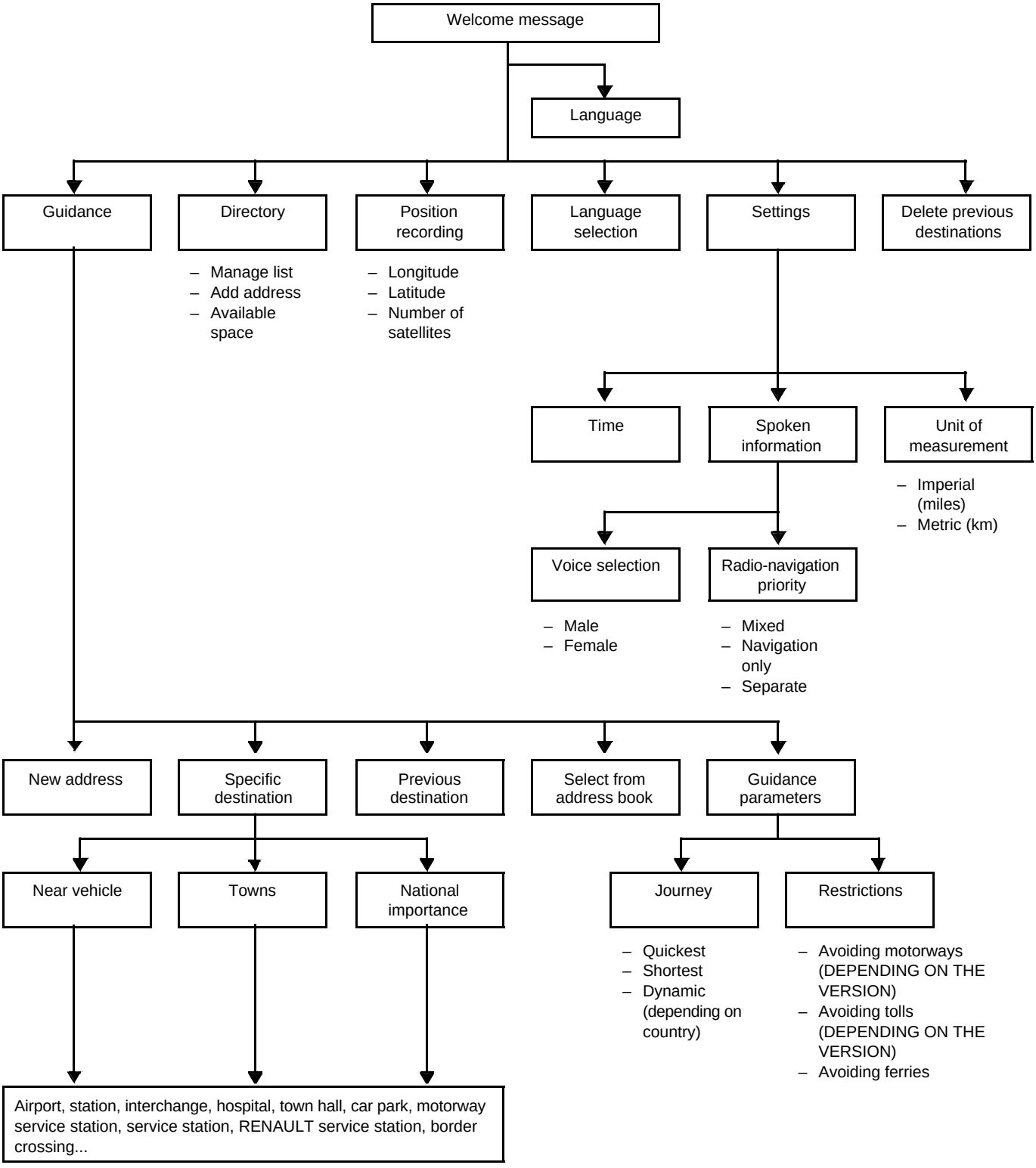
Press the "NAV" button to activate the navigation function.

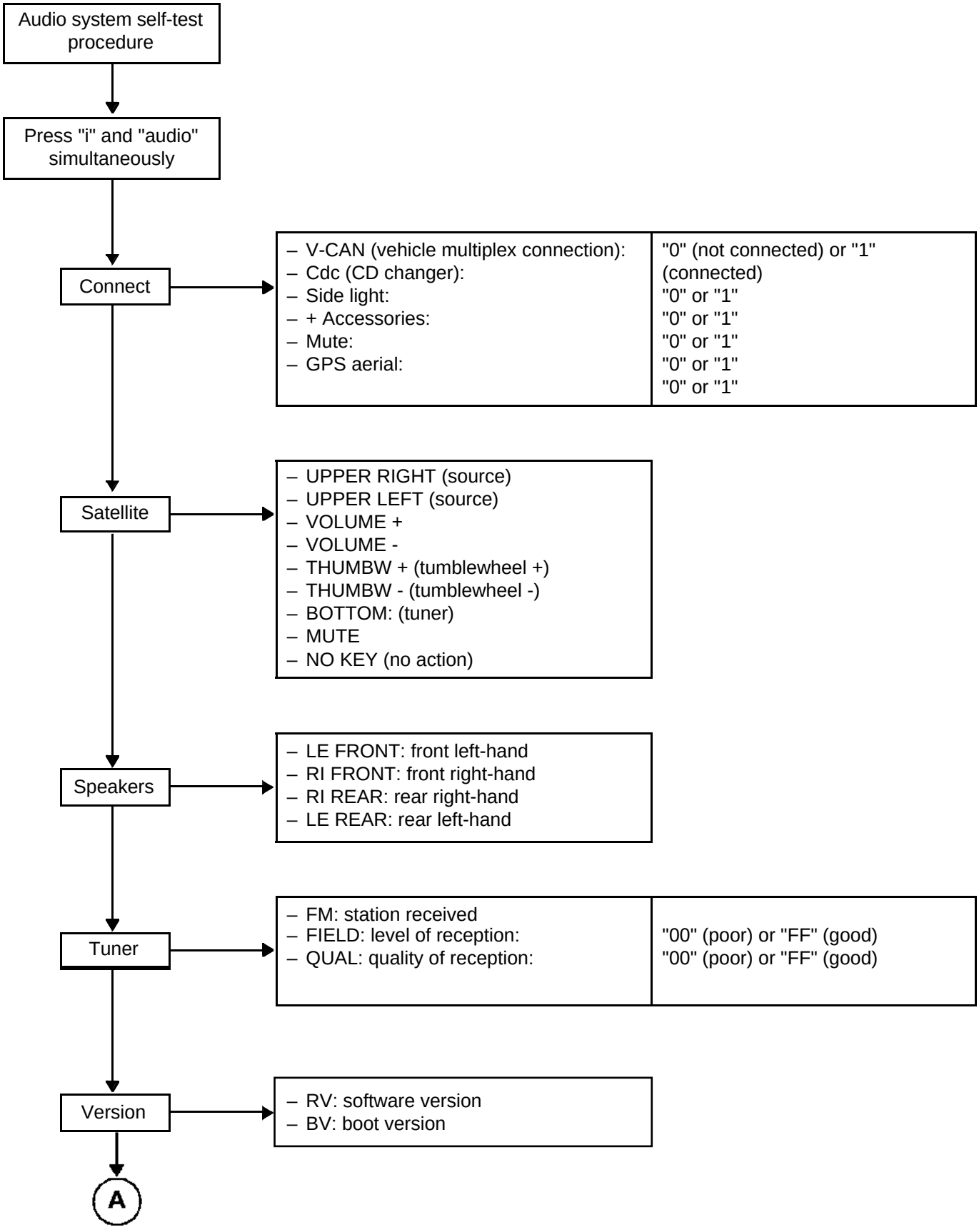
Observe the safety instructions.

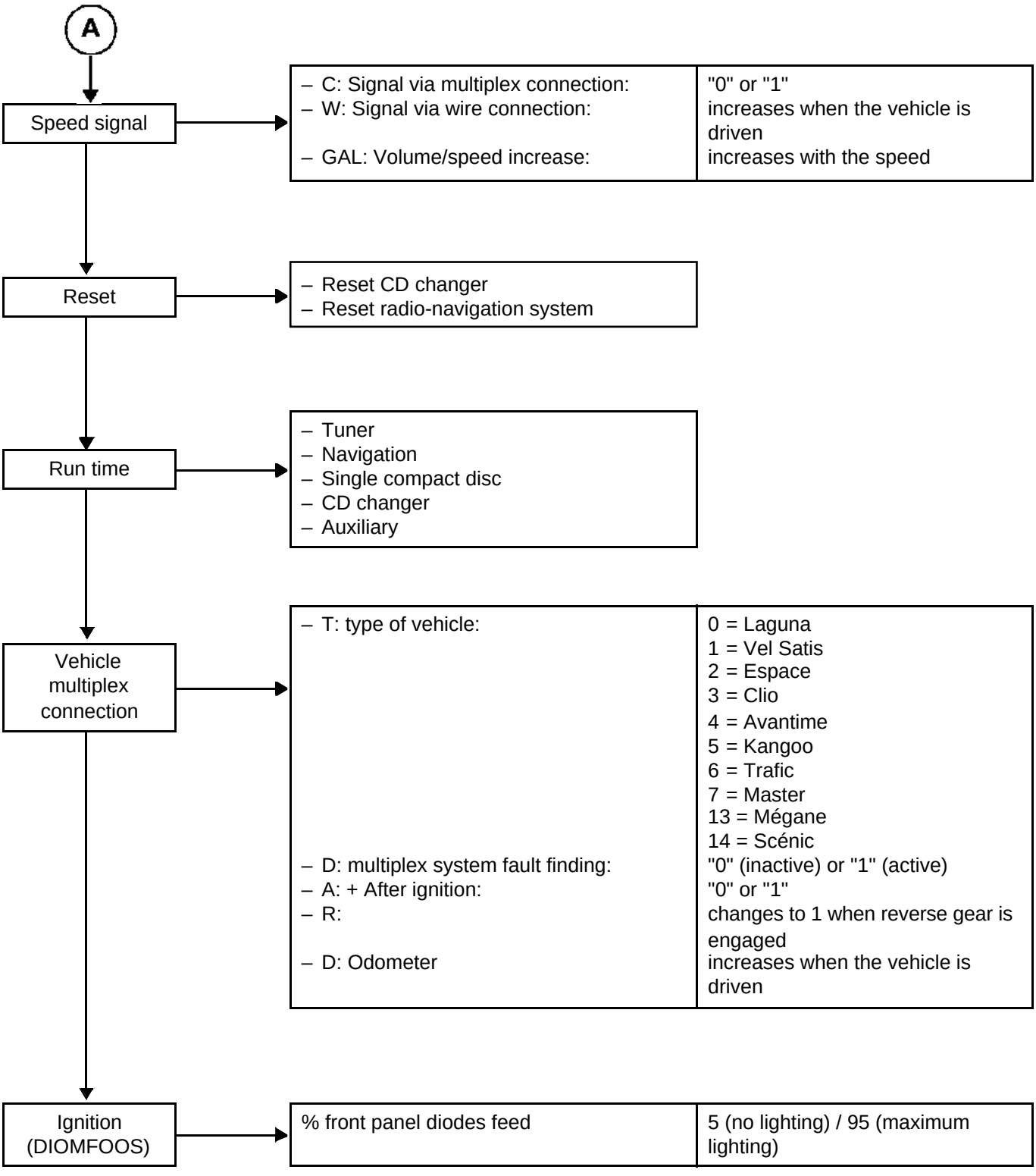
Press **OK** to confirm the setting.

– Has the update finished? The system is usable.

IMPORTANT
Guidance restrictions (**avoiding motorway** and **avoiding tolls**) are no longer available using the Bercker B25 map CD update on previous radionavigation systems (SH1), but it is still available on the new radionavigation systems (SH3).


Welcome message
Language
Guidance
Directory
Position recording
Language selection
Settings
Delete previous destinations
– Manage list
– Add address
– Available space
– Longitude
– Latitude
– Number of satellites
Time
Spoken information
Unit of measurement
– Imperial (miles)
– Metric (km)
Voice selection
Radio-navigation priority
– Male
– Female
– Mixed
– Navigation only
– Separate
New address
Specific destination
Previous destination
Select from address book
Guidance parameters
Near vehicle
Towns
National importance
Journey
Restrictions
– Quickest
– Shortest
– Dynamic (depending on country)
– Avoiding motorways (DEPENDING ON THE VERSION)
– Avoiding tolls (DEPENDING ON THE VERSION)
– Avoiding ferries
Airport, station, interchange, hospital, town hall, car park, motorway service station, service station, RENAULT service station, border crossing...

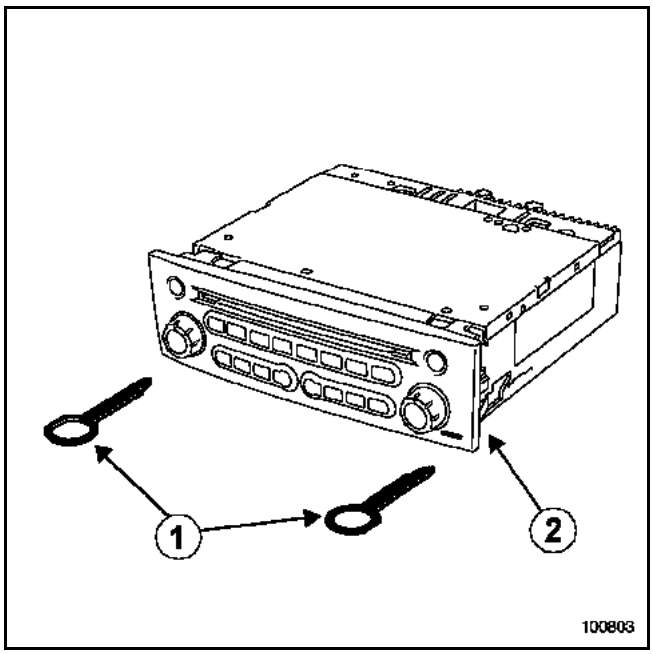

Audio system self-test procedure
Press "i" and "audio" simultaneously
Connect
– V-CAN (vehicle multiplex connection): "0" (not connected) or "1" (connected)
– Cdc (CD changer): "0" or "1"
– Side light: "0" or "1"
– + Accessories: "0" or "1"
– Mute: "0" or "1"
– GPS aerial: "0" or "1"
Satellite
– UPPER RIGHT (source)
– UPPER LEFT (source)
– VOLUME +
– VOLUME -
– THUMBW + (tumblewheel +)
– THUMBW - (tumblewheel -)
– BOTTOM: (tuner)
– MUTE
– NO KEY (no action)
Speakers
– LE FRONT: front left-hand
– RI FRONT: front right-hand
– RI REAR: rear right-hand
– LE REAR: rear left-hand
Tuner
– FM: station received
– FIELD: level of reception: "00" (poor) or "FF" (good)
– QUAL: quality of reception: "00" (poor) or "FF" (good)
Version
– RV: software version
– BV: boot version
A


A
Speed signal
– C: Signal via multiplex connection:
– W: Signal via wire connection:
– GAL: Volume/speed increase:
"0" or "1"
increases when the vehicle is driven
increases with the speed
Reset
– Reset CD changer
– Reset radio-navigation system
Run time
– Tuner
– Navigation
– Single compact disc
– CD changer
– Auxiliary
Vehicle multiplex connection
– T: type of vehicle:
0 = Laguna
1 = Vel Satis
2 = Espace
3 = Clio
4 = Avantime
5 = Kangoo
6 = Trafic
7 = Master
13 = Mégane
14 = Scénic
– D: multiplex system fault finding:
"0" (inactive) or "1" (active)
– A: + After ignition:
"0" or "1"
– R:
changes to 1 when reverse gear is engaged
– D: Odometer
increases when the vehicle is driven
Ignition (DIOMFOOS)
% front panel diodes feed
5 (no lighting) / 95 (maximum lighting)

Tightening torque	
battery terminal	**1.2 daNm**

REMOVAL

Disconnect the battery, starting with the negative terminal.



Insert the Ms. 1544 into the two holes (**1**).
Pull on the two tools in line with the radio-navigation unit.

IMPORTANT
The aerial wire is very fragile. Do not pinch or kink it.

Disconnect the connectors.

Remove the tools by pressing on the latches (**2**).

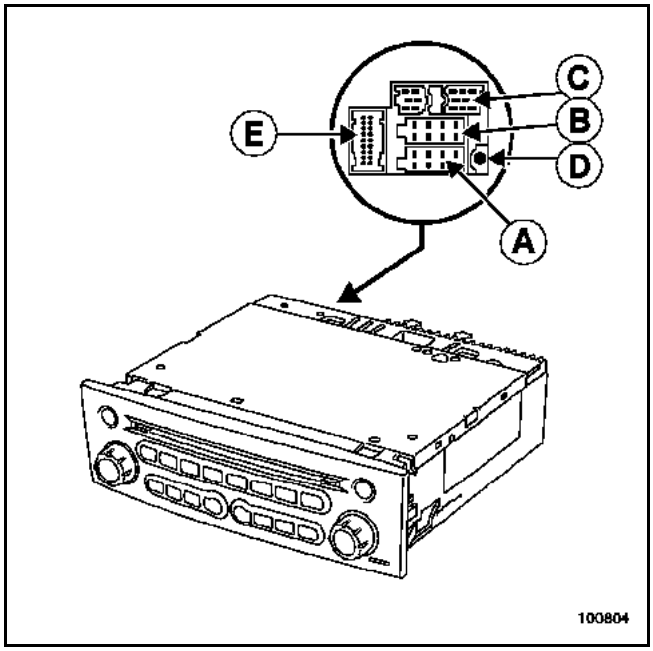
Fit all the connectors.

REFITTING

Proceed in the reverse order to removal.

IMPORTANT
Connect the battery, starting with the positive terminal.
Tighten to torque the **battery** terminals (**1.2 daNm**).
Carry out the necessary programming (refer to **80A Battery: Removal- Refitting** section).

Note:
To set the radio-navigation time, enter the four-digit code, put in the navigation CD-ROM, then go for a drive to capture the satellite signals. The time can then be set.



Connector A

Track	Description
1	Vehicle speed signal
2	Not used
3	Telephone muting
4	+ before ignition feed
5	Aerial feed output
6	+ side lights
7	+ accessories
8	Earth

Connector B

Track	Description
1	Rear right-hand speaker +
2	Rear right-hand speaker -
3	Front right-hand speaker +
4	Front right-hand speaker -
5	Front left-hand speaker +
6	Front left-hand speaker -
7	Rear left-hand speaker +
8	Rear left-hand speaker -

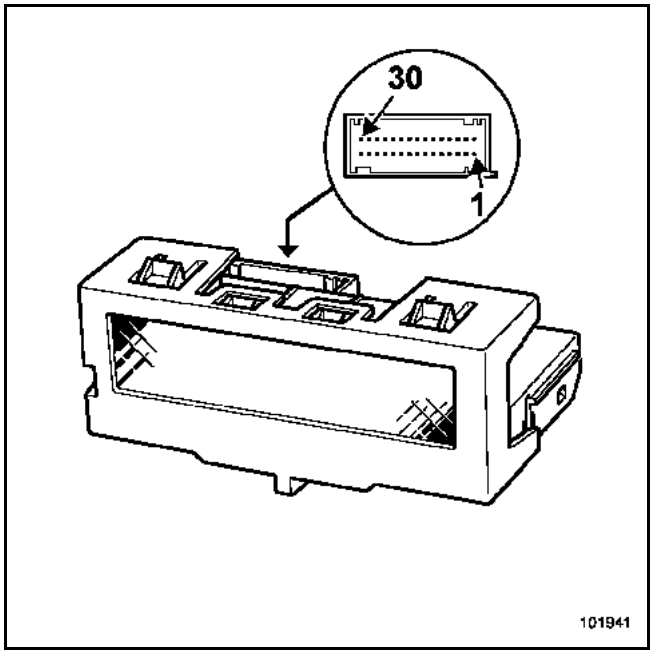
Connector C: special CD changer connection.

Connector D: Satellite aerial connection.

Connector E

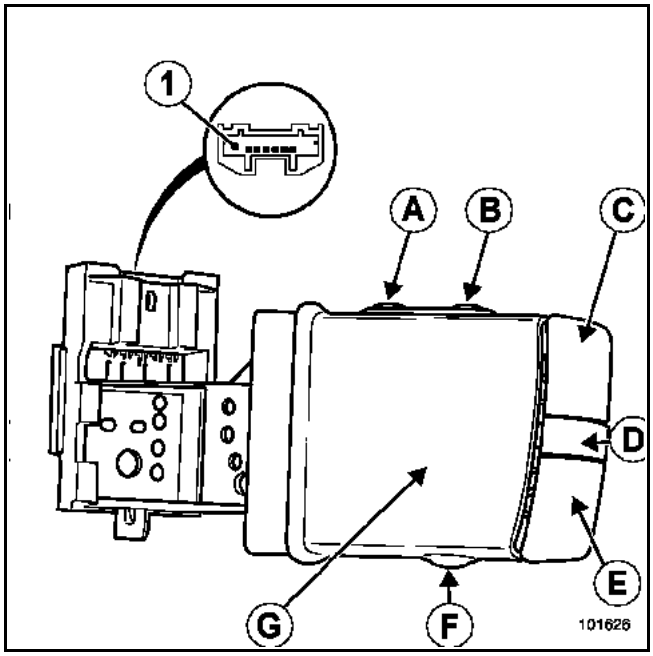
Track	Description
1	Not used
2	Not used
3	Not used
4	Not used
5	Not used
6	Vehicle multiplex connection (H)
7	Multimedia multiplex connection (H)
8	Not used
9	Not used
10	Not used
11	Not used
12	Screen on/off supply
13	Not used
14	Not used
15	Vehicle multiplex connection (L)
16	Multimedia multiplex connection (L)
17	Not used
18	Not used

CONNECTION



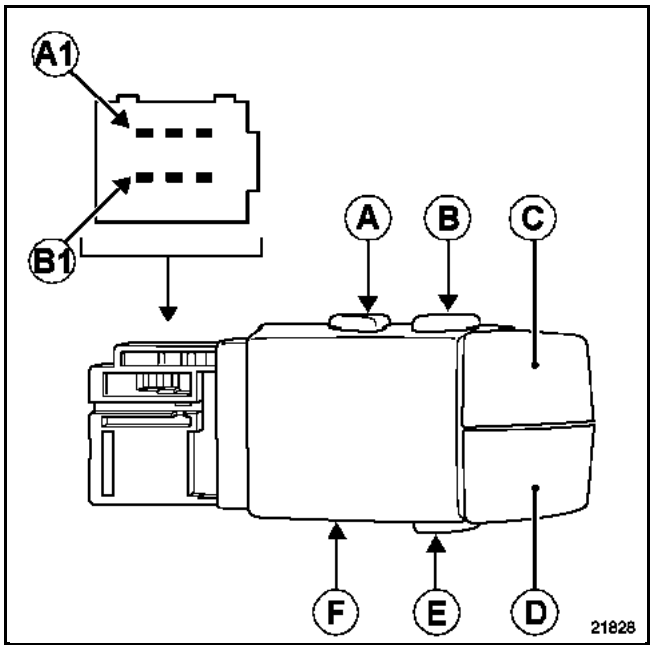
Track	Description
1	Exterior temperature sensor Exterior
2	temperature sensor
3	Not used
4	UCH external temperature connection (depending on version)
5	Earth
6	+ Side lights
7	Lighting dimmer
8	+ Accessories
9	+ before ignition feed
10	External temperature output
11	Not used
12	Screen on/off supply
13	Not used
14	Not used
15	Not used
16	Radio control connection
17	Radio control connection
18	Radio control connection
19	Radio control connection
20	Radio control connection
21	Radio control connection
22	Not used
23	Not used
24	Not used
25	Not used
26	Not used
27	Not used
28	Not used
29	Multimedia multiplex connection (L)
30	Multimedia multiplex connection (H)

MEGANE II



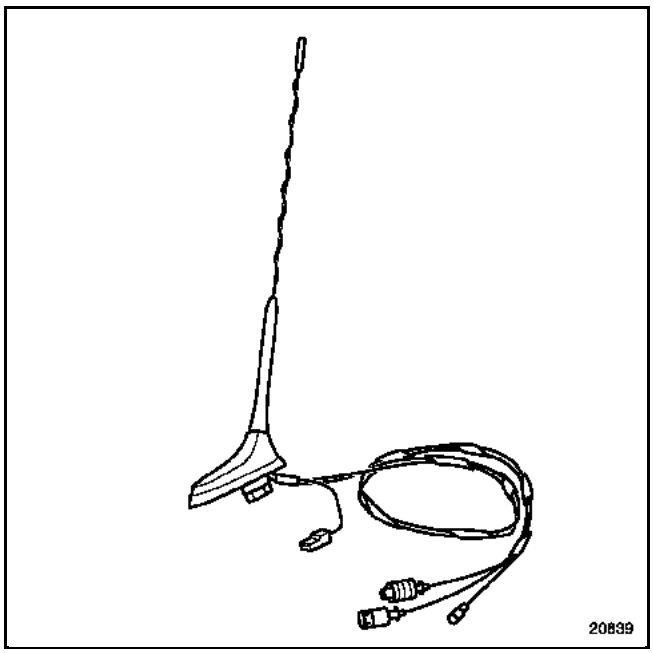
Action	Track	Value
Top left-hand button (A)	5 and 4	≈ 0.5 Ω
Top right-hand button (B)	3 and 4	≈ 0.5 Ω
Volume increase (C)	1 and 6	≈ 0.5 Ω
Pause button (D)	1 and 4	≈ 0.5 Ω
Volume decrease (E)	5 and 6	≈ 0.5 Ω
Lower button (F)	3 and 6	≈ 0.5 Ω
Thumbwheel (G) (1st position)	1 and 2	≈ 0.5 Ω
Thumbwheel (G) (2nd position)	5 and 2	≈ 0.5 Ω
Thumbwheel (G) (3rd position)	3 and 2	≈ 0.5 Ω

CLIO II - LAGUNA II

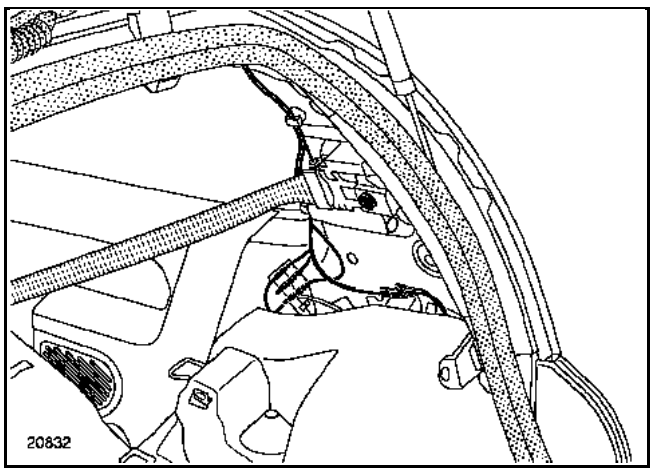


Action	Track	Resistance
Lower button (E)	A3/B1	≈ 28 Ω
Volume decrease (D)	B3/B1	≈ 0.5 Ω
Volume increase (C)	A1/B1	≈ 0.5 Ω
Top right-hand button (B)	A3/B2	≈ 28 Ω
Top left-hand button (A)	B3/B2	≈ 0.5 Ω
Thumbwheel (F) (1st position)	A3/A2	≈ 0.5 Ω
Thumbwheel (F) (2nd position)	B3/A2	≈ 0.5 Ω
Thumbwheel (F) (3rd position)	A1/A2	≈ 0.5 Ω

The satellite aerial incorporates the radio aerial (AM / FM), the amplifier and the telephone aerial (dual band).



Note:
Depending on vehicle equipment level, the aerial cables have a connection. This cut-out strip is located behind the rear right-hand quarter panel trim.

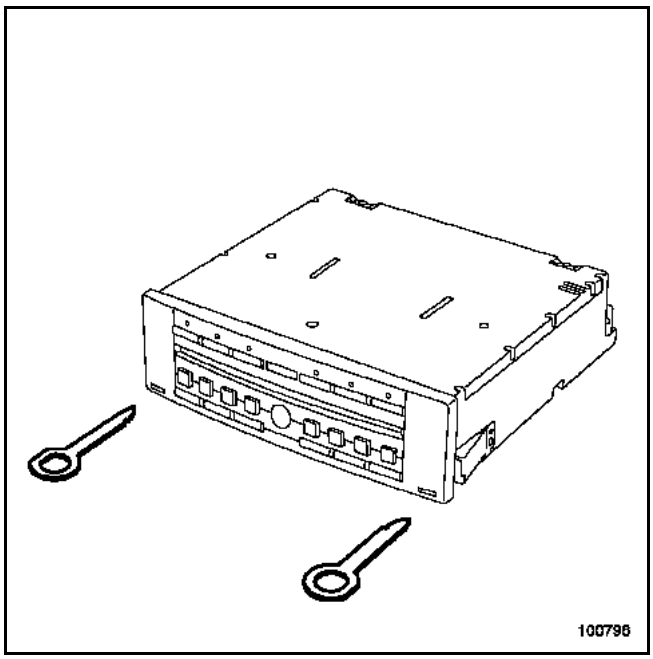


CHANGER IN THE DASHBOARD

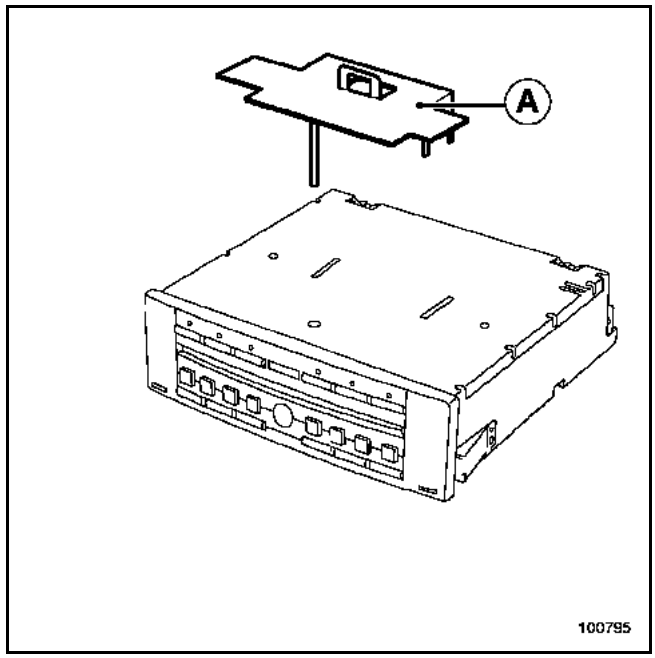
IMPORTANT
The CD changer is supplied uncoded. As soon as the CD changer is installed on a vehicle, it is programmed with the receiver-amplifier code.

The clearing code is required if the security code is lost.

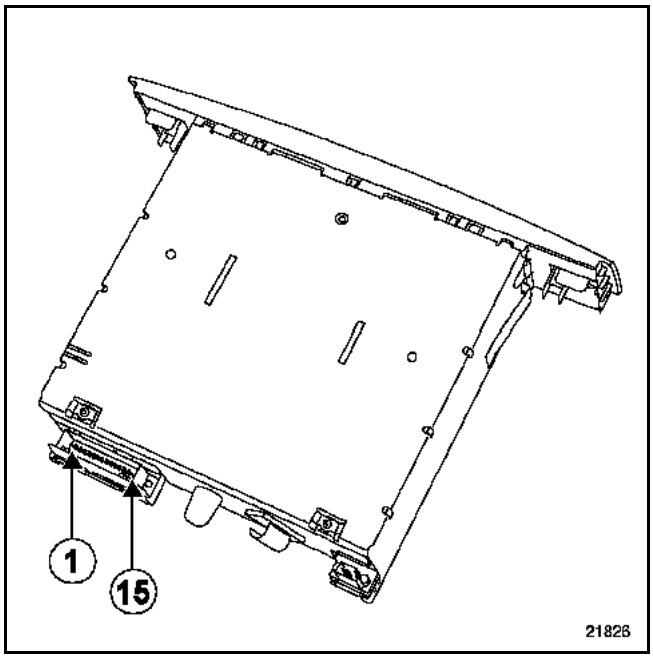
The CD changer is removed from the front panel using special tool (Ms. 1639).



IMPORTANT
Transport piece (**A**) must be removed before a new CD changer is connected, otherwise the CD changer could be damaged.



CHANGER IN THE DASHBOARD



CONNECTION

Black connector

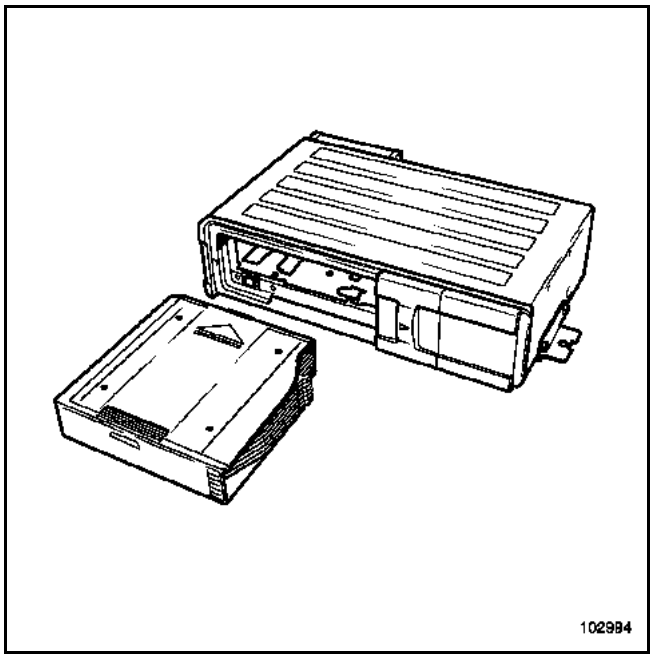
Track	Description
1	Not used
2	+ lighting feed
3	Not used

Green connector

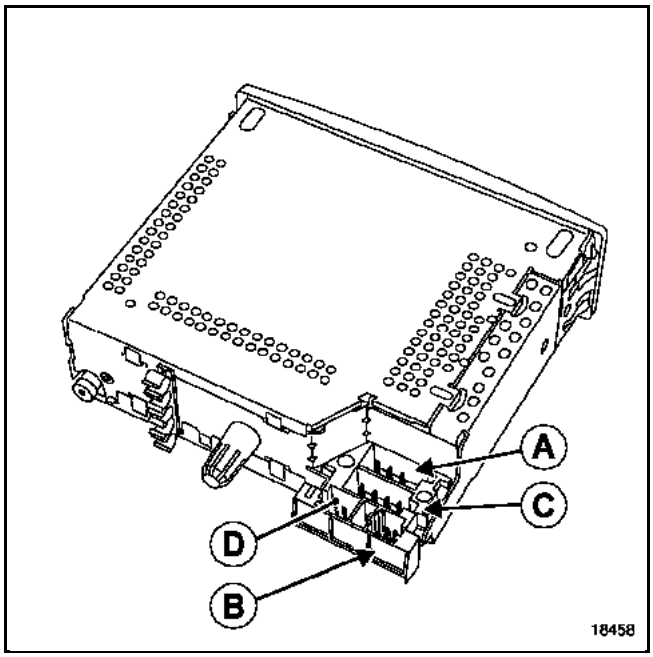
Track	Description
1	Amplifier connection (track 15)
2	Amplifier connection (track 14)
3	Amplifier connection (track 13)
4	Amplifier connection (track 17)
5	Not used
6	Not used
7	Not used
8	Not used
9	Amplifier connection (tracks 19 and 20)
10	Amplifier connection (track 18)
11	Amplifier connection (tracks 19 and 20)
12	Amplifier connection (track 15)
13	Amplifier connection (track 15)
14	Not used
15	Amplifier connection (track 16)

CHANGER IN THE BOOT OR WITHOUT SPECIFIC LOCATION

Note:
The CD changer does not have a security code.



The CD changer is connected to radio equipment connector (**D**)



Tuner-amplifier	CD changer
Track 13	Track 2
Track 14	Track 3
Track 15	Tracks 1 and 10
Track 16	Track 5
Track 17	Track 7
Track 18	Track 6
Tracks 19 and 20	Tracks 4 and 8

IMPORTANT
The CD changer is uncoded. It is fully interchangeable with any other **entry level** or **top-of-the-range** radio.

THE RADIO-NAVIGATION SYSTEM BEEPS APPROXIMATELY EVERY SECOND	ALP 1
THE RADIO-NAVIGATION SYSTEM DOES NOT WORK (NO SOUND) WHEN "RADIO ON" IS PRESSED	ALP 2
THE RADIO DOES NOT SWITCH ON AUTOMATICALLY OR GOES OFF AFTER 20 MINUTES	ALP 3
THE RADIO-NAVIGATION SYSTEM IS SWITCHED ON, BUT THE DISPLAY AND SATELLITE DO NOT WORK	ALP 4
THE DISPLAY DOES NOT WORK	ALP 5
THE DISPLAY ON THE SCREEN STAYS FROZEN	ALP 6
NO TIME DISPLAY OR TIME DISPLAY INCORRECT	ALP 7
LIGHTING DOES NOT CHANGE WHEN THE VEHICLE LIGHTS ARE SWITCHED ON	ALP 8
THE VOLUME DOES NOT INCREASE WITH THE VEHICLE SPEED	ALP 9
NO GUIDANCE VOICE MESSAGES	ALP 10

NO MUTING WITH A HANDS-FREE TELEPHONE KIT → ALP 11

RADIO RECEPTION FAULTS → ALP 12

POOR SATELLITE RECEPTION → ALP 13

THE CD CHANGER DOES NOT WORK → ALP 14

IMPOSSIBLE TO ACTIVATE GUIDANCE → ALP 15

FOLLOWING A NAVIGATION CD ROM UPDATE, THE SYSTEM DOES NOT WORK → ALP 16

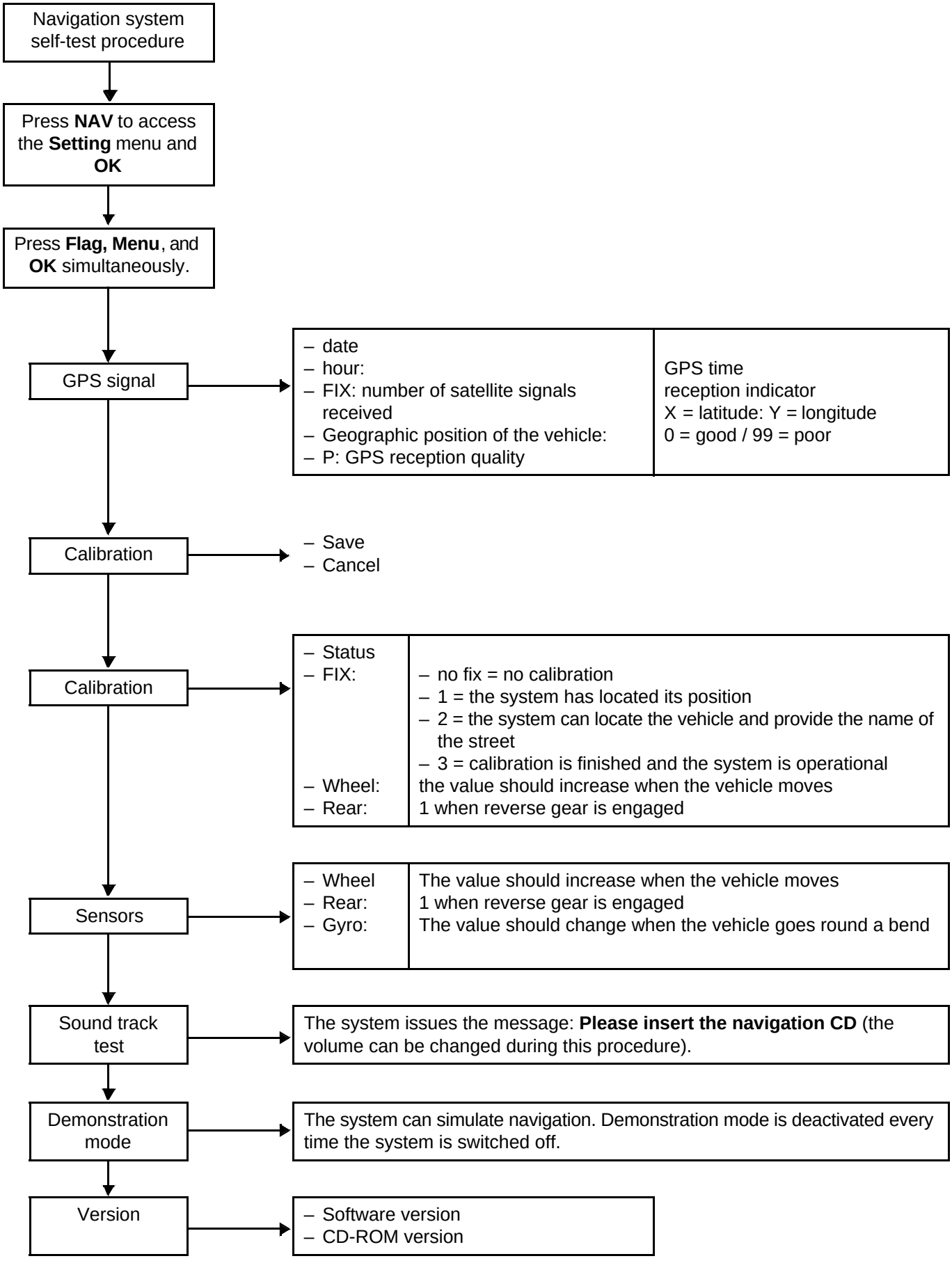
THE SCREEN STAYS PERMANENTLY BLACK → ALP 17

IMPORTANT

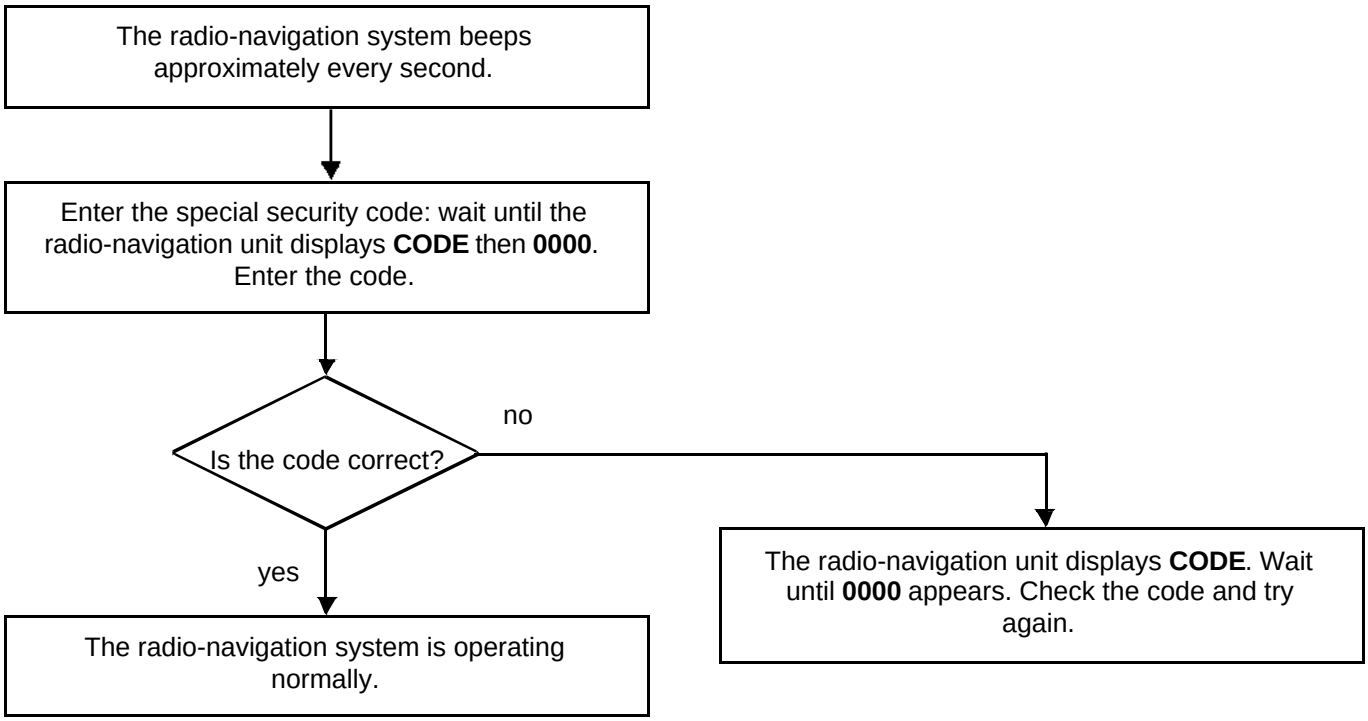
Faults are often related to radio-navigation software (bugs). For example, the keypad becomes inoperative, the radio does not operate correctly, the display or the sound are faulty...

Often, disconnecting the radio-navigation unit and then reconnecting it after a few seconds (by the connector or the fuse) or using the **RESET** menu function is all that is needed to solve this type of fault.

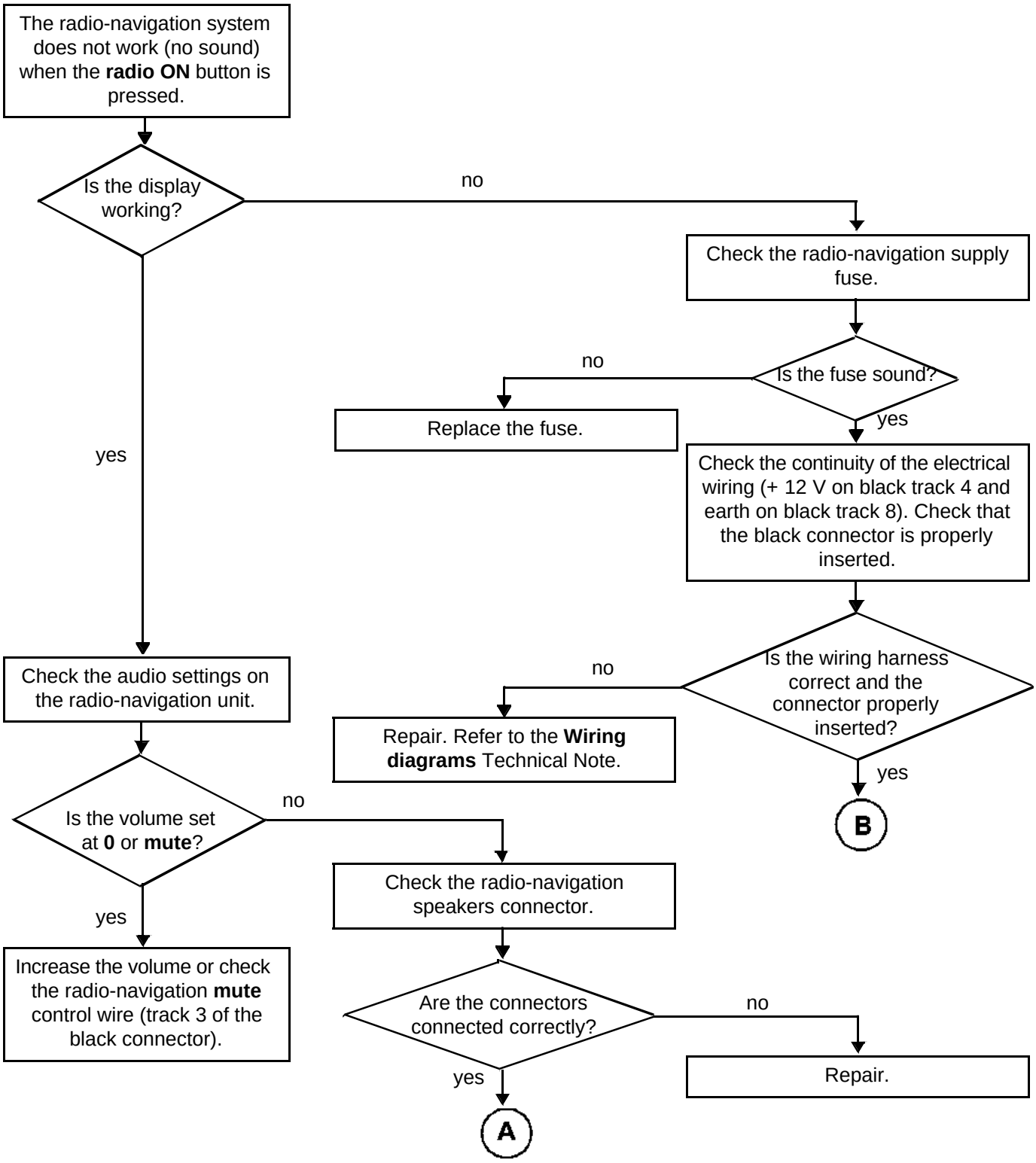
Carry out this operation before checking the wiring harness and before replacing either the radio-navigation unit or the display.

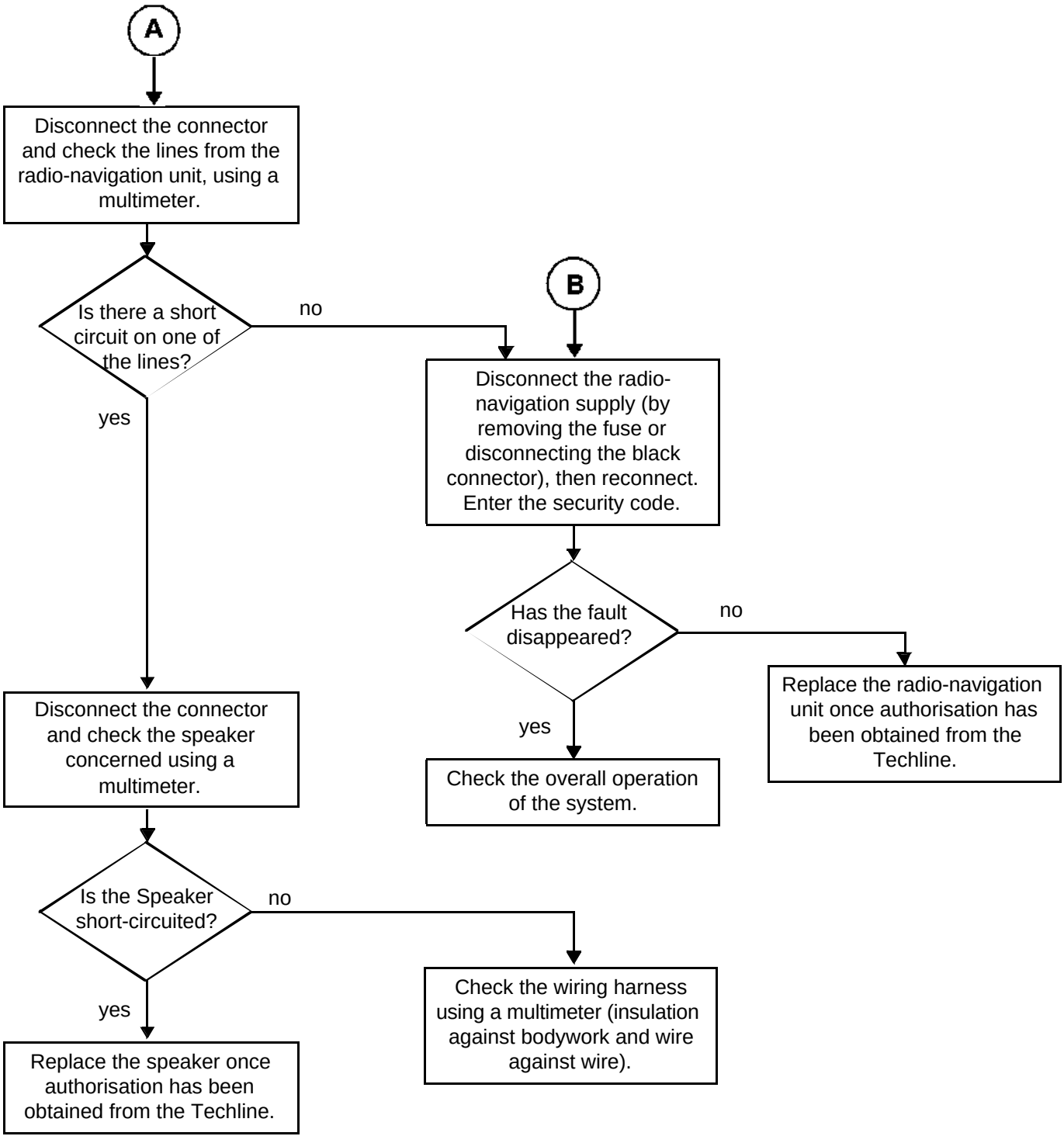

Navigation system self-test procedure
Press **NAV** to access the **Setting** menu and **OK**
Press **Flag, Menu**, and **OK** simultaneously.
GPS signal
– date
– hour:
– FIX: number of satellite signals received
– Geographic position of the vehicle:
– P: GPS reception quality
GPS time
reception indicator
X = latitude: Y = longitude
0 = good / 99 = poor
Calibration
– Save
– Cancel
Calibration
– Status
– FIX:
– no fix = no calibration
– 1 = the system has located its position
– 2 = the system can locate the vehicle and provide the name of the street
– 3 = calibration is finished and the system is operational
– Wheel:
the value should increase when the vehicle moves
– Rear:
1 when reverse gear is engaged
Sensors
– Wheel
– Rear:
– Gyro:
The value should increase when the vehicle moves
1 when reverse gear is engaged
The value should change when the vehicle goes round a bend
Sound track test
The system issues the message: **Please insert the navigation CD** (the volume can be changed during this procedure).
Demonstration mode
The system can simulate navigation. Demonstration mode is deactivated every time the system is switched off.
Version
– Software version
– CD-ROM version

ALP 1	The radio-navigation system beeps approximately every second

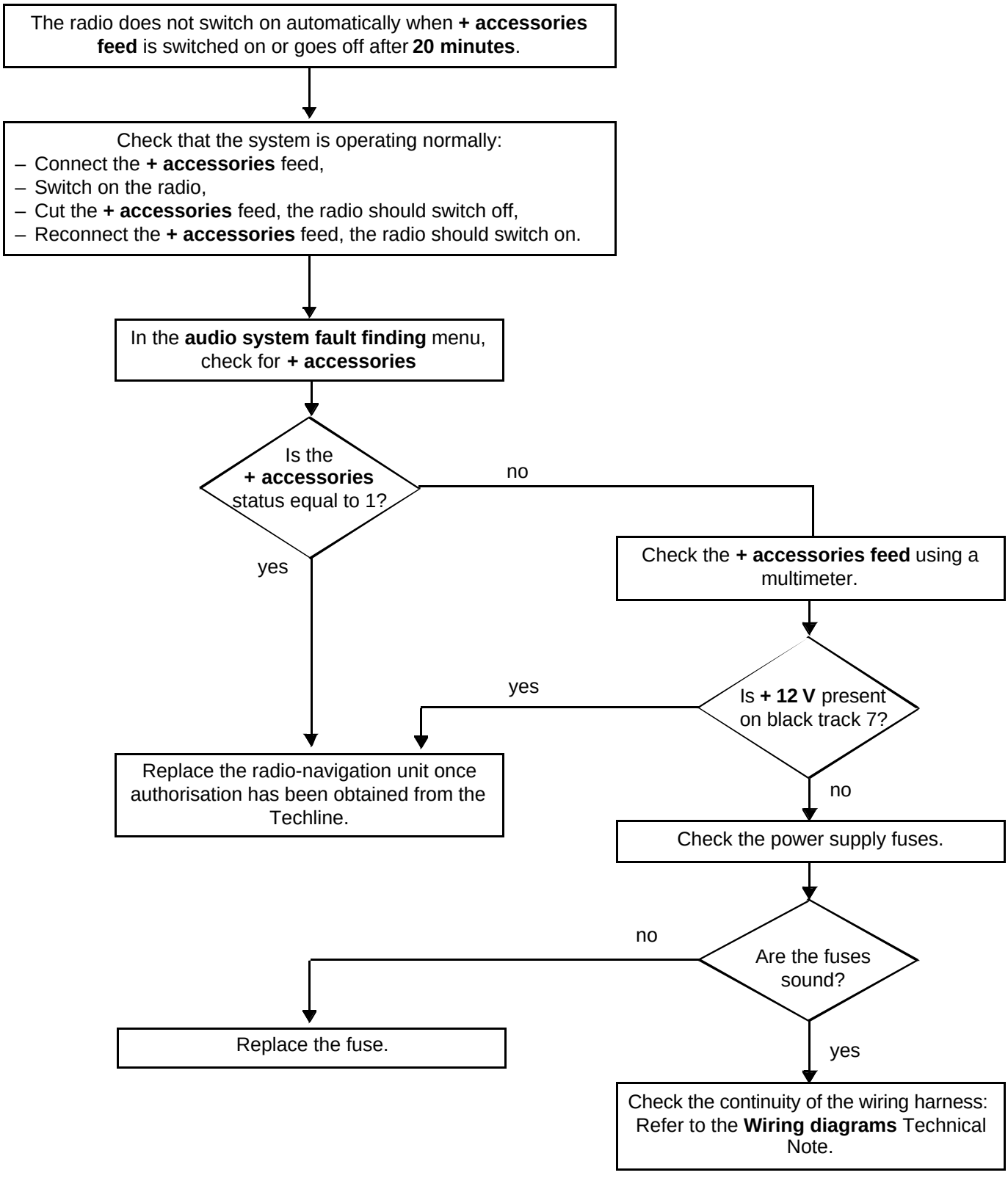


ALP 2	The radio is inoperative (no sound)




A
Disconnect the connector and check the lines from the radio-navigation unit, using a multimeter.
Is there a short circuit on one of the lines?
no
yes
B
Disconnect the radio-navigation supply (by removing the fuse or disconnecting the black connector), then reconnect. Enter the security code.
Has the fault disappeared?
no
Replace the radio-navigation unit once authorisation has been obtained from the Techline.
yes
Check the overall operation of the system.
Disconnect the connector and check the speaker concerned using a multimeter.
Is the Speaker short-circuited?
no
yes
Check the wiring harness using a multimeter (insulation against bodywork and wire against wire).
Replace the speaker once authorisation has been obtained from the Techline.

ALP 3	The radio does not switch on automatically or goes off after 20 minutes



ALP 4	The display does not work

The radio-navigation system works but the display does not light up, (the satellite controls do not work).

Check that the display lights up when the lights or **+ accessories** are switched on.

Does the screen light up?

no

Check the display supply (the fault is not associated with the radio-navigation system).
- + 12 V on track 9
- + accessories on track 7
- **radio ON** feed on track 12
- earth on track 5 of the green 30 track connector

yes

Check the radio / display wiring harness: multiplex connection on tracks 7 and 16 (black vertical connector) / 29 and 30 (display).

Is the wiring harness correct and are the connectors properly inserted?

no

Repair the wiring harness.

yes

Disconnect then reconnect the display.

Is the fault still present?

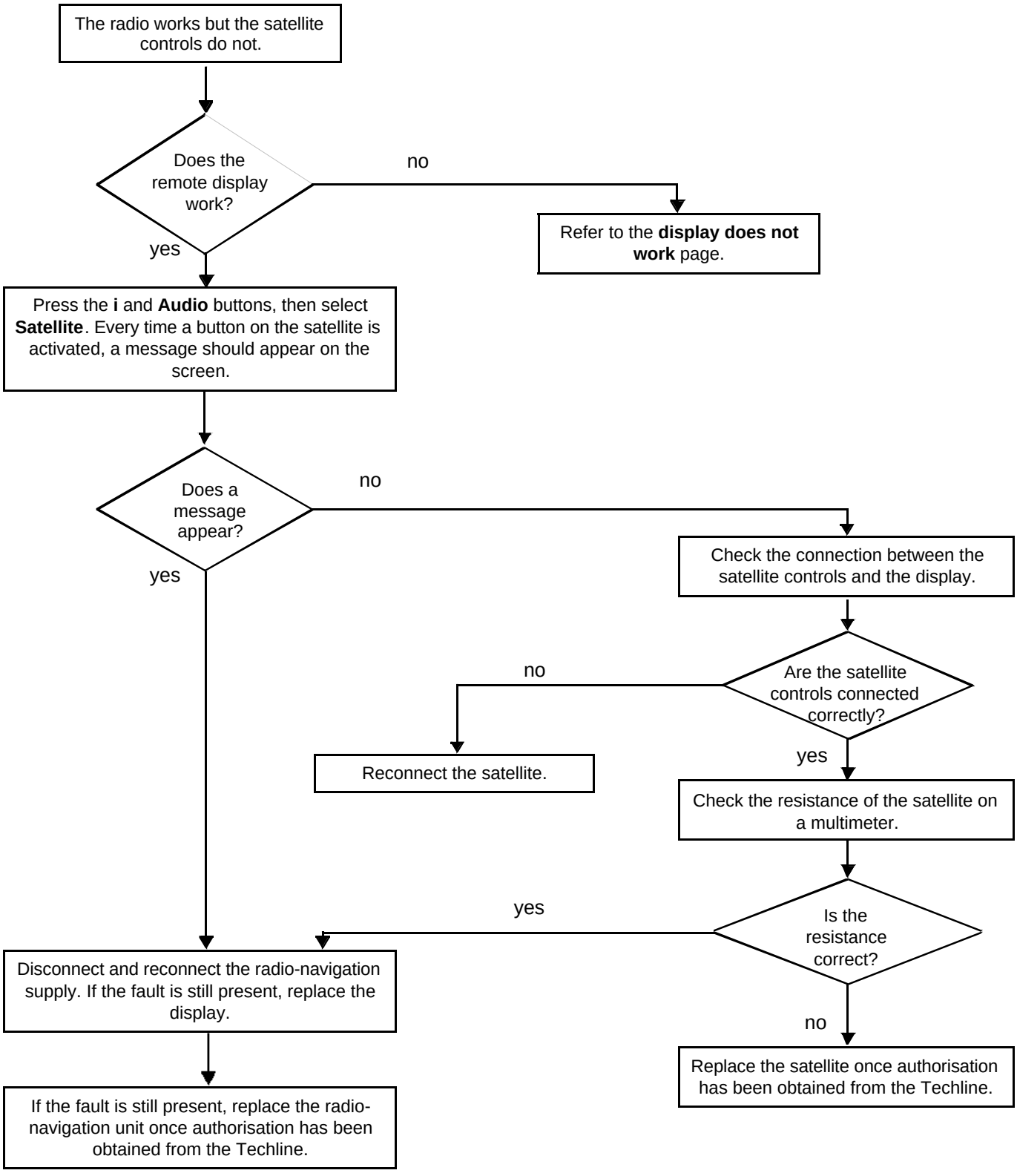
no

Check the overall operation of the system.

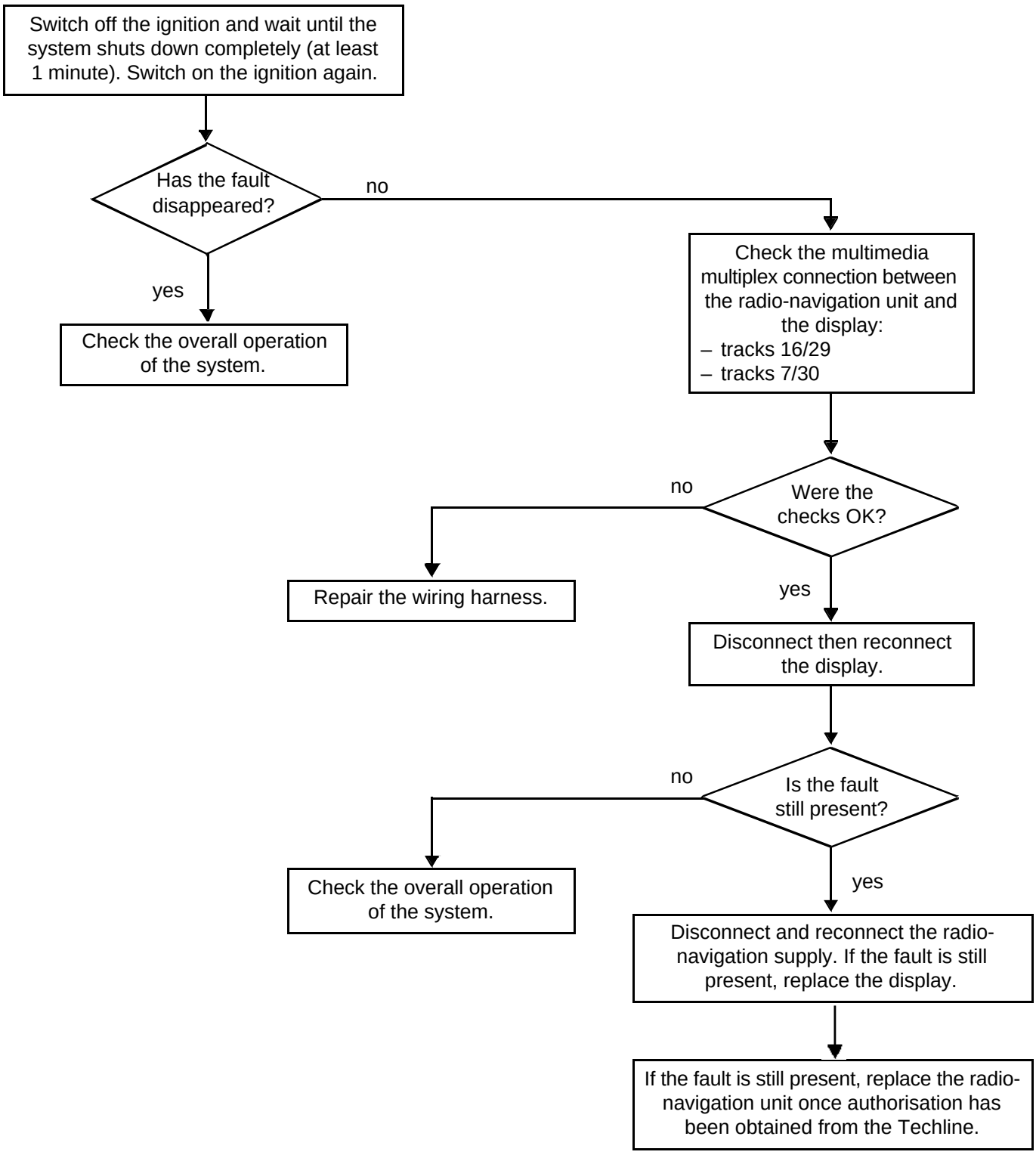
Disconnect and reconnect the radio-navigation feed (black ISO connector). If the fault is still present, replace the display.

If the fault is still present, replace the radio-navigation unit once authorisation has been obtained from the Techline.

ALP 5	The satellite controls do not work



ALP 6	The on-screen display is frozen or the time and temperature display is locked



ALP 7	No display or incorrect time displayed on screen

Position the vehicle outside in a mapped geographical area. Insert the navigation CD-ROM.

↓

In the **Adjust clock** menu, alter the time setting and confirm.

↓

Is the adjustment successful?

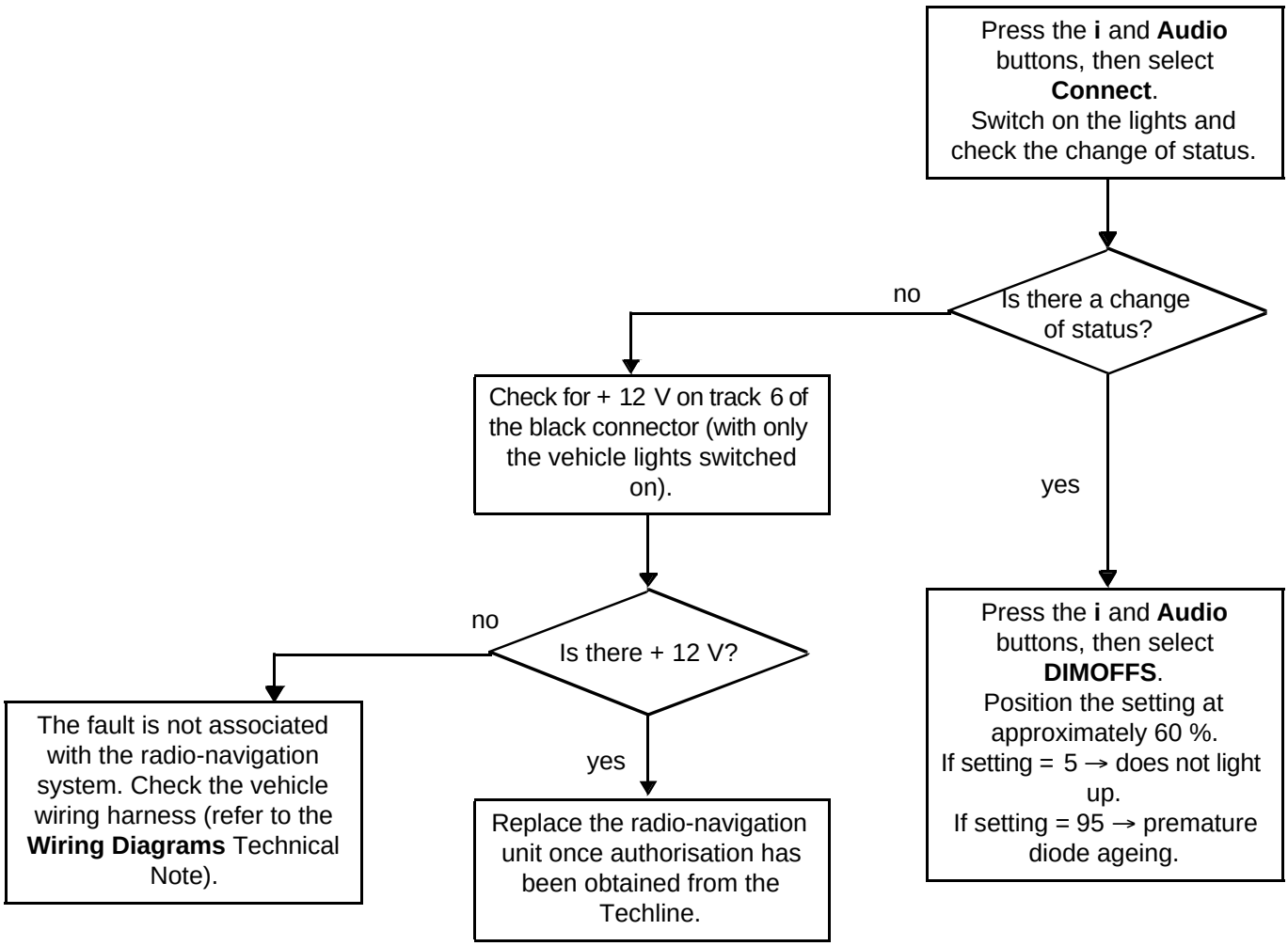
no → The screen displays: **adjustment failed**. Check satellite reception. The FIX indicator must be > 0 (that may take several minutes after positioning the vehicle outside).

yes ↓

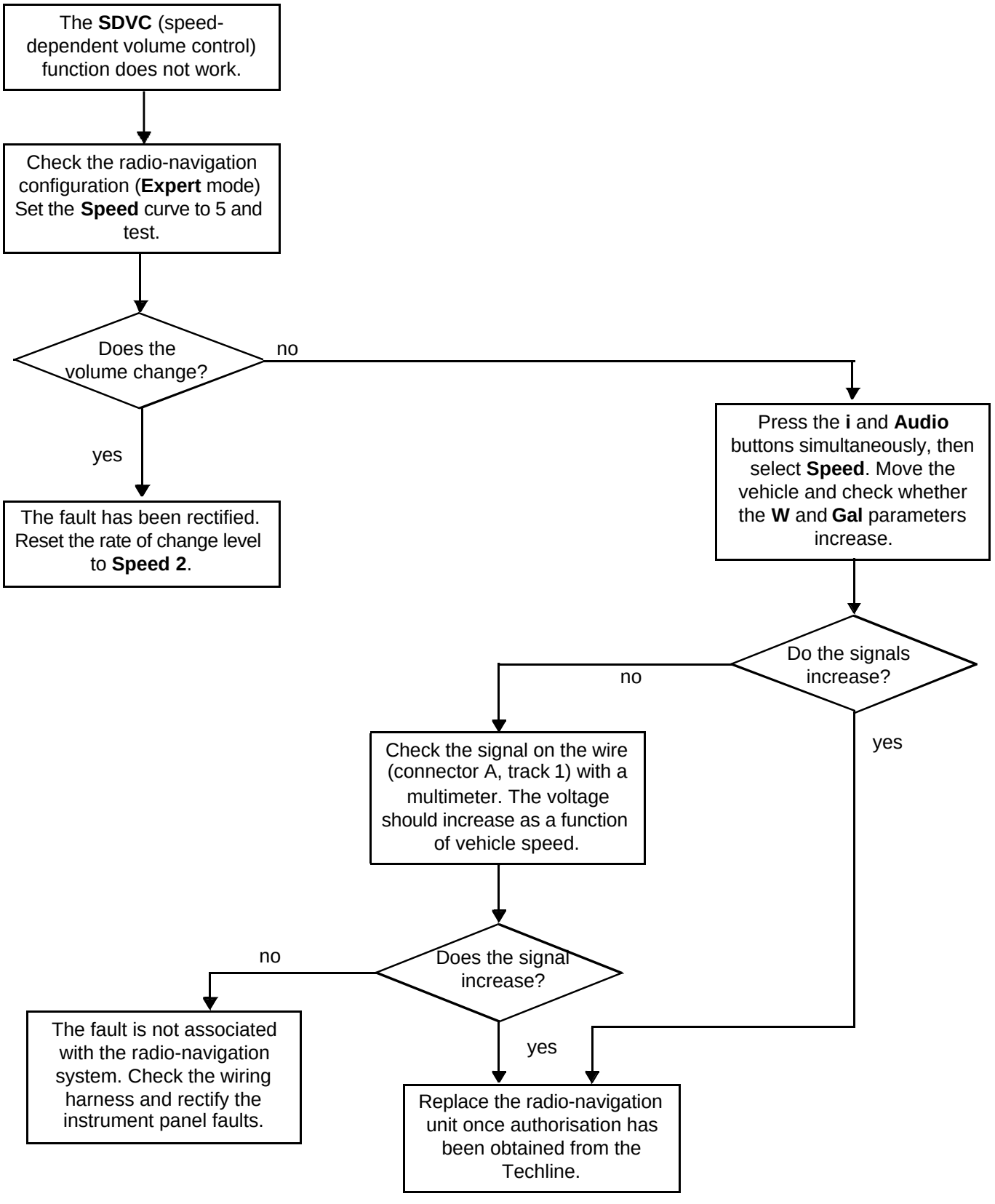
The time displayed is the time regulated by the satellite signal (cannot be fast or slow).

Note:
The change from summer time to winter time is made by the customer.

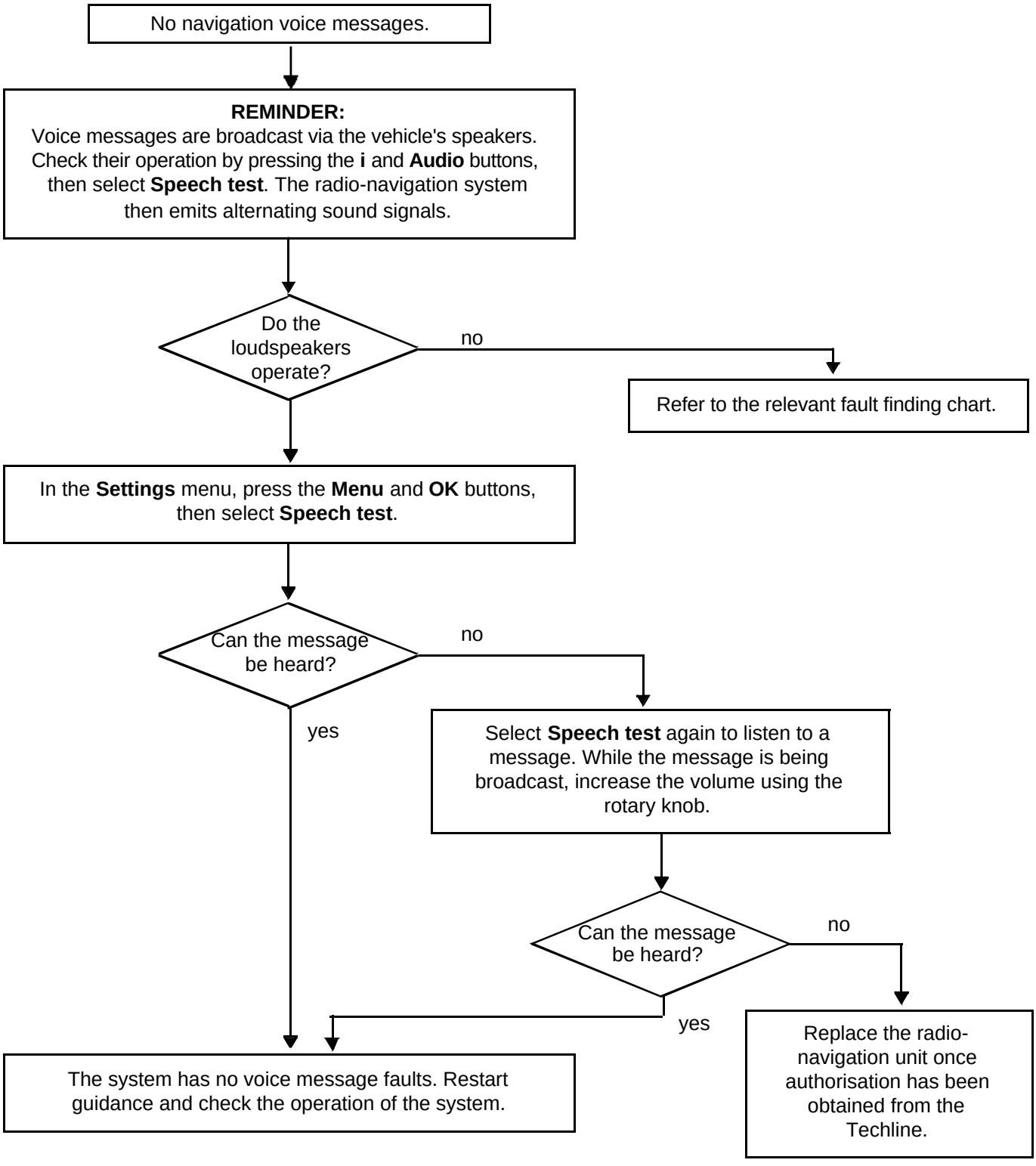
ALP 8	No change in lighting when the lights are switched on (on the front panel of the radio-navigation unit)



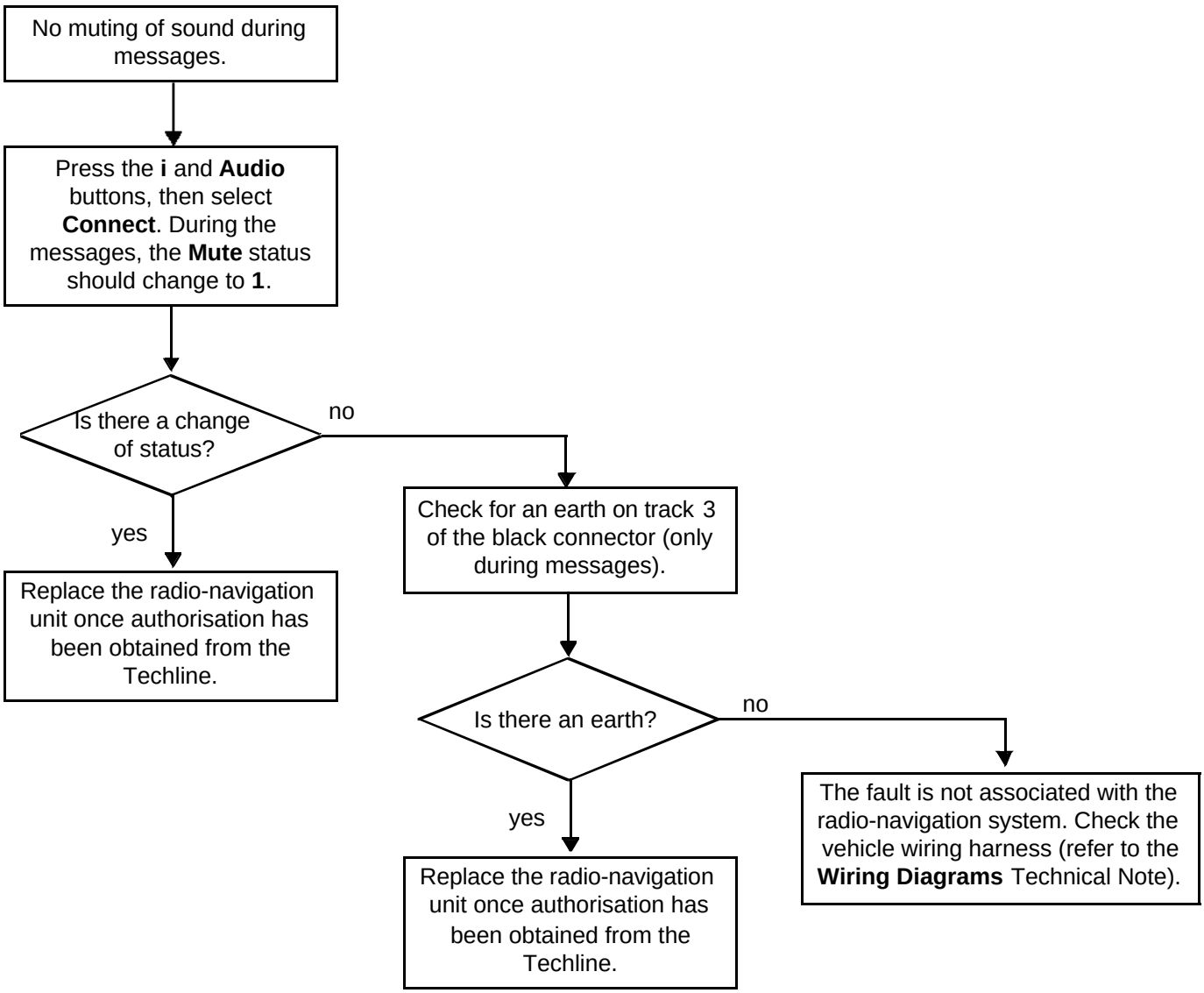
ALP 9	**The volume does not increase with the vehicle speed**.



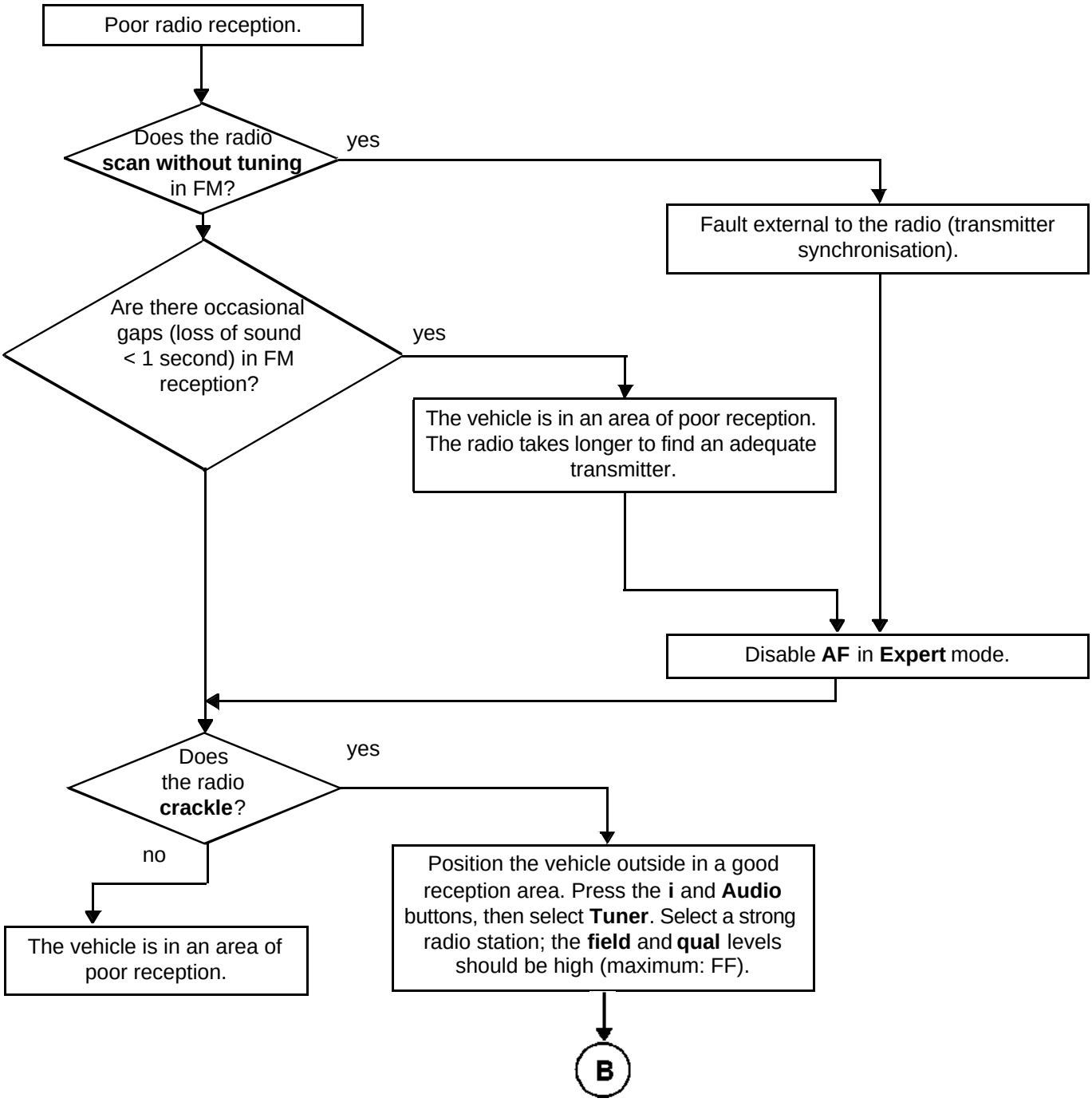
ALP 10	No voice messages

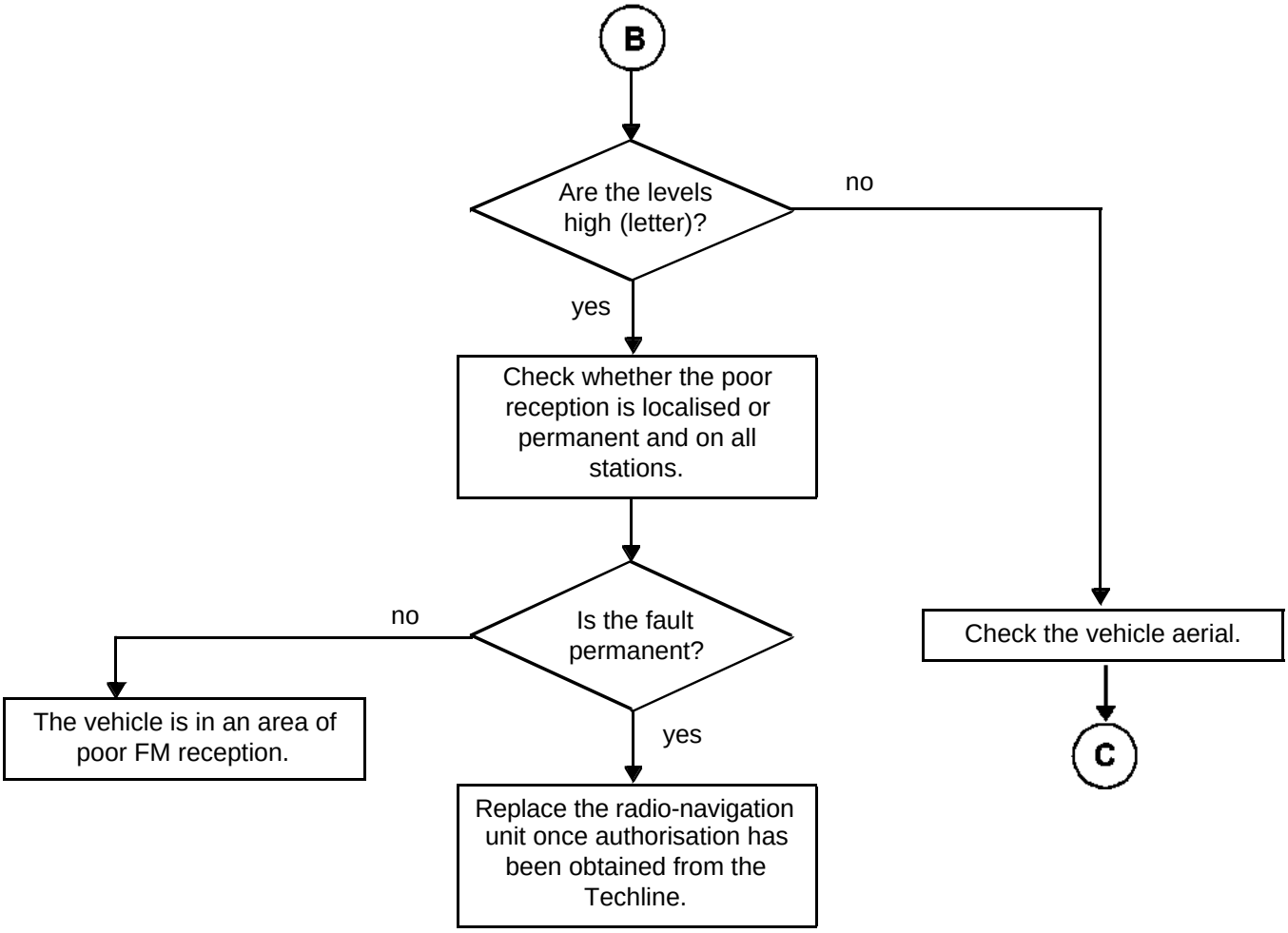


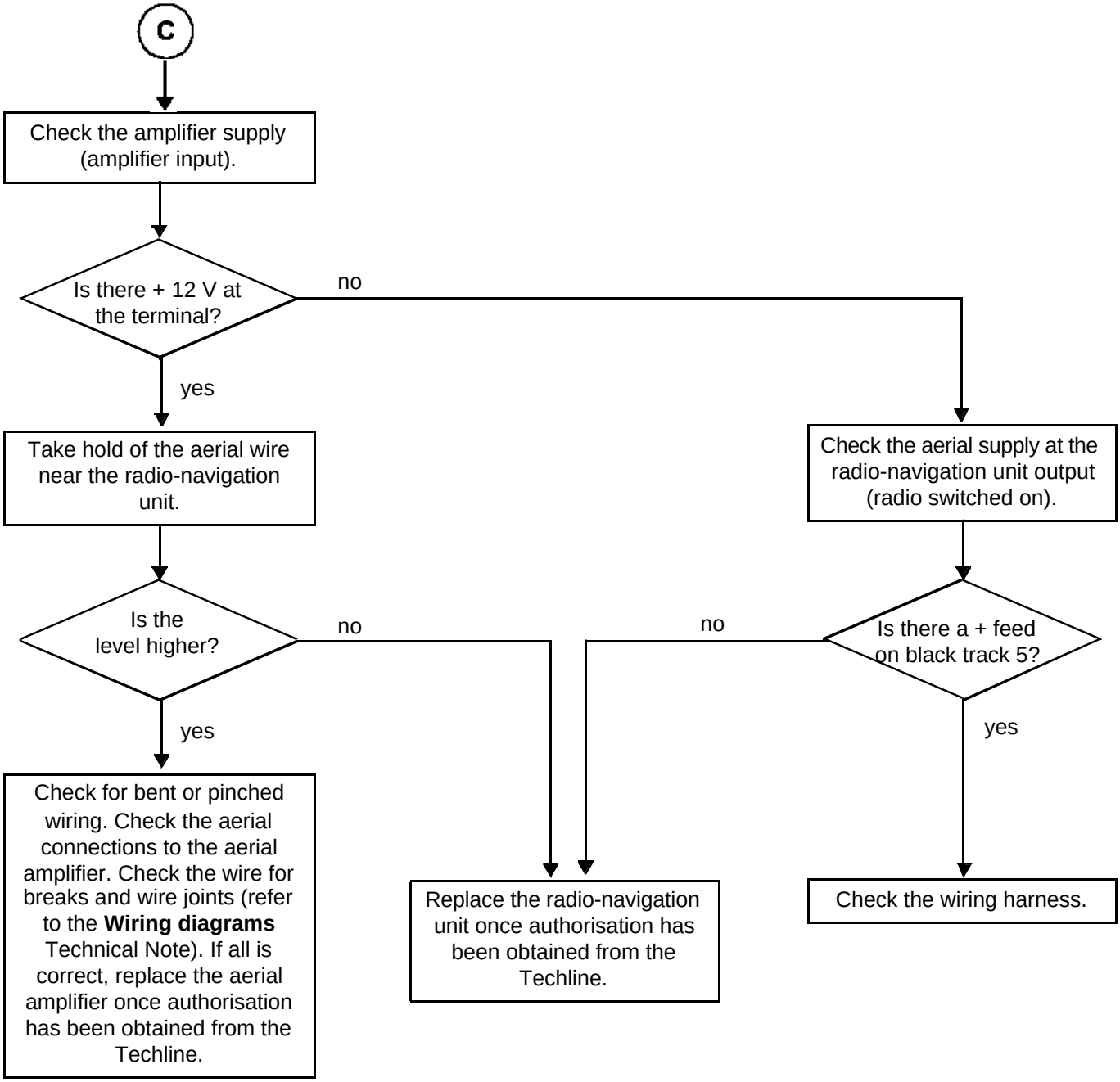
ALP 11	No muting with a hands-free telephone kit



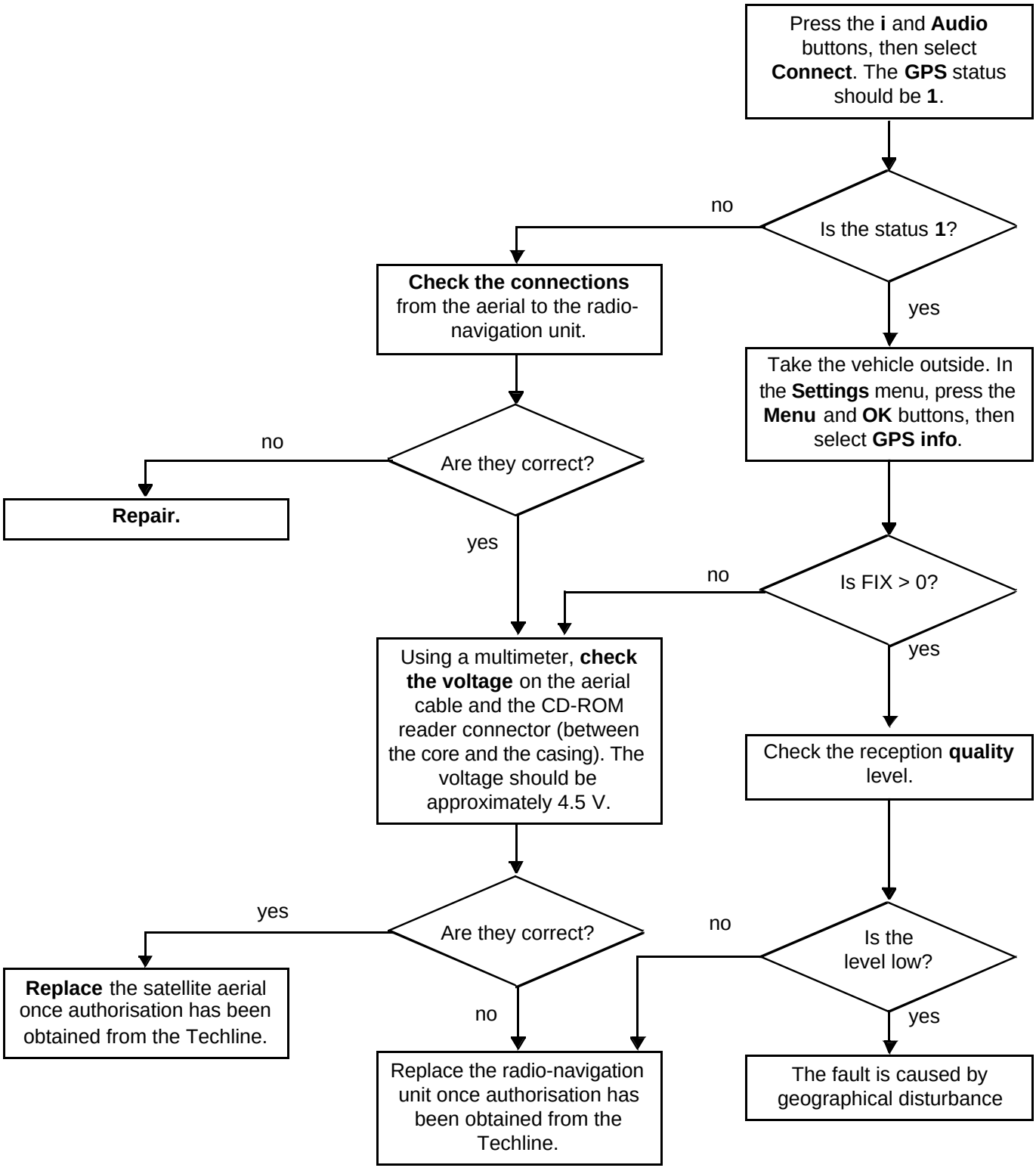
ALP 12	Radio reception faults



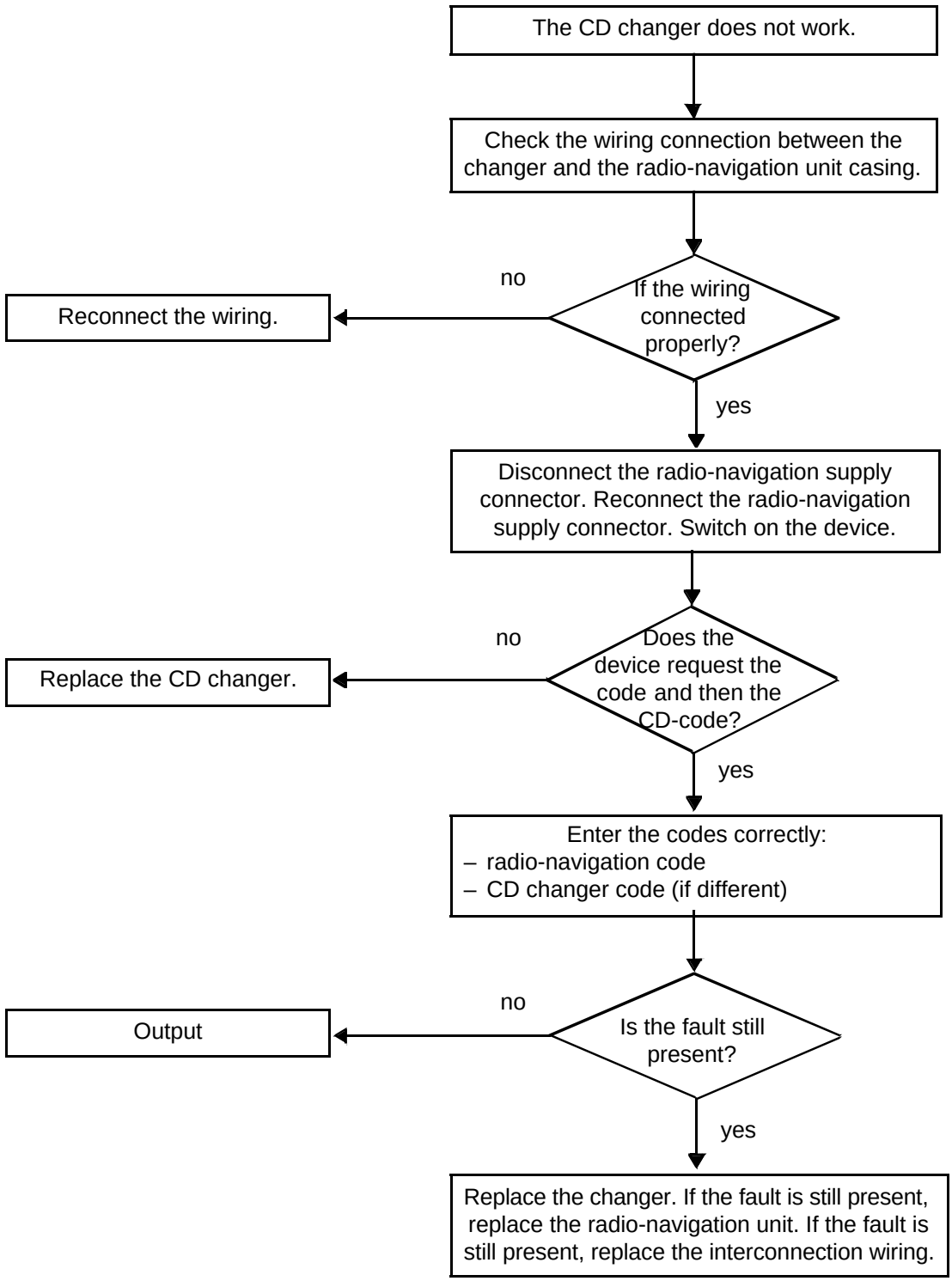

B
Are the levels high (letter)?
no
yes
Check whether the poor reception is localised or permanent and on all stations.
Is the fault permanent?
no
yes
The vehicle is in an area of poor FM reception.
Replace the radio-navigation unit once authorisation has been obtained from the Techline.
Check the vehicle aerial.
C


C
Check the amplifier supply (amplifier input).
Is there + 12 V at the terminal?
no
yes
Take hold of the aerial wire near the radio-navigation unit.
Is the level higher?
no
yes
Check for bent or pinched wiring. Check the aerial connections to the aerial amplifier. Check the wire for breaks and wire joints (refer to the **Wiring diagrams** Technical Note). If all is correct, replace the aerial amplifier once authorisation has been obtained from the Techline.
Replace the radio-navigation unit once authorisation has been obtained from the Techline.
Check the aerial supply at the radio-navigation unit output (radio switched on).
Is there a + feed on black track 5?
no
yes
Check the wiring harness.

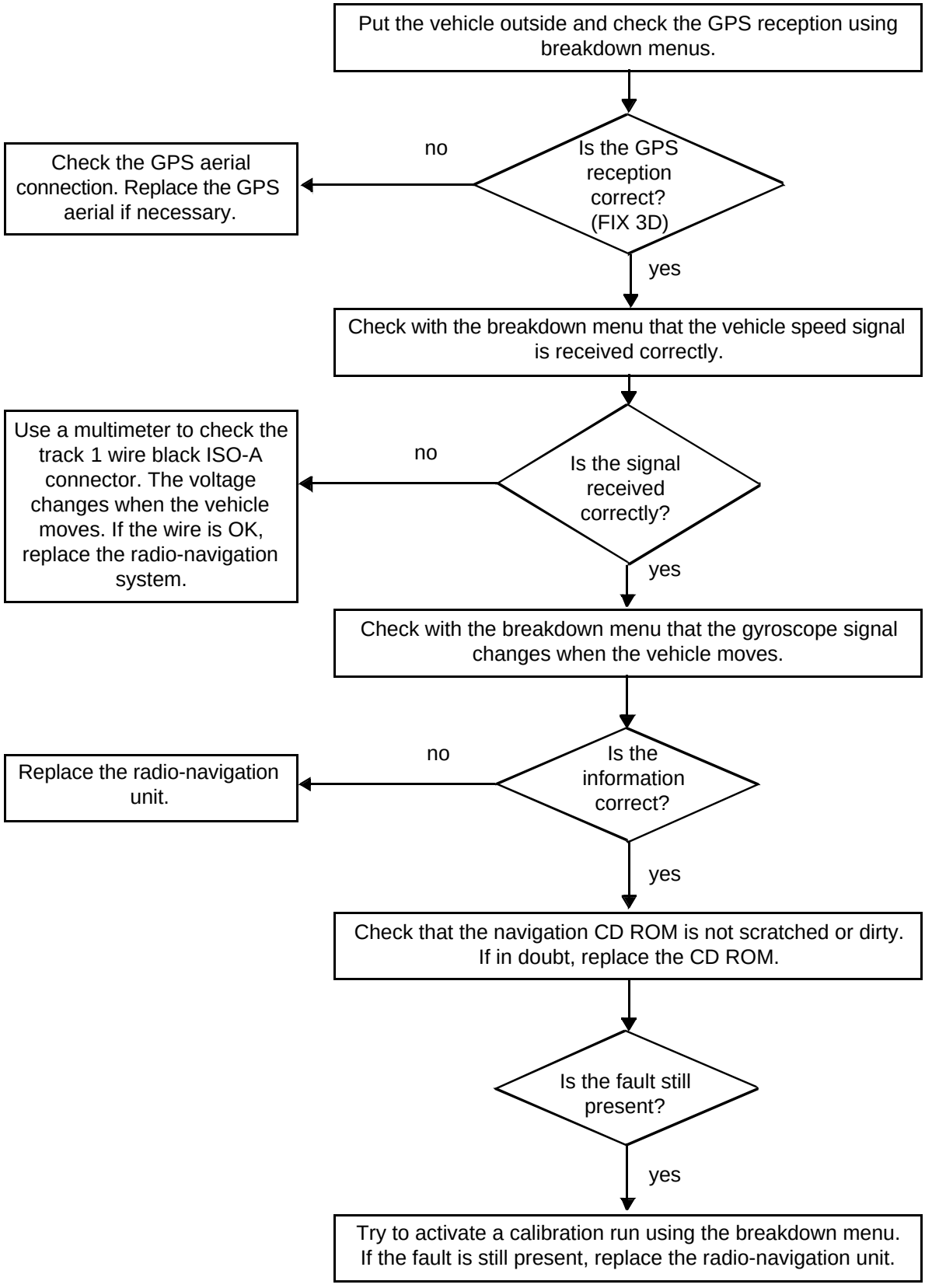
ALP 13	Poor satellite reception



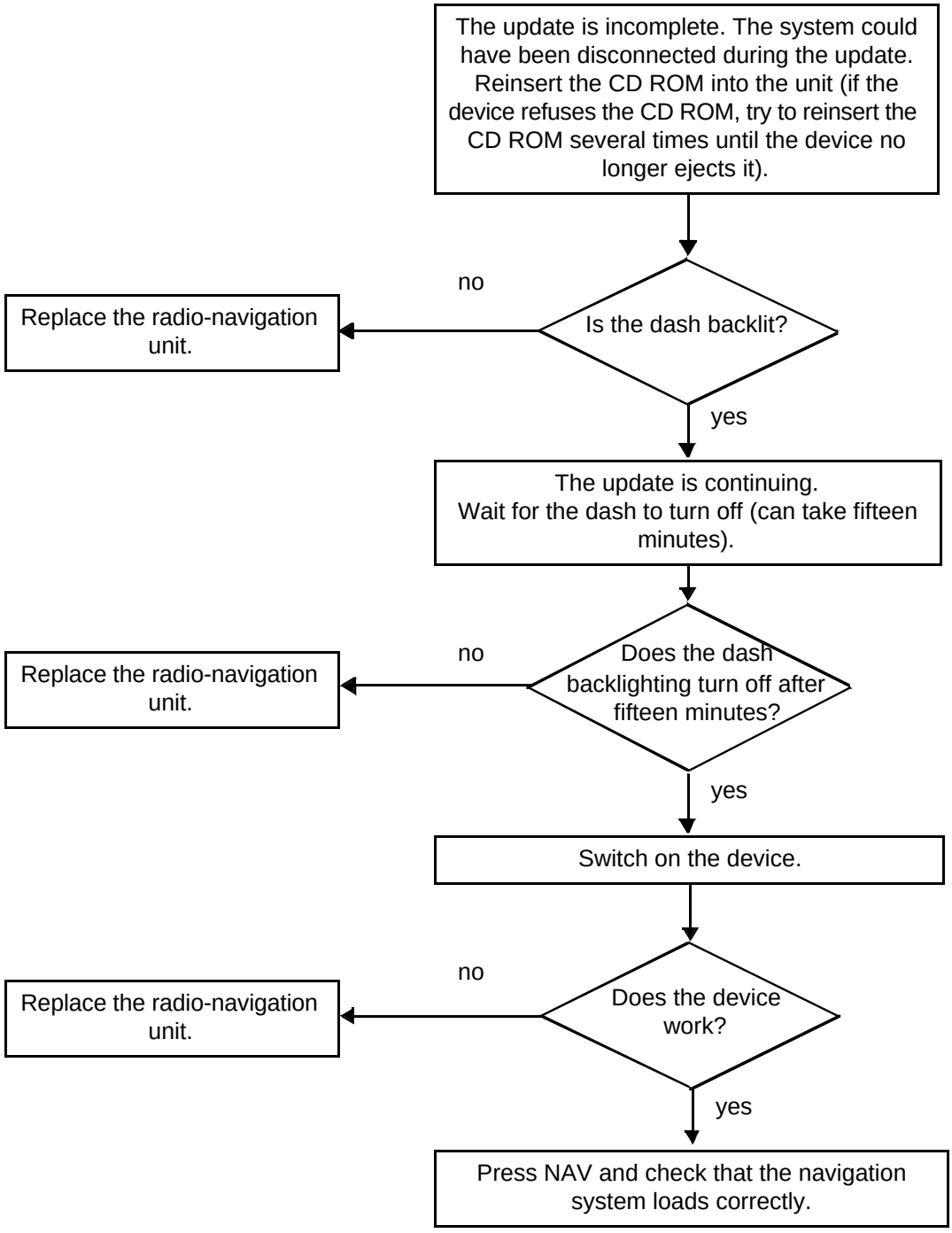
ALP 14	The CD changer does not work (no sound or impossible to access the CDC source)



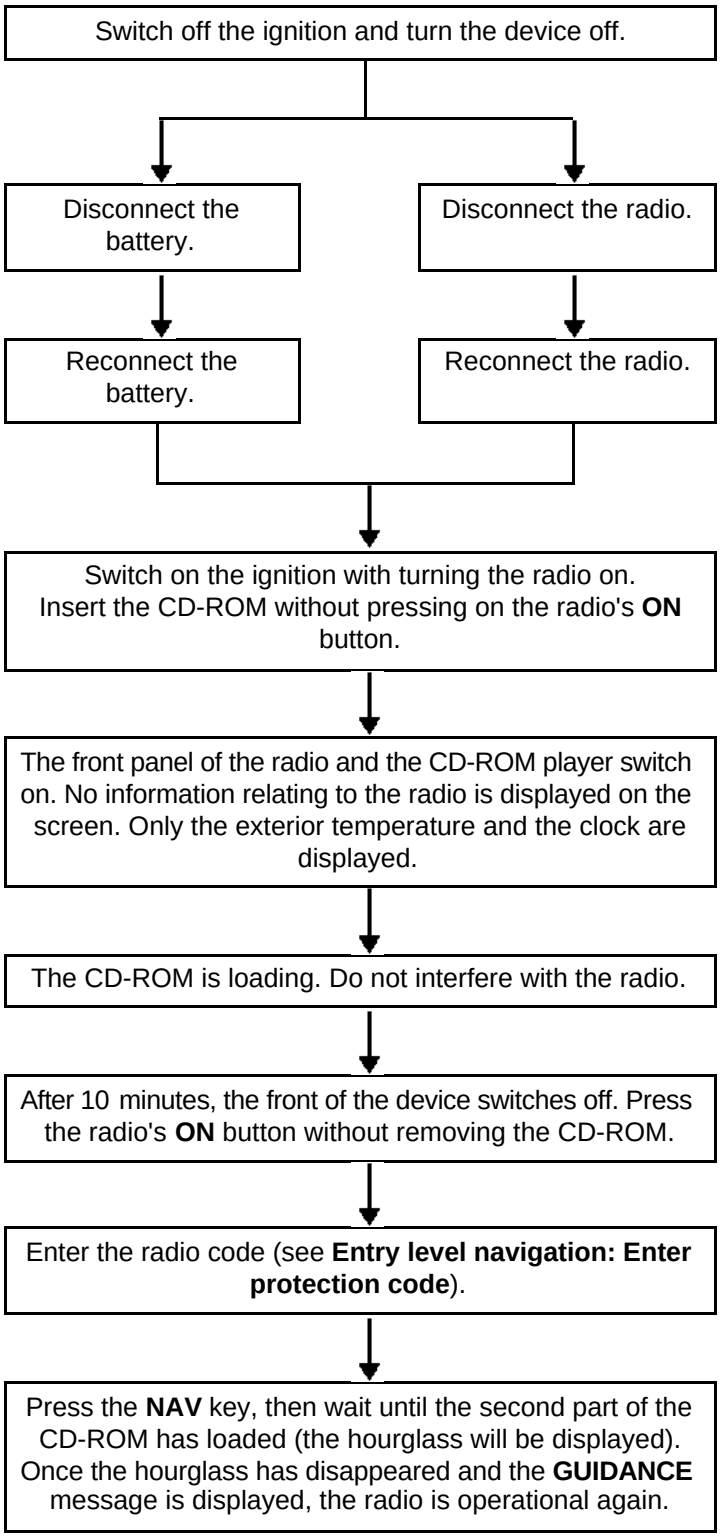
ALP 15	Impossible to activate guidance (guidance never activates or the guidance quality is severely reduced)



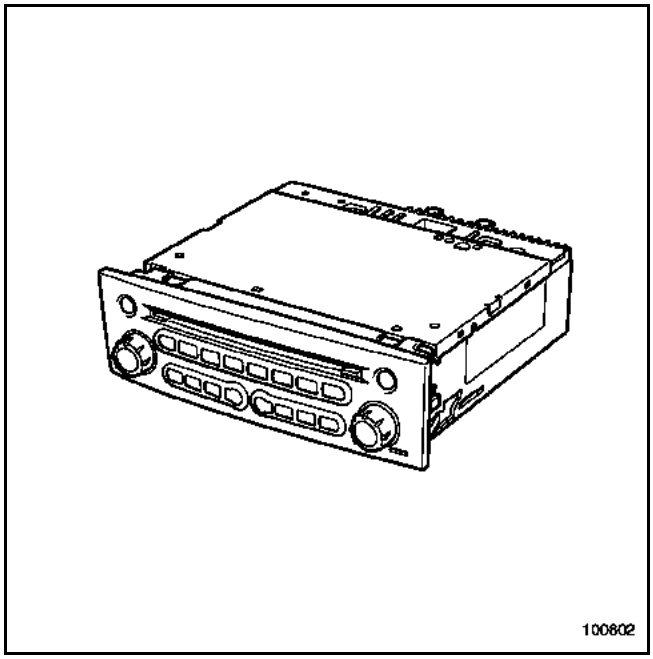
ALP 16	Following a navigation CD ROM update, the system does not work.



ALP 17	The screen stays permanently black

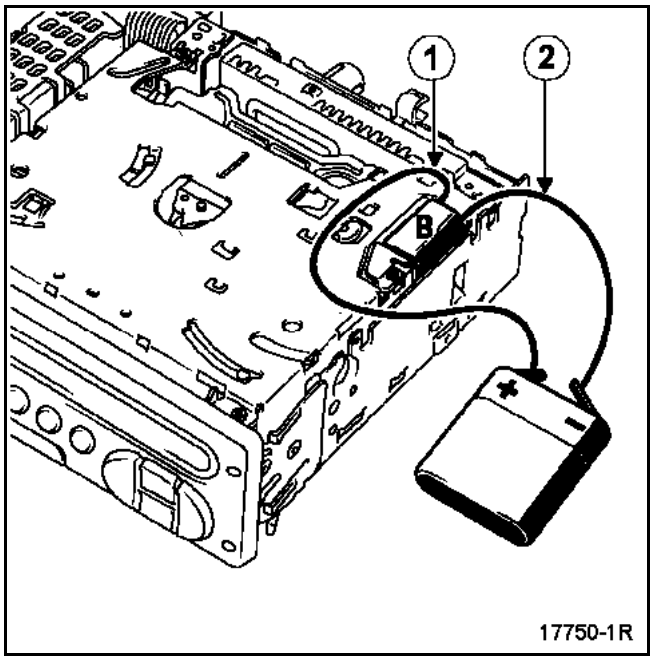


Recovering a jammed CD



First solution

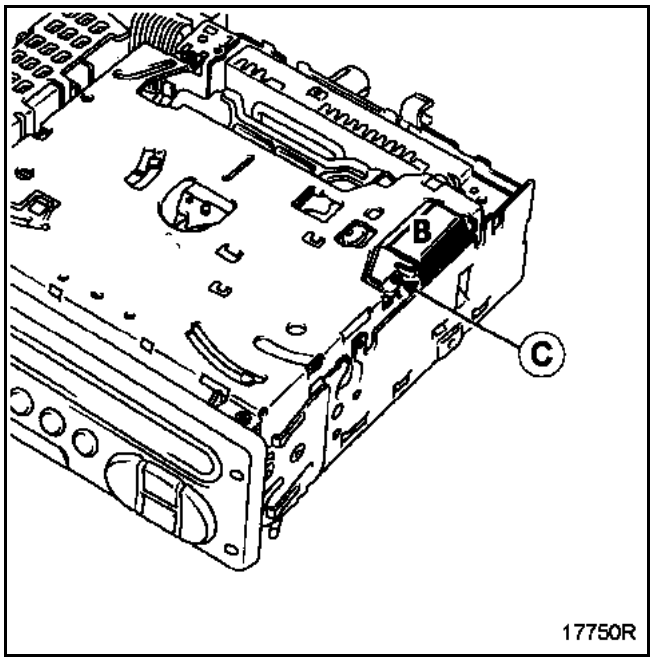
If the electrical ejector motor is operational, eject the CD ROM using a **4.5 V** battery to supply electric motor (**B**) (attach the + wire to contact (**1**) and the - wire to contact (**2**) when ejecting the CD ROM).



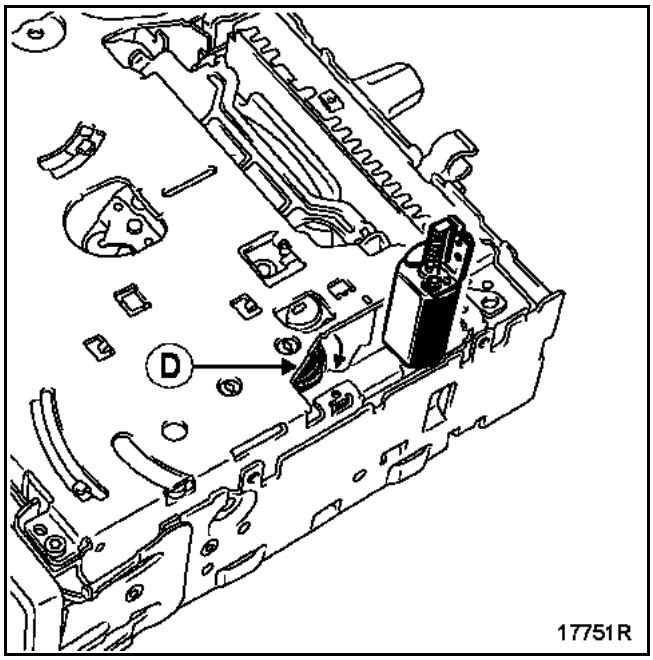
Recovering a jammed CD

Second solution

If the electrical ejector motor is not operational, remove screw (**C**) and release electrical motor (**B**).



Turn toothed wheel (**D**) by hand in a clockwise direction until the CD ROM is ejected.



Before replacing the radio:

- refit the electric motor and attach it using the bolt (second solution only),
- close the unit again and reattach the upper section using the retaining bolt from the old models.