

This unit is a radio- cassette player (or audio unit) with:

- a remote control (satellite) located on the right hand side of the steering wheel, which has the same functions as the main controls on the audio set which is also used for entering the confidential code (see below),
- a remote display unit located in the dashboard.

Special note on Megane

With the "CD player" option the audio unit is also designed to control the CD player located in the boot or under the left hand front seat, depending on the vehicle.

In this case the text "CD changer control" is marked on the front of the unit.

NOTE : there are two types of satellite and two types of display. Depending on the vehicle, the audio set will be connected to one of the two satellites and one of the two displays.

Sound is distributed in the vehicle by speakers which are located for optimum sound quality.

For security reasons, each set is coded.

Each time + before ignition feed is cut, a code must be entered (four figures) which is supplied by the manufacturer to allow the system to operate.

IMPORTANT: when preparing a new vehicle, the scrambled mode operation must be cancelled (see page 86-3). Before any operation on the vehicle, check that the customer has the confidential code.

OPERATIONAL SPECIFICATIONS

- A high performance radio tuner, with **PLL** frequency synthesiser and microprocessors, allowing processing and storing of many types of information, in particular, in **Autostore (or Autoprogramming)**, automatic selection of the best stations broadcasting your **FM** programmes:
 - five wave bands **L (GO) - M (PO) - U1 (FM1) - U2 (FM2) - U AST (Autoprogramming on FM)**,
 - **AST (Autostore)** : automatic storing of the six best received stations on FM,
 - six preselections per wave band,
 - manual or automatic electronic search for stations in increasing or decreasing frequencies,
 - automatic mono / stereo switching,
 - two levels of stop sensitivity for electronic searching may be selected from the front panel,
 - for **FM**, decoding of the **RDS** sub-carrier :
 - automatic monitoring of preset stations on the same network,
 - "clear" display of the programme name,
 - "Traffic information" function,
 - broadcast of urgent messages.
- A cassette reader with "autoreverse" system enabling the direction of reading at the end of the tape to be changed automatically:
 - mechanical insertion and removal of the cassette,
 - "Hard Permalloy" reading head with automatic Chrome/Ferrous switching when the cassette is inserted,
 - fast forward and reverse blank search (**MSS** system),
 - **Dolby B** button = noise reduction,
 - withdrawal of the tape head when the cassette stops,
 - radio listening during fast winding phases.
- Four low frequency amplifiers, each delivering a power of **15 Watts + /- 1 dB** :
 - electronic adjustment of volume, balance and fader,
 - left - right speaker balance,
 - front - rear speaker balance,
 - "Loudness" key for sound relief,
 - separate control of bass and treble.
- A remote liquid crystal display showing the time*, external temperature * and radio / cassette reader / CD player* functions (if an option).

Depending on vehicle and option.

- A Compact Disc player enabling 12 cm CD discs to be read:
 - sequential access possible to each track on the disc,
 - "scanning" of the first 10 seconds of each track on the selected disc.

* Depending on vehicle.

PREPARATION OF RADIOS ON NEW VEHICLES

For security reasons, when the set leaves the factory, it will operate in the following way.

When the set is turned on, beeps will be heard every **3 seconds** over the radio, cassette or CD sound, for **2 minutes**.

The display alternates every second between displaying the message which shows the active mode status (radio, cassette or **CD**) and the message "**CODE**".

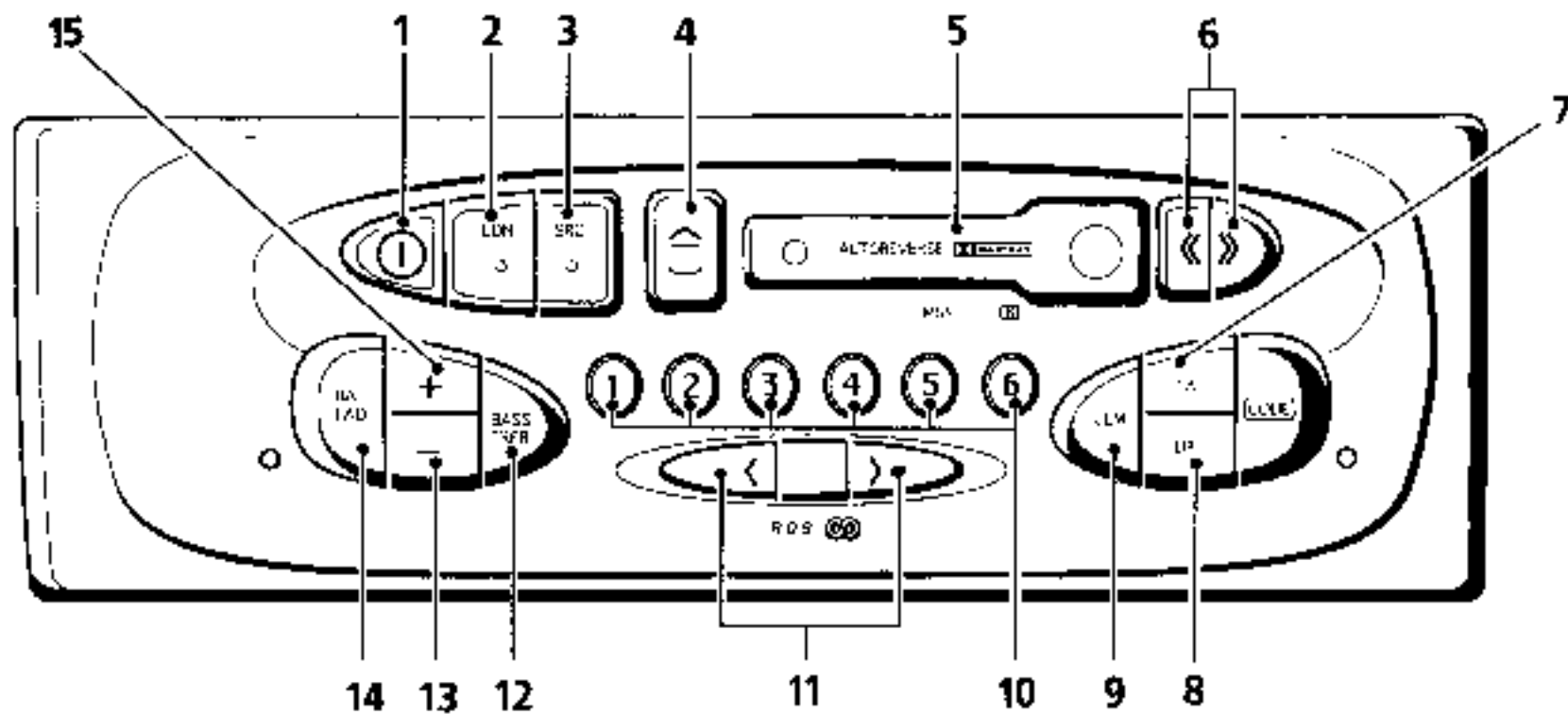
While the active mode message is displayed all functions will be operational.

After **2 minutes**, the set will be silent and the display will permanently show "**CODE**".

This mode of operation is called "**scrambled mode**".

To cancel the scrambled mode, enter the code when the set displays "**CODE**" (see page **86-11**).

AUDIO UNIT

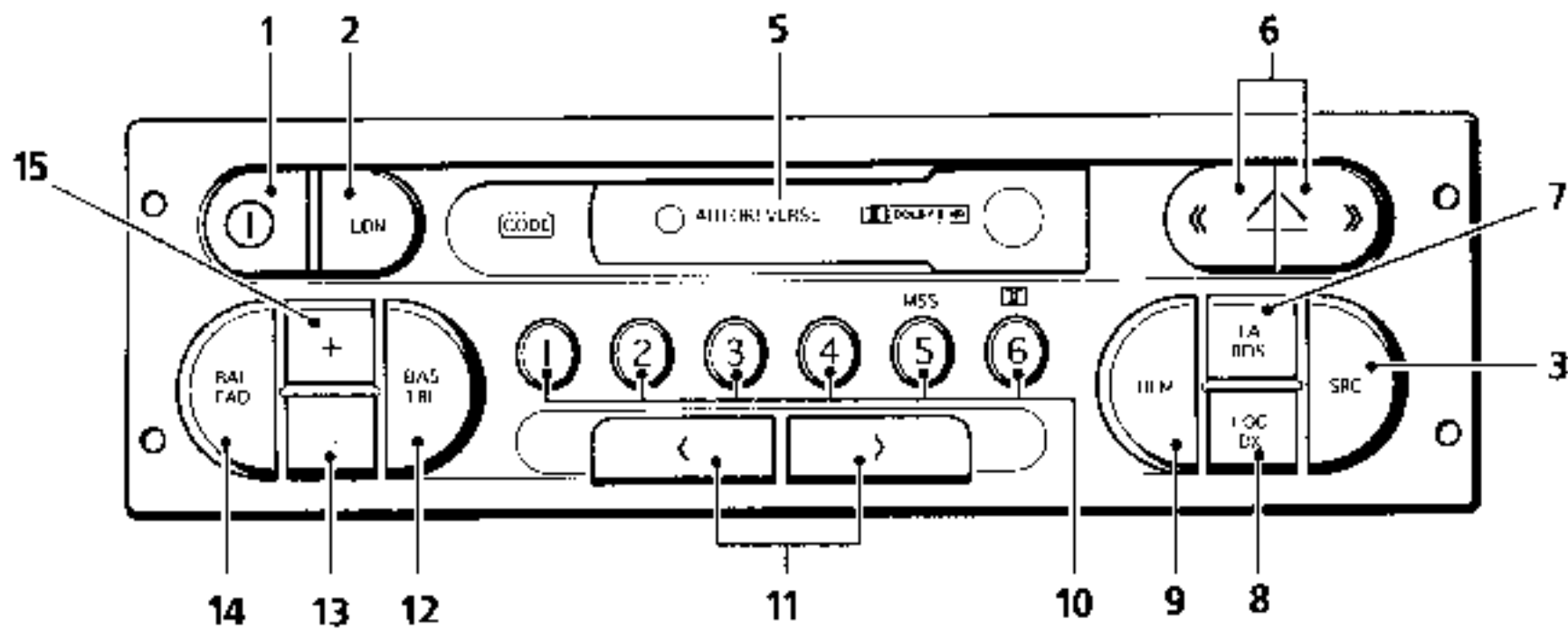


1227B-1R

- 1 Radio, cassette reader, CD* player, satellite and remote display On/Off button.
- 2 Loudness button for adding sound relief.
- 3 Active source selection button according to the cycle: radio/cassette reader/CD* player/radio/...
- 4* Cassette eject button.
- 5 Cassette reader compartment.
- 6 Multifunction buttons:
 - Fast cassette winding/rewinding.
 - Pressing the two buttons simultaneously :
 - reverses the direction of winding during reading of a cassette by keeping gently pressed,
 - ejects the cassette when pressed fully down**.
- 7 Multifunction button:
 - Cancellation / activation of **RDS** mode which automatically monitors stations, by pressing and holding the button (more than **2 seconds**).
 - Selection of "**Traffic information**" mode by briefly pressing the button. Selects stations broadcasting traffic information.

* Depending on vehicle and option.

** Depending on vehicle.



12134R

8 Automatic search stop sensitivity selection button:

LOC : Normal search stop sensitivity. The electronic search will only stop on stations received with a sufficient clarity to allow comfortable listening.

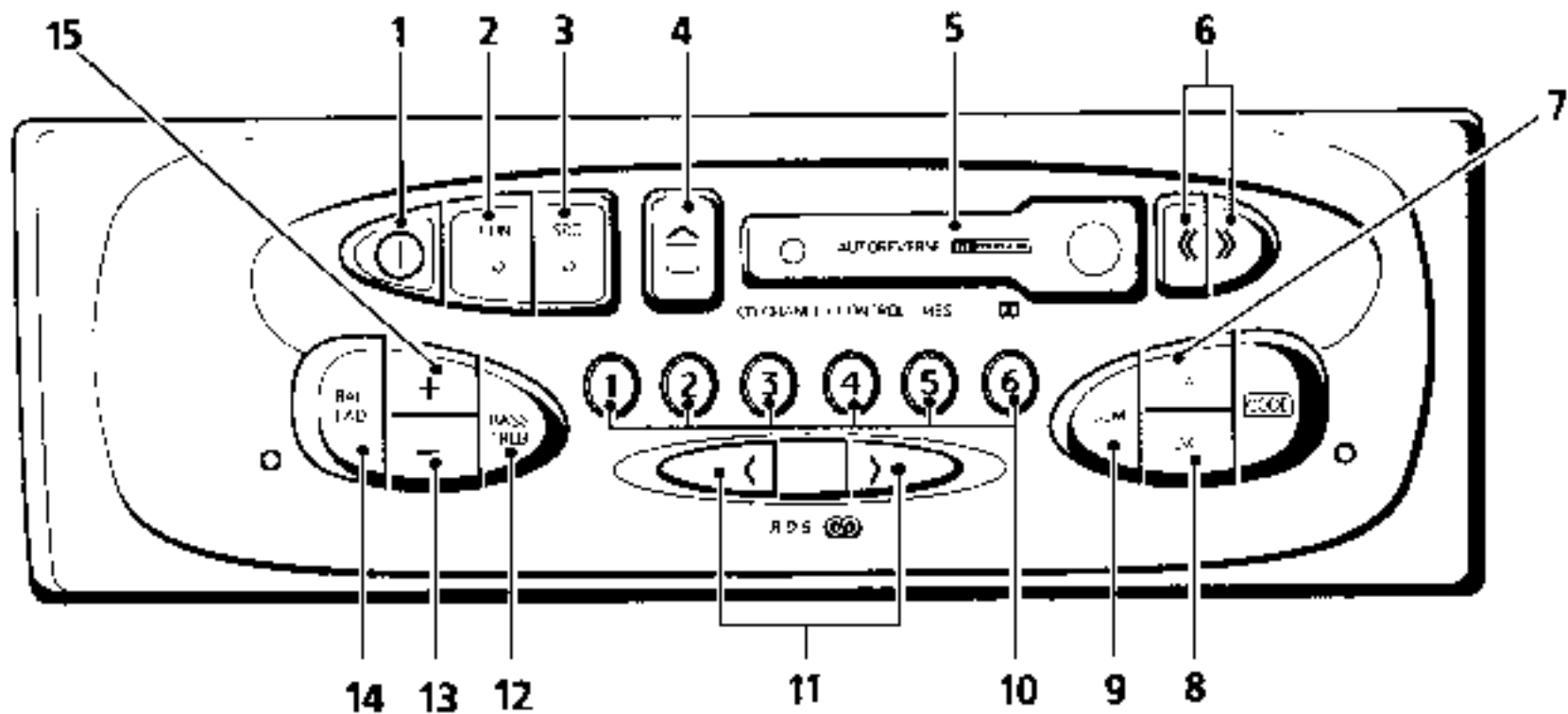
- **DX** : Increased search stop sensitivity. The electronic search will stop at all stations received, even if clarity is not optimal.

9 Wave range selection button according to the following cycle : **GO (L)** / **PO (M)** / **U1 (FM1)** / **U2 (FM2)** / **AST (Autoprogramming in FM)** / **GO (L)** / **PO (M)** / ...

10 Multifunction buttons :

- **Radio mode** :
 - Recall of radio preselections (**10-1** to **10-6**) by briefly pressing (for less than **2 seconds**). Storing the radio stations by keeping pressed (longer than **2 seconds**).
- **CD* player mode** :
 - Select one of the six discs in the **CD player** cassette by briefly pressing the corresponding button (**10-1** to **10-6**).
 - Activates (or deactivates) the "**scanning**" at the beginning of each track of one of the six discs in the cassette by keeping the corresponding button pressed (**10-1** to **10-6**).
- **Cassette reader mode**:
 - Switching on or off the track search system (**MSS**) based on silent or "track search" intervals.
 - Switching on or off the noise reduction system (Dolby B).

* Depending on vehicle and option.



12270R

11 Multifunction buttons :

- **Radio mode :**
Manual search for a station in increasing or decreasing frequency according to the button.
- **CD* player mode :**
A brief press selects a track on the current disc.

12 Button for selecting the bass and treble adjusting mode; the adjustments are then carried out by pressing buttons 13 and 15 on the front panel or 20 on the satellite.

13 "-" button for :

- reducing the volume,
- reducing the bass and treble level,
- adjusting the right/left balance to the right,
- adjusting the front/rear balance (Fader) to the rear.

14 Button for selecting the right/left or front/rear (Fader) balance adjusting mode ; the adjustments are then carried out by pressing buttons 13 and 15 on the front panel or 20 on the satellite.

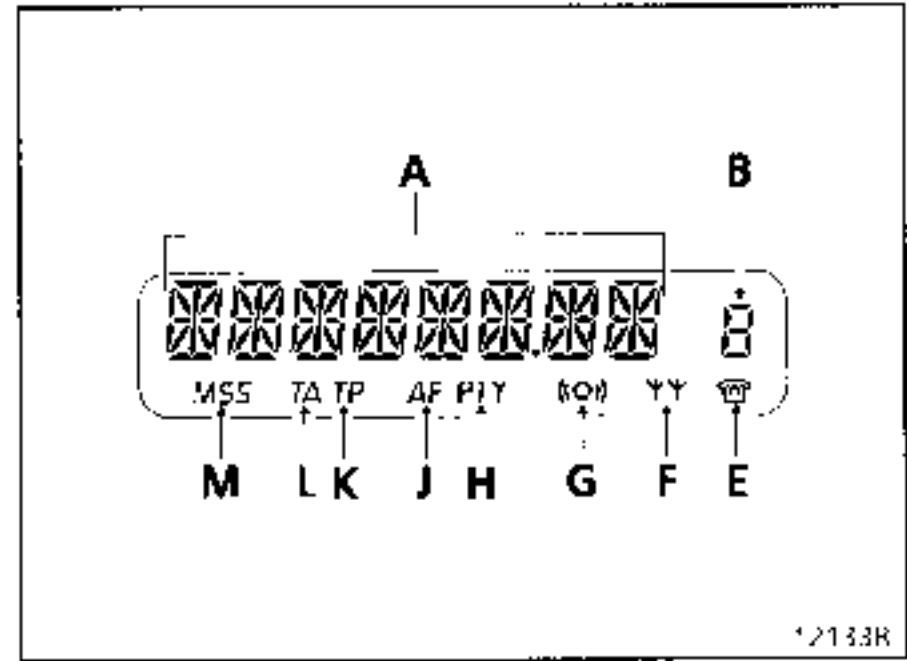
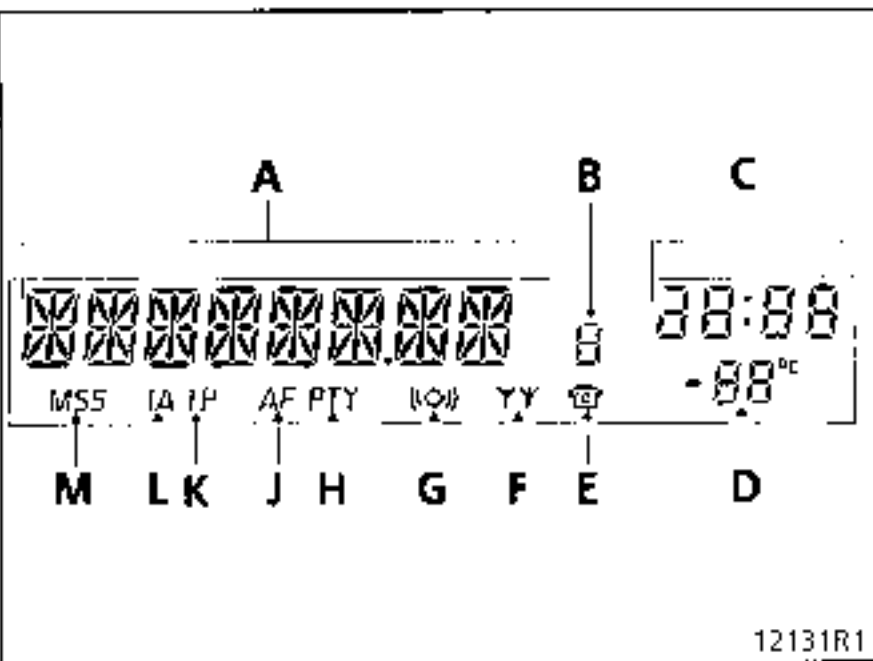
15 "+" button for :

- increasing the volume,
- increasing the bass and treble level,
- adjusting the right/left balance to the left,
- adjusting the front/rear balance (Fader) to the front.

* Depending on the vehicle and option.

DISPLAY

There are two types of displays. Depending on the vehicle, the audio unit will be connected to one or the other.



- A** Various messages : the display gives a permanent indication of the active mode (radio, cassette reader, **CD*** player, audio adjustments, security code, ...).
- B** Active preselection (1 to 6).
- C**** Clock display.
- D**** Display of external temperature.
- E** } .Warning lights for use with a car phone (**GSM**).
F } For more information, refer to the specific documentation
G }
- H** Not used.
- J** Indicator for automatic station monitoring mode. This shows that button 7 has been pressed (and held down).
- K** Indicator showing that a station is liable to broadcast road traffic information (**Traffic Information**). This appears, regardless of the status (active or inactive) of the "**Traffic information**" mode.
- L** "**Traffic information**" mode operation indicator. This shows that button 7 has been pressed (briefly).
- M** Indicator for track search (**MSS**) mode. It indicates that the preselection button 10-5 has been pressed.

* Depending on the vehicle and option.

** Depending on vehicle.

SPECIAL NOTE ON THE FIRST "NEW SAFRANES"

● Display of the date

When the ignition is switched on and when the radio is not operating, the date is displayed at **A**.

● This is done using the two buttons in the lower right hand corner of the display's plastic surround.

- Pressing and holding the left hand button activates the adjustment mode (resetting).
- The selection of the information to be modified (hours, minutes, day, month or year) is obtained by brief presses on the left hand button. This selects in succession, hours, minutes, day, month then year. The selected information flashes on the display.
- Modification of a value, while it is flashing, is carried out using the right hand button; either by successive presses to give a "step by step" change to the value, or by pressing and holding the button to change the value quickly.
- Validation of a value is carried out when another value is selected to be modified; by a brief press on the left hand button.
- Validation of the complete set of values is made by a long press on the left hand button.

● Display of the time

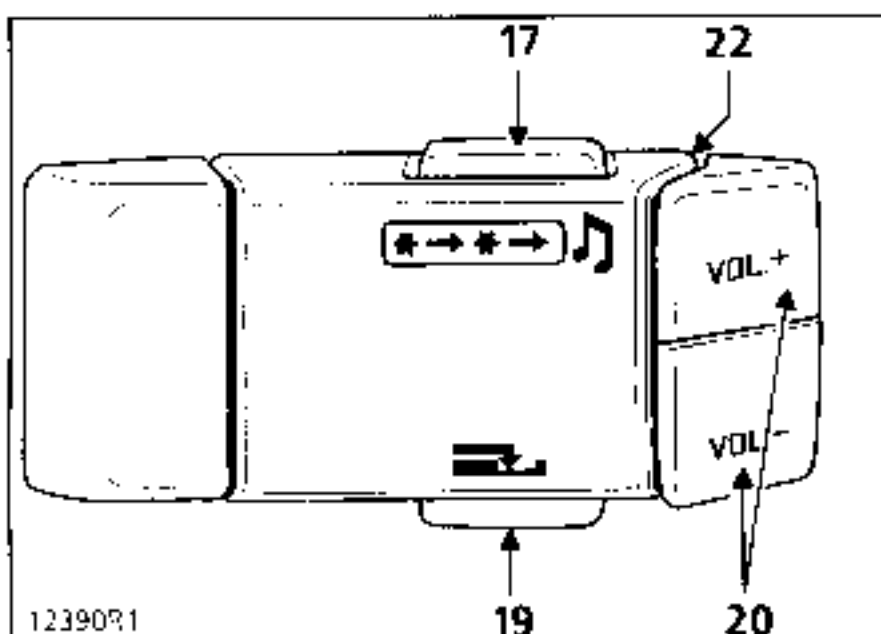
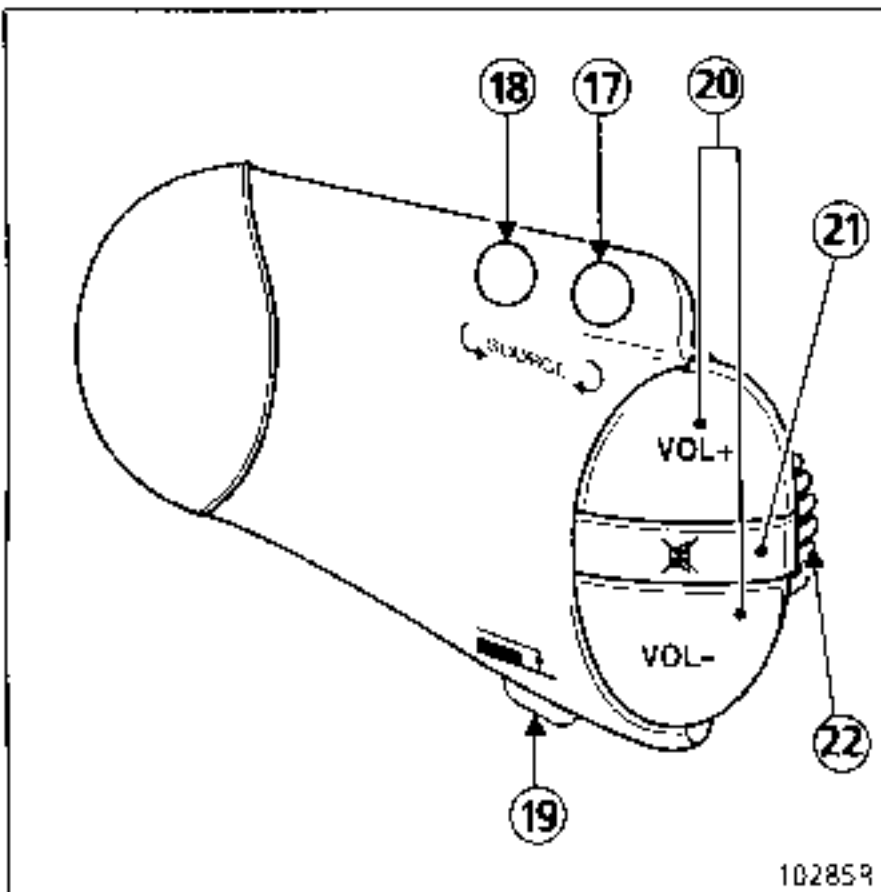
It is also possible to erase the time display at **C** completely.

This is done by holding down the two adjusting buttons **simultaneously and for more than 2 seconds**.

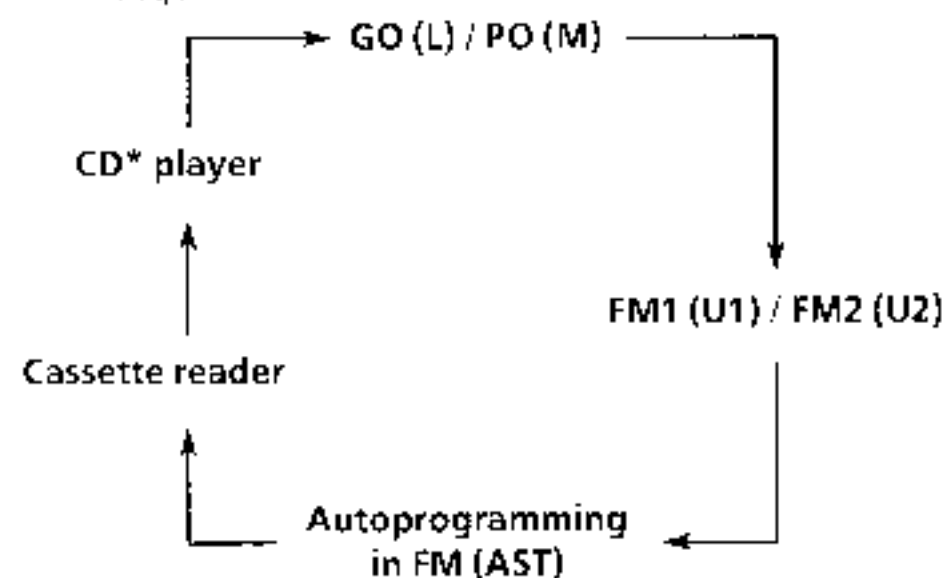
Repeat this operation to restore the time display at **C**.

SATELLITE (remote control unit)

There are two types of satellite. Depending on the vehicle, the audio unit is connected to one or the other.



17 Change wavelength or source each time the button is pressed according to the following sequence:



* Depending on vehicle and option.

18 Change wavelength or source each time the button is pressed in reverse sequence.

19 # Radio mode

- **Brief press** : initiates automatic search for a station with increasing frequency.
- **Long press** : initiates autoprogramming in FM or Autostore (AST).

Cassette reader or CD* player mode

- **Brief press** : no result.
- **Long press** : initiates autoprogramming in FM (AST) provided that the unit is tuned to an FM station before changing the source.

Mode for entering the confidential code

- **Brief press** : validation of the different code figures.
- **Long press** : validation of the code.

20 + / - command to :

- Adjust:
 - the volume,
 - right / left balance,
 - front / rear balance (**fader**),
 - bass,
 - treble.
- Cut/restore sound by simultaneously pressing the two buttons ("MUTE" function).

NOTE : during playback of a cassette or CD*, the operation of the cassette reader or of the CD* player is suspended (pause).

21 # Radio, cassette reader and CD* player modes

Cuts and restores sound depending on the previous status ("MUTE" function).

NOTE : during playback of a cassette or CD*, the operation of the cassette reader or of the CD* player is suspended (pause).

Mode for entering the confidential code

- **Brief press:** validation of the various code figures.
- **Long press:** validation of the code.

22 Tumblewheel

Radio mode

Change the preselection in the active wave band (1 to 6).

NOTE : in the case of grouped wave bands (L and M or FM1 and FM2), the six preselections from one are shown, then the six preselections from the other.

CD* player mode

Selection of a track on the CD being played with playback beginning again at the start of the chosen track.

Mode for entering the confidential code

Entering the four code figures.

* Depending on the vehicle and option.

The code is a four figure number between 0000 and 9999.

It is shown on the detachable part of the **PV des Mines** stuck on the warranty booklet or, for export, on the vehicle invoice.

Programmed in the unit at the time of manufacture, this code may not be modified by the user.

PROCEDURE FOR ENTERING THE CODE

- After cutting + before ignition feed.
- To cancel scrambled mode operation
 - a) Press button **1** to turn the set on, the message "**CODE**" is shown briefly on the display (at the end of **2 minutes** operation in scrambled mode) before being replaced by "0000", where the first "0" is flashing.
 - b) To enter the four figures of the code:
 - adjust the first figure of the code which is flashing using the satellite tumblewheel **22**,
 - briefly press button **19** on the satellite to validate the figure and allow the next figure to flash, repeat these two operations until all four code figures are displayed.
 - c) Press and hold button **19** on the satellite to validate the code.

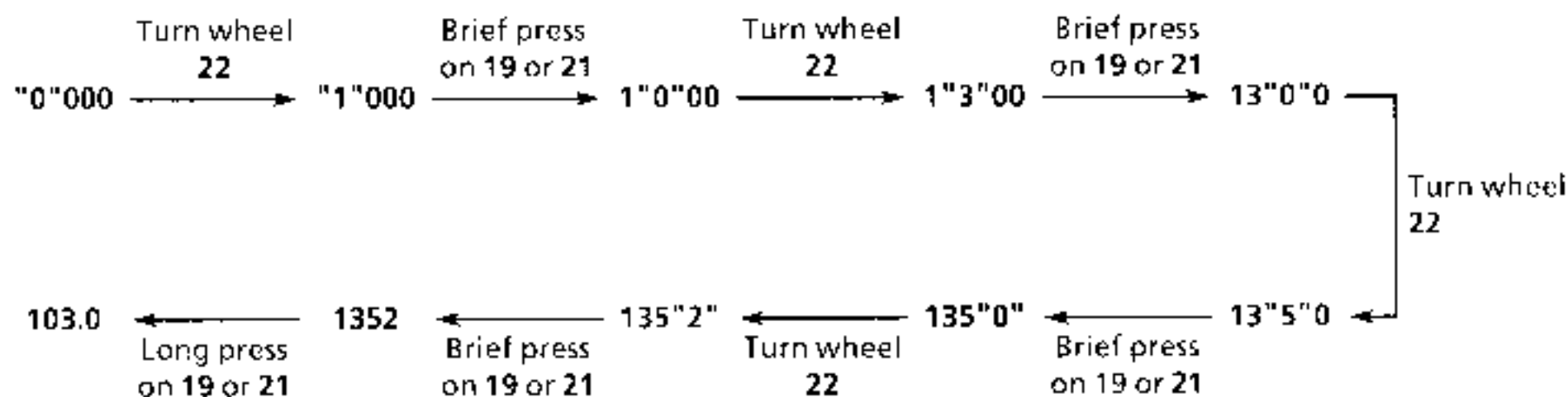
NOTE: on a satellite provided with button **21 "MUTE"**, this button may be used as button **19** to validate a figure in the code or the complete code.

The set will beep when the code has been validated and a frequency corresponding to the last heard station will be displayed. However, the volume, tonality and balance settings have been stored with a maximum threshold for the volume.

Example :

A flashing figure is shown between inverted commas ("0").

To enter code **1352**:



IMPORTANT :

If the code entered is incorrect, the set will beep and the message "**CODE**" will be displayed. The code may only be entered using the method described above when the display shows four zeros once more. For this, the set must be left turned on for one minute.

If the second attempt is unsuccessful, new attempts may be made, keeping the set turned on, but the delays between each operation (if a mistake is made) will increase: **2, 4, 8, 16 and 32 minutes**.

ON / OFF

Press button **1**.

When the power is turned on, the last heard programme is restored.

Special note:

A system may be used to allow the set to be used without turning the vehicle ignition on (– before ignition feed).

This function has a time limit of **10 minutes** at the end of which period the set will automatically turn off to avoid discharging the battery.

5 seconds before this timed period expires, beeps are heard and the display flashes.

When + before ignition operation is interrupted by pressing button **1**, pressing the same button again restarts the timed period of **10 minutes**.

ADJUSTING THE SOUND LEVELS

VOLUME : buttons **13** and **15** on the front panel of the unit or button **20** on the satellite.

Cutting the sound (MUTE)

The sound may be cut completely by simultaneously pressing buttons **21** on the satellite, or by pressing buttons **20** simultaneously.

The message "**PAUSE**" is displayed at **A**.

Repeating the action returns the volume to its previous level.

The sound is automatically cut when a telephone call** is received or when the voice synthesiser** broadcasts a message.

The message "**SPEECH**" is displayed at **A**.

If this occurs during playback of a cassette or **CD***, playback is interrupted and the cassette reader or **CD*** player (depending on the case) is paused.

Playback resumes as soon as the phone call is ended (handset put back on hook) or the voice synthesiser message is complete.

SPATIAL SOUND DISTRIBUTION

Left/right balance

Select the adjustment mode using button **14** then adjust using buttons **13** and **15** on the front panel or buttons **20** on the satellite.

Front / rear balance (Fader)

When the left / right adjustment mode is active, pressing button **14** again switches to front / rear balance adjustment mode ; adjustment is made as above.

As soon as button **14** is pressed, the display indicates the function selected and its setting.

Adjustment scales

Left/right balance	
↗ 900 ↖	fully left
↗ 909 ↖	centre
↗ 009 ↖	fully right

Front/rear balance	
↙ 900 ↘	fully front
↙ 909 ↘	centre
↙ 009 ↘	fully rear

* Depending on vehicle and option.

** Depending on vehicle and equipment.

TONALITY

Bass

Select the adjustment mode by pressing button **12** then make the adjustment using buttons **13** and **15** on the front panel or buttons **20** on the satellite.

Treble

When the bass adjustment mode is active, pressing button **12** again switches to treble adjustment mode ; adjustment is made as above.

As soon as button **12** is pressed, the display shows the function selected and its setting.

Adjustment scales

Bass	Treble	
BASS--9	TREB--9	min
BASS 0	TREB 0	average
BASS+9	TREB+9	max

Loudness

This system accentuates the treble and bass frequencies at low listening levels to compensate for the characteristics of the human ear.

Activate (or de activate) the function by pressing button **2**.

The display indicates the status of the function (active or not) by one of the messages "**LOUD ON**" or "**LOUD OFF**".

General notes on these different settings

After **4 seconds** with no action at the buttons, the current adjustment mode is cancelled and the display returns to the previous message.

The volume, right/left and front/rear (**Fader**) balance settings are single settings.

The bass and treble levels may vary according to the active source (radio, cassette reader or **CD*** player).

These settings are restored each time the unit is switched on.

In the event of + before ignition feed being cut:

- the volume returns to a preset average level,
- the tonality and spatial sound distribution settings return to their "**average**" value and the "**Loudness**" function is de activated.

* Depending on vehicle and option.

SELECTION OF THE WAVE BAND

Using the radio front panel

Press button **9** to select one of the wave bands **L(GO)**, **M (PO)**, **FM1 (U1)**, **FM2 (U2)** or **(Autoprogramming in FM(AST))**.

Using the satellite

Press button **17** (or **18**, depending on the type of remote control) to select one of the wave bands : **L (GO) / M (PO)**, **FM1 (U1) / FM2 (U2)** or **FM Autostore (AST)**.

The two wave bands **GO** and **PO** are grouped, as are **FM1** and **FM2**.

You may pass from one to the other by running through the preselections by rotating the Lumblewheel **22**.

MANUAL FREQUENCY SEARCH

This may be in increasing or decreasing frequencies from the front panel.

Select the wave band as described above:

Briefly pressing buttons **11** : the frequency changes one step (100 kHz for **FM**, 1 kHz for **PO** and 1 kHz for **GO**).

- Press and hold buttons **11** : the frequencies change quickly for as long as the button is depressed.

AUTOMATIC SEARCH

This can only be carried out from the satellite.

Select the wave band as described above:

Briefly press button **19** on the satellite to start automatic searching with increasing frequencies only.

For **AM (PO or GO)**, the message "**SEARCH ▶**" is displayed at **A**.

For **FM**, the search stop sensitivity level is displayed:

- "**LOC ▶**" or "**DX ▶**" if the "Traffic information" mode is not selected,
- "**LOC INFO**" or "**DX INFO**" if the "Traffic information" mode is active.

Search sensitivity levels

For the first automatic search started after turning the set on, the message "**LOC ▶**" (or "**LOC INFO**" if the "**Traffic information**" mode is selected) is displayed and remains for the duration of the search.

This is carried out as follows:

- the first search is carried out at the first level (**LOCAL**),
- if no station is selected, the search will start again at a higher sensitivity level (**DX** = average reception) which will only be memorised for **one minute** ; if the following search is not started within the minute, it will start once again at the **LOCAL** level,
- if, once more, no station is selected, the set returns to the starting frequency.

For **FM**, the sensitivity level **DX** may be intentionally selected by pressing button **8**.

The message "**DX**" is briefly displayed.

Any automatic searches then started will only be carried out at this level with the indication "**DX ▶**" (or "**DX INFO**" if "**Traffic information**" mode is selected).

Under these conditions, pressing button **8** selects the lower level once more (**LOCAL**). The message "**LOC**" is briefly displayed.

PRESELECTIONS

Programming

Select a wave band as described above.

Search for a station manually or automatically.

Press the desired preselection button **10**.

The sound turns off.

Hold the button down until a beep is heard and the sound returns.

The frequency displayed is programmed.

RECALL: Briefly press the selected button **10** or turn the tumblewheel **22** on the satellite, after selecting a wave band.

AUTOMATIC PROGRAMMING IN FM (Autostore)

Automatic memorisation (**AST**) is an extension of the automatic search command.

In one single operation this function searches and memorises the six strongest stations in the region, without knowing their wavelengths.

If less than six stations are found, the preselections which could not be filled are allocated the value "0000".

But if no station is found, the old preselections will be retained.

Process

Automatic programming is started by pressing and holding button **19** on the satellite.

Initial conditions:

- in radio mode, regardless of the active FM wave band (an error beep is heard if one of the **AM** wave bands was selected),
- in cassette reader or **CD*** player mode, if the last frequency heard was in FM.

A beep is heard:

- in radio mode the sound is cut and the message "**AST**" is displayed at **A**,
- in cassette reader or **CD*** player mode the sound continues, but the message "**AST**" is displayed at **A**.

At the end of automatic programming, the system beeps once more:

- in radio mode the sound returns to the station memorised in the first preselection (**10-1**) for **AST**,
- in cassette reader or **CD*** player mode the message present before automatic programming began returns to the display.

NOTE : the active source may be changed during automatic programming, without affecting the process.

* Depending on vehicle and option.

USE IN RDS MODE (Radio Data System)

The **RDS** system allows certain stations to transmit inaudible information (**RDS codes**) together with the normal **FM** signal.

This unit uses **RDS** information for the following features:

- "clear" display of the **RDS** station name, instead of its frequency ("**PS**" code),
- automatic monitoring, during a journey, of a preset station by tuning in to stations which broadcast the same programme but are received with a stronger signal ("**AF**" signal),
- selection of stations broadcasting road traffic information ("**TP**" code),
- broadcasting of road traffic information from other stations on the same network (station groups) by using the "**EON**" system,
- broadcasting of urgent messages.

NOTE : **RDS** cannot operate correctly in areas where **RDS** transmission is still at an experimental stage or when signals are too weak.

Displaying the programme name

When the set is tuned to an **RDS** station, during a manual search or an automatic search in the **FM** wave band, the frequency is displayed briefly before being replaced by the name of the station.

This brief period is used by the set to decode the "**PS**" code from the **RDS** station.

When the preselection is changed, this name is displayed immediately.

Automatic monitoring - principle of operation ("AF" mode)

For this mode to operate, the set must be tuned to an **RDS** station, memorised in one of the **18 FM** wave band preselections.

An **RDS** station broadcasts a list of all the stations broadcasting the same programme as itself (alternative frequencies = **AF**).

During a journey, these stations are systematically monitored by the set which will tune to the one whose signal is received the clearest.

This process is not obvious on the display as the name of the programme remains the same.

When the station is no longer received with enough clarity to allow the set to use the **RDS** information which is being sent, the system begins an automatic search to locate another station which is broadcasting the same programme.

During this period the name of the programme remains displayed but warning light **J** flashes.

If the system finds the programme, it remains on the new frequency and broadcasting begins again.

Otherwise the set emits a **beep** after **30 seconds** returns to the original frequency but without the display of **RDS** information (station name is not displayed) ; the preselection is deactivated (warning light **B** extinguishes).

In this case:

- either the original programme is broadcast once more with poor listening quality,
- or, in this region, the frequency corresponds to another programme ; this may be heard clearly.

Turning automatic monitoring on or off ("AF" mode)

It is activated automatically when the set is switched on by pressing button **1**.

It is de-activated (or activated) by pressing and holding button **7** for more than **2 seconds**. The set then emits a beep.

It is re activated when a new **RDS** station is selected.

Warning light **J** illuminates on the display to indicate that the function is active.

- It **illuminates permanently** when automatic monitoring is operating normally.
- It **flashes**:
 - when the function is activated but the set is not tuned to an **RDS** station,
 - when no other station is able to be found; there are several reasons for this:
 - signal received from the other stations is too weak,
 - poor reception of the list of alternative frequencies,
 - original station does not transmit the list of alternative frequencies.

Automatic search and memorisation of RDS stations

After selecting the function by pressing and holding button **7**, the procedures are the same as for **non RDS** stations. However, the **RDS** stations are not given priority.

Thus in automatic programming (**AST**), if the set finds less than six **RDS** stations with the correct reception level, the preselection positions are filled by **non RDS** stations. When these are recalled, the warning light **J** will flash.

If an **RDS** station is memorised in a preselection **10** whilst the **RDS** mode is de-activated, the set will not search for other frequencies when the preselection is recalled.

Recall of preselections

● "AF" mode activated

When a preselected **RDS** station is recalled, the name of the programme is displayed immediately.

Pressing the preselection button again will cause its frequency to be briefly displayed.

If the signal for this station is weak or its identification code is not the same (because the region has changed, for example), the set will search for a new suitable frequency; the message "**SEARCH**" is displayed during the search.

When the set tunes into a new frequency, the name of the programme is displayed; the frequency will have changed.

If the set does not find a suitable frequency to which it can be tuned, the frequency (and not the name of the programme) which was preselected in the beginning reappears on the display but the preselection is deactivated (warning light **B** extinguishes).

In this case:

- either broadcast of the original programme begins again with a poor level of sound quality (or no sound at all, just "**noise**"),
- or this frequency corresponds to another programme (as the region is now different) and this is broadcast under good conditions.

● "AF" mode de-activated

When a preselected **RDS** station is recalled, the programme name is displayed immediately and the **RDS** mode is re-activated.

If the station to which the set is tuned has a different identification code to that memorised for the initial frequency (because the region has changed, for example), the new name will be displayed when the signal received is strong enough.

Listening to regional stations ("Regional" mode)

National **RDS** stations may offer specific regional programmes at certain times of the day. These regional **RDS** stations may have the same identification code or a different one.

The list of alternative frequencies may be common to all regional stations in the same network or each may have its own list of alternative frequencies.

If the list of frequencies is common, the set will change frequency fairly regularly. The signal received will remain strong. The listening quality will therefore be good if the programmes broadcast are all the same.

This automatic monitoring may be disruptive if the programmes broadcast are different. In this case, deactivate the automatic monitoring mode by pressing and holding button 7.

There are also regional **RDS** stations which have their own existence, independent of any national station; they only broadcast to a well-defined region.

They have their own particular identification code and a specific list of alternate frequencies.

When the automatic monitoring mode ("**AF**" mode) is active, the radio remains tuned to a regional **RDS** station when this is available.

Turn the "**AF**" mode on by pressing and holding button 7. Warning light J illuminates on the display.

If a regional **RDS** station has been stored in one of the preselection buttons (buttons **10-1** to **10-6**), the set could search for another regional station in the same network using the corresponding alternative frequency list. This is however not automatic; each new press on the appropriate button **10** starts a search for another station on the list (on condition that the level of reception is good).

Broadcast of urgent messages

When the set receives the signal from a station broadcasting an urgent message, the broadcasting of the radio programme, playback of the cassette or the current **CD*** is interrupted.

The display shows "**ALARM**" at **A** while the urgent message is broadcast then returns to the previous display.

* Depending on vehicle and option.

Use in "Traffic information" mode ("TA" code)

This system allows broadcast of road traffic information messages. It uses "TP" (Traffic Programme) and "TA" (Traffic Announcement) codes broadcast by the RDS stations, in parallel to the normal FM signal.

The "TP" code allows the radio set to recognise stations which will broadcast traffic information. If the set is tuned to such a station, warning light **K** illuminates on the display.

The road traffic information messages are however only heard, when the "INFO" mode ("TA" code) is active; warning light **L** is then illuminated on the display.

Setting the "INFO" configuration

Activate the "INFO" mode by briefly pressing button **7**, warning light **L** illuminates on the display.

Two cases may arise:

- The set is already tuned to a station which can broadcast traffic information (warning light **K** illuminated) and the programme continues.
- The set is not tuned to a station which can broadcast traffic information (warning light **K** extinguished), warning light **L** flashes on the display and the set beeps in error.
An automatic search may be started by briefly pressing button **19** on the satellite to select an "INFO" station. The message "LOC INFO" is displayed at **A** during the search.

The set will now broadcast messages concerning road traffic by interrupting the radio programme being heard, or playback of the cassette or **CD***.

Broadcast of messages

While traffic information is being heard, the message "TRAFFIC" is displayed at **A**.

Messages concerning road traffic are heard at a preset minimum volume level, which can be altered during broadcast of the messages but which is not memorised.

Pressing button **7** briefly during broadcast of a traffic information message stops the message, recalls the frequency which was active before the start of the broadcast, and de-activates the "INFO" mode.

Broadcast of messages whilst a cassette or CD* is being heard

If road traffic information is required during playback of a cassette or **CD***, before changing the active source, select the frequency of an "INFO" station and activate the "INFO" mode.

* Depending on vehicle and option.

When a message is received, the cassette reader or **CD*** player "**pauses**" and playback is suspended. At the end of the message playback of the cassette or of the **CD*** resumes.

Under these conditions of use, when the "**INFO**" station signal weakens, the set will search automatically (approximately **10 seconds** after warning light K has extinguished).

It automatically tunes to the "**INFO**" station with the strongest signal in the region

Changing "INFO" station

- In automatic search:
Briefly press button **19** on the satellite.
The display shows "**LOC INFO**" during the search then the set tunes to the next "**INFO**" station in the region.
- In manual search:
If the frequency of an "**INFO**" station is known (from signs at the edge of the road, for example), the station may be accessed directly. To do this, refer to the section "**Manual station search**". Once the station has been selected, activate the "**INFO**" mode by briefly pressing button **7**.

Programming

The "**INFO**" stations are programmed as for conventional "**non INFO**" stations into the preselections **1** to **6** in the **FM** wave band; they substitute the stations preselected in normal **FM** mode.

Activate the "**INFO**" mode by briefly pressing button **7** before starting an automatic search or automatic programming.

NOTE :

- The message "**LOC INFO**" is displayed during an automatic search. But if no station is received at a satisfactory level, the search continues to find a "**non INFO**" station with display of the "**LOC ►**" message.
- for automatic programming, if the set finds less than six stations which are capable of broadcasting traffic information, the preselections are filled by "**non INFO**" stations.

Broadcast of messages from other stations

The **EON** (Enhanced Other Networks) system is an **RDS** service which groups stations in a common network.



If the radio is tuned to a station which is linked to others in the **EON** system, it will broadcast traffic information messages from the current station together with those from the other stations.

NOTE : the **EON** system cannot be cancelled.

The insertion of a cassette into compartment 5 causes:

- radio or **CD *** to stop, depending on the active source,
- the tape quality to be briefly displayed (ferrous or chrome); one of the messages "**CASS FER**" or "**CASS CR**" is displayed at **A**,

the cassette to be read in the last used direction; the tape direction is shown on the display by one of the symbols :

"**CASS**  " or "**CASS**  ".

Access to cassette reader mode

If there is already a cassette in compartment 5, button 3 selects the cassette mode and starts playback in the last-used direction.

This selection may also be made using button 17 on the satellite. (or 18 depending on the type of remote control).

If compartment 5 is empty the cassette reader mode will not be accessible when the source is changed.

Reading a cassette

To adjust the listening levels, refer to the section "**Radio operation**".

If a cassette was recorded using noise reduction (**Dolby B**), pressing button 10-6 gives optimum reproduction.

The message "**DOLBY ON**" is displayed briefly at **A**.

Pressing this button again deactivates the function and the message "**NO DOLBY**" is displayed briefly at **A**.

Changing the tape direction

The system changes the tape direction:

- automatically at the end of the tape,
- by pressing buttons 6 simultaneously and gently.

The tape direction is shown on the display.

Fast winding

- Press the right-hand button 6 to start fast winding.
Pressing the button again "**gently**" stops fast winding and starts cassette playback.
At the end of the tape, the tape stops and playback begins on the other side.
- Press the left-hand button 6 to start rewinding.
Pressing the button again "**gently**" stops rewinding and starts cassette playback.
At the start of the tape, the tape stops and playback begins on this same side.

During fast winding, the radio will be heard.

The radio mode is completely functional with corresponding messages on the display (see paragraph "**Radio operation**").

* Depending on vehicle and option.

Track search (MSS)

The **MSS (Music Search System)** mode enables a particular track to be selected on the side currently being played back.

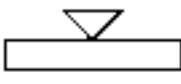
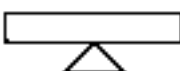
The reader searches for the intervals of silence between two tracks.

The **MSS** mode is activated by pressing preselection button **10-5** whilst a cassette is being played back.

Warning light **M** is illuminated on the display.

In this mode pressing one of buttons **6** causes the tape to rapid wind to the end of the next track (right-hand button) or the current track (left-hand button), i.e. until the first "**silence**" or "**blank**" detected, which may be the end of the tape. Playback then resumes.

During searching the unit is silent (it does not switch to radio mode) and the display indicates the active mode together with the tape direction:

***MSS**"  or "**MSS**" 

Pressing button **10-5** again deactivates the **MSS** mode and warning light **M** is extinguished.

Notes:

- Use cassettes with a low noise level during the "**silences**".
- The "**silences**" must last at least **3 seconds**.
- The recordings containing very soft passages or intermittent pauses (conversation, information, etc.) may give rise to untimely stops during searches in the **MSS** mode.

Stopping playback

- *Broadcast of messages from the voice synthesiser**

When the voice synthesiser broadcasts a message, playback is interrupted, the tape head is withdrawn; the message "**SPEECH**" is displayed at **A**.

At the end of the message, playback resumes.

- *Broadcast of traffic information messages*

If the "**INFO**" mode is active (warning light **L** illuminated) and if the station to which the radio was tuned before changing source was an "**INFO**" station, broadcast of a traffic information message will stop playback and tape head is withdrawn.

The message "**TRAFFIC**" is displayed at **A**.

At the end of the message, playback resumes.

- *Broadcast of an urgent message*

When the radio receives a signal from a station broadcasting an urgent message, a double beep is heard and cassette player operation is interrupted; "**ALARM**" is displayed at **A**.

At the end of the message, playback resumes.

- *Cutting sound*

Pressing button **21** (depending on the type of remote control) or pressing buttons **20** simultaneously on the satellite stops playback and the tape head is withdrawn; the message "**PAUSE**" is displayed at **A**.

Repeating the action starts playback again.

** Depending on vehicle and equipment.

- *Receiving a telephone call ***

When a telephone call is received, the sound is cut automatically, the playback is interrupted and the cassette player pauses (tape head is withdrawn).

The message "SPEECH" is displayed at **A**.

At the end of the communication (handset put back on hook), playback resumes.

- *Changing source*

Pressing button **3** on the front panel or button **17** on the satellite (or **18** depending on the type of remote control) activates the radio mode or **CD*** player mode without ejecting the cassette.

Playback and fast winding are interrupted and the tape head is withdrawn.

- *Ejection*

The cassette is ejected by pressing button **4** or by pressing buttons **6** ("fully") simultaneously.

The set returns to radio mode, broadcasting the last heard programme.

Notes:

When the power is turned off or when **CD*** player mode is selected, the tape head is automatically withdrawn.

The cassette may be ejected from compartment **5** even when the power is turned off.

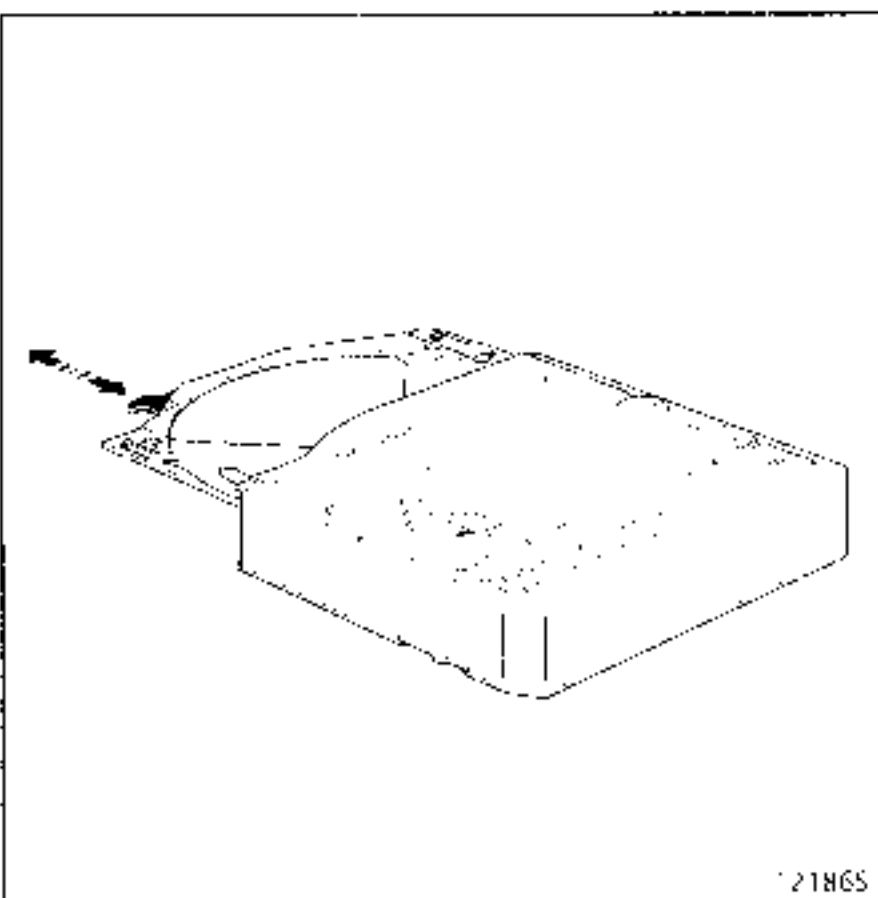
* Depending on vehicle and option.

** Depending on vehicle and equipment.

Depending on the vehicle, the CD player is located in the luggage compartment on the left hand side or underneath the left hand front seat (**SCENIC**).

Operation

- Slide back the "cover" to open the **CD player**.
- Press the green button to eject the cassette (or magazine)
This contains six "**CD holders**" each of which can hold one CD.



- To change a **CD**, release its "**holder**" by pulling the corresponding lever.
Fit a new CD into the holder with the printed side upwards.
Slide the CD and holder assembly into the cassette.
Ensure it is fully inserted until it locks.
- Fit all the "**holders**" into the cassette, even if they are empty.

NOTE

Before ejecting the cassette and replacing a disc on each of the six "**holders**" **make sure that no disc has been left in the set**; this can happen when the system is switched off whilst playing a CD, or when the player was "**paused**" (see the different cases discussed in the section "**Stopping playback**").

- Now insert the cassette fully into the player (follow the arrow marked on the cassette).
- Close the sliding cover.
This should always be closed to prevent the entry of water, dust or fumes which could damage the equipment or, at the very least, reduce its performance.

The system now performs a self-test.

NOTE : Removing (or inserting) the CD cassette is possible even if the system is off or the vehicle ignition is off.

* Depending on vehicle and option.

Access to CD mode

Select the CD mode using button **3** on the front panel or button **17** on the satellite. (or **18** depending on the type of remote control).

The system now performs a self-test, it remains silent and the message **"CD CHECK"** is displayed at **A**.

Normal operation of the CD player will resume at the end of the self test.

- If there is no disc in the cassette the message **"NO CD"** appears at **A** at the end of the self-test.
- If the player is not connected to the audio unit, or if the CD cassette is not inserted in the player, the CD mode cannot be selected when there is a change of source.
- An error associated with the disc (scratches) is detected when the disc is loaded.
In this case the message **"CD ERROR"** is displayed briefly at **A** and the next disc is loaded.
The faulty CD can no longer be selected.

Selection and playback of a CD

- When the CD mode is selected, playback of the last disc heard is started again if the cassette has not been removed from the player.
Otherwise the system looks at the discs in increasing order (from 1 to 6) and the first one found is selected
- It is however possible to select a different CD by pressing one of the preselection buttons **10** ; each of these is allocated to the corresponding disc in the cassette (**1** to **6**),

The message **"LOAD CD disc no."** is displayed at **A** and **B**.

Playback begins with the first track on the disc and the message **"TR1 CD disc no"** is displayed at **A** and **B**.

1 is the number of the track heard. It changes as the CD is played through.

If the system detects no disc in the required position (no CD present or CD incorrectly fitted on its **"holder"**), a beep is heard.

The message **"NO CD disc n°"** is briefly displayed at **A** and **B** and playback continues with the current disc.

NOTE : to adjust the listening levels, refer to the section **"Radio operation"**.

Track search

Each time one of keys **11** is pressed or tumblewheel **22** is turned the number of the track changes on the display and playback begins at the start of the corresponding track.

In this way a particular track on the current disc may be reached.

To do this, press one of buttons **11** or turn the tumblewheel (upwards or downwards), checking the track display.

Turning tumblewheel **22** one notch upwards restarts playback at the start of the same track.

When the last track on the disc is reached, the sequence returns to the first track (and vice versa)

NOTE: to return quickly to the beginning of the first track on the disc being played, press preselection button **10** corresponding to the disc being heard.

"Scanning the disc (SCAN function)

This function is used to familiarise yourself with the contents of the selected CD by playing the **first 10 seconds** of each track

Holding down one of preselection buttons **10** activates the function on the selected disc.

The message "**TR track n° CD disc n°**" is displayed at **A** and **B**, where the number of the track flashes and changes for each new track heard.

After listening to the **first 10 seconds** of the last track, scanning continues with the first track on the same disc.

● *Cancelling the "SCAN" function*

- Briefly pressing button **11** or turning tumblewheel **22** **one notch** cancels the function and allows the rest of the current track to be played.
- This function is automatically cancelled:
 - when another disc in the player is selected by briefly pressing one of the preselection buttons **10**,
 - if another source is activated by button **3** on the front panel or button **17** on the satellite (or **18** according to the type of remote control) before returning to CD mode.

* Depending on vehicle and option.

Stopping playback

- *Broadcast of messages from the voice synthesiser ***

When the voice synthesiser broadcasts a message, playback is interrupted and the CD player pauses.

The message "SPEECH" is displayed at A.

At the end of the message, playback resumes.

- *Broadcast of traffic information messages*

If the "INFO" mode is active (warning light L illuminated) and if the station to which the radio was tuned before changing source was an "INFO" station, broadcast of a traffic information message will stop playback.

The CD player pauses.

The message "TRAFFIC" is displayed at A.

At the end of the message, playback resumes.

- *Broadcast of an urgent message*

When the radio receives a signal from a station broadcasting an urgent message, a double bleep is heard and the CD player operation is interrupted; "ALARM" is displayed at A.

At the end of the message, playback resumes.

- *Cutting sound*

Pressing button 21 (according to the type of remote control) or pressing buttons 22 simultaneously on the satellite stops playback.

The CD player pauses.

The message "PAUSE" is displayed at A.

Repeating the action starts playback again.

- *Receiving a telephone call ***

When a telephone call is received, the sound is cut automatically, the playback is interrupted and the CD player pauses.

The message "SPEECH" is displayed at A.

At the end of the communication (handset put back on hook), playback resumes.

Changing source

Pressing button 3 on the front panel or button 17 on the satellite (or 18 according to the type of remote control) activates the radio mode or the cassette mode. The CD player pauses.

Playback is interrupted.

NOTE: When the CD player is selected once more, if the CD cassette was not removed from the player, playback will commence where it was stopped, otherwise the first track on the first disc that the system finds is heard.

* Depending on vehicle and option.
** Depending on vehicle and equipment.

AUDIO UNIT

Special note regarding MEGANE vehicles

Release the audio unit from its location in the dashboard using the tool **M.S. 1373**.

It should be noted that an intermediate plastic part remains clipped in the dashboard.

To replace the audio unit correctly it is necessary to:

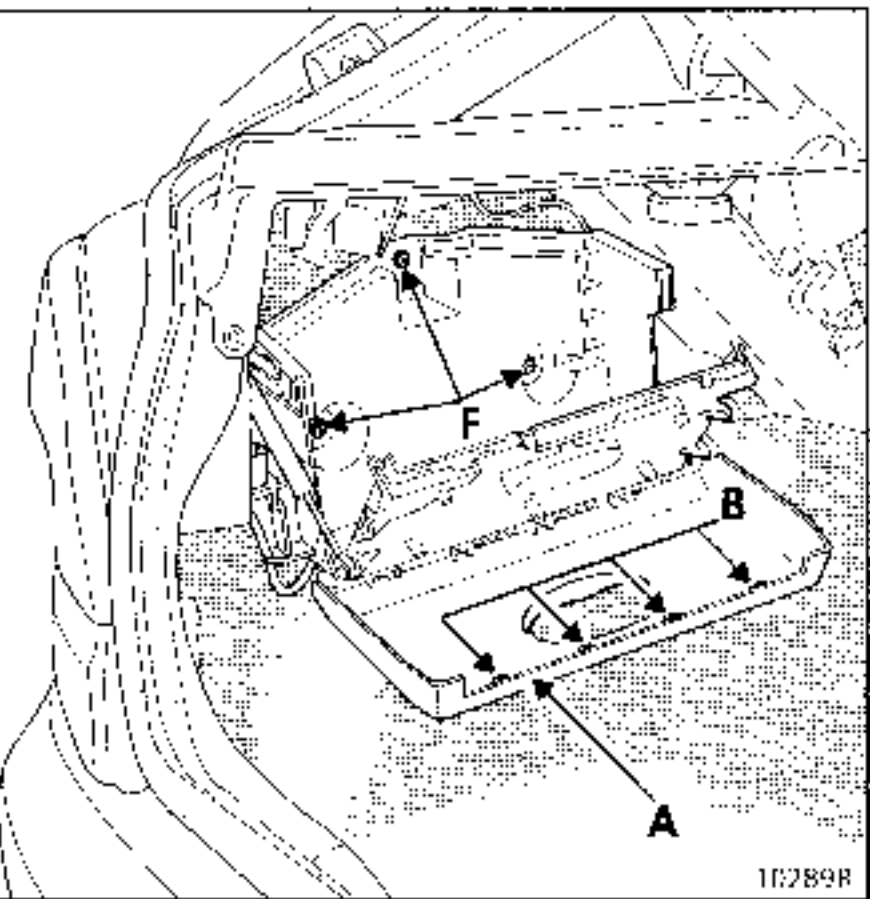
- remove the intermediate part by releasing the four clips,
- replace this part on the audio unit, ensuring the foolproofing is correctly connected,
- reconnect the electrical connections at the rear of the audio unit,
- refit the assembly in the location provided in the dashboard.

It is only by following the above procedure that you will hear the audio set clip into the correct position.

CD PLAYER

REMOVAL of CD player on MEGANE except SCENIC

The CD player is located in the vehicle luggage compartment.



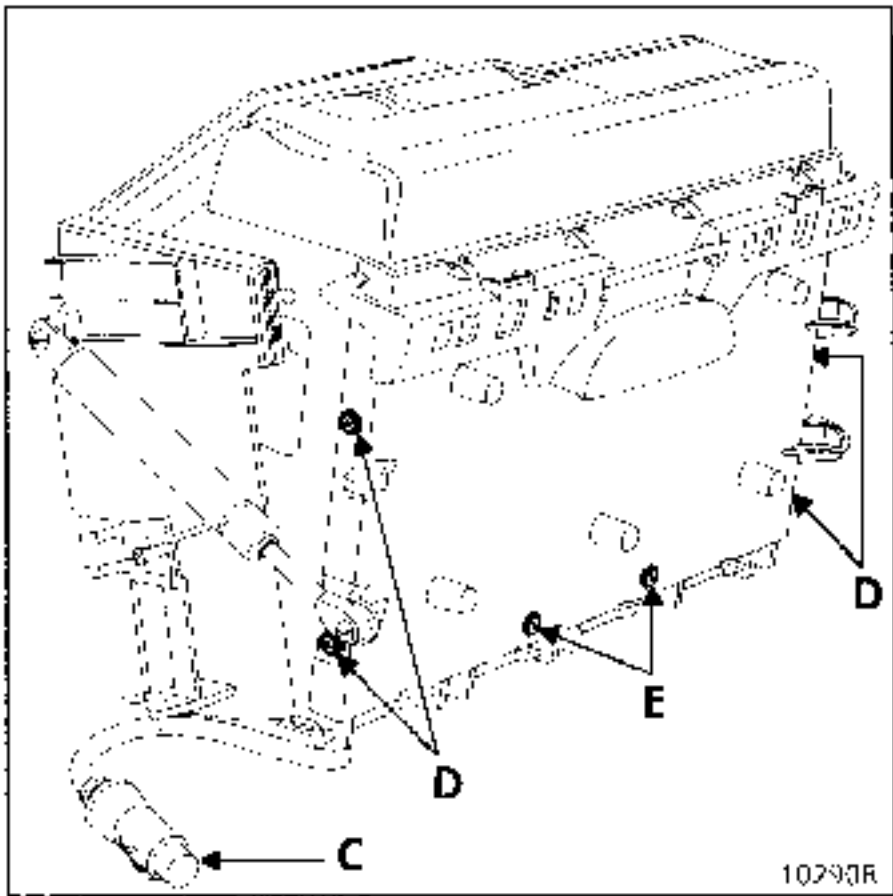
Disconnect the DIN (C) connector.

Open the CD player support by pulling the handle.

Unclip the plastic trim (A) by carefully releasing the four lugs (B).

The four side mounting bolts(D) and the two lower mounting bolts (E) holding the CD player on its support are now accessible; remove them.

Remove the CD player from its support.



Special note on refitting

To refit the trim (A) start by reclipping the four lugs (B) before clipping the lower section.

NOTE: it is possible to remove the "support + CD player" assembly by opening the CD player support to gain access to the three mountings (F) and removing them.

Special note on MEGANE vehicles

Before refitting the CD player make sure that the springs located on each side of the unit are in the position corresponding to its installation in the vehicle concerned:

- either **H** for "**horizontal**", in the case of **MEGANE SCENIC**,
- or **V** for "**vertical**" in the case of another type of **MEGANE** with CD player in the luggage compartment.

AERIAL AMPLIFIER (depending on vehicle)

The new **SAFRANES** fitted with a radio as standard have an aerial amplifier.

This aerial differs depending on whether the vehicle has radio telephone pre-equipment or not.

There are three possible configurations:

- a "simple" basic aerial, with no amplifier, for vehicles which are not fitted with a radio as standard,

- an aerial amplifier fitted with a feed clip and a single coaxial output for the radio aerial,

- an aerial amplifier fitted with a feed clip and two coaxial outputs ; a black plug for the radio aerial and a red plug for the radio telephone aerial (**GSM only**).

In the latter two cases, the aerial base is part of the amplifier unit.

NOTE : the feed wire to the clip comes from track 5 on the connector (A) at the rear of the audio unit (see below "Audio unit connections").

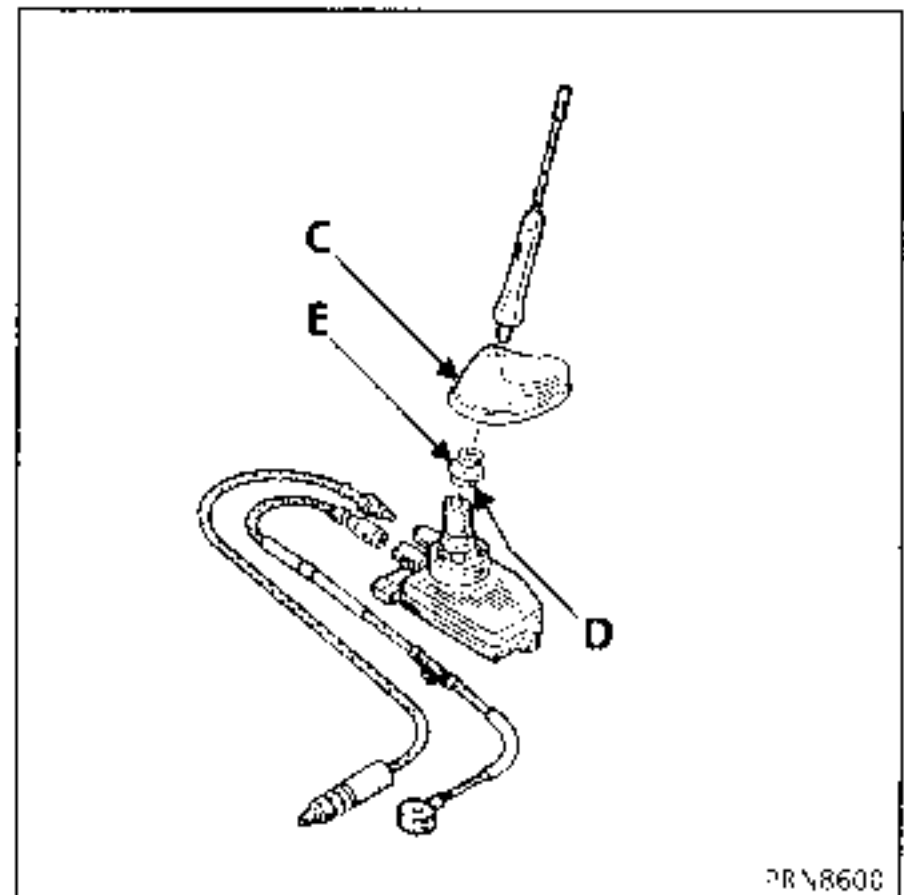
It is not required for the radio telephone to operate correctly.

Removal

inside the vehicle, unclip the plastic cover at the rear of the headlining.

From the outside:

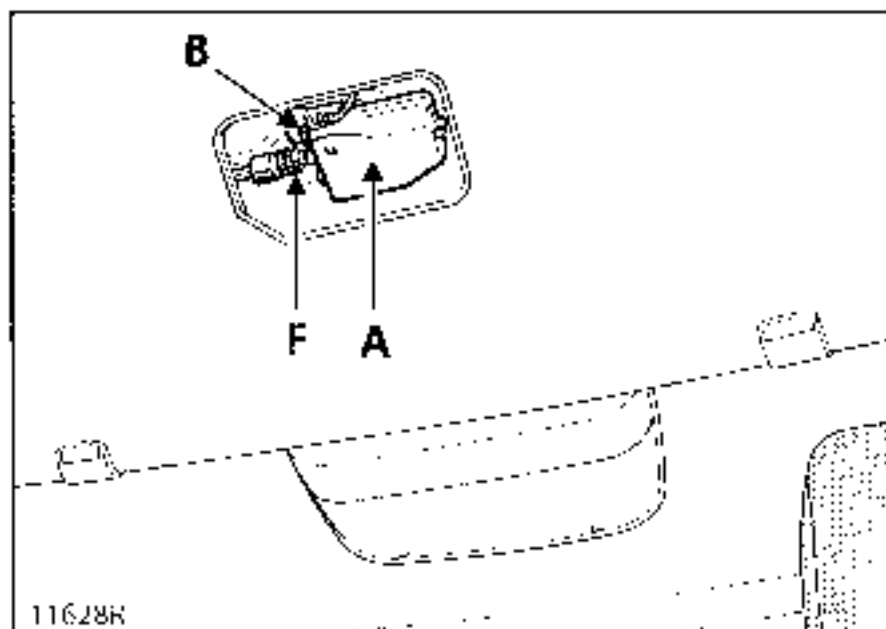
- unscrew the aerial from its mounting,



- remove the cover (C) over the base of the aerial and the rear screen washer jet,

slacken nut (E) mounting the aerial base.

NOTE : a rubber washer (D) inside the nut ensures the connection is sealed. Remember to reposition the washer on refitting.



Release the aerial amplifier unit (A) from inside the vehicle.

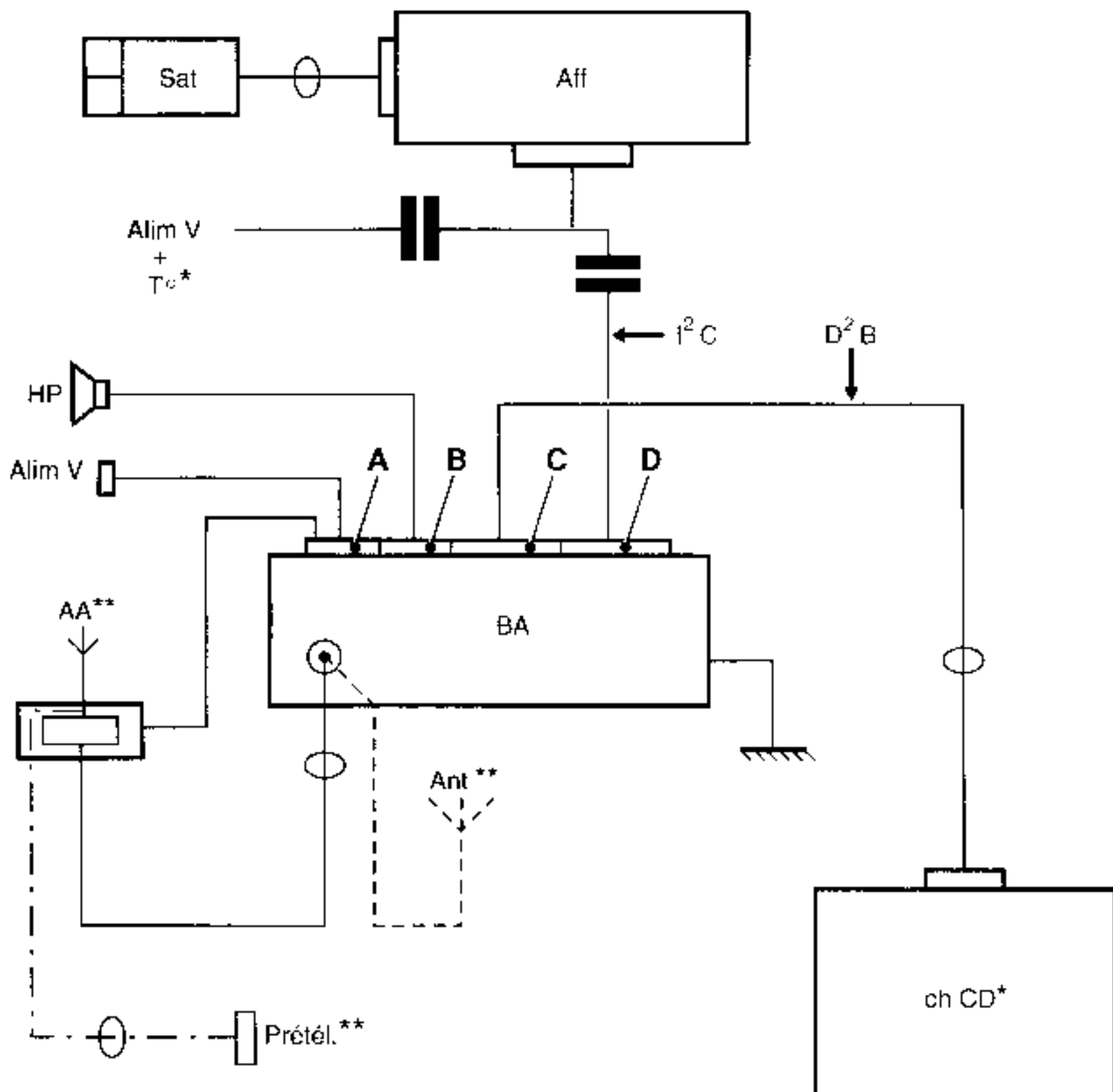
Disconnect the coaxial cable(s) and the feed clip (B) to remove the unit.

Special note for connecting plugs for coaxial cable on the amplifier unit

These are fitted with an automatic locking system.

To disconnect the coaxial cable, hold the plug by the knurled section (F) and push it in :

- towards the unit in the case of the radio aerial coaxial cable(black plug),
- towards the cable in the case of the radio telephone coaxial cable(red plug).



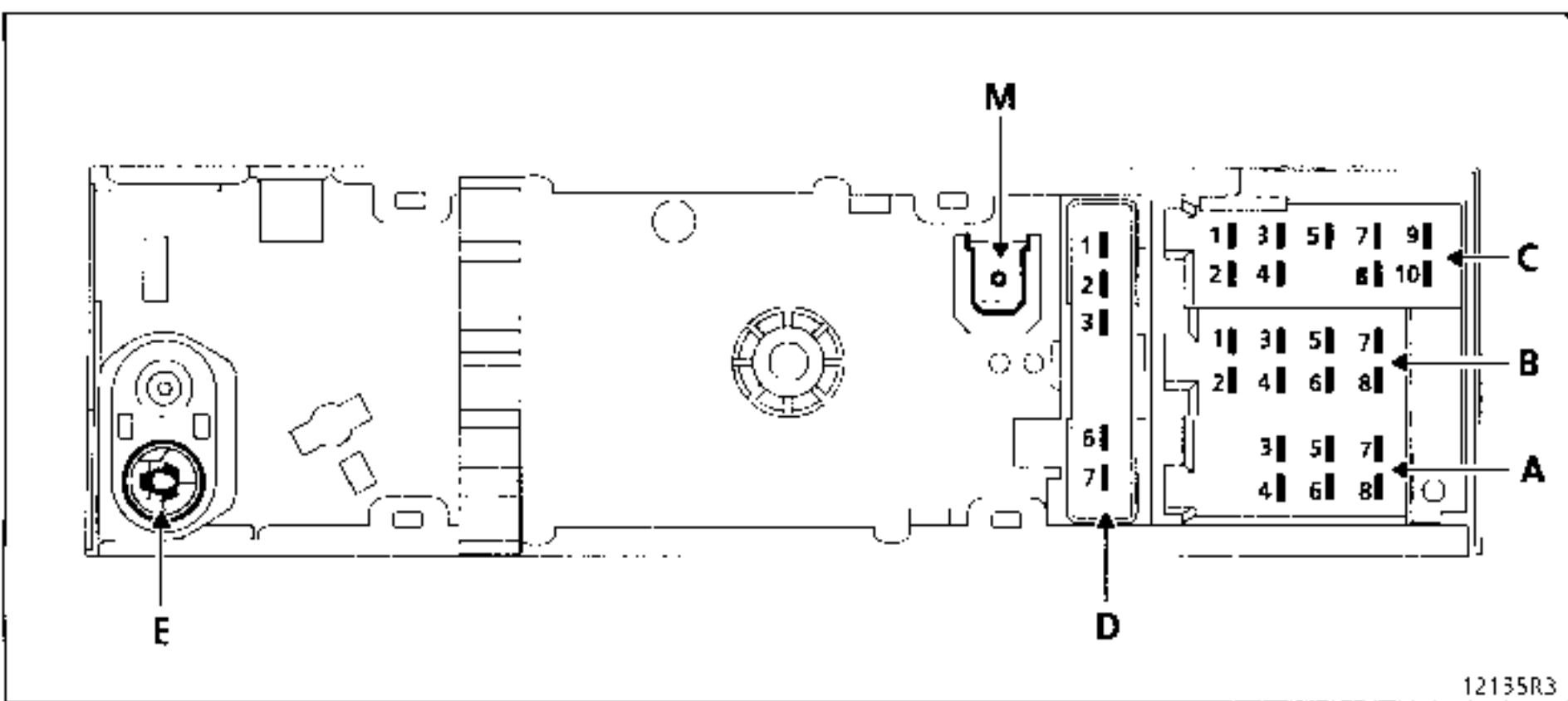
121885

- Sat** : Satellite or remote control
- Aff** : Remote display
- BA** : Audio unit with connectors **A**, **B**, **C**, **D**
- Prétel**** : **GSM**** radio telephone pre-equipment
- ChCD*** : CD* player
- Alim V** : Vehicle feed
- HP** : Speakers
- AA**** : Aerial with amplifier and duplexer**
- Ant**** : "Simple" aerial**
- T°** : External temperature information (depending on vehicle)
- I²C** : Communication connection between remote display and audio unit
- D²B** : Communication connection between CD* player and audio unit

* Depending on vehicle and option.

** Depending on vehicle and equipment.

AUDIO UNIT



Connector (A): feed

Track	Allocation
1	Not used
2	Earth lighting by rheostat or strap*
3	Radio sound cut-out (MUTE)**
4	+ before ignition
5	+ amplified aerial**
6	1 side lights (lighting)
7	+ accessories
8	Earth

Connector (B): speaker connection

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

E : Aerial

M : Earth clip

Connector (C): CD* player connection

Track	Allocation
1	Earth for CD player communication connection
2	(+) data for CD player communication connection (data)
3	(-) data for CD player communication connection (data)
4	Earth
5	- before ignition feed (track 4 of connector A)
6	Not connected
7	- aerial (track 5 of connector A)
8	Right hand audio input
9	Left hand audio input
10	Audio input earth

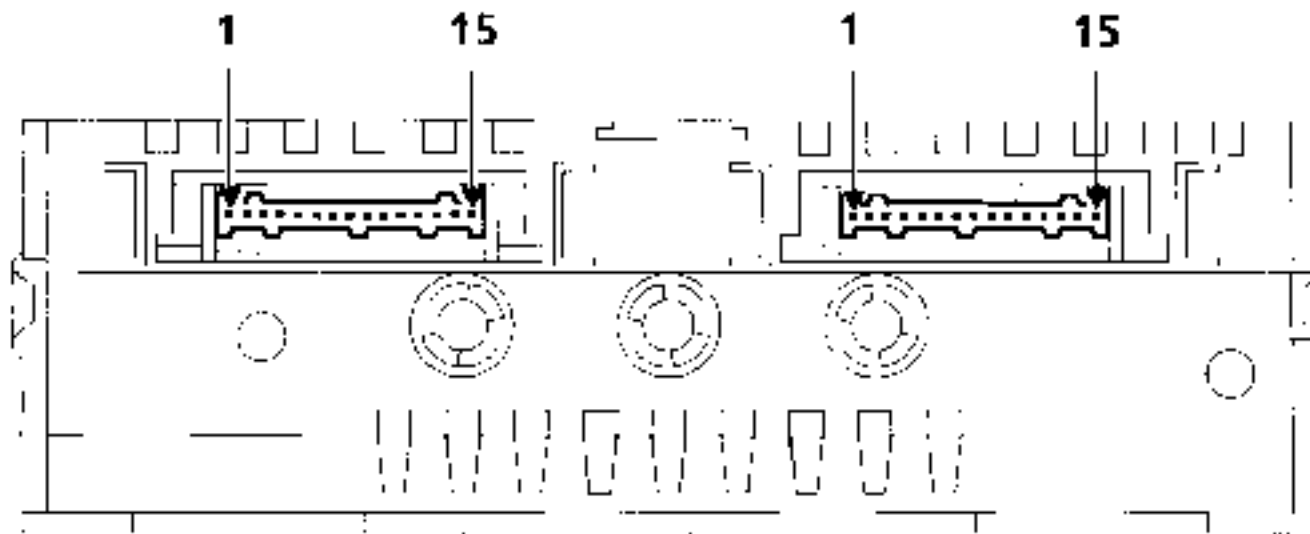
Connector (D): remote display connection

Track	Allocation
1	I ² C communication connection data
2	I ² C clock signal
3	MRQ I ² C signal
4	Not connected
5	Not connected
6	"Radio on" information via I ² C connection
7	I ² C screening earth

* Depending on vehicle and option.

** Depending on vehicle and equipment.

REMOTE DISPLAY (depending on vehicle)



12132R

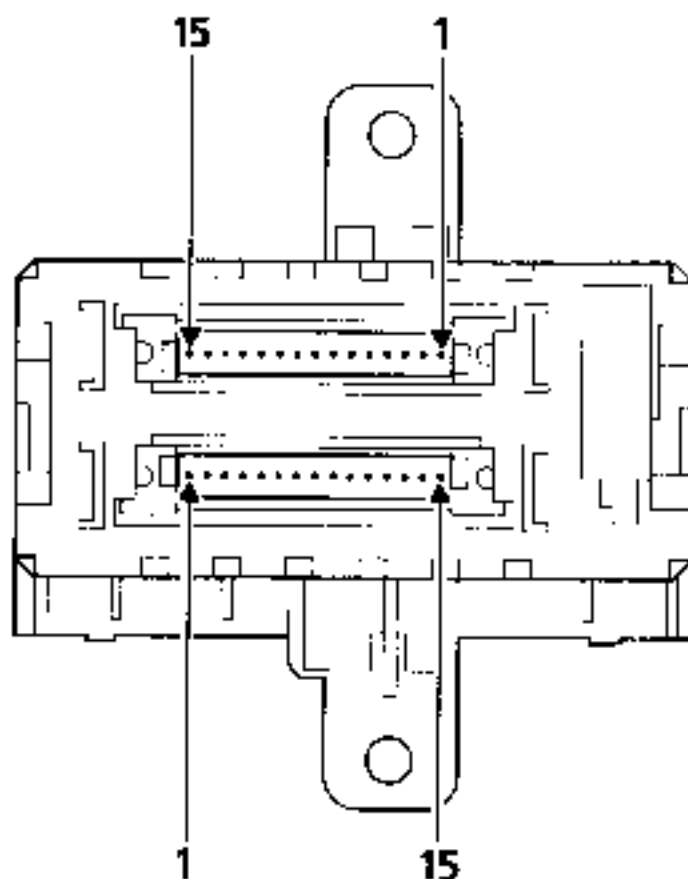
15 track blue connector

Track	Allocation
1	External temperature sensor information
2	0 V External temperature sensor
3	Not connected
4	Not connected
5	Earth
6	+ side lights
7	+ rheostat lighting
8	+ accessories
9	+ before ignition
10	Not connected
11	I ² C screening earth
12	"Radio on" information via I ² C connection
13	I ² C communication connection data
14	I ² C clock signal
15	MRQ I ² C signal

15 track red connector

Track	Allocation
1	Not connected
2	Not connected
3	Not connected
4	Not connected
5	Not connected
6	Not connected
7	Not connected
8	Not connected
9	+ before ignition
10	To satellite
11	To satellite
12	To satellite
13	To satellite
14	To satellite
15	Screening

REMOTE DISPLAY (depending on vehicle)



10288R

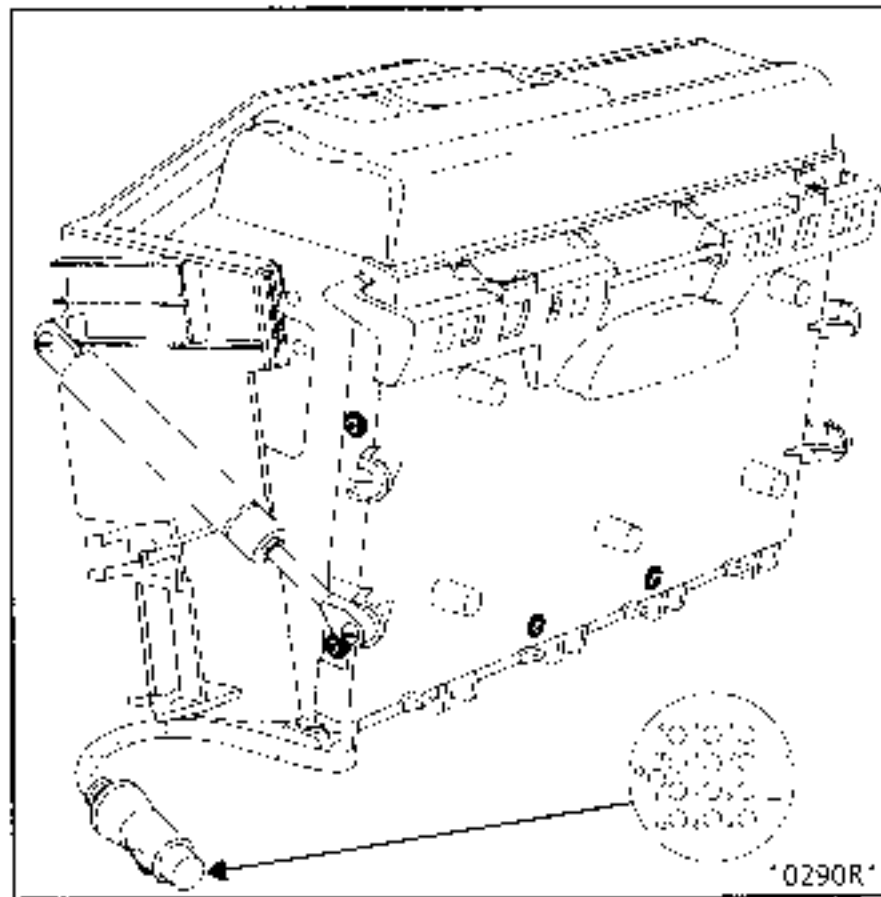
15 track blue connector

Track	Allocation
1	External temperature sensor information
2	0 V external temperature sensor
3	I ² C clock signal
4	MRQ I ² C signal
5	Earth
6	+ side lights
7	+ rheostat lighting
8	+ accessories
9	+ before ignition
10	Secondary speed information
11	I ² C screening earth
12	+ aerial control
13	I ² C communication connection data
14	I ² C clock signal
15	MRQ I ² C signal

15 track red connector

Track	Allocation
1	Not connected
2	Not connected
3	Not connected
4	Not connected
5	Not connected
6	Not connected
7	Not connected
8	Not connected
9	+ before ignition
10	To satellite
11	To satellite
12	To satellite
13	To satellite
14	To satellite
15	Screening

CD PLAYER*



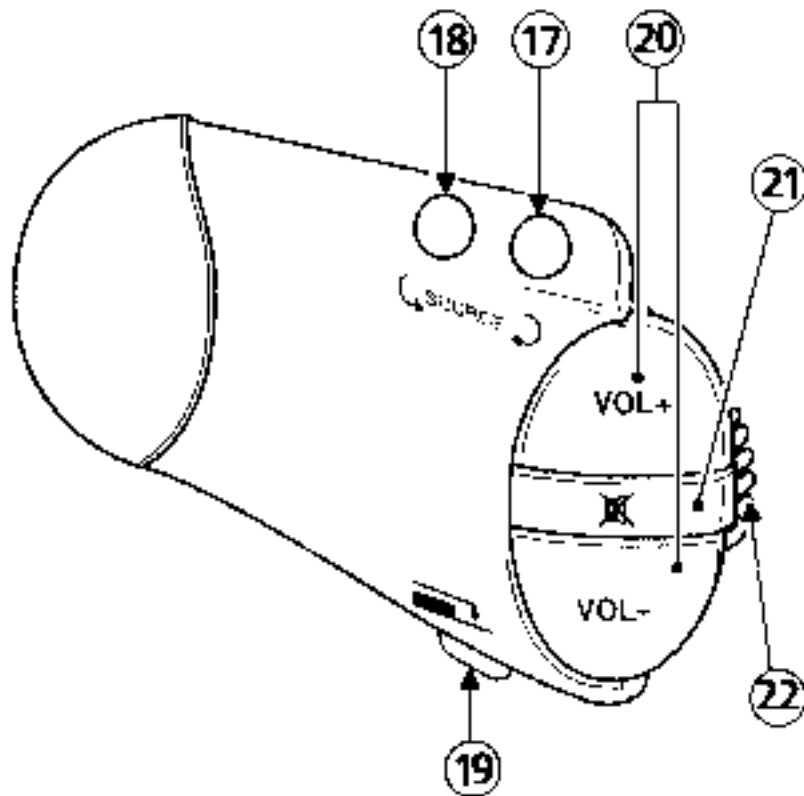
Track	Allocation
1	Left-hand audio earth
2	Left-hand audio input
3	Right-hand audio earth
4	Right hand audio input
5	Battery earth
6	Not connected
7	+ aerial (track 5 of connector A at rear of audio unit)
8	+ before ignition
9	D2B communication connection earth
10	Not connected
11	Communication connection (+) data D2B (Data)
12	Communication connection (-) data D2B (Data)
13	Not connected

* Depending on vehicle and option.

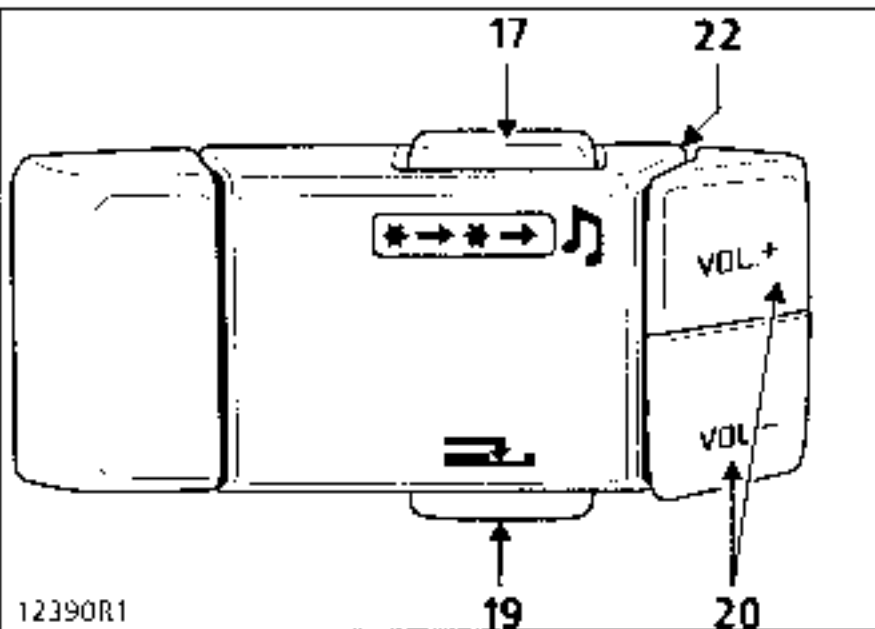
- The connection between the display and the audio unit is by an I²C type connection.
If the display is fully disconnected the audio unit still remains operational and the display is blank.
When the connection is restored the system becomes fully operational again.
- If the I²C connection is earthed (short-circuit), the entire system is extinguished (audio unit and display).
- If the I²C connection is cut, according to the vehicle :
 - either the display remains illuminated but all the specific radio segments and warning lights are extinguished,
 - or the date is displayed instead of the radio message and the warning lights are extinguished.The radio unit remains operational.
- If there is no satellite, the system remains completely operational but the code cannot be entered.
- According to the vehicle, there is no external temperature display when the sensor is not connected (all the segments concerned on the display remain extinguished).

DISPLAY TEST

To enter into display test mode, press the two buttons **20** simultaneously on the satellite, then, while keeping them depressed, press button **17** on the satellite.



10285R



12390R1

One of two cases will arise:

- 1) Ignition key in " + accessories" position and radio off

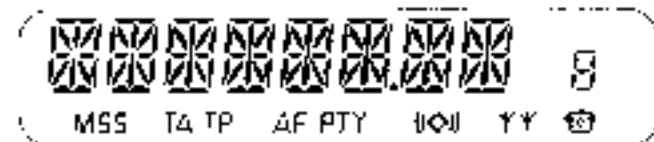
When the "test" mode is entered the display briefly indicates that it is communicating with the audio unit via a connection of the I²C type (message "NO BAM").

All the segments and all the warning lights on the display will illuminate together.

If they are all correct, the following display will be seen.



213151



1213351

To exit the "test" mode switch off the vehicle ignition or switch on the radio by pressing button 1.

2) Radio operating

All the segments and all the warning lights on the **radio display** will illuminate together, for **2 seconds**.

On vehicles with a **global display**, the segments which are specific to the clock and external temperature displays are not tested and continue to indicate the values for these functions.

After **2 seconds**, the display returns to the message present before **test** mode was entered.

NOTE : this test may be carried out, regardless of the active mode (radio, cassette or **CD*** player).

AUDIO UNIT TESTS (according to vehicle)

To enter into the "**test**" mode of the audio unit the system must be switched off ("**Off**").

Press the third preselection button **10-3**, then, whilst holding down this button, switch on the radio unit by pressing button **1**.

If an error has been detected on initialisation, the message "**FALSE**" is displayed at **A**.

Otherwise four zeros "**0000**" will be briefly displayed, then the message "**T--**" indicates that the system is waiting for one of the buttons on the front panel to be pressed.

Each press causes the message "**KEY ##**" to be displayed at **A**, where **##** represents the number of the button pressed.

Table of correspondences between the button pressed and the number assigned by the manufacturer

Button pressed on front panel	Reference	Number ##
Loudness	2	1
Bal/Fad	14	2
Volume (+)	15	3
Volume ()	13	4
Bass/Treb	12	5
Preselection 1	10-1	6
Preselection 2	10-2	7
Preselection 3	10-3	8
Preselection 4	10-4	9
Preselection 5	10-5	10
Preselection 6	10-6	11
ULM	9	12
TA/RDS	7	13
DX	8	14
SRC	3	15
Search in decreasing direction (<)	11 (left)	16
Search in increasing direction (>)	11 (right)	17

If several buttons are pressed simultaneously, or if there is a short-circuit, the message "**FALSE**" appears on the display.

When all the buttons have been pressed at least once the message "**KEYS OK**" is displayed at **A**.

To exit the "**test**" mode switch off the unit by pressing button **1 "On/Off"** then switch it on again.

* Depending on vehicle and option

CUSTOMER COMPLAINTS

- Ignition off, button 1 **On/Off** does not illuminate when it is pressed, or ignition key in "**accessories**" position, button 1 does not illuminate.
On sets where button 1 does not illuminate, with the ignition off or the ignition key in "**accessories**" position, nothing happens.
- The display is extinguished, ignition key in "**accessories**" position and after pressing button 1 **On/Off**, the button illuminates but the display remains extinguished.
- The display illuminates, "**CODE**" is briefly displayed, then four zeros with the first figure flashing, but the first figure cannot be displayed.
- The display illuminates, shows "**CODE**" and remains on this message.
- After turning the set on using the **On/Off** button, a frequency is displayed but there is no reception.
- The audio unit buttons do not illuminate when the side lights are turned on (except the **On/Off** button), depending on the type of set.
- Everything is operational before turning the side lights on, but as soon as they are turned on, the remote display extinguishes.
 - For vehicles equipped with a separate display unit for time and external temperature.
 - For vehicles equipped with a general display unit.

On sets whose button 1 **On/Off** illuminates:

- ignition off, button 1 does not illuminate when pressed,

or

- ignition key in "**accessories**" position, button 1 does not illuminate.

On sets whose button 1 **On/Off** does not illuminate, with ignition off or ignition key in "**accessories**" position, nothing happens.



Check :

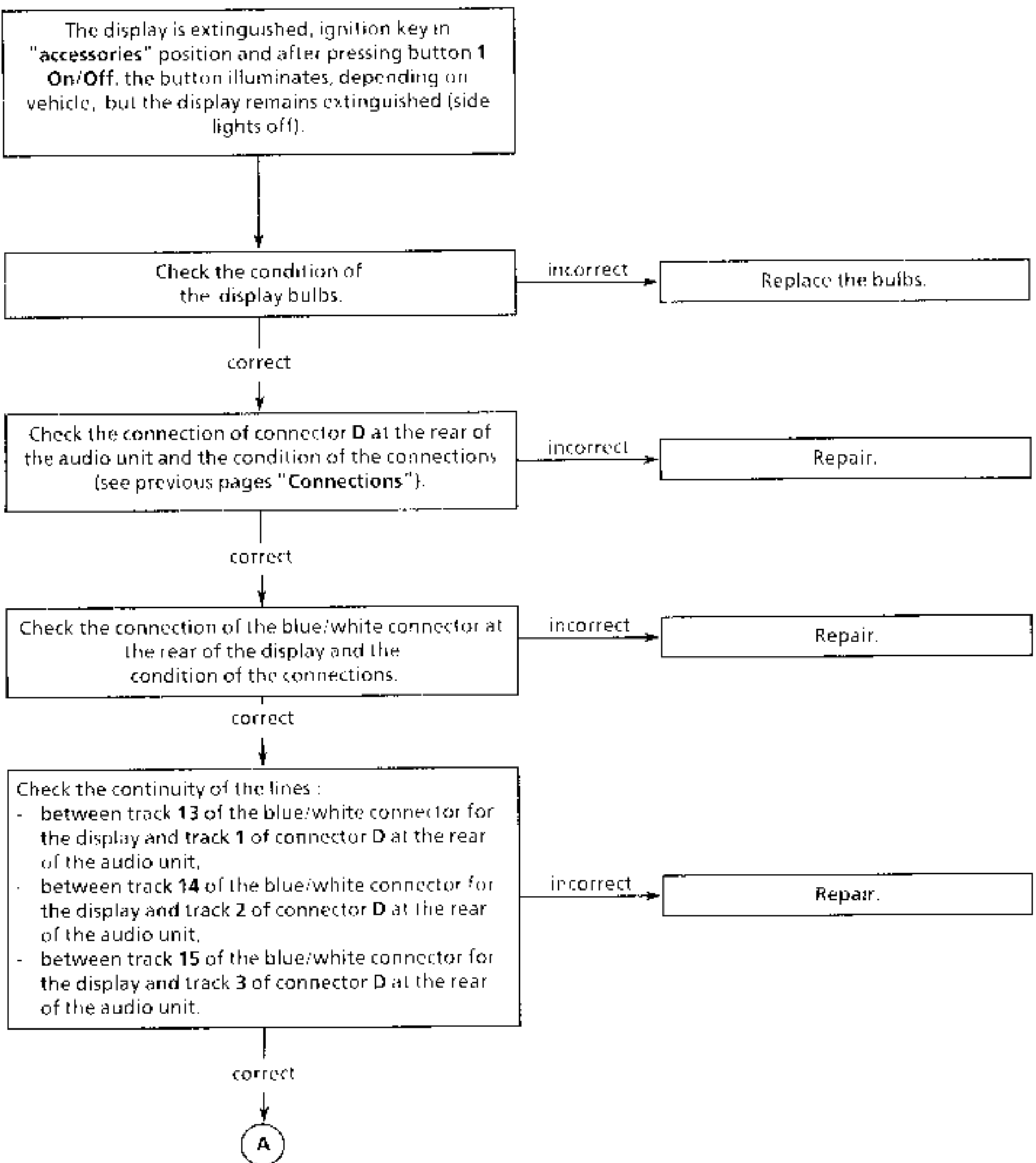
- the "**radio set**" fuse or fuses (depending on vehicle) on the passenger compartment fuse board (see **vehicle wiring diagram**)

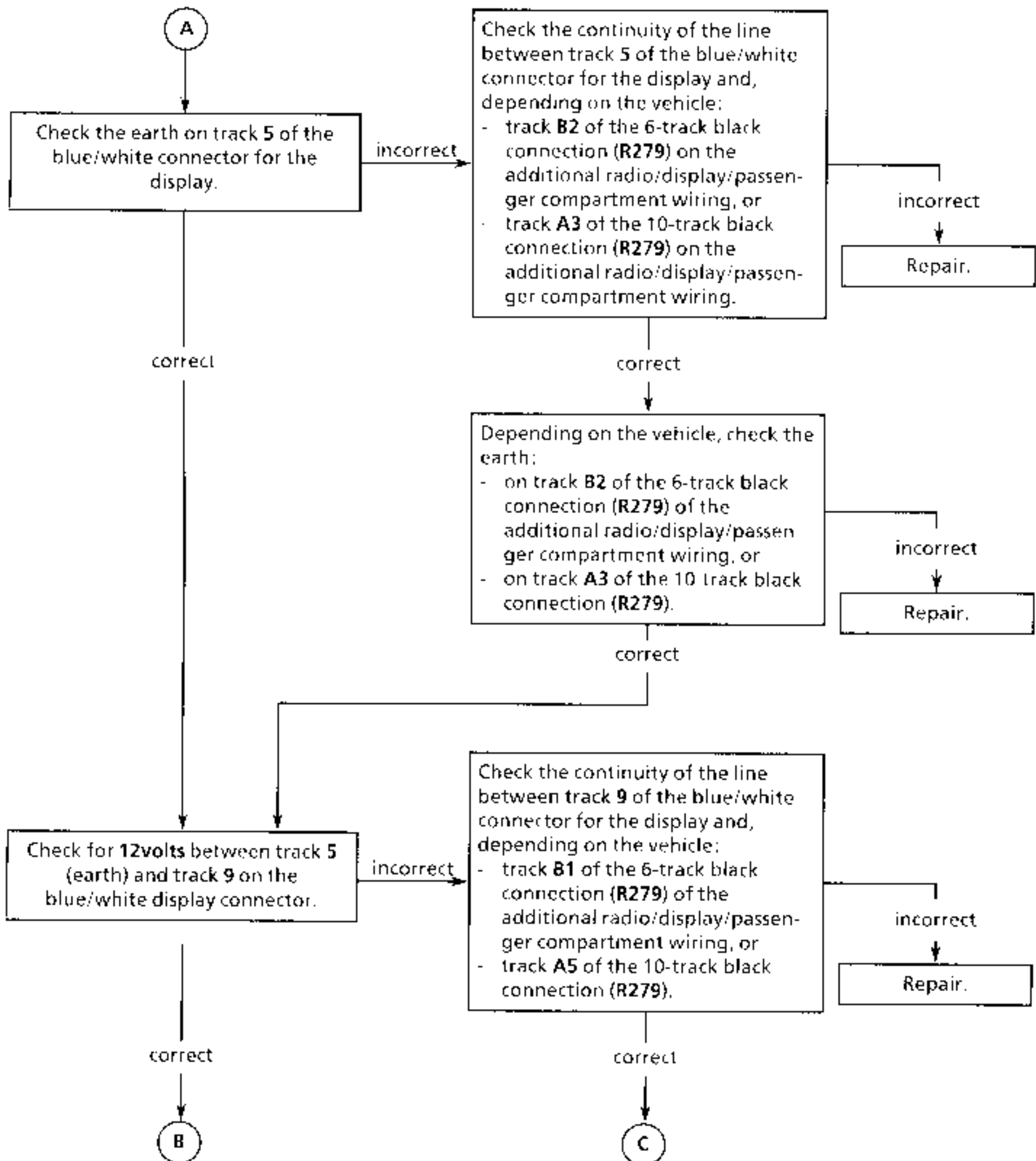
Replace if necessary.

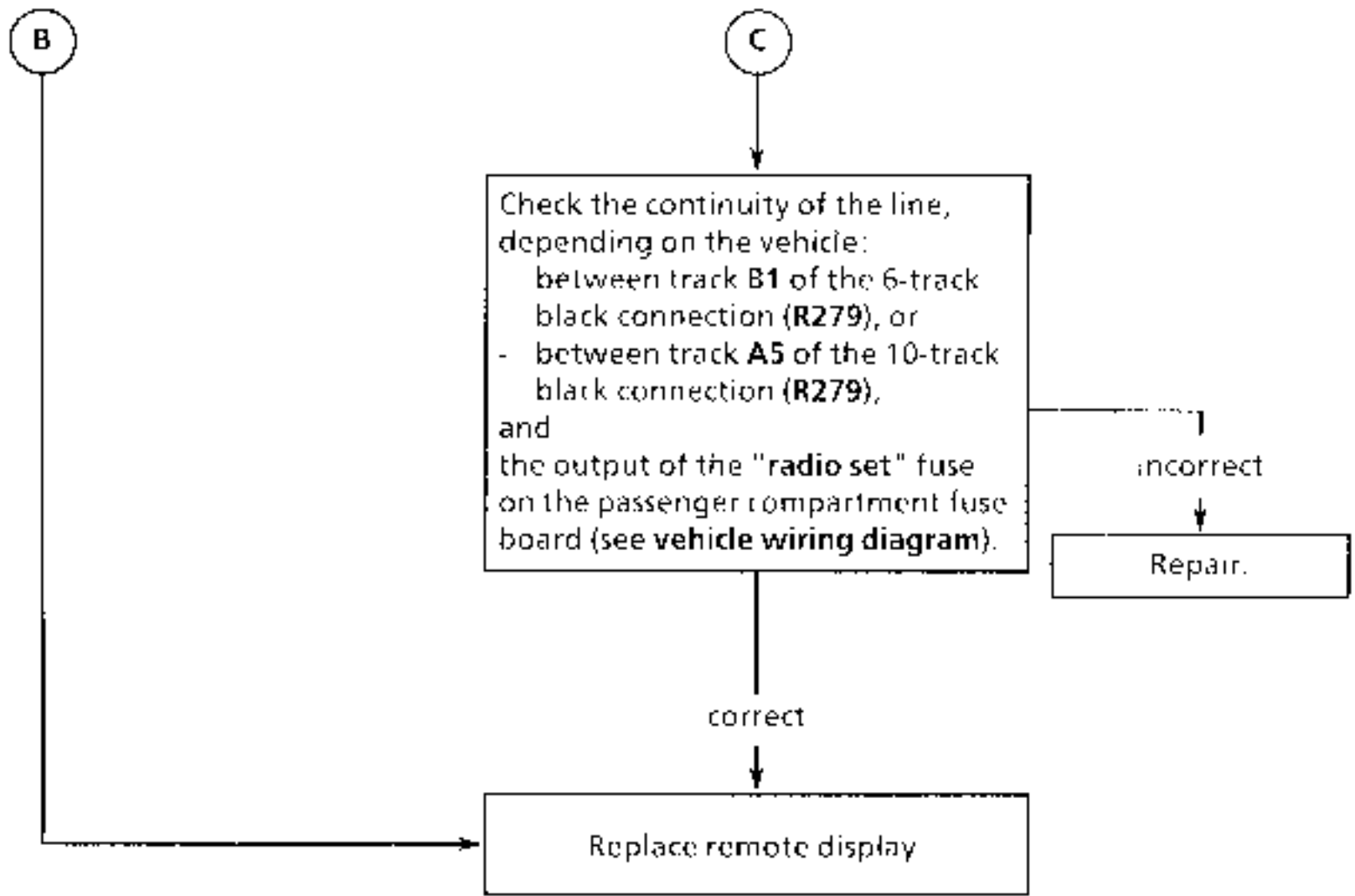
- the audio unit feeds:
 - earth,
 - 1 permanent,
 - 1 accessories.



If the button still does not illuminate follow the repair procedure on the "**Diagnostic fiche**" at the end of the document.







The display illuminates, shows **"CODE"** briefly then four zeros where the first figure flashes.

The display illuminates, shows **"CODE"** and remains on this message.

An incorrect code has been entered.
Leave the set on and wait for **1 to 32 minutes** until the four zeros appear on the display again, with the first figure flashing. Check the confidential code. Check with the Customer Relations service for example for France.

The first figure of the code cannot be displayed using the satellite tumblewheel or validated using button **19** on the satellite or **21**, depending on the type of remote control (see section **"Procedure for entering the code"**)

Check the connection of the red connector behind the display and the condition of the connections.

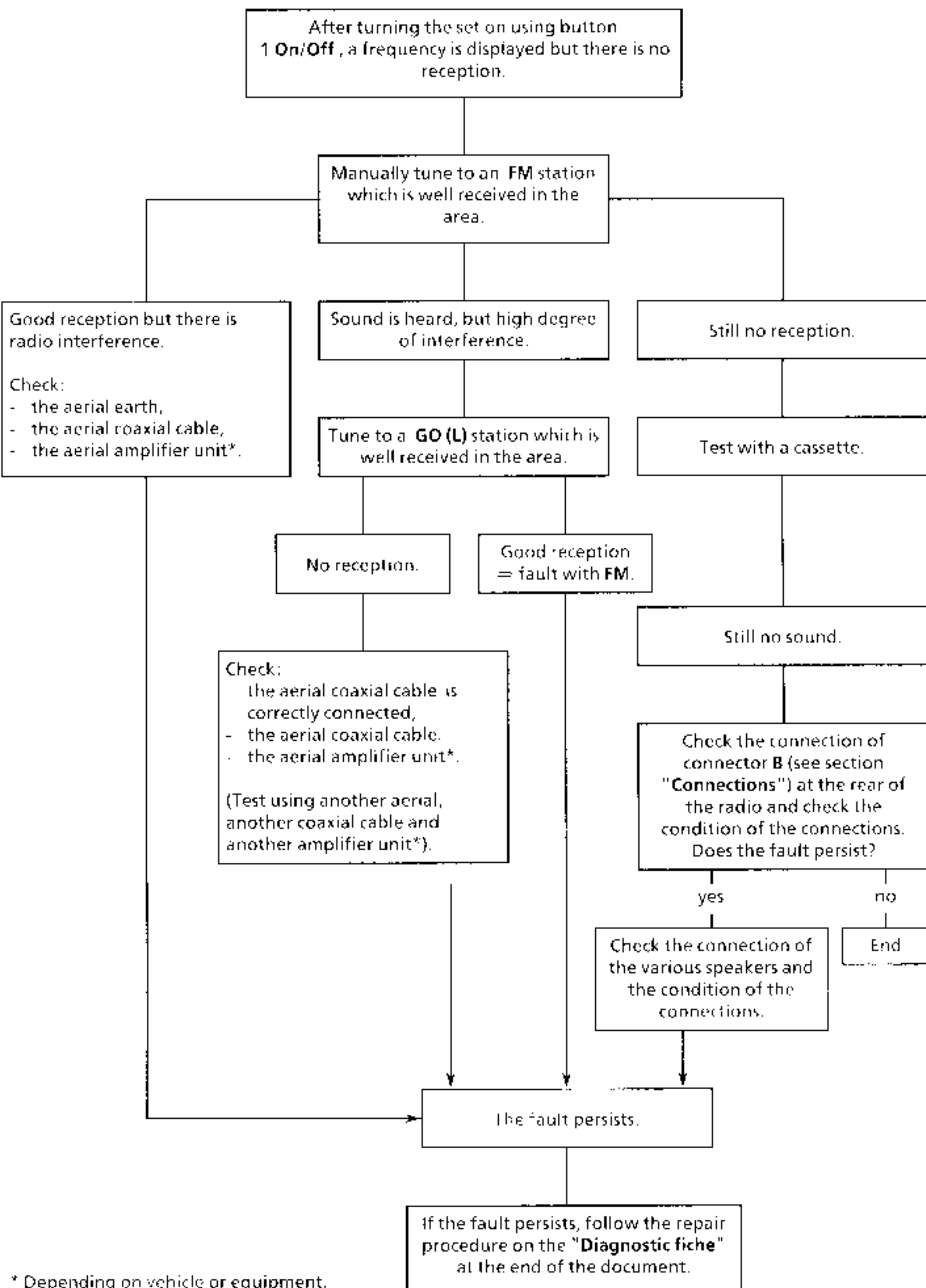
correct

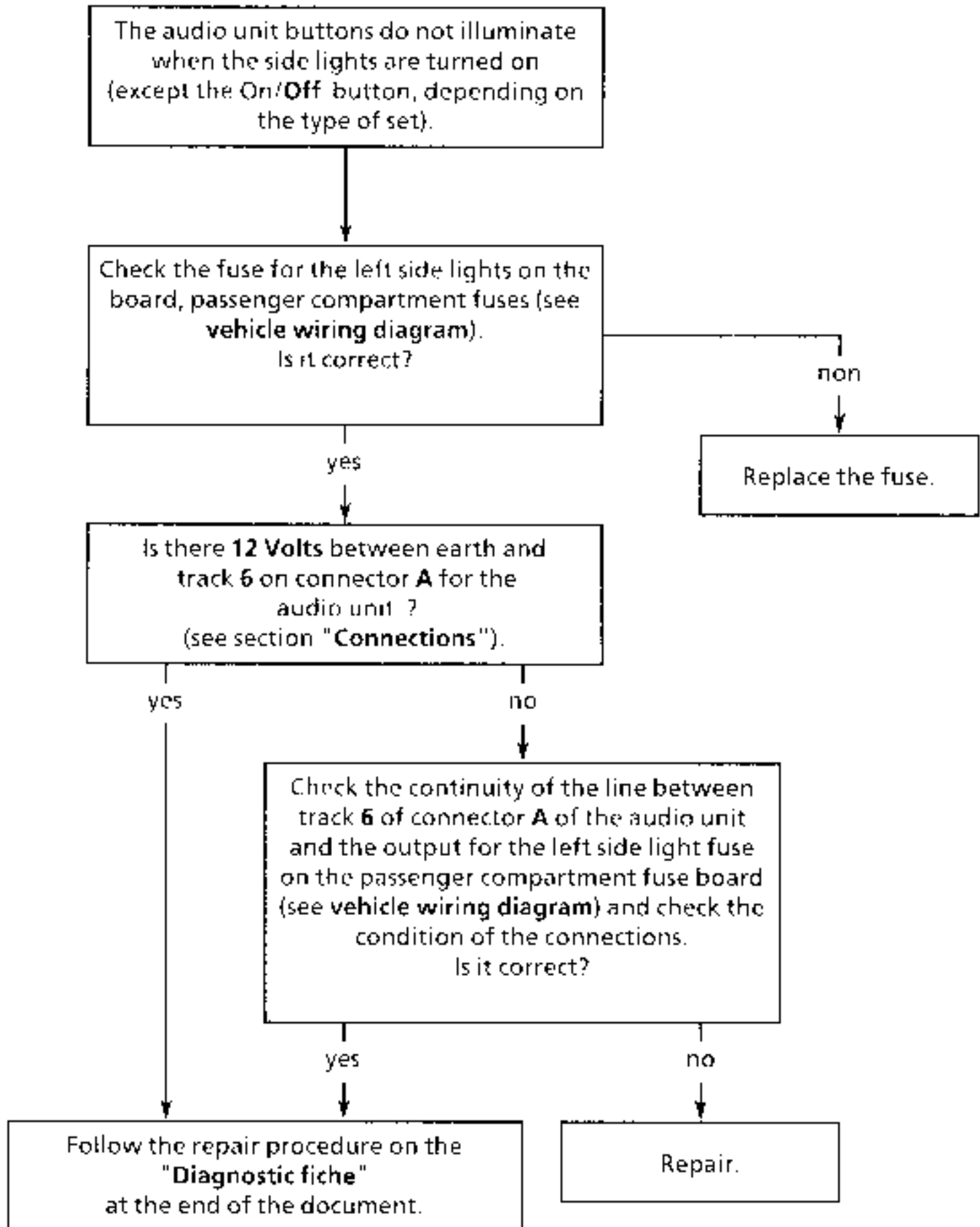
incorrect

Replace the satellite.

Repair.

If the fault persists, follow the repair procedure on the **"Diagnostic fiche"** at the end of the document.





For vehicles equipped with a separate unit for displaying the time and temperature. Everything is operational before turning the side lights on, but as soon as they are turned on, the remote display extinguishes.

Does the combined clock and temperature display remain illuminated?

yes

Check for a voltage (side lights on) at track 7 of the blue display connector and check the condition of the connections.
Does the fault persist?

yes

Replace the display.

no

End

no

Check the position of the lighting rheostat control.
Does the fault persist?

no

End

yes

Check the connection of the connector at the rear of the lighting rheostat and the condition of the connections.
Is this correct?

no

Repair.
Does the fault persist?

yes

no

End

yes

Check the continuity of the line between track 3 on the lighting rheostat connector and track 2 on the clock / temperature unit connector.
Is this correct?

yes

no

Repair.
Does the fault persist?

yes

no

Replace the lighting rheostat.

End

For vehicles equipped with a general display unit.
Everything is operational before turning the side
lights on, but as soon as they are turned on,
the remote display extinguishes.

Check for a voltage (side lights on) at track 7 of
the blue/white display connector and check the
condition of the connections.
Does the fault persist?

yes

Replace the display.

no

Check the continuity of the line between track 7 of
the blue/white display connector, the day/night relay
and the lighting rheostat
(see vehicle wiring diagram).
Check the condition of the connections.
Is it correct?

yes

Replace the lighting rheostat.

no

Repair.
Does the problem persist?

yes

no

End

1. Tuner

- | | |
|--|--|
| <ul style="list-style-type: none"> ● Wave bands | <p>PO : 531 to 1 602 kHz
 GO : 153 to 279 kHz
 FM : 87.5 to 108 MHz
 AS1 : 87.5 to 108 MHz</p> |
| <ul style="list-style-type: none"> ● Intermediate frequency | 10.7 MHz for PO - GO and FM |
| <ul style="list-style-type: none"> ● FM sensitivity | <p>6 μV (for S/B 26 dB at 93 MHz)
 Automatic search at 2 sensitivity levels.
 Autostore search at 2 sensitivity levels (search from bottom of wave band).</p> |
| <ul style="list-style-type: none"> ● I.A.C. system | Interference suppression in FM. |
| <ul style="list-style-type: none"> ● S.D.S. system | Automatic switching to mono when the signal received on the aerial decreases. |
| <ul style="list-style-type: none"> ● S.D.R. system | Automatic attenuation of the treble when the signal received on the aerial decreases. |
| <ul style="list-style-type: none"> ● M.D.S. system | Automatic use of the S.D.S. circuits in the presence of multi-track distortions. |
| <ul style="list-style-type: none"> ● M.D.R. system | Automatic attenuation of the treble in the presence of multi-track distortions. |

2. Cassette reader

- | | |
|--|--|
| <ul style="list-style-type: none"> ● Tape speed | 4.75 cm/s |
| <ul style="list-style-type: none"> ● Wow and flutter | 0.35 % WRMS (weighted average) |
| <ul style="list-style-type: none"> ● Crosstalk | > 24 dB |
| <ul style="list-style-type: none"> ● Signal/noise ratio | > 43 dB |
| <ul style="list-style-type: none"> ● Noise reduction system | Dolby N.R. Type B (Registered trade mark of Dolby Inc. Laboratories) |

3. Low frequency amplifiers

- | | |
|--|---|
| <ul style="list-style-type: none"> ● Output (4 Ohms : 14.4 V) | 4 x 15 W+ 1 dB for D \leq 10 |
| <ul style="list-style-type: none"> ● Frequency response | 30 Hz to 15 kHz |
| <ul style="list-style-type: none"> ● Digital balance | Right/ Left |
| <ul style="list-style-type: none"> ● Digital mixing | Front/ Rear |
| <ul style="list-style-type: none"> ● Bass correction | - 14 dB at 60 Hz |
| <ul style="list-style-type: none"> ● Treble correction | \pm 10 dB at 10 kHz |
| <ul style="list-style-type: none"> ● Loudness | \pm 12 dB at 60 Hz
\pm 10 dB at 10 kHz |

4. CD player (depending on vehicle and option)

- | | |
|--|-------------------------|
| <ul style="list-style-type: none"> ● Crosstalk | 65 dB |
| <ul style="list-style-type: none"> ● Signal/noise ratio | 80 dB with JIS-A filter |

MUST BE ATTACHED TO THE EQUIPMENT
OBLIGATORY FOR APPLICATION OF THE WARRANTY

DIAGNOSTIC FICHE: RADIO – DISPLAY – CD PLAYER		
COMPANY NAME:		TEL: FAX:
COMPANY ADDRESS:		
CONTACT NAME:		
FULL DESTINATION PARTS DEPARTMENT CODE NO.:		Date: .. / .. / ..
VEHICLE: Type	Fabrication No. ()	Delivery date: .. / .. / ..
RADIO: Make:		Fabrication No. (*) or Type (*):
CODE:		Serial No. (*):
WARRANTY: YES / NO (Reply YES only for contractual warranty)		
CUSTOMER COMPLAINT:		
WORKSHOP DIAGNOSIS		
GENERAL	<input type="checkbox"/> Does not come on <input type="checkbox"/> no sound or weak sound <input type="checkbox"/> Security code refused (Have you checked with customer relations department by MEMO?)	
	<u>On certain radios, the code may only be entered using the satellite</u>	
RADIO	<input type="checkbox"/> Poor reception in: <input type="checkbox"/> FM <input type="checkbox"/> FM RDS <input type="checkbox"/> G.O. <input type="checkbox"/> P.O. <input type="checkbox"/> Interference in: <input type="checkbox"/> FM <input type="checkbox"/> FM RDS <input type="checkbox"/> G.O. <input type="checkbox"/> P.O. <u>Engine</u> <input type="checkbox"/> Running <input type="checkbox"/> Off Specify circumstances: <input type="checkbox"/> Button: does not operate	
	CASSETTE	<input type="checkbox"/> Inserting <input type="checkbox"/> Ejecting difficult or impossible <input type="checkbox"/> Sound weak <input type="checkbox"/> Damages tape <input type="checkbox"/> Autoreverse broken <input type="checkbox"/> Poor running (wowing) <input type="checkbox"/> Button: does not operate
	<div style="border: 1px solid black; width: 200px; height: 80px; margin: 0 auto;"></div> COMPANY STAMP WITH DATE	
C.D.	<input type="checkbox"/> Inserting <input type="checkbox"/> Ejecting difficult or impossible <input type="checkbox"/> No sound <input type="checkbox"/> Button: does not operate	
AMPLIFIER	<input type="checkbox"/> Balance does not operate <input type="checkbox"/> Front/rear <input type="checkbox"/> Left / Right <input type="checkbox"/> Speaker does not operate <input type="checkbox"/> Front LH <input type="checkbox"/> Front RH <input type="checkbox"/> Rear LH <input type="checkbox"/> Rear RH <input type="checkbox"/> Equaliser does not operate <input type="checkbox"/> Loudness <input type="checkbox"/> bass <input type="checkbox"/> treble <small>(Check treble/bass control)</small>	
	<input type="checkbox"/> Does not come on <input type="checkbox"/> Display fault <input type="checkbox"/> Clock / Temperature	
SATELLITE	<input type="checkbox"/> Satellite operating fault. Does the set work when the satellite is disconnected? <input type="checkbox"/> Yes <input type="checkbox"/> No	
OTHER FAULTS - SPECIFY:		

(*) Look for type and serial numbers: see page 86-55

FAULT FINDING : Refer to the Workshop Repair Manual concerned

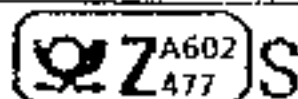
WARRANTY PROCEDURE - SEE DITG : 8/3 8/4 - 8/5 - 8/6 - 8/10

PHILIPS

PHILIPS 22 DC 679/62

Type

77 00 803 648



9022 216 65725

MADE IN FRANCE

FD 02 90 44 550 3290

Serial No.

BLAUPUNKT

BLAUPUNKT



77 00 818 275 Ind

FD 9128

Manufacturing code

7 640 495 . 091

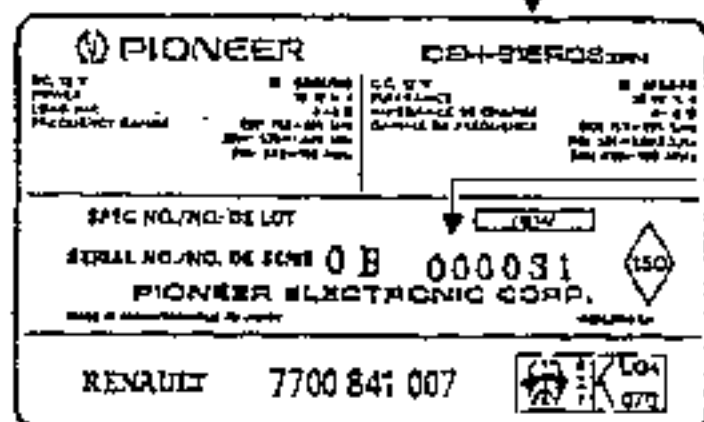
BP0495N2450828

Serial No.

Made in Germany

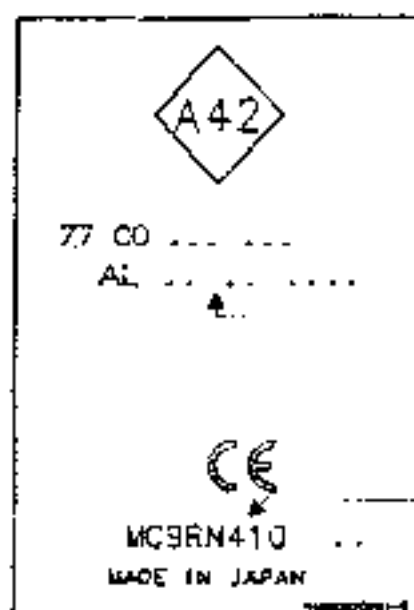
PIONEER

Type



Serial No.

ALPINE / LUXMAN



Serial No.

Type