

This radio-cassett (or audio unit) has :

- a remote control (satellite) located on the right-hand side of the steering wheel which duplicates the main functions of the radio unit,
- a display unit integrated in the dashboard.

There is also provision for a CD player (option) installed in the vehicle luggage compartment.

The sound is distributed via speakers located in the passenger compartment designed to give the best possible sound reproduction throughout the vehicle.

For security reasons, this radio is coded. Each time the 1 before ignition feed is cut, a code (4 figures) supplied by the manufacturer must be entered in order to operate the set.

The code may be rendered inoperable by an operation described later on in this manual (see page 86-10).

ATTENTION : When preparing a new vehicle , radio operation in scrambled mode must be cancelled, (see page 86-9). Check to make sure that the customer has the radio code whenever any work is carried out on the vehicle.

OPERATING SPECIFICATIONS

- A high performance radio tuner with a PLL frequency synthesiser and microprocessors, enabling a wide range of information to be processed and memorised and, in particular, using **Autostore**, the automatic selection of the stations providing best reception of your favourite FM programmes :
 - 5 wavebands L (LW) - M (SW) - U1 (FM1) - U2 (FM2) - U AST (Autostore in FM),
 - **AST (Autostore)** : automatic memorisation of the 6 best received stations in FM,
 - 6 pre-selections per waveband,
 - manual or automatic electronic search for stations in increasing or decreasing frequency,
 - automatic mono/stereo changeover,
 - 3 electronic search stop sensitivity levels (1 automatic and 2 selected using the radio controls),
 - in FM, decoding of the **RDS** sub-carrier:
 - automatic tracking of stations on the same network,
 - clear display of the name of the station,
 - "Traffic information" (depending on country).
- A cassette-player with **Auto-reverse** providing automatic changeover at the end of the cassette :
 - electric insertion and removal of cassettes,
 - "Hard Permalloy" tape head with automatic chrome/metal changeover when the cassette is inserted,
 - indication of direction of play,
 - playback head disengage at the end of the cassette,
 - radio operation during fast forward.
- 2 low frequency loudspeakers each delivering an effective output of 12 Watts \pm 1 dB (2 x 6 Watts depending on HIFI 45500 standards) :
 - electronic volume and balance adjustment,
 - right and left-hand speaker balance,
 - separate control for bass and treble.
- A liquid crystal remote display for radio/cassette operation displays.

ATTENTION : Never connect a display designed for a 2 x 8 W to a 4 x 15 W audio unit as this will destroy the internal bus for the display.

RADIO PREPARATION ON NEW VEHICLES

For security reasons when the radio leaves the factory, it operates in the following manner:

When the set is switched on a series of audible "beeps" sound every 3 seconds alternating between the radio or cassette every 2 minutes. The display alternates every second between the active radio mode display (radio or cassette) and the message "Cod".

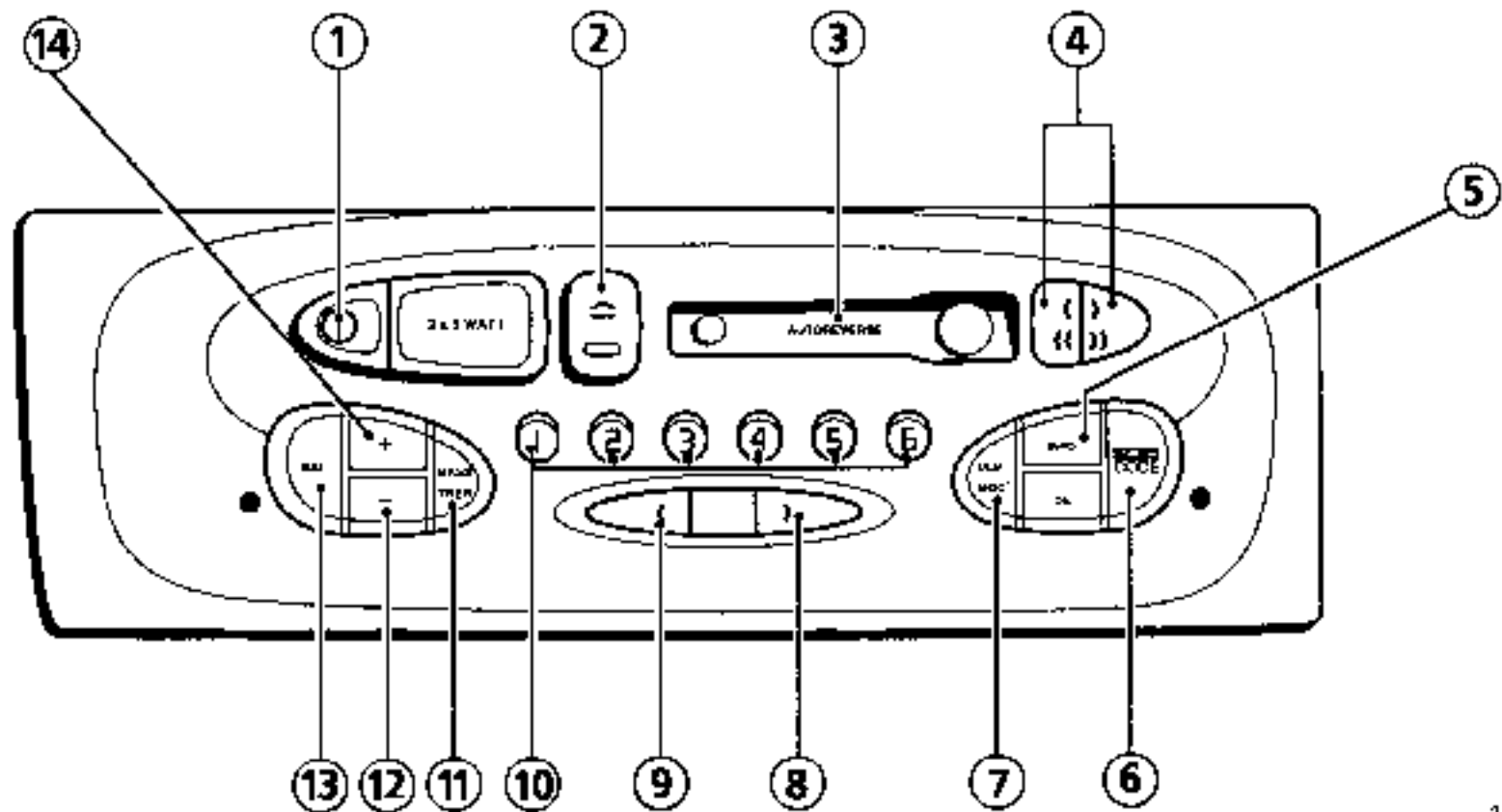
Whilst the message for radio or cassette is displayed, all functions are operational.

After 2 minutes, the set is quiet and the display is fixed, showing the message "Cod".

This operating mode is known as the scrambled mode.

To cancel the scrambled mode the radio code must be entered when the display shows "Cod" (see page 86-9).

AUDIO UNIT



10280R

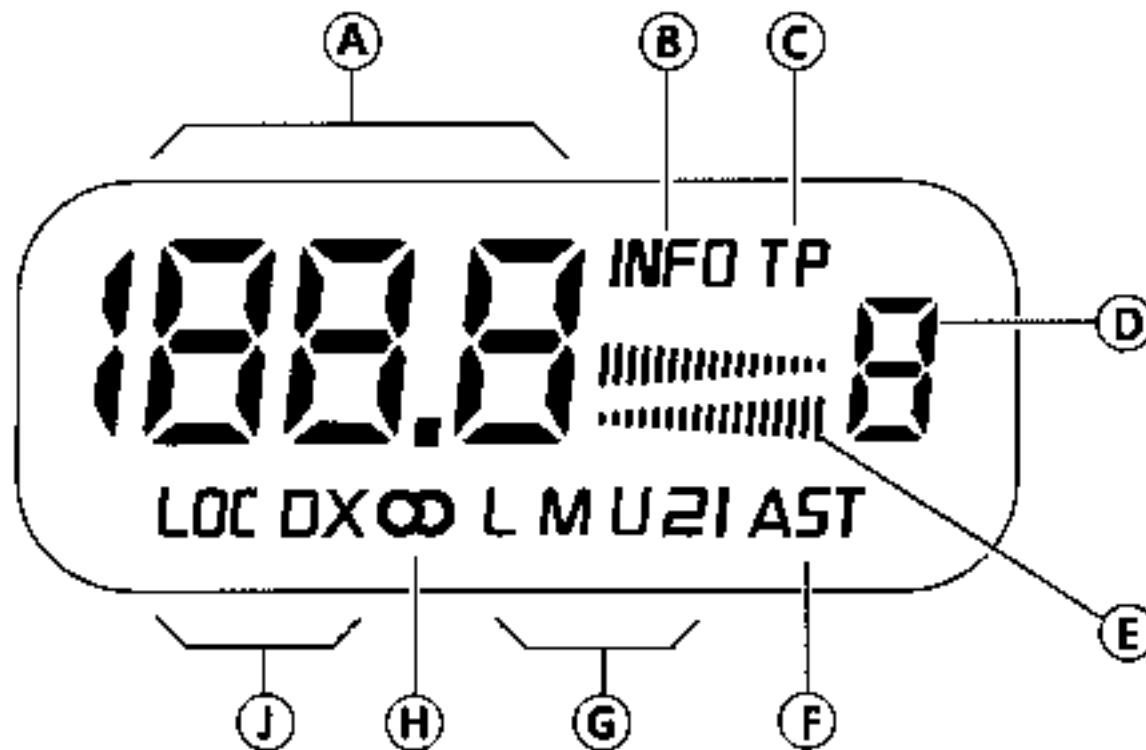
- 1 Radio, cassette, satellite and display On/Off key.
- 2 Cassette eject.
- 3 Cassette reader compartment.
- 4 ● Cassette fast forward/rewind keys.
● Holding both keys down at the same time reverses cassette playback direction during playback.
- 5 Traffic information" mode selection by lightly pressing the key (for less than 2 seconds). It selects the transmitters sending the traffic information.
- 6 Automatic search stop sensitivity level key :
 - LOC : Normal search stop sensitivity level.
The electronic search only stops on stations received at a level suitable for comfortable listening.
 - DX : Increased search stop sensitivity level.
The electronic search stops on all stations received, even if the sound quality is not perfect.
- 7 Waveband selection key or active source selection key as follows:

LW (L) → SW (M) → FM1 (U1) → FM2 (U2) → FM Autostore (AST)

Cassette reader

- 8 Manual or automatic search for a radio station in an upwards direction.
- 9 Manual or automatic search for a radio station in a downwards direction.
- 10 Keys for :
 - Recalling radio station pre-selections (1 to 6) by lightly pressing the key (less than 2 seconds).
 - Memorising radio stations by pressing the key for longer (longer than 2 seconds).
- 11 Selection key for adjusting bass and treble.
- 12 "-" key for :
 - reducing the volume
 - adjusting the right/left-hand balance to the right.
 - bass and treble reduction.
- 13 Selection key for adjusting right/left-hand balance.
- 14 "+" key for :
 - increasing the volume,
 - adjusting the right/left-hand balance to the left,
 - increasing bass and treble.

DISPLAY



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A Frequency that the radio is tuned to

B "INFO" tell-tale.
Illuminates when "Traffic information" function key 5 is activated.

C Illuminates when the radio is tuned to a station which can transmit traffic information, whatever the status of key 5.

D Active pre-selection number (1 to 6).

E Tell-tale showing reception level or track level
● Radio operation

weak reception of radio station displayed

average reception of radio station displayed

good reception of radio station displayed

● Cassette operation

playback of next track

playback of previous track

F FM Autostore waveband tell-tales (auto-programming in **FM**) flashes during programming in Autostore.

G Waveband tell-tales for **L (LW)**, **M (SW)**, **U1 (FM1)** and **U2 (FM2)**.

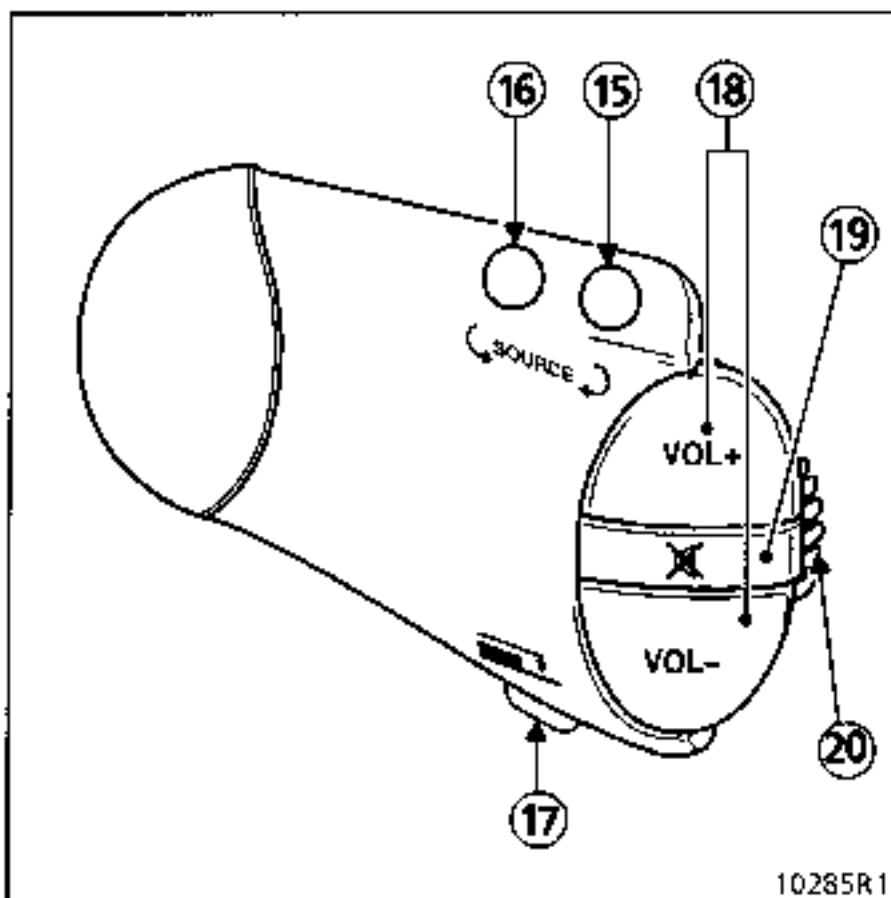
H Stereo reception tell-tale. Illuminates in **FM** if the stereo signal is being received.
Changes automatically to stereo depending on the selected source (radio).
In **FM** waveband when reception is poor, various filters are used to suppress stereo.

I Automatic search sensitivity level tell-tales

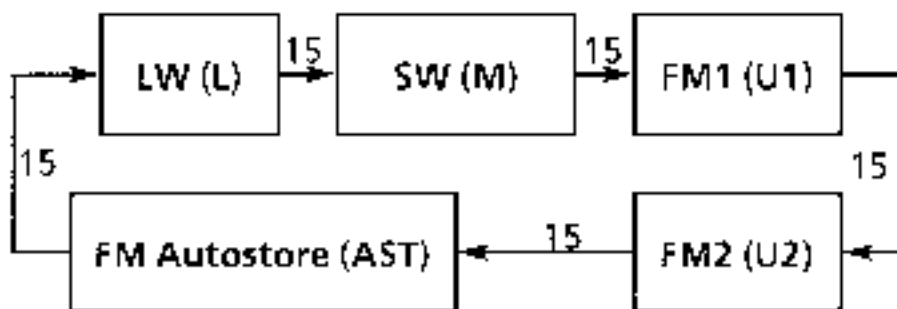
" Loc " illuminated : normal search sensitivity level,

" Dx " illuminated : increased search sensitivity level to capture weak transmitters.

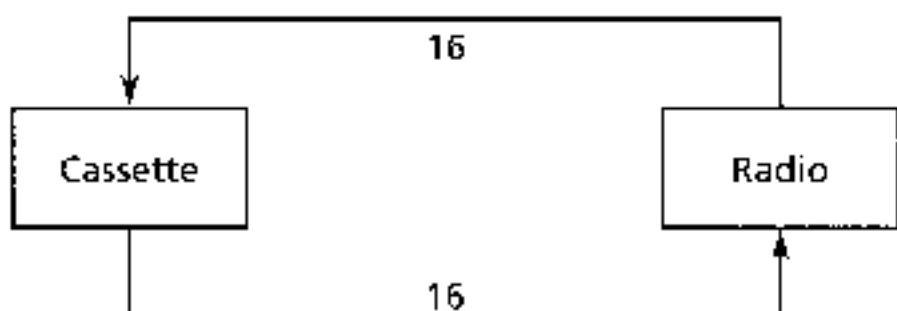
SATELLITE (remote control)



15 Changes waveband or sources as shown in the following cycle.



16 Changes active source.



- 17 ● Brief pressure (less than 2 seconds) :
 - Automatic radio station search in an upwards direction (in radio mode).
 - Validation of code (in confidential security code entry mode).
- Prolonged pressure on the key (longer than 2 seconds) :
 - Commences auto-programming in FM or Autostore (in radio mode).
 - Validation of code (in confidential security code entry mode).
- 18 ● +/- keys for adjusting the volume, bass and treble, right-left-hand balance .
- 19 ● Confidential security code entry mode :
 - Brief pressure : validation of the figures which make up the code.
 - Prolonged pressure : validation of the code.
- Other modes :
 - Sound cut-out/restore.
- 20 ● Tumblewheel :
 - Radio mode : changes radio station pre-selection in the active wavebands (1 to 6) by pressing key 15.
 - Confidential security code entry mode :
 - Composition of the four figures in the code .

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

It is shown on the removable part of the radio warranty card, or on the vehicle invoice if the vehicle has been exported.

This code is programmed during manufacture and can never be altered by the user.

The customer may however make the code operable or inoperable (see pages 86-10).

PROCEDURE FOR ENTERING THE CODE

- After the power supply has been cut
- To cancel the scrambled mode :
 - a) Press key 1 to turn the power on. The message "Cod" appears briefly on the display (after 2 minutes operation in scrambled mode) before being replaced by "0000".
 - b) To enter the 4 figure code :
 - change the figure which is flashing by using switch 22 on the satellite remote control,
 - briefly press one of the keys 17 or 19 on the satellite control to validate this figure and to make the next flashing figure appear,
 - carry out these two operations again until all 4 figures of the code are displayed.
 - c) Hold down one of the two keys 17 or 19 on the satellite remote control to validate the code.

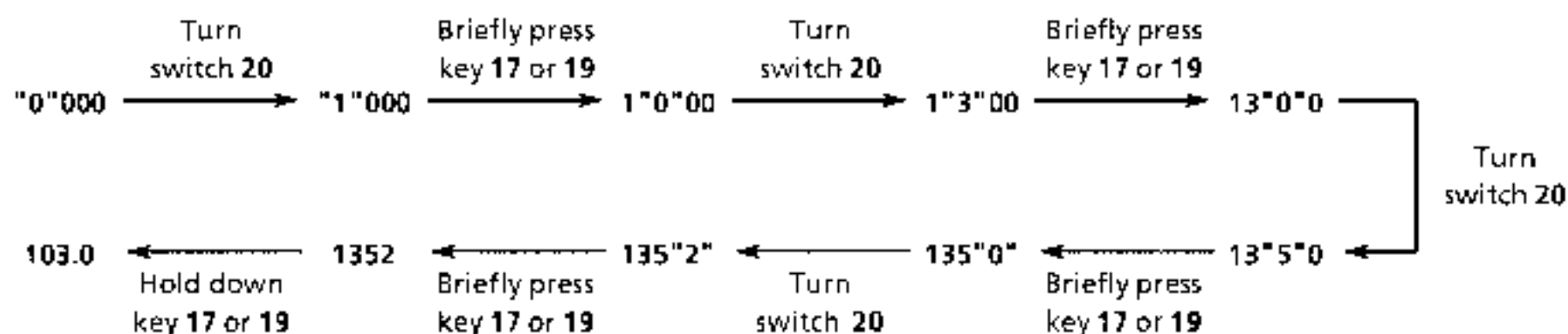
Validation of the code is indicated by a "bleep" and the display shows the frequency of the last radio station listened to.

The volume returns to a preset average level. The tone and balance settings return to a "mid range" setting.

Example :

A flashing figure is indicated in brackets ("0").

You wish to enter code 1352 :



IMPORTANT :

If the code entered is incorrect, a "bleep" will be emitted and the message "Cod" will appear on the display.

You may then re-enter the code following the method described above but to do so, you must leave the set switched on and wait one minute before recommencing the operation.

If the renewed attempt is unsuccessful, you may repeat the operation keeping the set switched on but the delay between attempts (if you make an error) will increase progressively to 2, 4, 8, 16 and 32 minutes.

CHANGING FROM ONE OPERATING MODE TO ANOTHER (CODED TO NON-CODED AND VICE VERSA)

You can change the operating mode of the set at any time. To do so, the entry code must be entered as follows :

- **Set switched off**, press the fifth pre-selection key **10** and keeping it depressed, press key 1 "On/Off" until 4 zeros appear on the display. When changing from coded to non-coded mode the message "Cod" appears briefly on the display when the set is switched on, before being replaced by 4 zeros.
- You can then enter the code by following the procedures described on page 86-9.

When the code is validated, the set will indicate its current status :

- **code deactivation** : two "beeps" sound and the last frequency listened to reappears on the display A.
- **code activation** : one "bleep" sounds and the last frequency listened to reappears on the display A.

Note : If there has been no general supply failure, when the set is switched on the display will show the status of the set.

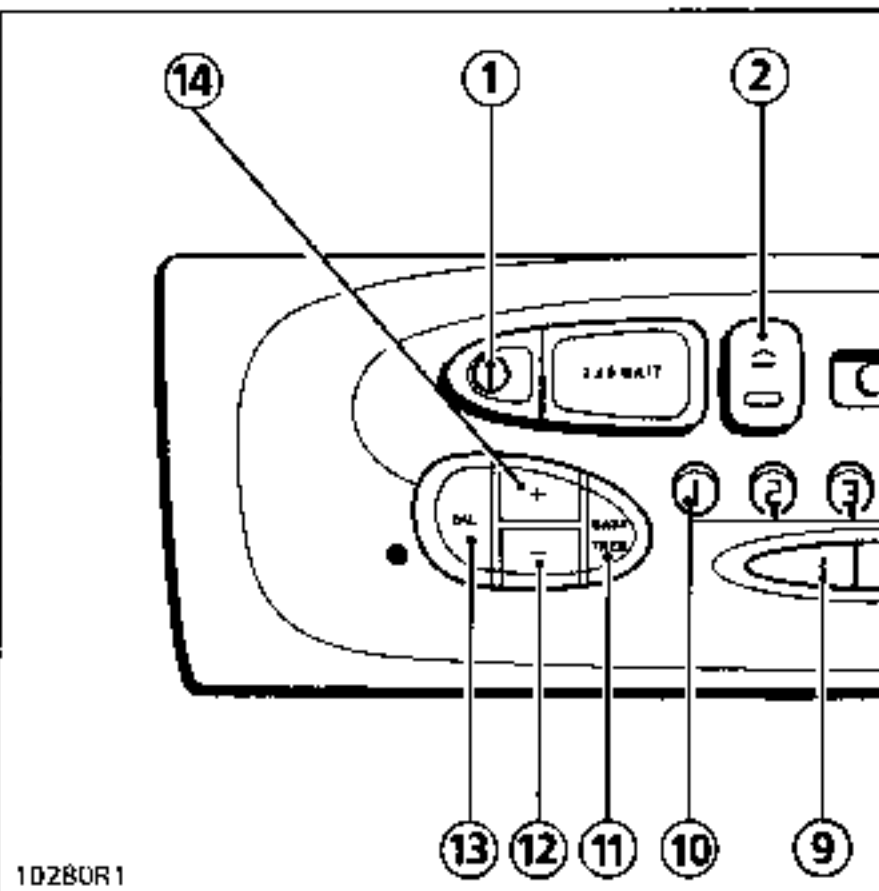
If it is coded, the message "Cod" will appear briefly before being replaced by the last frequency listened to.

If it is not coded, the frequency will be displayed immediately.

DISPLAYS

When the set is switched on, several messages may be displayed :

" Cod " / 102.0 / " Cod "	" Cod " → 102.0	102.0
<p>The set is in scrambled mode</p> <p>The scrambled mode is only seen when no code has been entered.</p> <p>The set operates in scrambled mode for 2 minutes and is then quiet.</p> <p>When the code is entered (see page 86-9) the scrambled mode is cancelled.</p>	<p>The set is coded</p> <p>The user may operate the set normally (turn the ignition off) and when the ignition is turned on again, the set displays "Cod" briefly before returning to the last frequency displayed.</p> <p>If there is a general power failure (battery disconnected), the code must be re-entered (see page 86-9).</p>	<p>The set is not coded</p> <p>The user may turn the ignition off and on again, the set will return to the last frequency listened to (in radio cassette mode).</p> <p>If there is a general power failure (battery disconnected), the set will return tune into the memorised pre-selection 1 in the U1 (FM1) waveband without the need for the code to be re-entered.</p>
—	See above for how to change from non-coded to coded mode.	See above for how to change from non-coded to coded mode.



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ON/OFF

Press key 1.

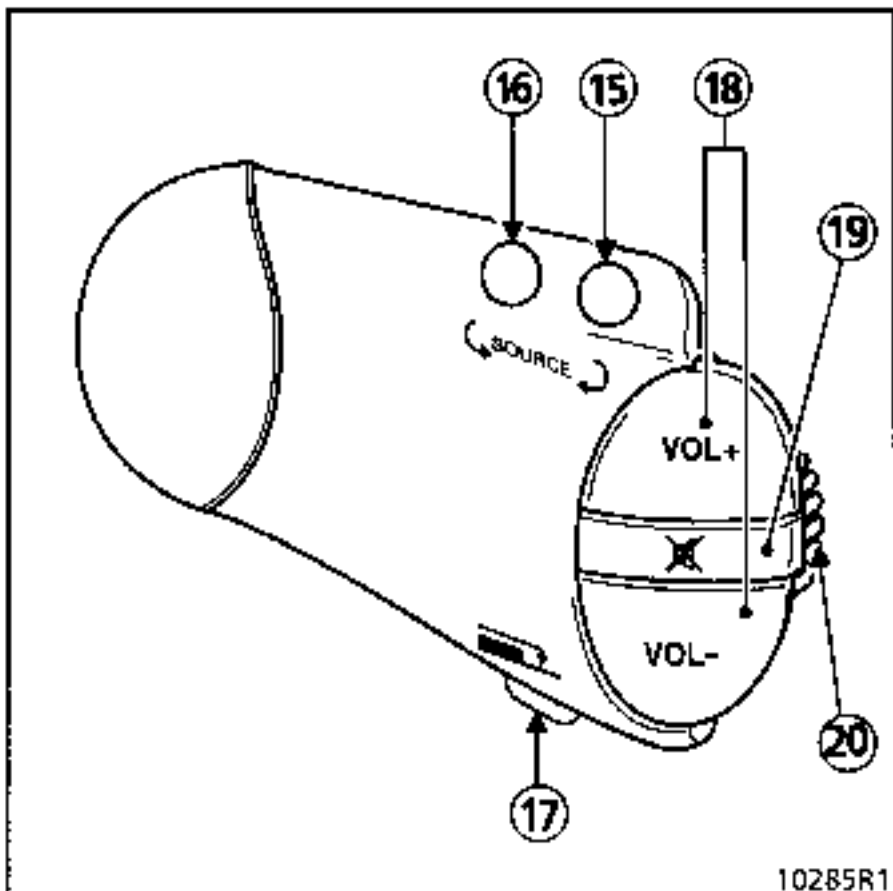
When the set is switched on (radio, cassette or CD) the last station listened to will be broadcast even if there has been a general power failure.

Note : There is a system which allows the set to be used without switching on the ignition (in + before ignition).

This function is limited to a period of 10 minutes. After this time the set will be switched off automatically to avoid discharging the battery.

5 seconds before the end of the 10 minute period a "bleep" will sound and the display will flash.

When operation in + before ignition is interrupted by pressing key 1, pressing the key again (key 1) sets off the time delay for another 10 minutes.



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VOLUME ADJUSTMENT

Volume : keys 12 and 14 on the radio or key 18 on the satellite remote control.

It is possible to completely cut the sound by pressing key 19 on the satellite remote control. Pressing this key again restores the volume to its previous level.

The sound may also be cut automatically during a telephone conversation (if the vehicle is equipped with a car telephone).

Spatial sound distribution

Select right/left-hand balance using key 13 then adjust using keys 12 or 14 on the radio or key 18 on the satellite.

As soon as key 13 is pressed, the display indicates the function that has been selected and its adjustment value (it returns to the previous message displayed if the keys are not pressed within 4 seconds).

Adjustment scale

0 - 9	b	far right
9 - 9	b	centre
9 - 0	b	far left

Tone

- **Bass** : Select this function by pressing key 11 then adjust using keys 12 and 14 on the radio or key 18 on the satellite remote control.
- **Treble** : When bass adjustment mode is active, pressing key 11 again changes the adjustment mode to treble. Adjustment is still made by using the same keys (12 and 14 or 18).

As soon as key 11 is pressed, the display indicates the function that has been selected and its adjustment value.

After 4 seconds if the keys have not been pressed, the display returns to the previous message displayed.

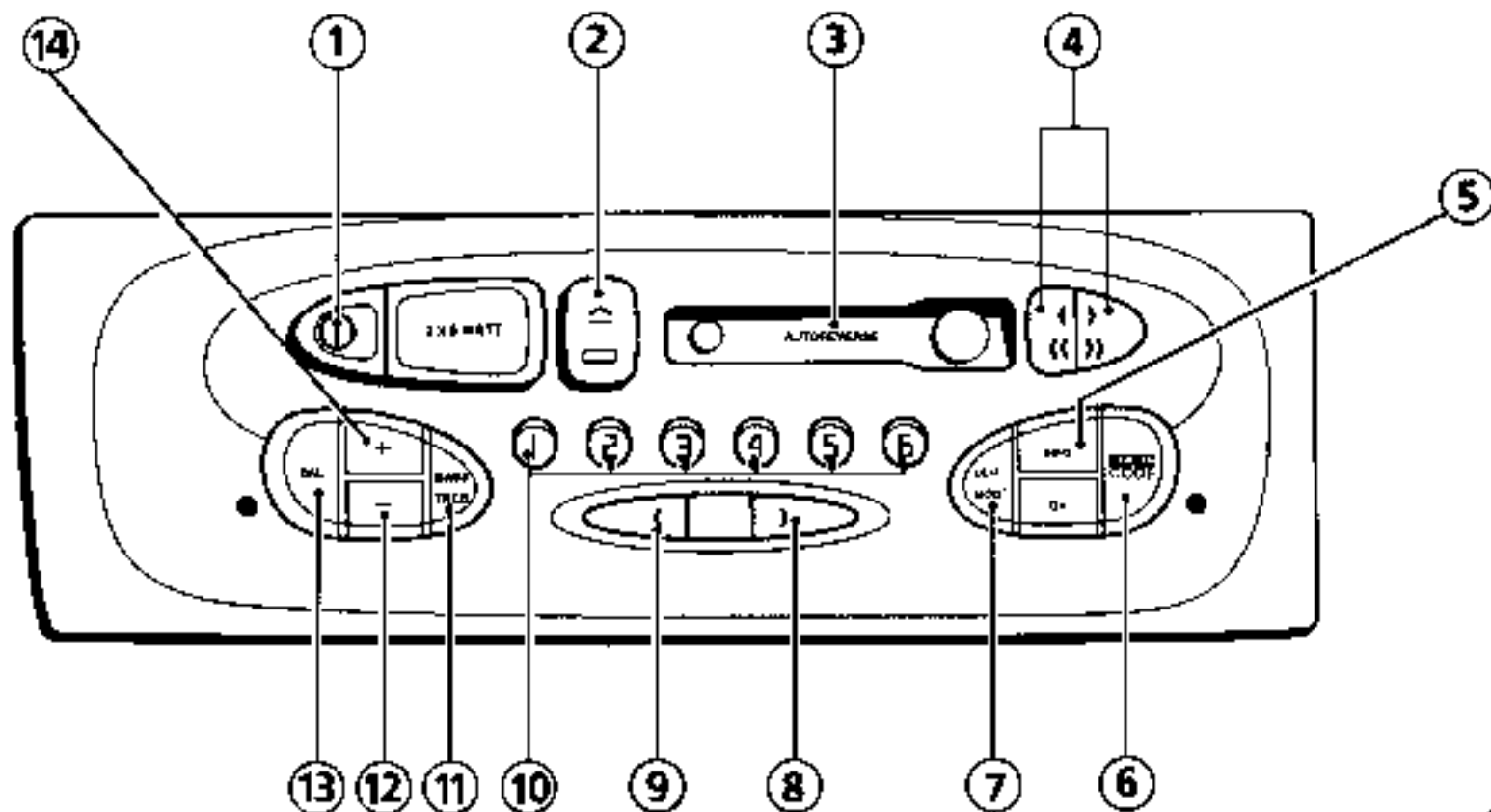
Adjustment scales

Bass		Treble		
-4	b	-4	t	min
0	b	0	t	average
4	b	4	t	max

These values are retained each time the set is switched on.

In the event of a general power failure the volume level returns to an average preset value. Adjustments for tone and spatial sound distribution retain their "mid-range" setting and the "Loudness" function is deactivated.

- **Automatic Loudness** : This function progressively adjusts the volume level of bass and treble. No special message appears on the display.



1028DR

WAVEBAND SELECTION

Using the radio

Press key 7 to select one of the following wavebands LW (L),SW (M),FM1 (U1), FM2 (U2) or FM Autostore (AST)

Using the satellite control keys

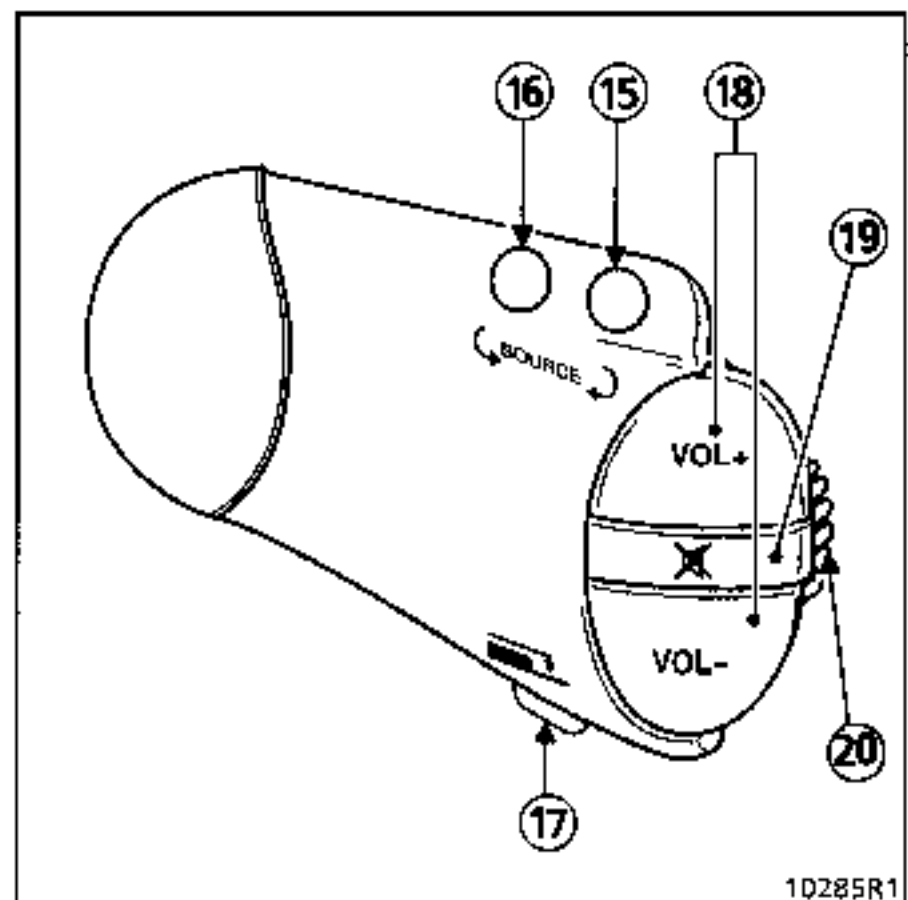
Press key 15 to select one of the following wavebands LW (L),SW (M),FM1 (U1), FM2 (U2) or FM Autostore (AST).

MANUAL FREQUENCY SEARCH

This is done by scrolling through the frequencies in an upwards or downwards direction.

Select the waveband (see above).

- Brief pressure on keys 8 or 9 :
the frequency changes by one step at a time (100 kHz in FM, 1 kHz in SW, 1 kHz in LW).



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- Prolonged pressure on one of the keys 8 or 9: rapid scrolling through frequencies for as long as the key is depressed.

Note : Manual search cancels "Traffic information" mode.

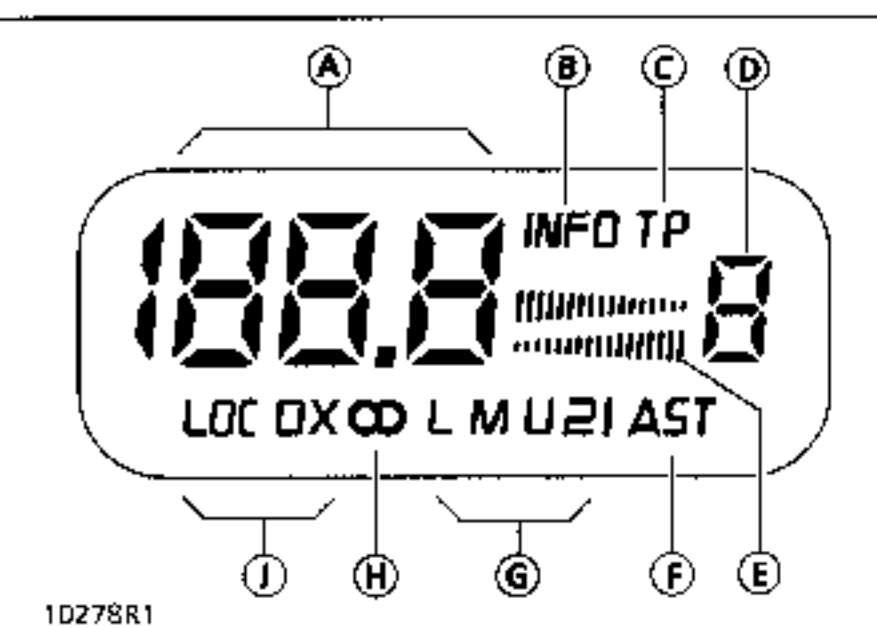
AUTOMATIC FREQUENCY SEARCH

Select a waveband as shown on the previous page.

Brief pressure on key 17 of the satellite control activates automatic search of frequencies scrolling in an upwards direction only.

Note : If one of keys 8, 9 or 17 is pressed whilst the frequencies are scrolling frequency search is stopped and the start frequency is displayed again.

Search sensitivity level



For the first automatic search started since the set was switched on, tell-tale message J "Loc" appears on the display. The search is carried out as follows :

- The search is carried out initially on the first of the 3 sensitivity levels (LOCAL1 = very good reception only).
- If no station is found after a search of the entire FM waveband, the search continues at the second level of sensitivity (LOCAL2 = good reception) which is stored for 1 minute. The radio will then start the next automatic search from this level onwards if it is activated within the following minute.

- If still no station is selected, the search is continued at the highest sensitivity level (DX = average reception) which will only be stored for one minute. If the next automatic search is not started within the following minute, it will restart from LOCAL1 level.

Sensitivity level DX can be intentionally selected by pressing key 6.

Tell-tale J "DX" appears on the display and subsequent searches started will be carried out only at this level.

The DX level will be stored until sensitivity level LOCAL1 is selected once again by pressing key 6 and is indicated by the message J "Loc" on the display (except when the radio is switched off or following a general power failure).

PRESELECTIONS

Programming

Select a waveband using keys 8 or 9 on the radio or 15 on the satellite control.

Manually or automatically search for a radio station.

Press the desired pre-selection key 10. The sound is cut.

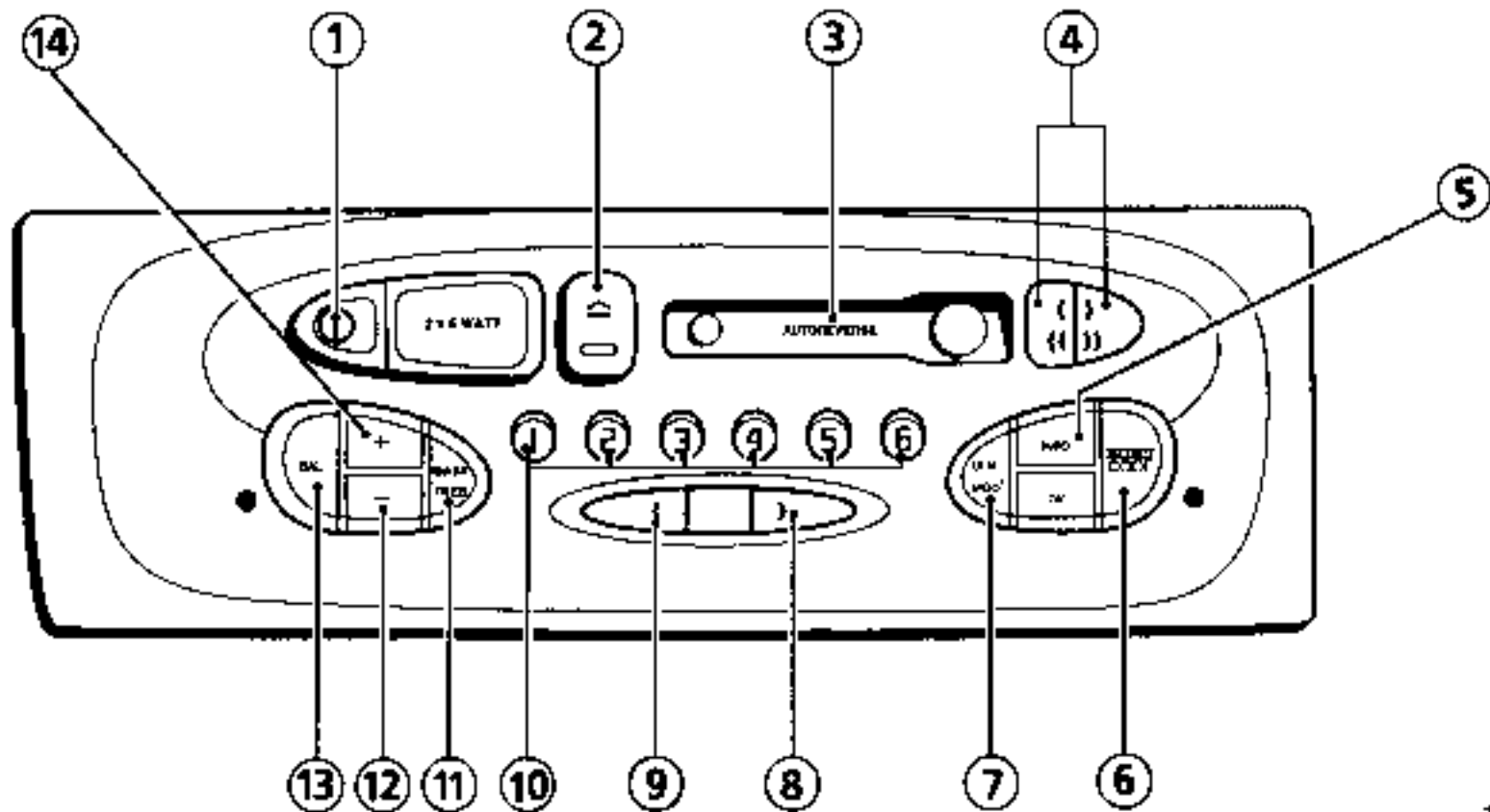
Keep the key held down until the sound returns and a "bleep" is heard.

The frequency displayed is stored.

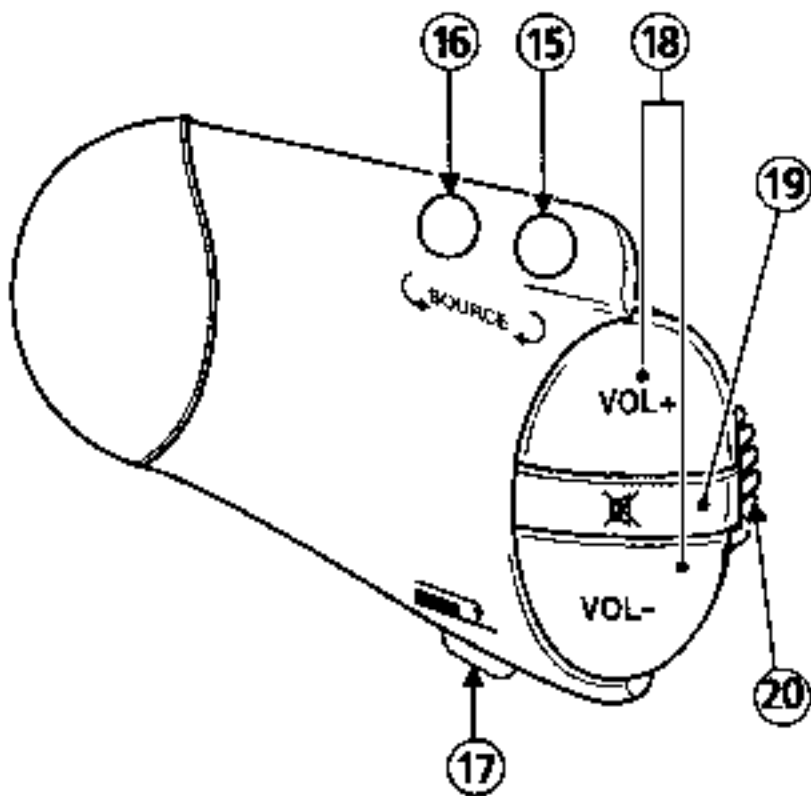
Recalling the radio station

Briefly press the desired key 10 or turn switch 20 on the satellite control after selecting a waveband.

Note : The system stores the frequency and the "INFO" configuration if it was tuned in (refer to section on "Traffic information mode").



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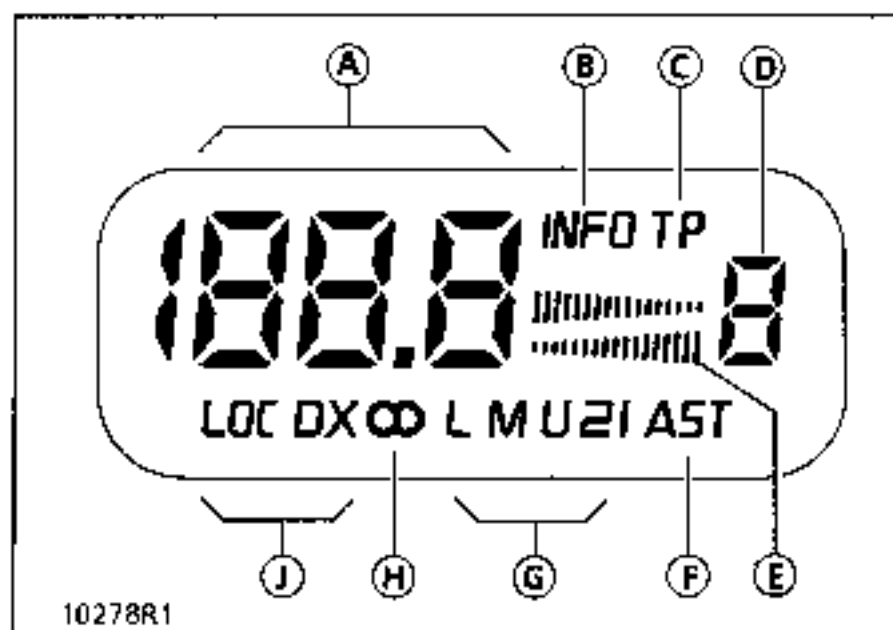
10285R1

AUTOPROGRAMMING IN FM (Autostore)

Automatic storing (**Autostore**) is an extension of the automatic search function.

This involves initiating the selection and storage of the 6 most powerful stations in your region without having to know their frequencies.

If less than 6 stations are stored, the preselections which were not taken are allocated "0000" or will keep the previous frequencies.



Procedure

Autoprogramming is activated by pressing and holding down (for longer than 2 seconds) key 17 on the satellite control whichever FM waveband is active in cassette mode, if the last frequency listened to was in FM.

A "bleep" is heard. In radio listening mode the sound is cut, tell-tale **C** illuminates and the message "AST" flashes on the display at **A**.

In cassette or CD* mode, the message on the display remains unchanged and only tell-tale **C** is flashing.

At the end of autoprogramming the system emits another "bleep".

In radio mode, the sound returns and the first pre-selection in "AST" can be heard.

Note : The user is able to change the active source during autoprogramming without interrupting its operation.

- Starting autoprogramming deactivates "Traffic information mode".

USING THE RADIO IN "TRAFFIC INFORMATION" MODE

This is applicable to those countries who have a road traffic information system (depending on the RDS standards).

RDS is a system which enables some FM transmitters to broadcast TP (Traffic Programme) information and TA (Traffic Announcement) information. This is inaudible information which is broadcast at the same time as the radio signal.

If the set is tuned into a station which is able to transmit road traffic information, tell-tale C illuminates on the display whether "INFO" mode is selected or not (tell-tale B illuminated or extinguished).

Switching on the receiver's "INFO" mode

Switch on "INFO" mode by briefly pressing key 5, tell-tale B illuminates on the display. There are two possibilities :

- the set is already tuned to a traffic information transmitter (tell-tale E illuminated) and the station continues to be received,
- the set is not tuned to a traffic information transmitter (tell-tale C extinguished). Tell-tale B flashes on the display and an error "bleep" sounds after 5 seconds. It is then possible to carry out an automatic search by briefly pressing key 17 on the satellite control to select an "INFO" transmitter.

Programming

The "INFO" station is programmed in the same way as for conventional "NON INFO" stations using the pre-selection keys 1 to 6 in FM waveband and this replaces the pre-selected FM stations in the normal FM mode.

Changing the "INFO" station

- In automatic search mode :

You are unhappy with the "INFO" station currently being listened to or the signal being received is becoming weak, in this latter situation a "bleep" sounds and tell-tale B begins to flash.

It is then possible to start an automatic search by briefly pressing key 17 on the satellite control. The receiver will tune itself to the next "INFO" station in the area.

- In manual search mode :

When the "INFO" station frequency is known (for example, as indicated on roadside traffic signs), it is possible to tune into them directly. Refer to the paragraph on "Manual station search". Once the station has been selected, activate "INFO" mode by pressing key 5.

Message broadcasting while listening to a cassette

If you wish to hear road traffic messages when listening to a cassette, you must first select the frequency of an "INFO" transmitter.

The message will override the cassette. At the end of the message, the cassette will take over once more.

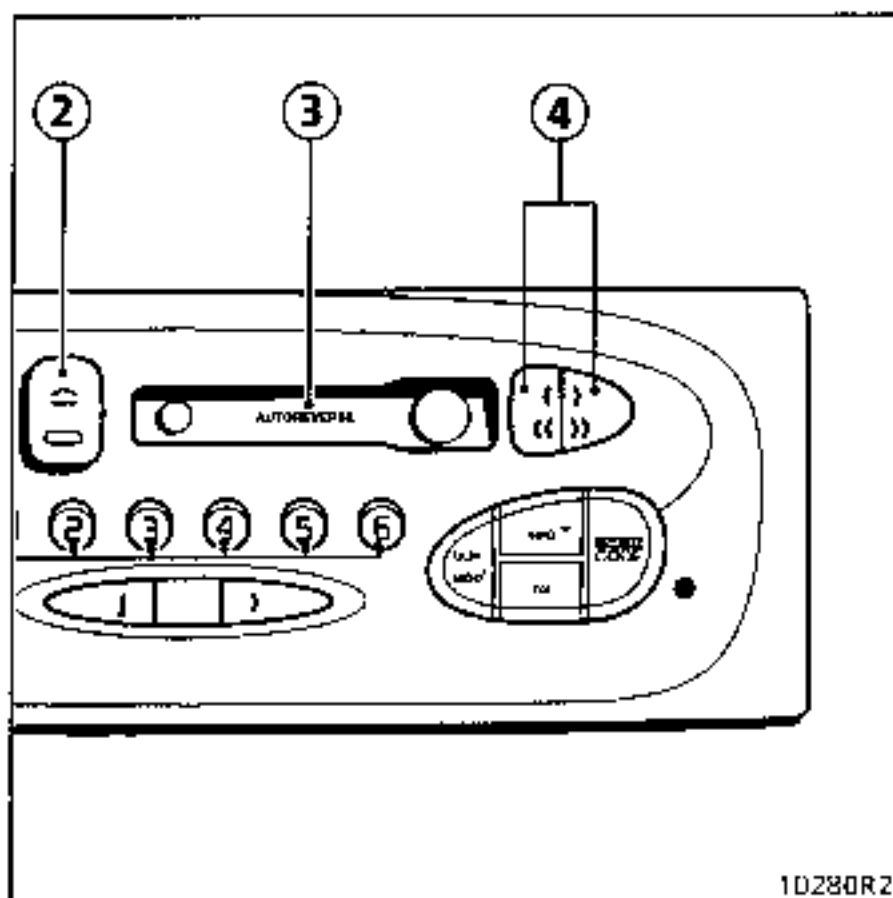
Volume of the message being broadcast

Messages broadcasting road traffic information are heard at a minimal level at least equal to the average volume or sound level of the last message broadcast.

Switching off the "INFO" mode

To quit "INFO" mode, press key **5**. Tell-tale **B** is extinguished.

Note : Starting autoprogramming in FM (Autostore), manual station search (key **8** or **9**) or recalling a memorised pre-selection without the "INFO" configuration switched on, deactivates "INFO" mode.





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When a cassette is inserted :

- the radio will cut out,
- the cassette will be played in the last active direction of play.

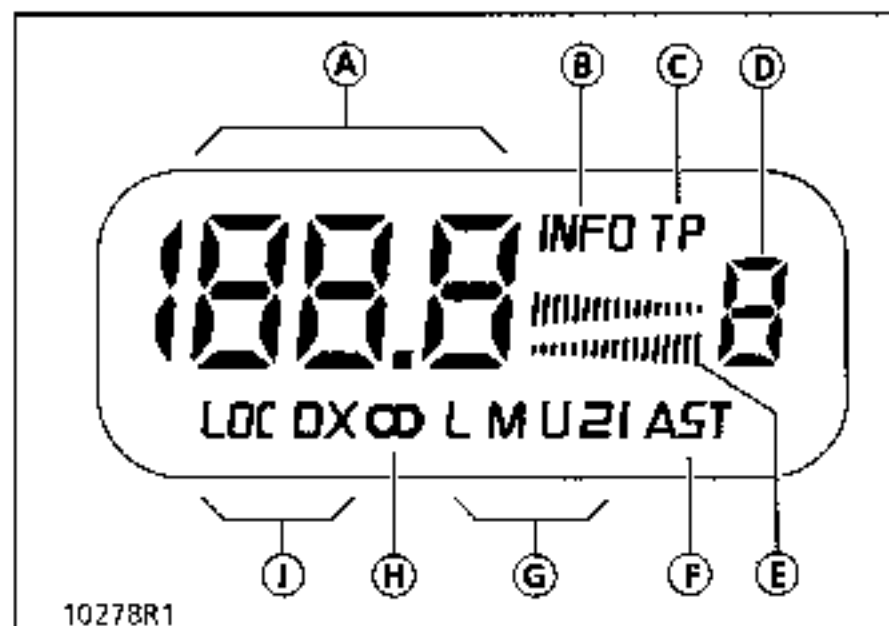
If a cassette is already in cassette compartment 3, pressing key 16 on the satellite control selects cassette playing mode and begins playback in the last active direction of play.

During cassette playback, the display indicates the active mode at A and the direction of play at E :

- next track "CAS" 
- previous track "CAS" 

Changing the direction of play

The system changes the direction of play at the end of the tape or by pressing keys 4 at the same time. The direction of play is shown by one of the tell-tales E.



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Fast winding

Press one of keys 4 depending on direction required:

- fast forward
- fast rewind

When key 4 is pressed the radio is heard until fast winding stops.

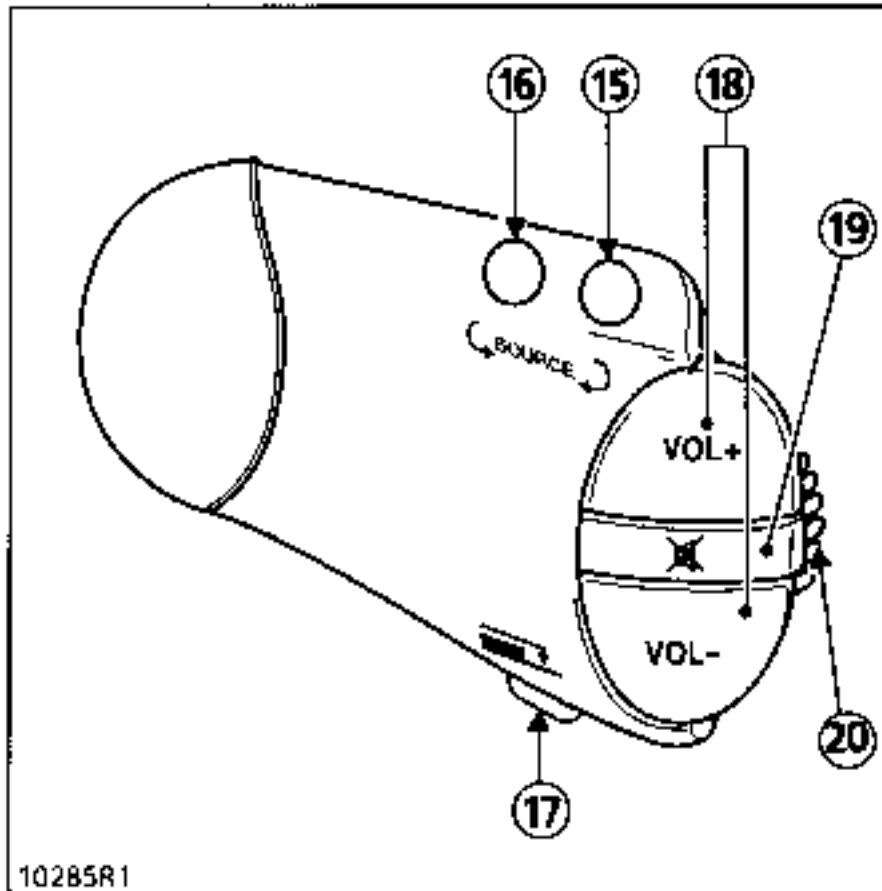
Radio mode is then fully operational with the corresponding radio display (see "Radio operation").

Note : It is not possible to begin fast winding unless you are in cassette playback mode.

Stopping fast winding

Fast winding stops :

- at the end of the tape,
- by pressing (briefly) key 4 in the opposite direction to the fast winding mode in progress. Playback resumes on the same side,
- by pressing key 19 on the satellite control. Playback resumes on the side being played the next time this is pressed.



Stopping playback

- **Changing the active source without ejecting the cassette**

Pressing one of keys 16 on the satellite control activates radio mode without ejecting the cassette.

Playback, fast forward and rewind are interrupted and the playback head is disengaged.

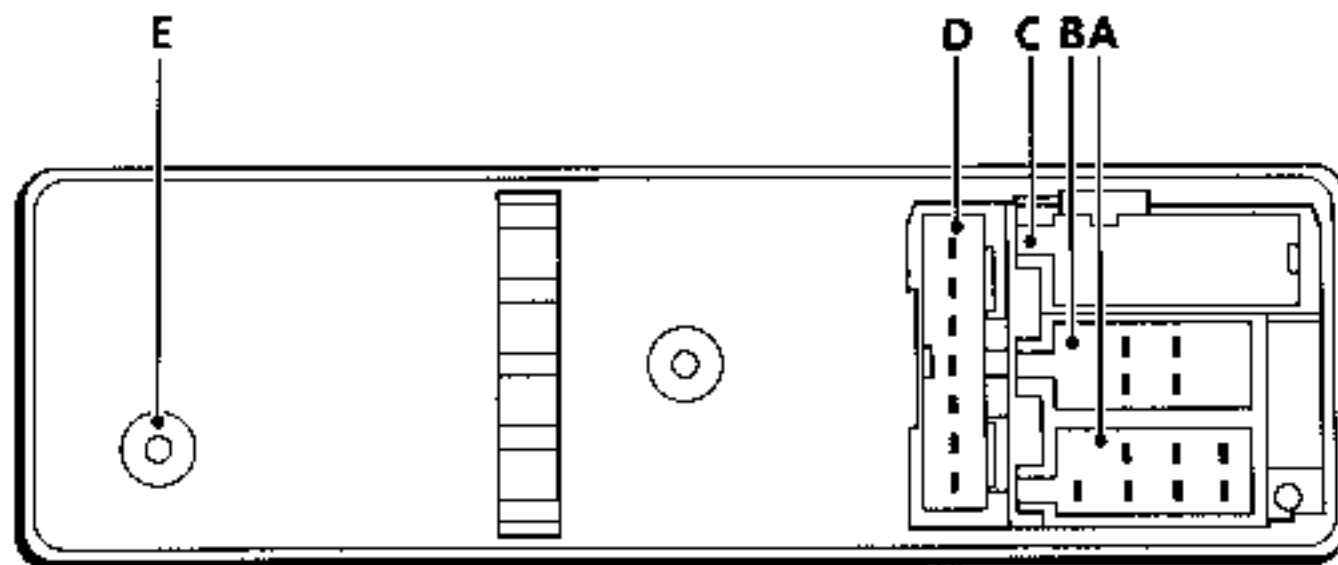
Note :

The tape playback head is automatically disengaged if the power supply is cut.

Ejection

By pressing key 2 cassette playback is stopped, the cassette is ejected and the last radio programme being being broadcast by the radio set is resumed.

AUDIO UNIT



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Feed connector (A)

Track	Description
1	Not connected
2	Rheostat connection earth
3	Radio "mute" (sound cut-out)
4	– before ignition
5	– electric aerial
6	– lamps (lighting)
7	– accessories
8	Earth

Connector (C)

Not used

Speaker connectors (B)

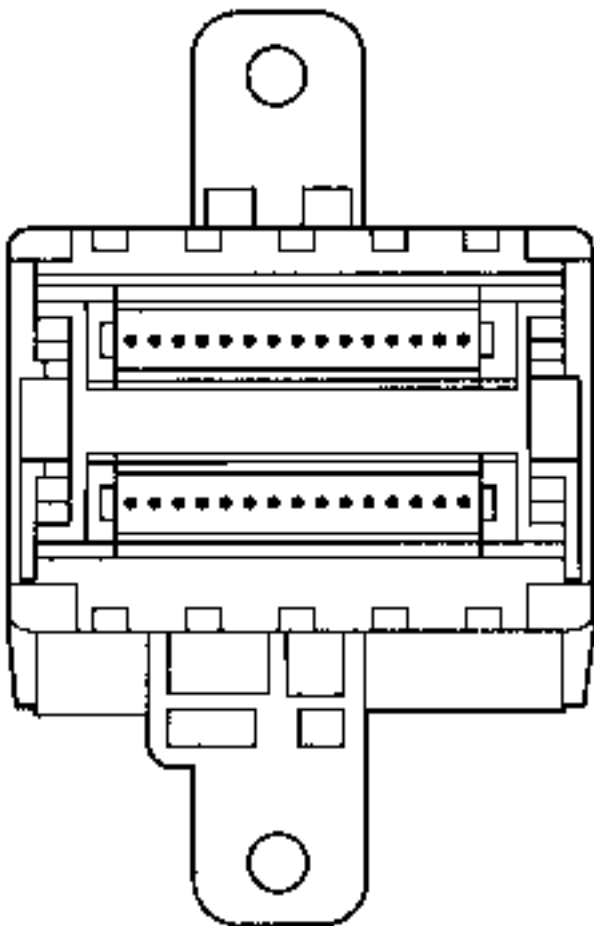
Track	Description
1	Not connected
2	Not connected
3	+ RH front speaker
4	– RH front speaker
5	+ LH front speaker
6	– LH front speaker
7	Not connected
8	Not connected

Display connector (D)

Track	Description
1	I 2C data communication connector
2	I 2C Clock
3	MRQ I 2C
4	+ lamps (lighting)
5	rheostat lighting
6	+ aerial
7	Earth

Aerial connector (E)

REMOTE DISPLAY



102795

Green 15-track connector

Track	Description
1	I 2C data communication connector
2	I 2C Clock
3	MRQ I 2C
4	Earth
5	+ Lamps
6	+ Rheostat lighting
7	Feed (radio aerial)
8	Not connected
9	
10	
11	
12	
13	
14	
15	

Red 15-track connector

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

ATTENTION : Never connect a display designed for a 2 x 8 W audio unit to a 4 x 15 W audio unit as this will destroy the internal bus for the display.

REMOVING THE AUDIO UNIT

Special points on removing/refitting

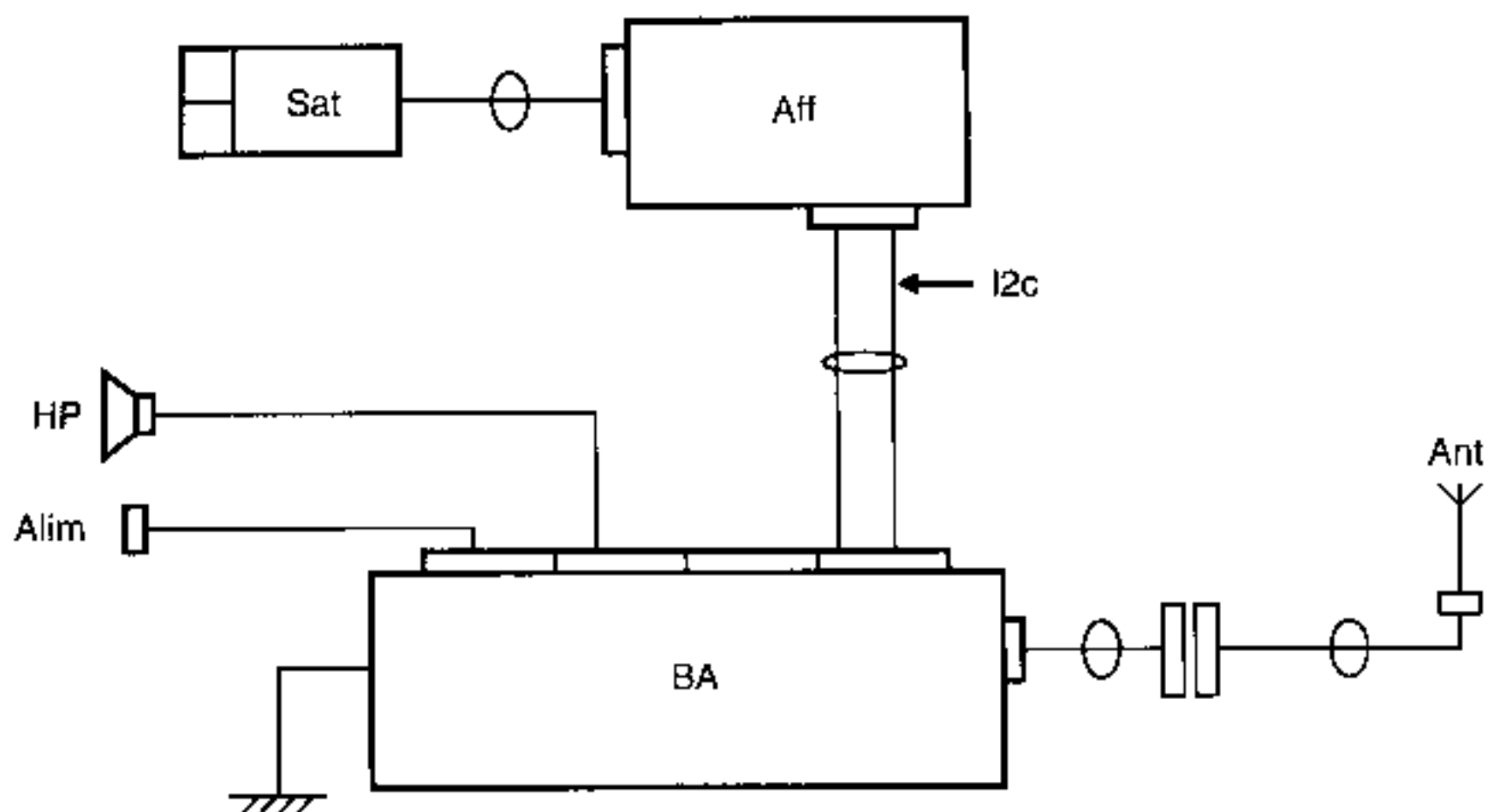
Remove the audio unit from its location in the vehicle using tool **M.S. 1373**.

Note that a plastic intermediary piece remains clipped in the dashboard.

To correctly refit the radio, you must :

- remove the plastic intermediary piece by releasing the 4 clips;
- replace this piece on the audio unit, taking note of the locating slot,
- reconnect the electrical connection at the back of the audio unit,
- refit the audio unit into the dashboard location.

It is only by following this procedure that the radio set clips can be correctly fitted in position.



10282S

- SAT** : Satellite or remote control.
- AFF** : Remote display.
- BA** : Audio unit with connectors A, B , D.
- ALIM** : Vehicle feed.
- HP** : Speakers.

- If the display is completely disconnected, the audio unit remains operational and nothing is shown on the display. When the connection is re-established, the system becomes completely operational again.
- If the I 2C connection is earthed (short-circuit), the entire system is switched off (audio unit and display).
- If the I 2C connection is cut, the display remains as it was at the time of the cut-off and the audio unit remains operational.

When the ignition is switched off or the system is turned off using key 1 (On/Off), the display is extinguished.

When the system is switched on by pressing key 1 again (On/Off), the display illuminates, but nothing is displayed until the I 2C connection is re-established.

- If the I 2C connection is cut whilst entering the confidential code, the audio unit does not operate.

Operation is re-established by connecting to a display and, depending on the situation, switching the set on again by pressing key 1 (On/Off)

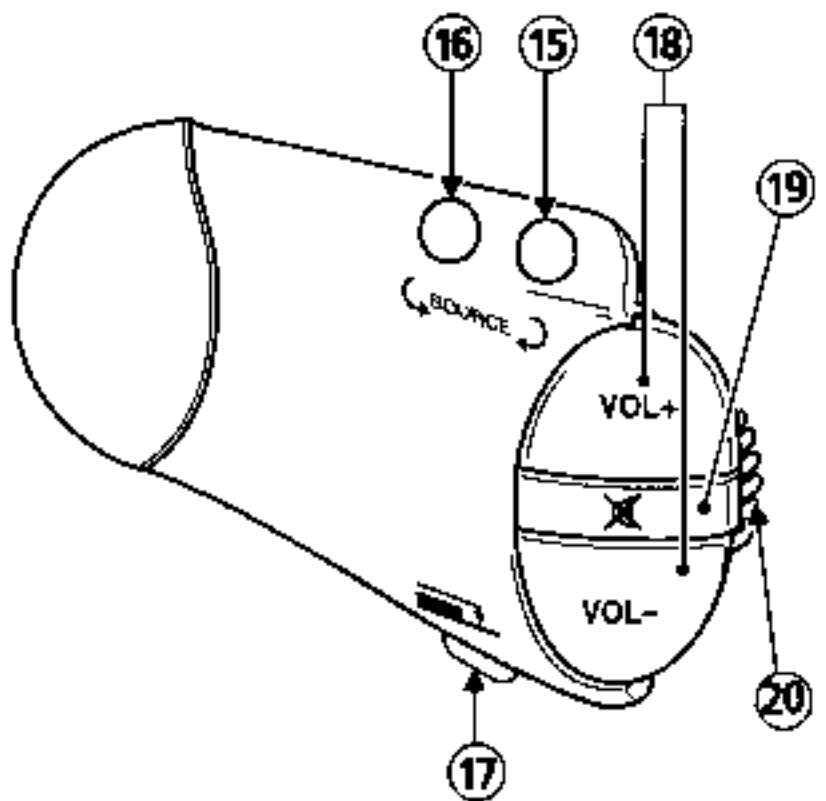
- If there is no satellite control, the system remains completely operational but it is impossible to enter the confidential code.

TESTING THE DISPLAY

To check that all of the liquid crystal remote display segments are operational there is a test which allows you to see all of the segments (they will all be illuminated at the same time).

Method

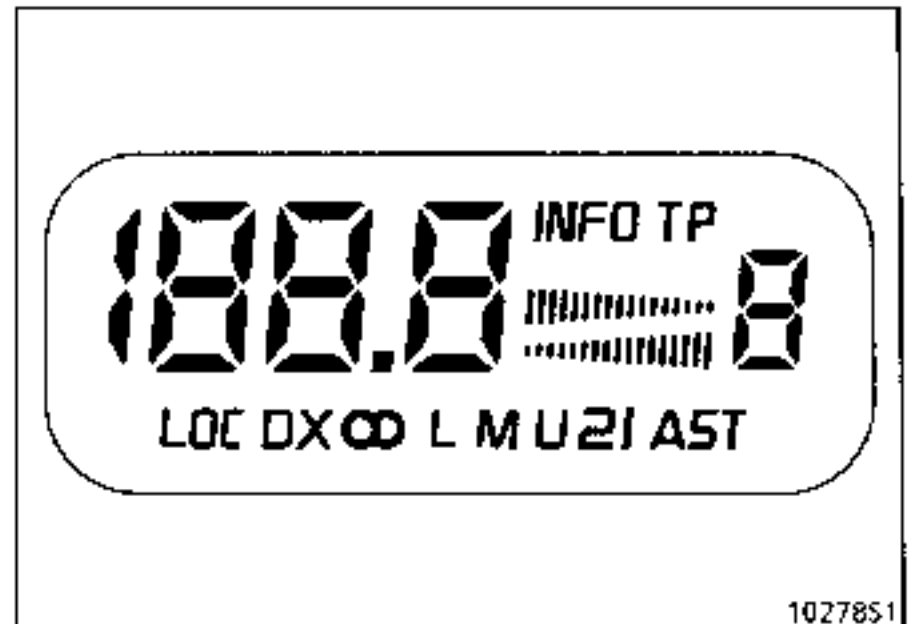
Press key 15 and, at the same time, pull the two keys 18 on the satellite control.



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For 2 seconds, all of the segments (at A and at D) and all of the tell-tales (B, C, E, F, G, H, and J) should be illuminated.

The next display is obtained (which appears if you hold down the 3 keys).



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Note : This test may be performed whatever the active status of the set (radio or cassette player mode).

AUDIO UNIT TEST

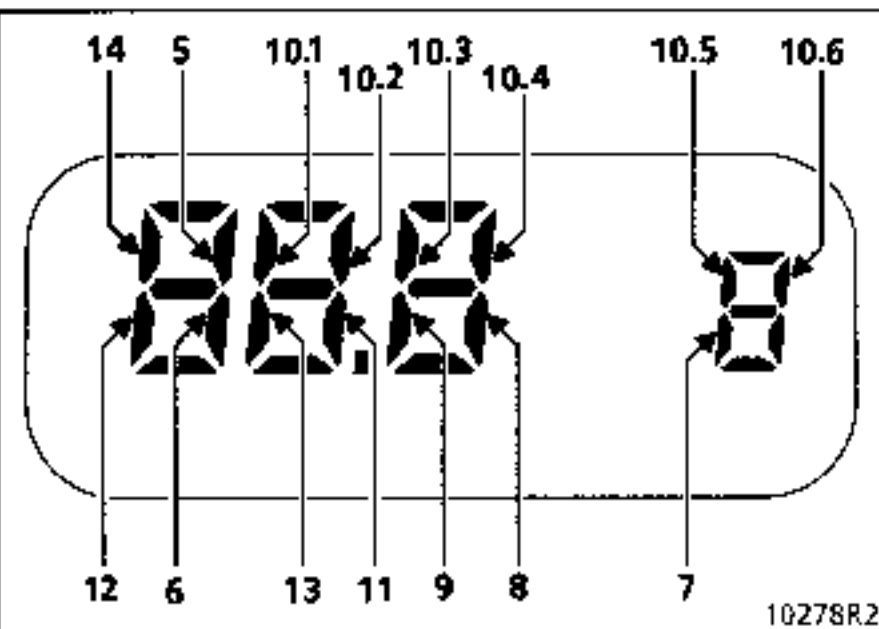
To check that all of the keys on the radio set are operating correctly there is a test to check that these keys operate when they are pressed.

Each key is linked to a segment on the display.

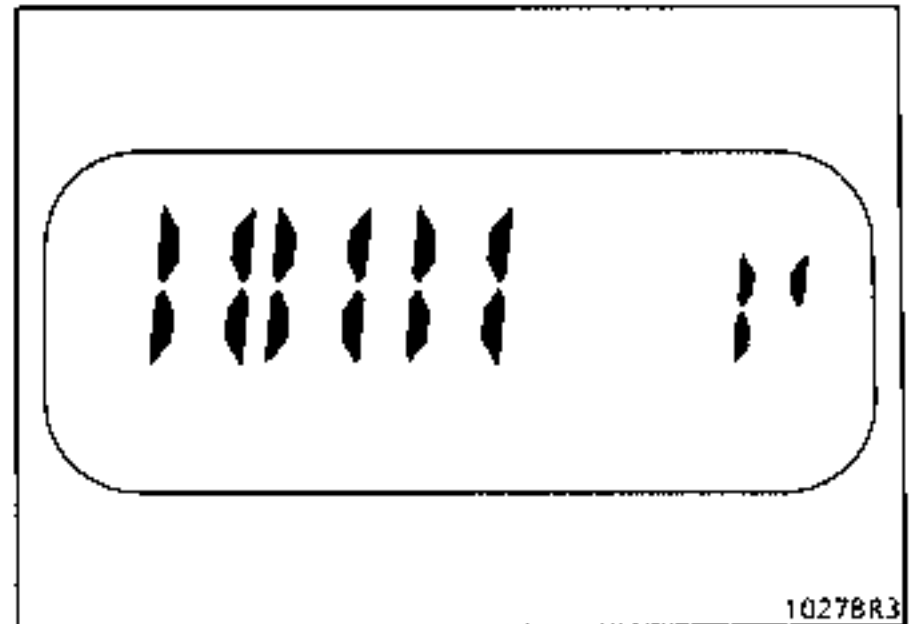
To start the test :

- Switch off the audio unit by pressing key 1 (On/Off).
- Whilst holding down the 3rd pre-selection key 10 switch the audio unit back on by pressing key 1.
- Now, when each key on the radio panel is pressed, the corresponding segment will be illuminated on the display.

Key depressed and corresponding segments



At the end of the test (after pressing all 15 keys), if all of the keys are operating correctly the following message will be displayed :



To return to normal operating mode, switch off the radio set and then switch it back on again.

1. Tuner

- Waveband
 - LW : 531 to 1 602 kHz
 - SW : 144 to 279 kHz
 - FM : 87.5 to 108 MHz
 - AST : 87.5 to 108 MHz

- Intermediate frequency 10.7 MHz in MW - LW and FM
- FM sensitivity 6µV (for S/B 26 dB at 93 MHz).

- Automatic search at 3 sensitivity levels
- Autostore search at 3 sensitivity levels (search from the bottom of the waveband)

- I.A.C. system FM interference suppression.
- S.D.S. system Automatic changeover to mono when the signal received by the aerial weakens.

- S.D.R. system Treble frequency cut-off in weak FM ranges.
- M.D.S. system Automatic operation of SDS and SDR circuits if there is multipath distortion.

- M.D.R. system Automatic operation of SDS and SDR circuits if there is multipath distortion.

2. "Autoreverse" cassette player

- Soft keys - satellite - Autoreverse
- Tape head "Hard PERMALLOY"
- Tape speed 4.76 cm/s
- Wow and flutter 0.35 % WRMS
- Signal/noise ratio > 43 dB
- Stereo separation > 24 dB

3. Low frequency amplifier

- Output (4 Ω : 14,4 V) 4 x 6 W ± 1 dB for D ≤ 10 %
- Frequency response 30 Hz to 15 kHz
- Digital balance Right/Left
- Digital mixer Front/Rear
- Bass correction + 14 dB at 60 kHz
- Treble correction ± 12 dB at 10 kHz

CUSTOMER COMPLAINTS

- 1 - Ignition switched off, the **On/Off** button does not illuminate when the button is pressed or does not illuminate when the ignition key is in the "accessories " position.
- 2 - After pressing the **On/Off** button, the button is illuminated but the display is not (without the side lights switched on).
- 3 - The display illuminates and continues to show the message "**Cod**".
- 4 - The display illuminates, briefly shows the message "**Cod**" then shows four zeros with the first figure flashing.
- 5 - When switching on the set using the **On/Off** button the display illuminates, displays a frequency, but there is no reception.
- 6 - Everything is operational before the vehicle lights are switched on but as soon as they are switched on the radio remote display is extinguished.
- 7 - The keys on the audio unit do not illuminate when the side lights are switched on (only the **On/Off** button is illuminated).

With the ignition off, the On/Off button does not illuminate when pressed
or
With the ignition key in the "accessories", position the On/Off button does not illuminate.

Check :

- the two 15 Amp fuses located on the passenger compartment fuse board (see M.R. 312) Change the fuses, if necessary.
- the audio unit feed :
 - . earth
 - . + permanent
 - . + after ignition

If the button still does not illuminate, check to see whether there is an earth on one of the lines 1, 2 or 3 on the connecting wire between the audio unit connector D and the green connector for the display (see previous section on "Connections").

correct

incorrect

Repair or replace the connecting wire between the display and the audio unit.

If the button still does not illuminate, follow the repair procedure shown on the fault-finding card.

After pressing the **On/Off** button the button illuminates but the display is not illuminated (side lights switched off).
The radio is operational.

Check that the display is compatible with the audio unit.

Check the condition of the display bulb.

incorrect

Change the bulb.

correct

Check the connection of the connector **D** at the back of the audio unit and the condition of the connections (see section on "**Connections**").

incorrect

Repair.

correct

Check the connection of the green connector at the back of the display and check the condition of the connections.

incorrect

Repair.

correct

Check continuity of the lines :
- between the green connector for the display and the audio unit connector **D**, (see section on "**Connections**").

incorrect

Repair, or replace the connecting wire between the display and the audio unit

correct

Change the display.

After pressing the "On/Off" button the display and the button illuminate but no segment appears (no messages).
The audio unit is operational.

Check the charging level of the vehicle's battery

incorrect

Recharge the battery

correct

Check that the audio unit is compatible with the display

incorrect

Fit compatible components

correct

Check the I2C connection; check continuity of lines 1,2, and 3 between the audio unit connector D and the green connector for the display.

incorrect

Repair or replace the connecting wire between the audio unit and the display

correct

Change the display.

The display illuminates, indicates the message "Cod" briefly and then four zeros with the first figure flashing.

The display illuminates, and continues to display the message "Cod" only

An incorrect code has been entered.
Leave the set switched on and wait for 1 to 32 minutes until four zeros appear on the display with the first figure flashing.
Check the confidential code. (For example, by contacting the Customer Services Department).

Impossible to display the first figure of the code using the satellite control or impossible to validate a figure using one of the keys on the satellite control
(See section on "Procedure for entering the Code").

Check the connection of the red connector at the back of the display and check the condition of the connections.

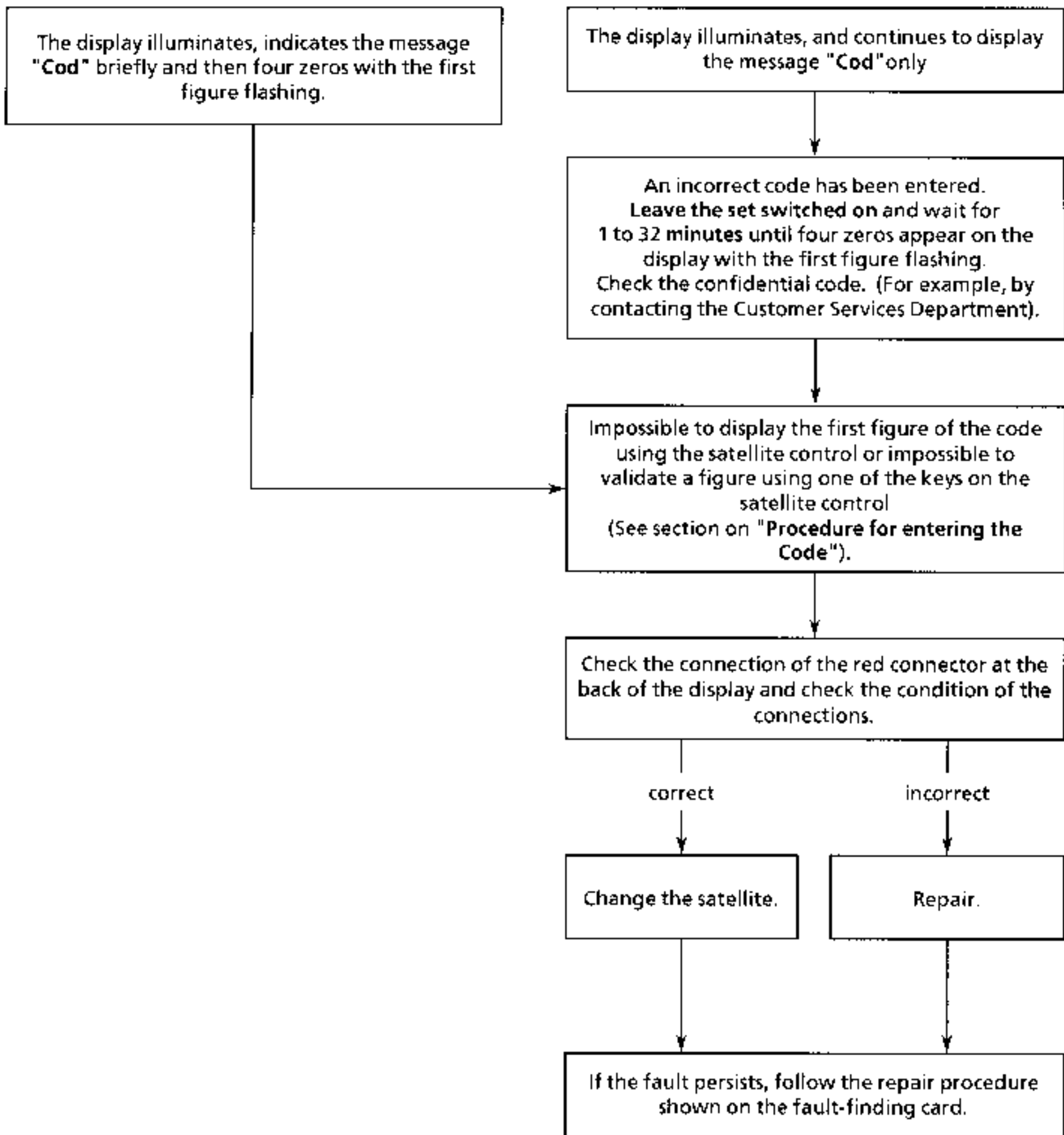
correct

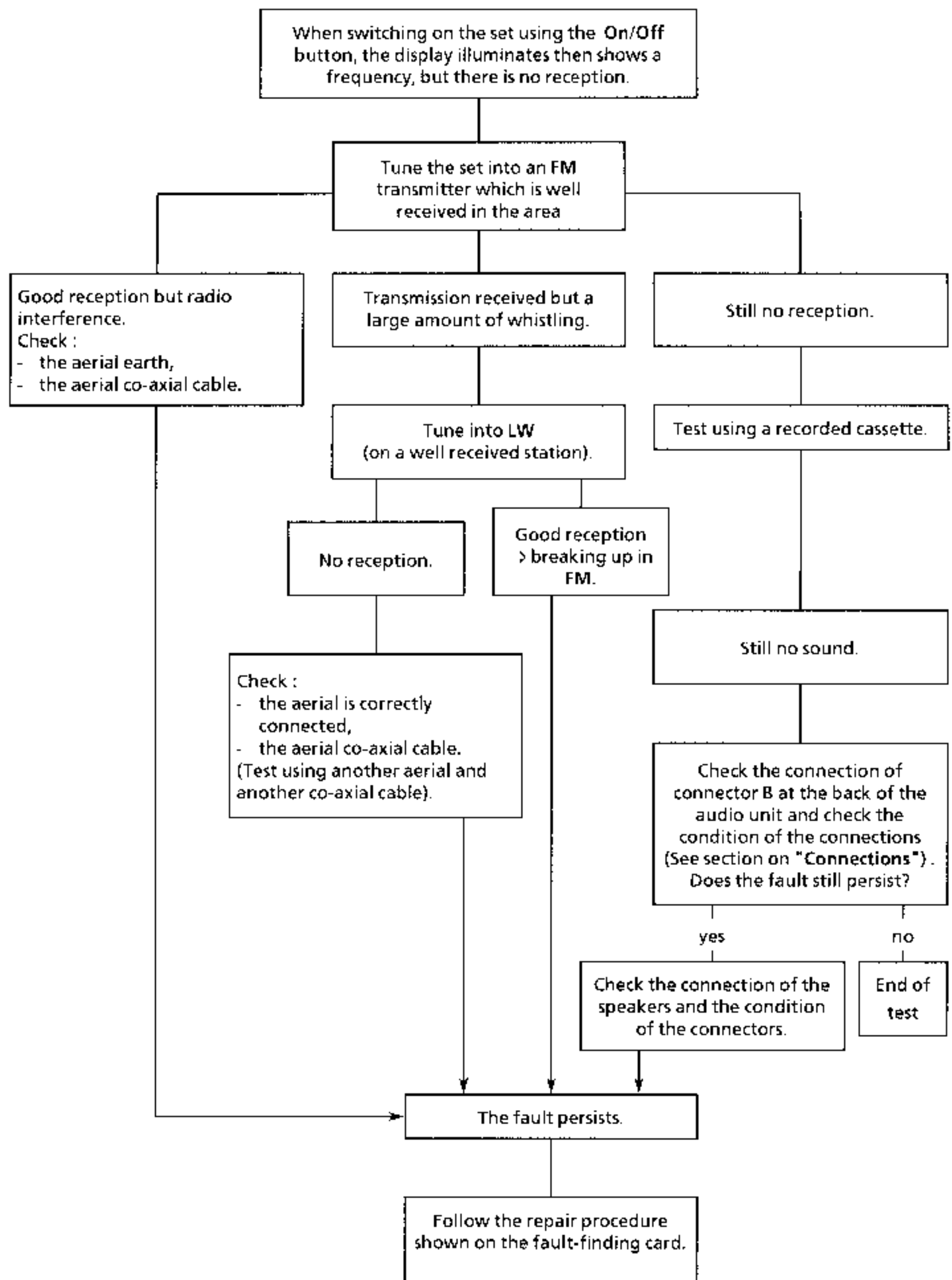
incorrect

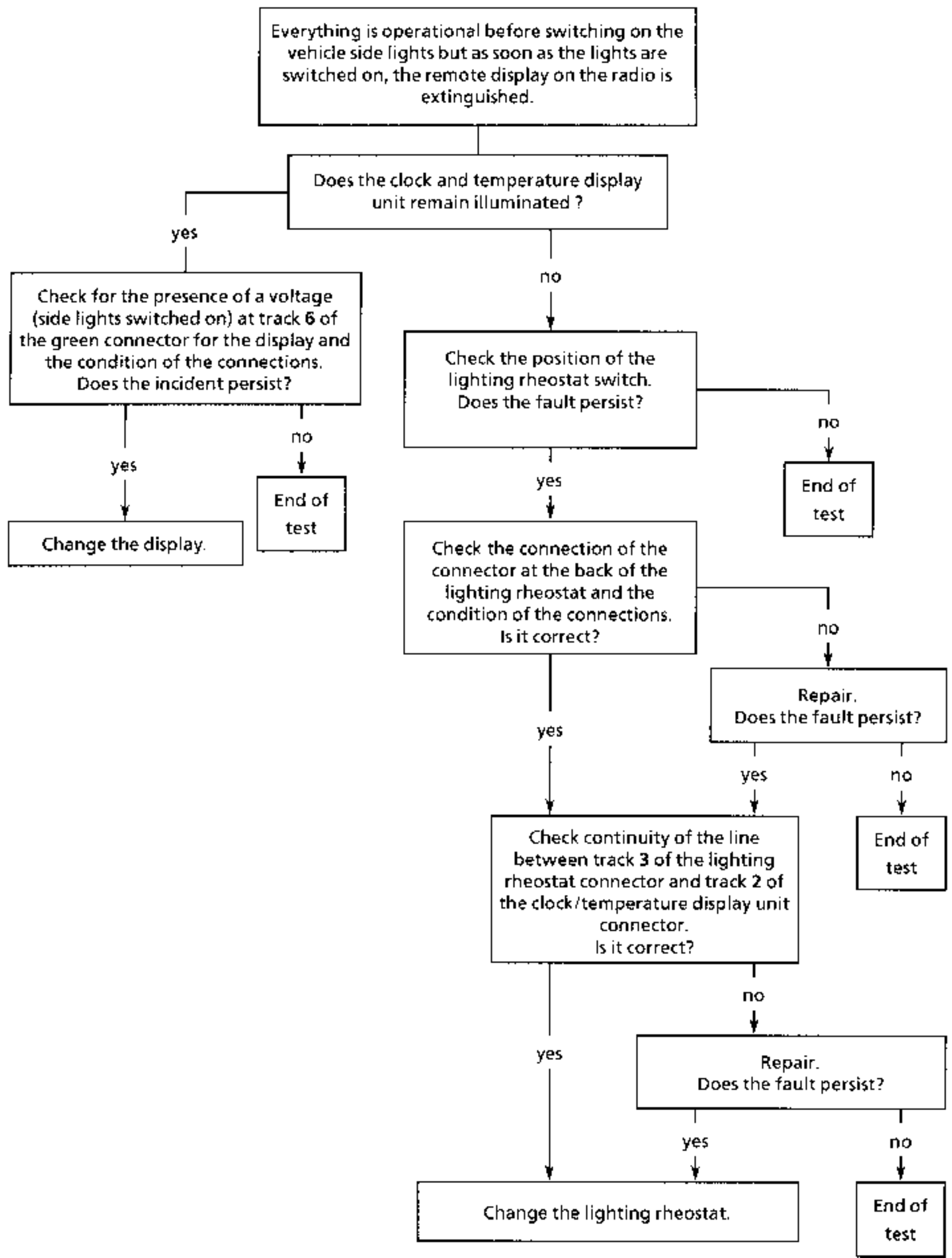
Change the satellite.

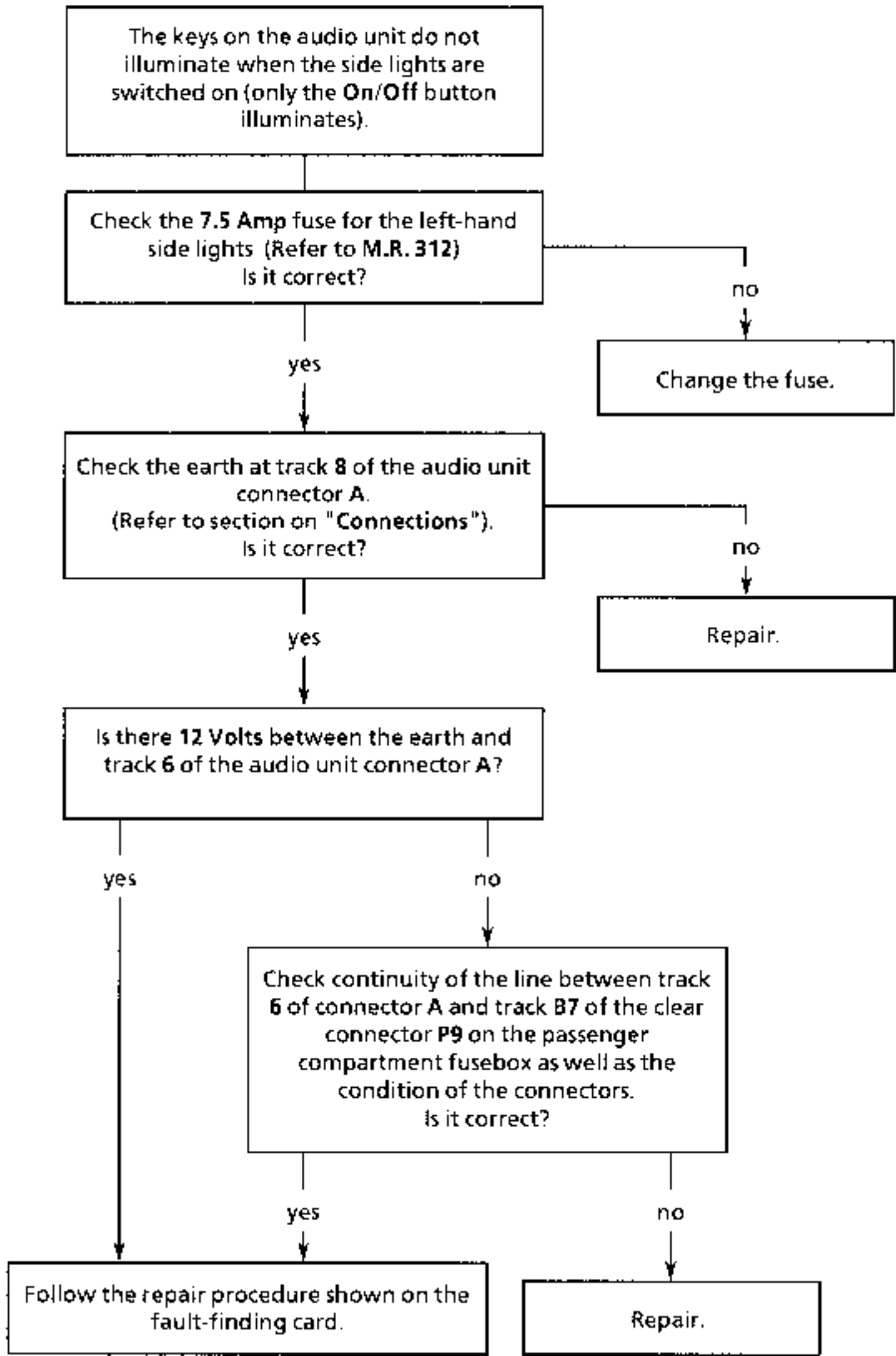
Repair.

If the fault persists, follow the repair procedure shown on the fault-finding card.










**THIS SHEET MUST BE ATTACHED TO THE RADIO SET
MANDATORY FOR APPLICATION OF THE WARRANTY**

FAULT-FINDING SHEET : RADIO – DISPLAY – CD PLAYER

DEALER : TEL : FAX :
 ADDRESS :
 CONTACT NAME :
 FULL PARTS DESTINATION CODE N° : Date : .. / .. / ..
 VEHICLE : Type Fabrication N° () Delivery date : .. / .. / ..
 RADIO : Make : Manufacturer Code (*) or Type (*) :
 CODE : Serial N° (*) :
 WARRANTY : YES/ NO (Only answer YES if it is contractual warranty)

CUSTOMER COMPLAINT :

WORKSHOP DIAGNOSIS

GENERAL ☐ Does not switch on ☐ No sound or weak sound
☐ Security code rejected (have you checked the code through Customer Services Department?)

MEGANE : The security code can only be entered by using the satellite control

RADIO ☐ Poor reception in : ☐ FM ☐ FM RDS ☐ LW ☐ MW
☐ Interference : ☐ FM ☐ FM RDS ☐ LW ☐ MW ☐ Engine ☐ Running ☐ Stopped

Specify circumstances :

☐ Key : not working

CASSETTE ☐ Insertion ☐ Ejection difficult or impossible

☐ Poor sound

☐ Damages the tape

☐ Auto-reverse broken

☐ Poor tape winding (wow)

☐ Key : not working

C.D. ☐ Insertion ☐ Ejection difficult or impossible

☐ No sound

☐ Key : not working

AMPLI. ☐ Balance not working ☐ Front/Rear ☐ Left/Right
☐ Speaker not working ☐ Front Left ☐ Front Right
☐ Equaliser not working ☐ Rear Left ☐ Rear Right
☐ Loudness ☐ Bass ☐ Treble
(Check socket switch!)

DISPLAY ☐ Does not illuminate ☐ Display fault ☐ Clock / Temperature

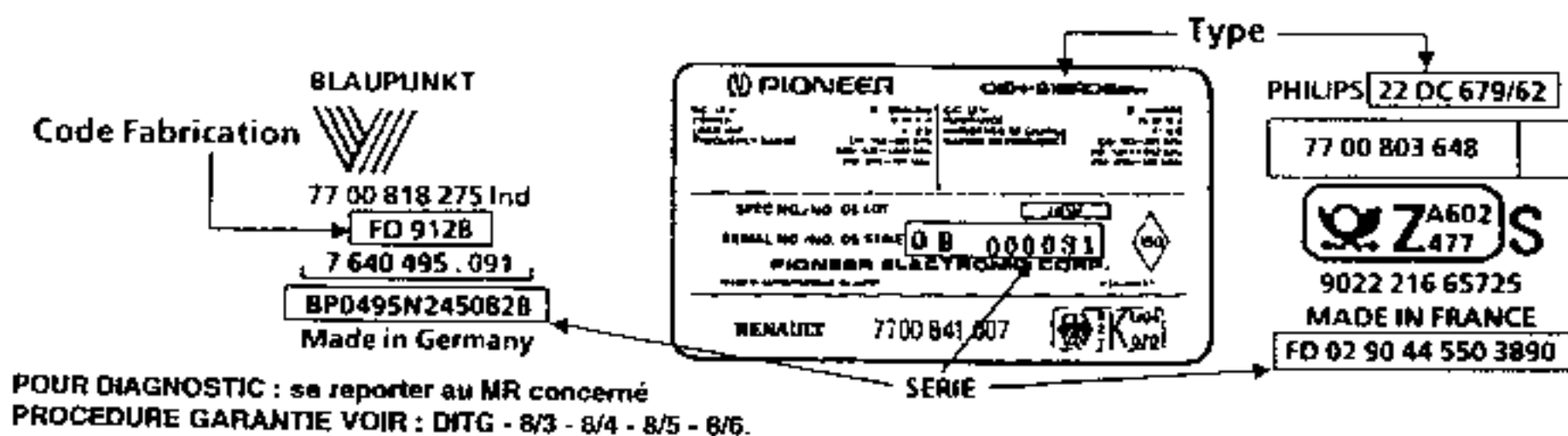
SATELLITE ☐ No satellite operation. Does the set work with satellite disconnected? ☐ Yes ☐ No

DETAIL ANY OTHER FAULTS :

(*) Look for type and serial n°

STAMP

IDENTIFICATION



PRMB602