RENAULT

Technical Note 3729A

Vehicle	Type
Clio II	XB0X
Mégane	XAXX
Scénic	JAXX
Laguna	XG0X
Avantime	DE0X
Trafic	XLXX
Mégane II	XMXX
Scénic II	JMXX
Vel Satis	BJ0X
Espace IV	JK0X

Navigation Assistance

CARMINAT and INFO TRAFIC

"High-end"

This note cancels and replaces Technical Note 3543A

Contents

Page

83C ON BOARD TELEMATIC SYSTEM

WARNING
With this type of navigation system, it is absolutely essential to wait for the system to shut down completely (approximately **1 minute**) before disconnecting the battery.

The **CARMINAT** system comprises a screen and a voice synthesiser to provide guidance for the driver.

This system can:

● find a specific location, such as:
  – a road, street or avenue,
  – a hotel,
  – public services,
  – a garage or petrol station.
  – etc.

● select guidance modes in order to:
  – optimise journey time,
  – select the shortest distance,
  – plan a route travelling on main roads,
  – or take the scenic route,
  – avoid tolls.

  Each mode is symbolised by a different icon that appears on the state line on the lower part of the screen.

● store addresses in the address book.

● display road maps of:
  – the present location,
  – or the destination,

● display trip or arrival time (see **Screen**).

● receive written or spoken messages from the **traffic information** system.

Note:
For information on operating the system and descriptions of the various menus, see the system user's manual.

The Carminat system uses the **Vehicle speed** signal provided by the ABS computer to calculate the distance travelled along with the **Reversing** signal.

A special multiplex network for the **"Carminat"** function connects the navigation computer, Central Communications Unit and screen, Central Display Unit and radio (depending on the vehicle's equipment).

This system uses the following to function:
– a Central Communication Unit (UCC),
– a keyboard (integrated/not integrated into the Central Communication Unit),
– an electronic navigation computer comprising acceleration sensors (gyroscope) and the navigation CD-ROM reader,
– a satellite link (satellite aerial) allowing the vehicle to be located,
– a screen to display written data and maps,
– a speaker for giving voice instructions,
– a CD ROM with the maps of the country the vehicle is delivered to,
– an FM aerial for traffic information messages.
– a Central Display Unit (Mégane II).

NOTE:

● If the vehicle ignition was switched off, it may take the navigation system a few minutes to determine its exact position (see the **Relocation**) section.
● If the vehicle battery has been disconnected, the system may need up to **20 minutes** to calculate its exact location. The vehicle must therefore be outdoors (with the system running) to pick up the satellite signals with the satellite aerial.
● The system can also operate without valid satellite data. Under these circumstances, there may be a loss of precision in pinpointing exact locations.
● Once the exact position has been located by the satellite system, the on-screen satellite symbol turns from red to green.
● When travelling on the motorway, the distance data provided by the system to indicate exits will differ from the information on the signs. This is because motorway signs calculate distance from the start of the motorway exit, while the CARMINAT system calculates from the end of the exit.

BASIC PRINCIPLES OF THE TRAFFIC INFORMATION SERVICE

In conjunction with navigation, the system uses information on traffic conditions: **TMC: Trafic Message Channel**.

The system uses:
– the navigation computer which receives, locates and recognises the information received,
– the TMC locators on the cartographic CD-ROM,
– the information collected and disseminated (by public authorities) in RDS - TMC format (communications protocol).

IMPORTANT
RENAULT is not responsible for the information collection and dissemination services in Europe, which are still in development.

```
16:07
25°C
+16:14    ⊕ ⊙ ⚫    TMC
                              20990
```
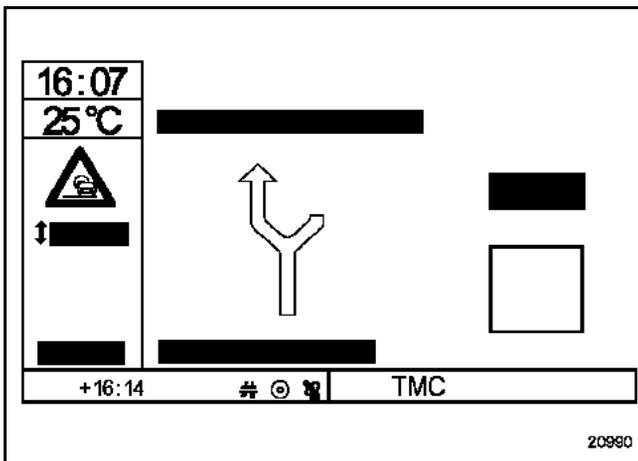
Note:
To work, the Navigation CD-ROM software version must be higher than 2000-1.

Traffic information terminal processing reminder:

TMC pictogram display logic:
⇒ **red** = no traffic information available in this geographic area or poor reception,
⇒ **black** = no traffic information locators on the CD-ROM,
⇒ **green** = the system is locked onto a frequency that can supply traffic information.

The term **TMC** is replaced by the name of the service operator that the system has locked onto (if the operator uses a name).

The system can display in either text or pictogram form. It suggests a detour if a fault is located on the proposed itinerary.

● The level of disruption is indicated by a "**&Delta**" pictogram.
⇒ **green** = disruption with detour,
⇒ **rouge** = disruption without a detour,
⇒ **red (full)** = very serious disruption within a **31-mile (50-km)** radius.

EXAMPLES OF TRAFFIC INFORMATION PICTOGRAMS
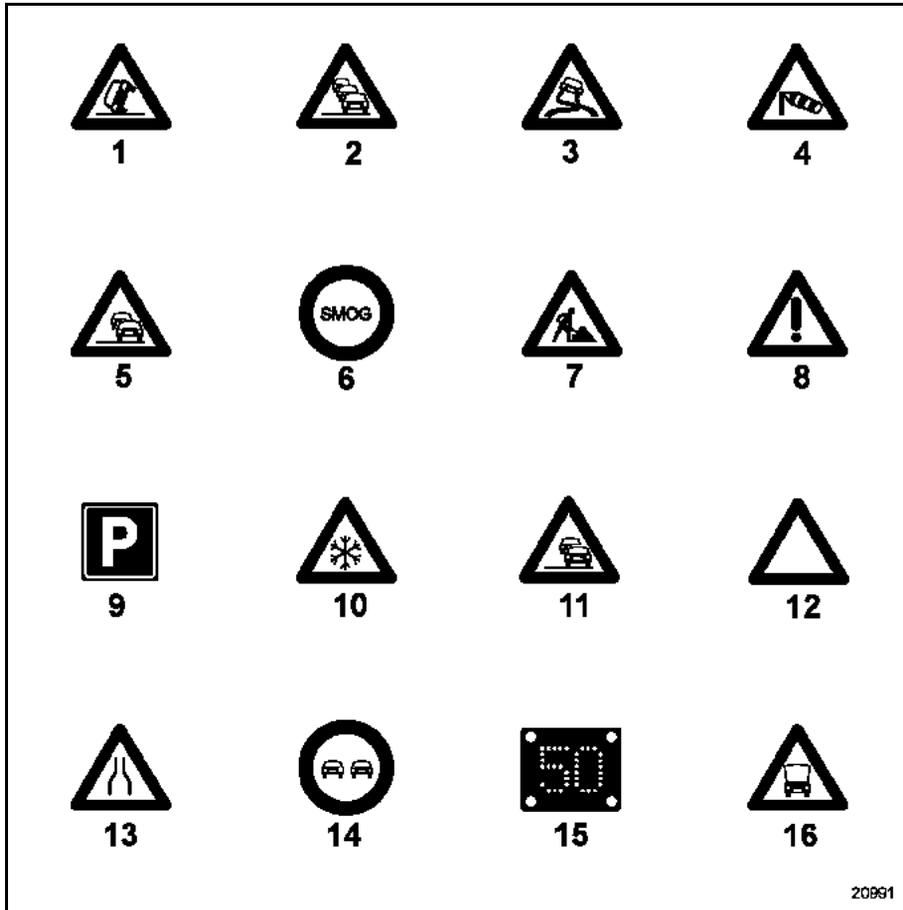
1 Accident
2 Traffic jam
3 Slippery conditions
4 Strong winds
5 Slow traffic
6 Fog
7 Road works
8 Danger
9 Parking possible
10 Bad weather
11 Slow traffic
12 Traffic problems in both directions
13 Road partially closed or narrowed
14 Vehicle travelling in the opposite direction
15 Restricted speed
16 Vehicle breakdown

ON-BOARD TELEMATICS SYSTEM
Operating principle

	Map CD-ROM that covers the country	"Spring/summer 2002" version (2002-B)	"Fall 2002/Winter 2003" version (2003-A)	"Spring/summer 2003" version (2003-B)	TMC locator table finding software version [2]
France	France [1]	yes	yes	yes	2000-1
Germany	Deutschland [1]	yes (100%)	yes (100%)	yes (100%)	1999-1
Great Britain	UK/Irish Republic	yes (100%)	yes (100%)	yes (100%)	Not applicable
Ireland	UK/Irish Republic	start	yes	yes	Not applicable
SWITZERLAND	Switzerland/ Osterreich	yes	yes (100%)	yes	2001-a
Austria	Switzerland/ Osterreich	yes	yes	yes (100%)	Fall/Winter 2001
Holland	Benelux	yes (100%)	yes (100%)	yes (100%)	1999-1
Spain	Espana/Portugal	yes	yes	yes	Fall/Winter 2001
Italy	Italy [1]	yes	yes	yes	2000-1
Belgium	Benelux	yes	yes	yes (100%)	1999-1
Luxembourg	Benelux	yes	yes	yes (100%)	Not applicable
Portugal	Espana/Portugal	yes	yes	yes	Not applicable
Sweden	Sweden/ Denmark	yes	yes	yes (100%)	Spring/Summer 2002
Denmark	Sweden/ Denmark	yes	yes	yes (100%)	Spring/Summer 2002
Finland	Scandinavia	no	no	start (Helsinki, Tampere)	Not applicable
Norway	Scandinavia	no	no	Akershus and ∅stfold	Not applicable
Czech Republic	Switzerland/ Osterreich	no	start (Prague + main roads)	2003-A + (Brno, Plzen, Ostrava, Karlovy Vary)	Not applicable
Slovakia	Switzerland/ Osterreich	no	no	start (Bratislava and main roads)	Not applicable
Poland	---	no	no	no	Not applicable
Hungary	---	no	no	no	Not applicable

[1]   The France/Germany/Italy border zones are available on the "Switzerland/Osterreich" CD-ROM.
[2]   The TMC locator tables enable drivers to receive traffic information if it is broadcast in the country concerned (more specifically, they enable the broadcast events to be located on the map).

DIAGRAM

1 Central Communications Unit
2 Keyboard
3 Carminat computer (CD-ROM reader)
4 Screen
5 Seat belt information (for display)
6 External temperature information (for display)
7 Radio
8 Voice synthesiser speaker
9 Steering wheel radio control
10 Radio aerial
11 Radio connection (mute)
12 Vehicle's multiplex connection
13 Satellite aerial
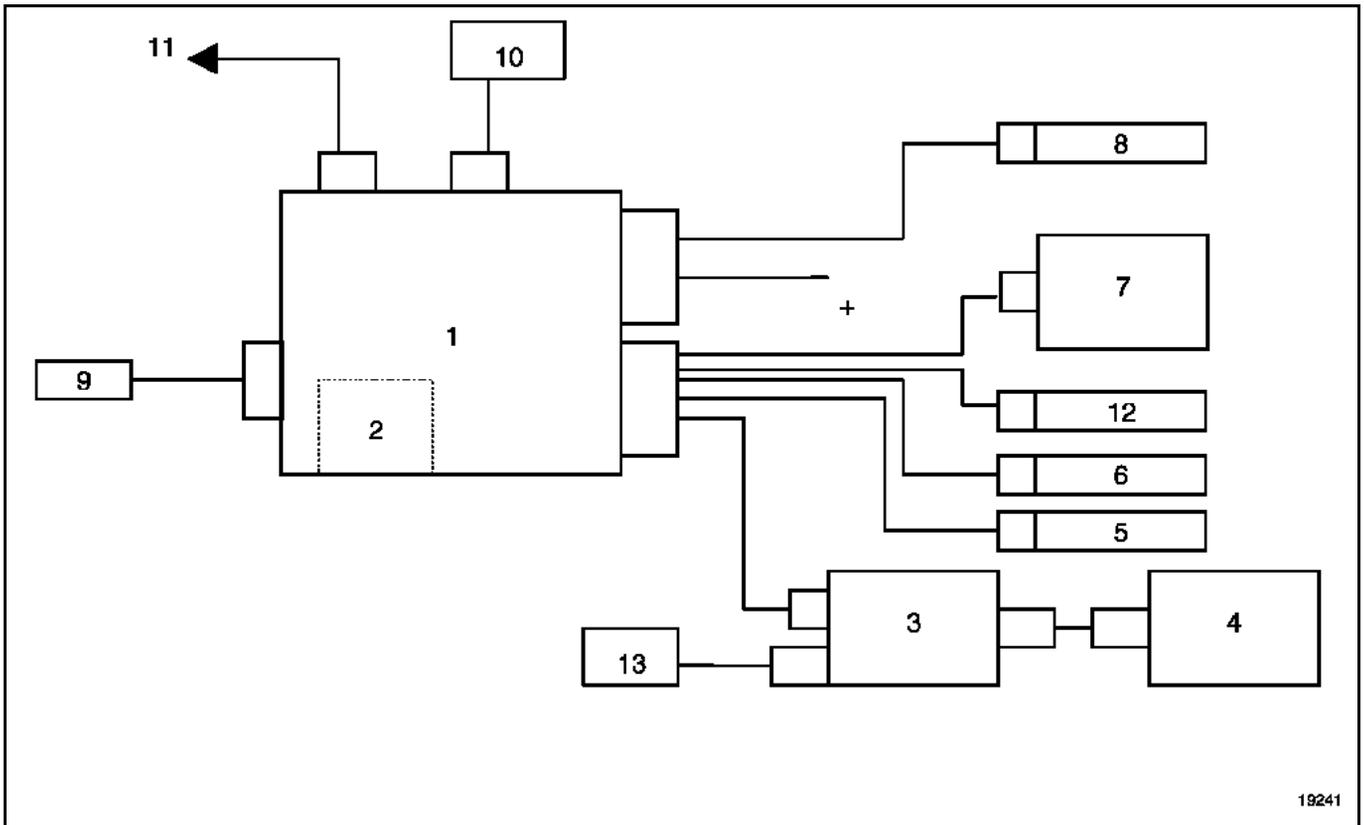
19241

> **WARNING**
> When replacing a navigation system component, it is essential to check that the software is compatible with the navigation CD-ROM reader, the Central Communications Unit, and the languages CD-ROM.

System software version	Central Communications Unit version read from menus	Navigation CD-ROM reader version read from menus	Languages CD-ROM	Application	Notes on Changes
2 "A" SECOND LABEL	2.4	nav: 0182 csb: 1.80 or 1.82	2.5 [1]	03/2001	-
2 TER [2]		nav: 0196 csb: 1.80 or 1.82	2.5 [1]	01/2003	● new traffic information messages
3	3.63	nav: 0304 csb: 3.00	3.0 [1]	01/2002	● alternative route suggestion ● new rotary knob functions
3 "A" SECOND LABEL	3.67	nav: 0350 csb: 3.00 or 3.01	3.5 [1]	-	-
3 TER	-	never used	-	-	-
3 QUATTRO [2]	3.67	nav: 0376 csb: 3.00 or 3.01	All versions CD-ROM	01/2003	● new traffic information messages
4	4.51	nav: 0434 csb: 4.31 or 4.32	4.0 [1]	10/2002	● screen watch
4 BIS [2]	4.60	nav: 0457 csb: 4.31 or 4.32	All versions CD-ROM	02/2003	● new traffic information messages
4 TER	-	-	-	04/2003	● restricted access

[1] **"NAV5 Languages All Versions CD"** compatible.
[2] Software upgrade using the **"NAV5 Languages All Versions CD"**.

Depending on the vehicle, the Central
Communications Unit may have a keyboard.

18459

21115
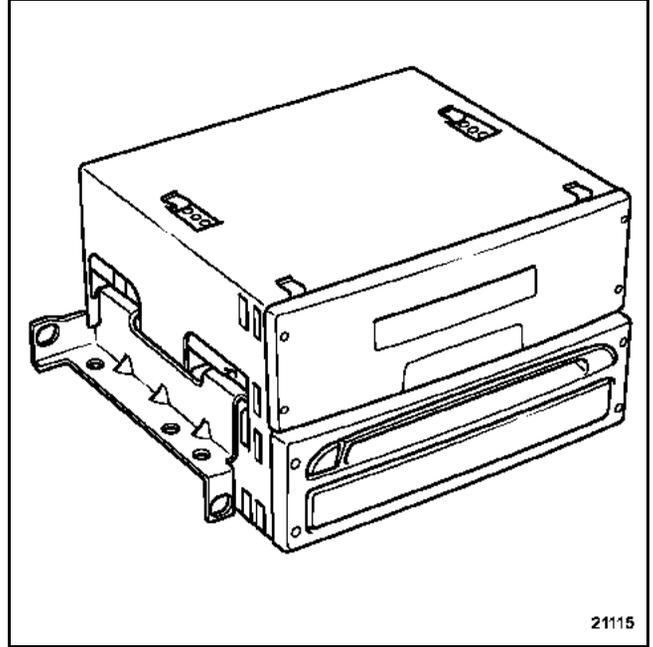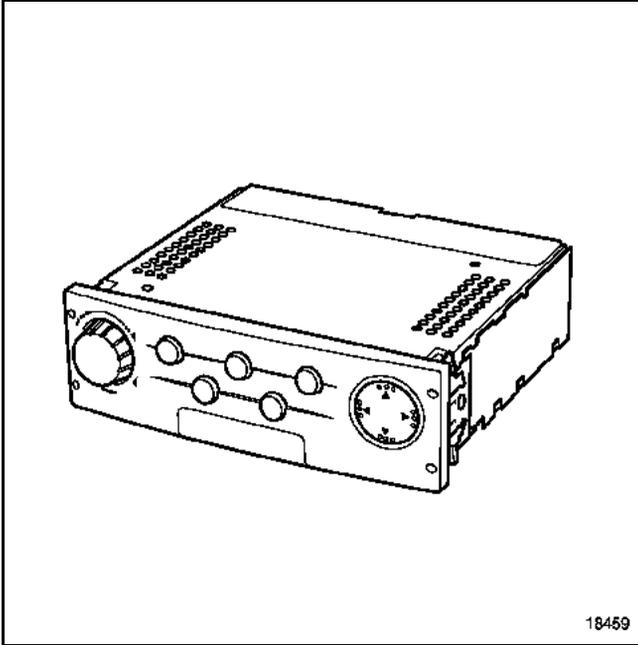
The Central Communication Unit can:
● adjust the clock,
● act as a go-between for the vehicle's multiplex
  network and the Carminat system network,
● use multiplex data (depending on the vehicle),
● select commands with the radio knob or keyboard
  (depending on the vehicle equipment),
● control braking conditions, and the vehicle and
  system configurations,
● control the screen display (with the navigation
  CD-ROM reader),
● receive written or spoken messages from the **traffic
  information** system (via the aerial)
● manage voice synthesiser and navigation
  messages,
● transfer data from the radio for display.

CONNECTIONS

18457
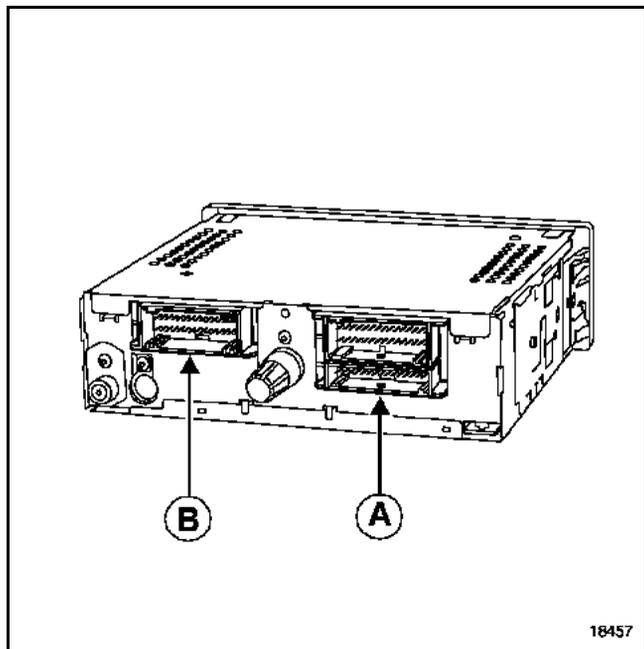
15-track connector (A) (red):

Track	Description
1	Not used
2	Not used
3	Not used
4	Not used
5	Not used
6	Not used
7	Not used
8	Not used
9	Radio control satellite
10	Radio control satellite
11	Radio control satellite
12	Radio control satellite
13	Radio control satellite
14	Radio control satellite
15	Not used

30-track connector (B) (grey):

Track	Description
1	Not used
2	Aerial amplifier output
3	Multiplex connection (multimedia)
4	Multiplex connection (multimedia)
5	Multiplex connection (multimedia)
6	Multiplex connection (multimedia)
7	Computer on-off output
8	Computer audio link
9	Computer audio link
10	Not used
11	Not used
12	Not used
13	Not used
14	Not used
15	Not used
16	Exterior temperature signal (input)
17	Exterior temperature signal (input)
18	Not used
19	Vehicle speed input (except multiplex vehicle)
20	Reverse gear input (except multiplex vehicle)
21	External temperature output
22	Not used
23	Not used
24	Seat belt warning light
25	+ Lighting
26	Radio display (low-end)
27	Radio ON/OFF
28	Radio display (low-end)
29	Radio display (low-end)
30	Radio display (low-end)

16457
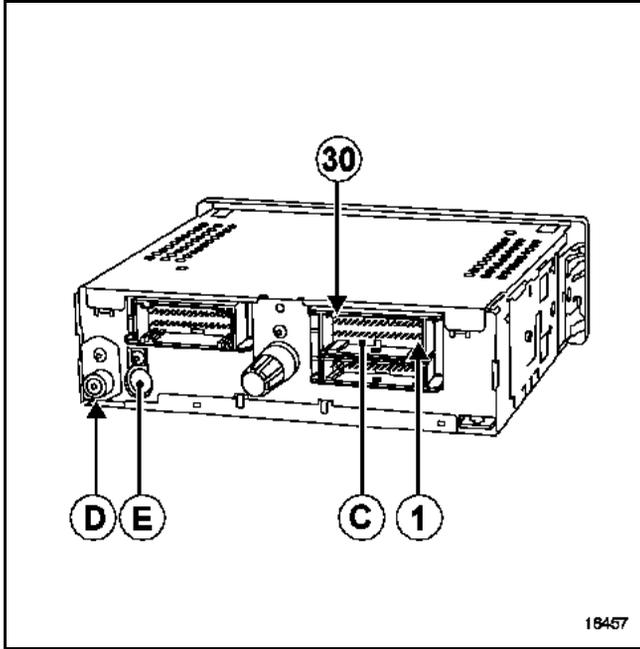
(D) and (E): radio aerial input and output

12-track connector (keyboard removed):

Track	Description
1	Left rotary knob
2	+ Lighting
3	Push-button
4	Push-button
5	Keyboard earth
6	Confirmation switch
7	Right rotary knob
8	+ rotary knob
9	Rotary knob earth
10	Keyboard earth
11	Push-button
12	Push-button

30-track connector C (green):

Track	Description
1	Not used
2	Not used
3	Not used
4	Not used
5	Not used
6	Multiplex connection (vehicle)
7	Multiplex connection (vehicle)
8	Not used
9	+ accessories
10	+ before ignition
11	Radio mute control
12	Earth
13	+ After ignition (except multiplexed vehicle)
14	Voice synthesiser computer
15	Voice synthesiser computer
16	Not used
17	Not used
18	Not used
19	Not used
20	Not used
21	Not used
22	Speaker output
23	Speaker output
24	Not used
25	Not used
26	Not used
27	Not used
28	Not used
29	Not used
30	Not used

REMOVAL

The Central Communication Unit is located underneath the front right-hand seat.

> **WARNING**
> Wait until the system has shut down completely (**1 minute**) before disconnecting the battery.

> Note:
> It is not necessary to remove the seat.

Move the seat as far back as possible.

Remove the rear mounting bolt on the support and raise the rear section.

21110
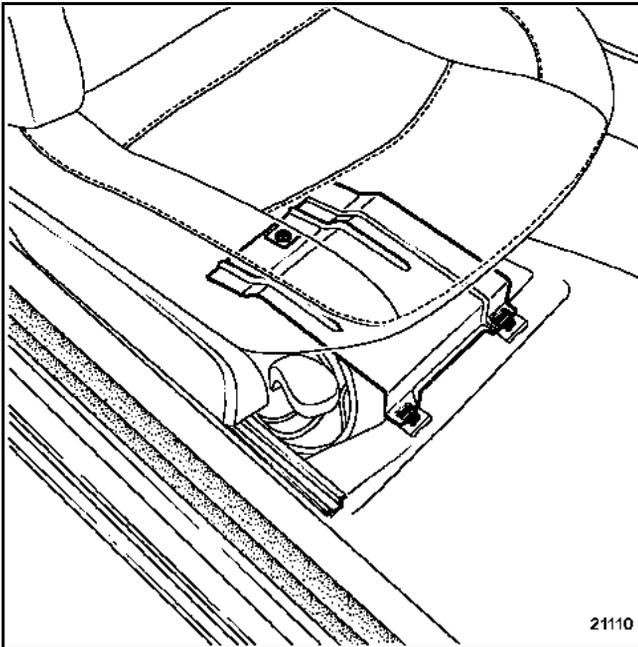
Disconnect the connectors and remove the assembly.

Remove the Central Communications Unit using the radio removal tools (Ms. 1373).

21112
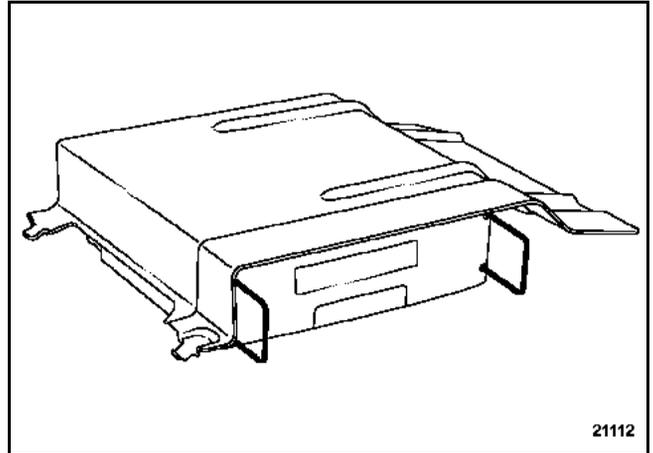
REFITTING

Position the Central Communications Unit in its mounting.

Connect the connectors.

Insert the front mounting guides into their housings.

Position the mounting and the mounting bolts.

Initialise the system (refer to the **Initialisation** section).

MEGANE - SCENIC - SCENIC II

REMOVAL

> **WARNING**
> Wait until the system has shut down completely (**1 minute**) before disconnecting the battery.

The Central Communication Unit is located in the luggage compartment, above the CD ROM reader, behind the cover.

Special notes on the Mégane

Remove the cover mounting bolts (**1**).

Remove the cover.
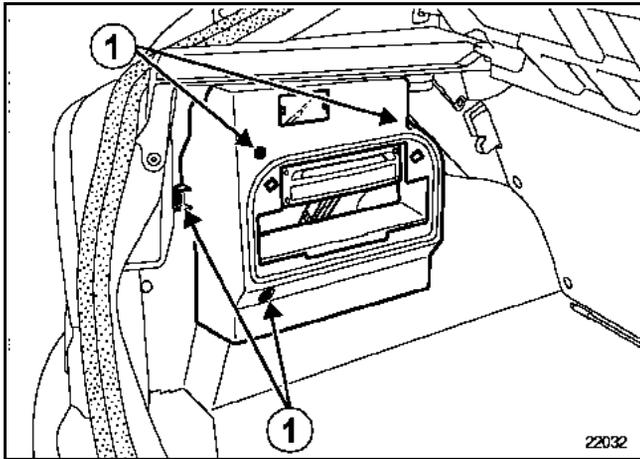
Remove the Central Communications Unit using the radio removal tools (Ms. 1373).
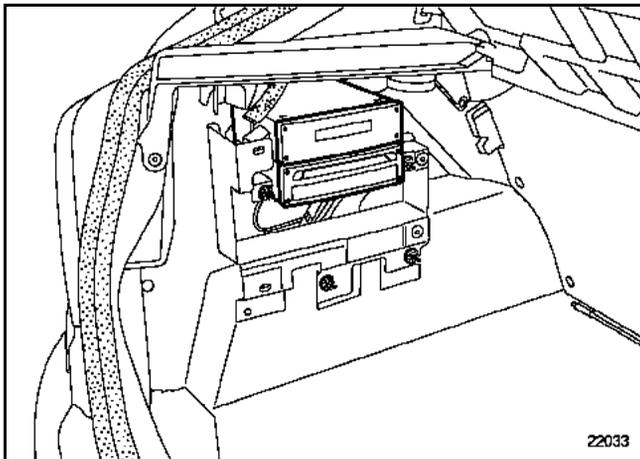
Special notes on the Scénic and Scénic II

The Central Communication Unit is located underneath the front right-hand seat.
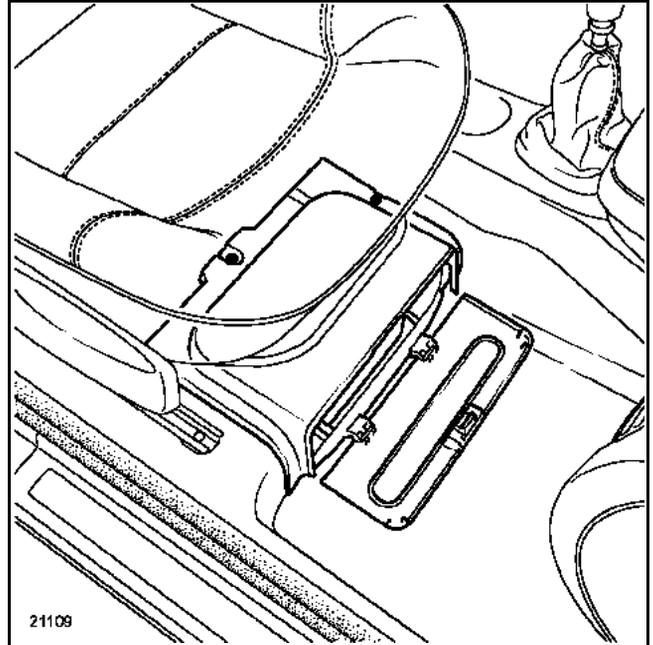
> Note:
> It is not necessary to remove the seat.
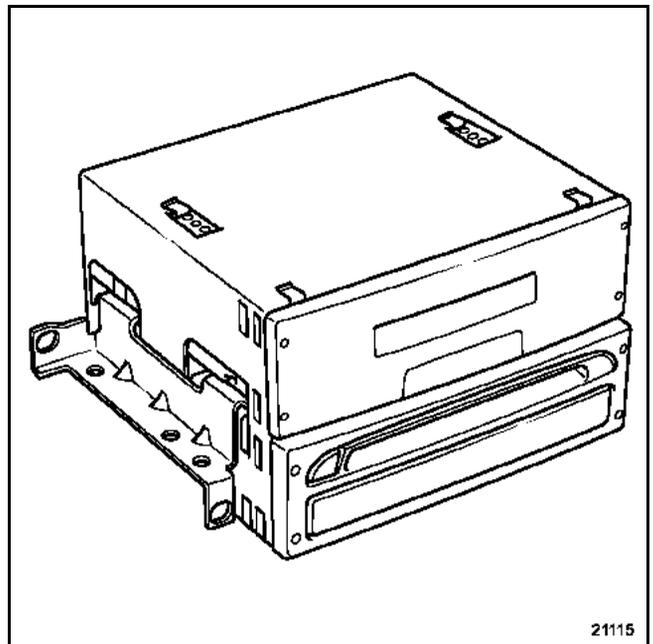
REFITTING

Initialise the system (refer to the **Initialisation** section).

REMOVAL

The Central Communications Unit is installed in the dashboard. It incorporates the keyboard.

> **WARNING**
> Wait until the system has shut down completely (**1 minute**) before disconnecting the battery.

Remove the Central Communications Unit using the radio removal tools (Ms. 1373).

101253
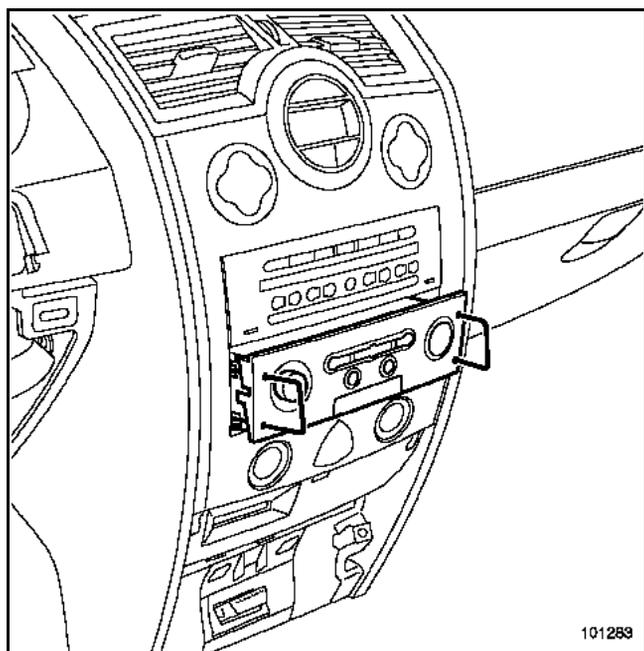
Disconnect the connectors and remove the assembly.

REFITTING

Connect the connectors.

Insert the guides into their positions.

Position the Central Communications Unit in its mounting.

Initialise the system (refer to the **Initialisation** section).

LAGUNA II - TRAFIC II - AVANTIME

REMOVAL - REFITTING

> **WARNING**
> Wait until the system has shut down completely
> (**1 minute**) before disconnecting the battery.

The Central Communication Unit is removed with the
radio removal tools (Ms. 1373).

After refitting, initialise the system (refer to the
Initialisation section).

Special notes on the Laguna II

The Central Communication Unit (**1**) is located above
the radio or CD ROM reader.
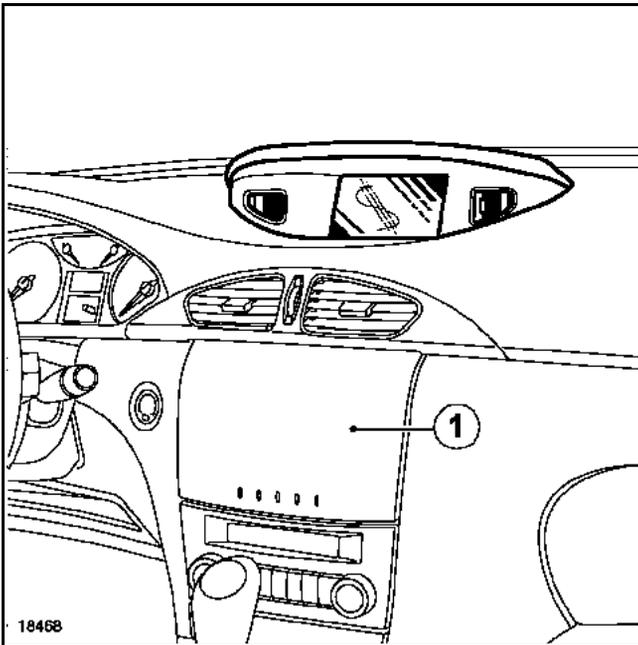
Special notes on the Trafic II

The Central Communication Unit is located above the
radio.
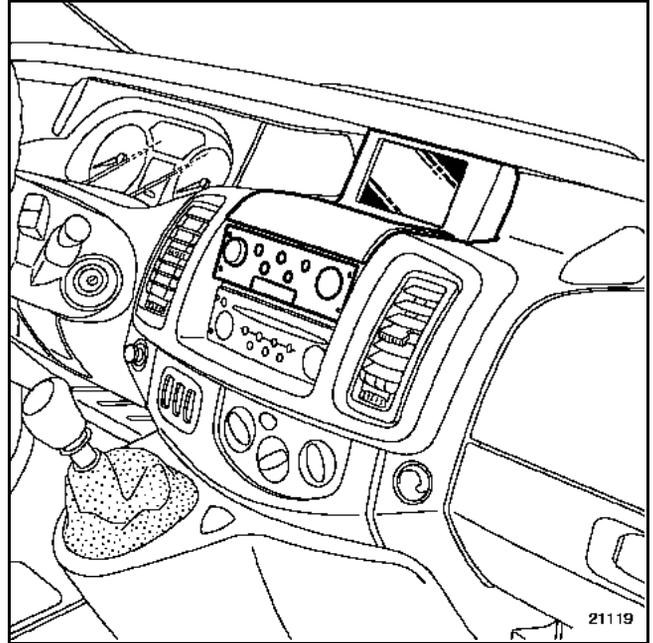
Special notes on the Avantime

The Central Communication Unit is located at the front
of the dashboard above the CD changer.
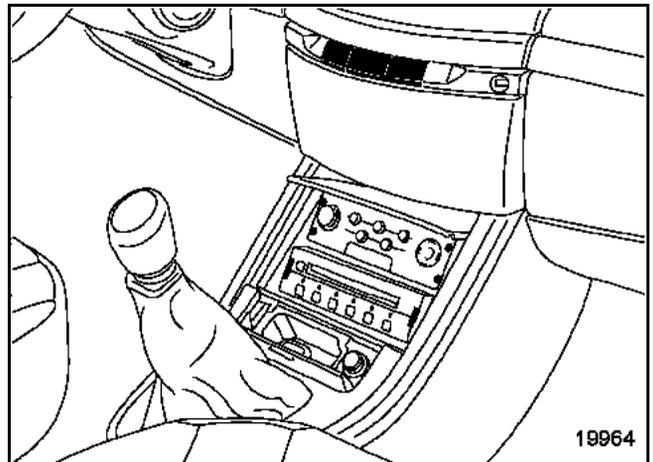
VEL SATIS

REMOVAL

The Central Communication Unit is located behind the cover, under the radio or CD changer.

> **WARNING**
> Wait until the system has shut down completely (**1 minute**) before disconnecting the battery.

Removal is carried out using tool Ms. 1373.

21834
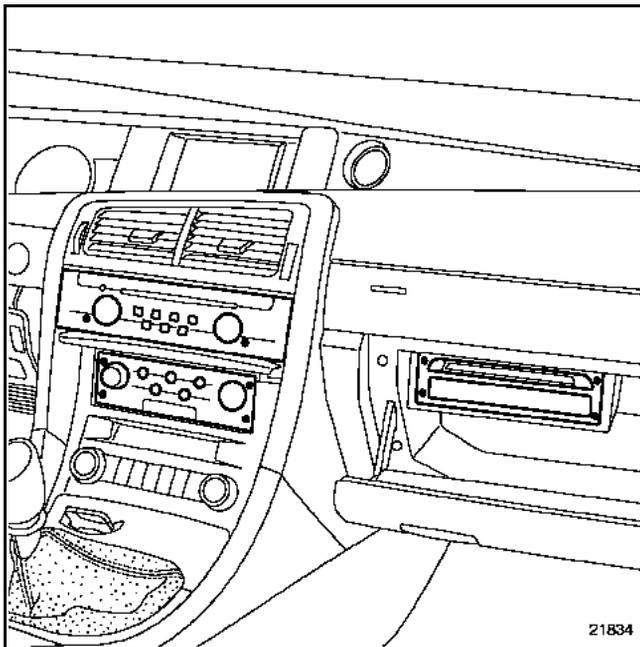
REFITTING

Initialise the system (refer to the **Initialisation** section).

REMOVAL

The Central Communications Unit is located in the front left glovebox.

Removal is carried out using tool Ms. 1373.

100800
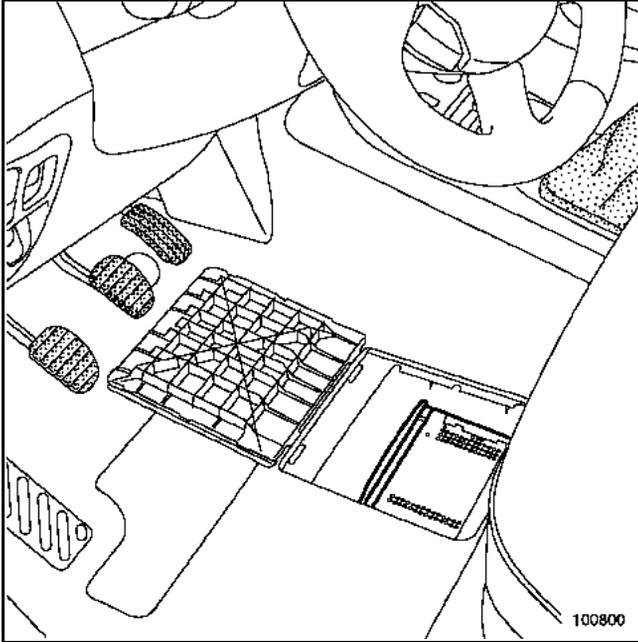
REFITTING

Initialise the system (refer to the **Initialisation** section).

The keyboard may be integrated into the Central Communication Unit or independent, depending on the vehicle.

It comprises:

● a rotary knob (**A**) for:
  – navigating the various menus,
  – confirming,
● a navigation cell (**B**) for:
  – scrolling through the menu in manual mode,
  – select options in the different menus,
● a menu button (**M**) (depending on the vehicle) for returning to the main menu,
● a button (**I**) for replaying voice messages,
● a button (**C**) for turning off voice messages,
● buttons (+) and (-) which increase and reduce the volume of audio messages.

21116

18459
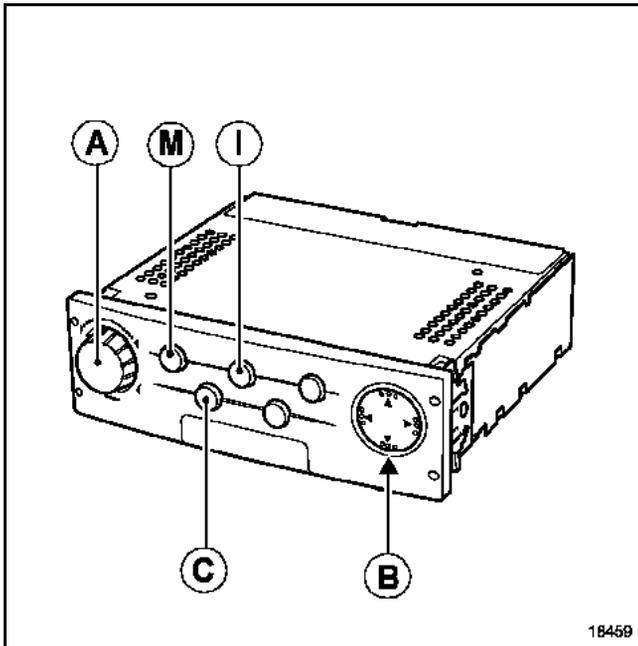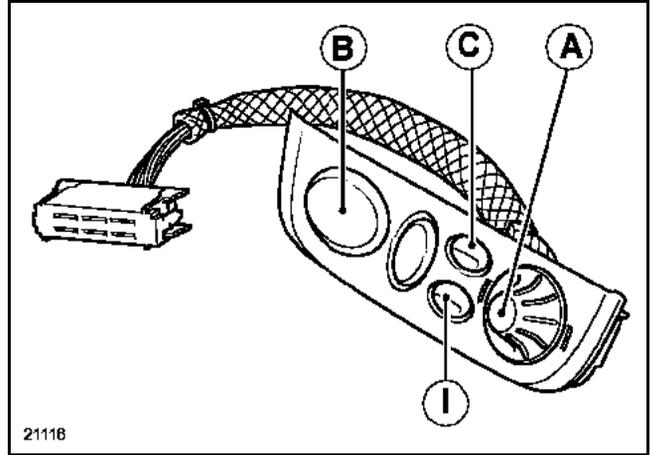
ESPACE IV - CLIO II - MEGANE - SCENIC - SCENIC II

The independent keyboard is connected to the Central Communication Unit by a special **12-track** connector.

Note:
Only the feeds and earths can be checked.

CONNECTION

Special notes on Clio II, Scénic II and Espace IV

20899
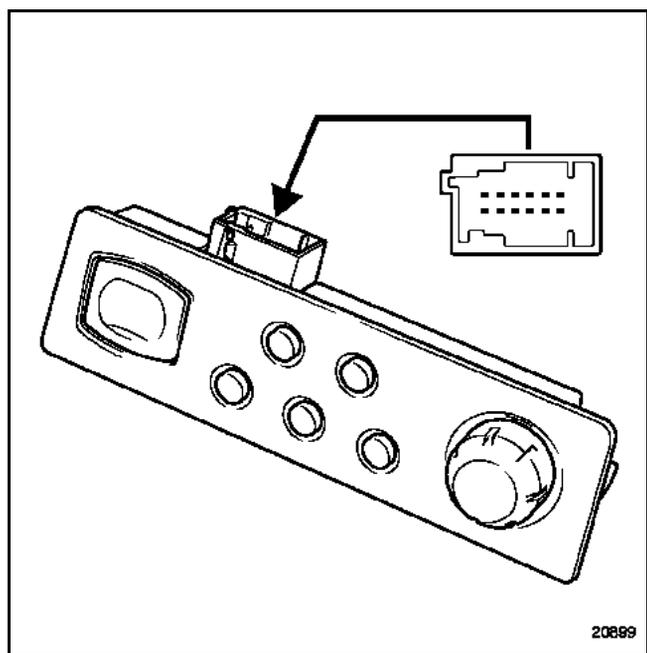
Track	Description
1	Rotary knob at left
2	+ Lighting
3	Push-button
4	Push-button
5	Keyboard earth
6	Confirmation switch
7	Rotary knob at right
8	+ rotary knob
9	Rotary knob earth
10	Keyboard earth
11	Push-button
12	Push-button

Special notes on the Mégane and Scénic

The keyboard is clipped below the screen.

It is necessary to remove the upper section of the dashboard and the screen to reach the connector.

21118
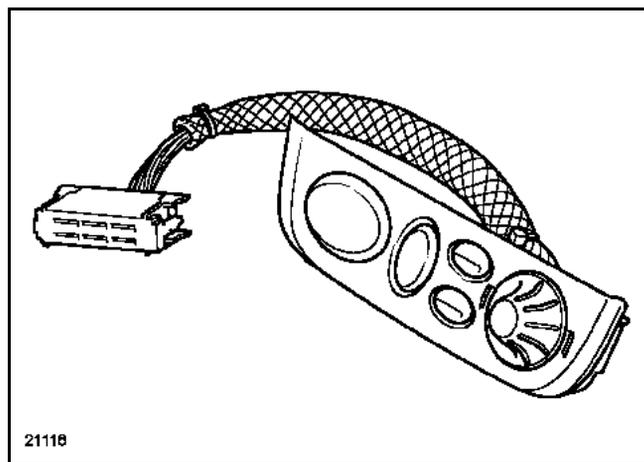
Track	Description
A1	Rotary knob
A2	Rotary knob
A3	Rotary knob
A4	Rotary knob
A5	Not used
A6	Not used
A7	Not used
A8	Keyboard keys
A9	Keyboard keys
B1	Keyboard keys
B2	Keyboard keys
B3	Keyboard lighting supply
B4	Keyboard lighting earth
B5	Not used
B6	Not used
B7	Not used
B8	Not used
B9	Not used

The navigation CD-ROM reader works by using sensors that detect vehicular motion. The car's tachometric (or ABS) sensor calculates the distance travelled while the gyroscope registers turns.

By making comparisons with the digital map (on the CD-ROM), the system corrects inaccuracies (tyre pressure and wear, temperature etc.) to pinpoint the vehicle's location.

> **IMPORTANT**
> If the battery has been disconnected or the navigation computer replaced, relocation of the vehicle is automatic (refer to the **Relocation** section).

The system will be programmed in French by default after the navigation CD-ROM reader has been replaced.
To change language, see **Language Settings**.

> **WARNING**
> When the navigation CD-ROM reader is replaced, the addresses stored in the old unit cannot be recovered.

Note:
– With the ignition off, the CD-ROM player lights up automatically when the eject button is pressed and will remain lit for about **1 minute** (if the ignition is not switched back on).
– The player lights up automatically when the ignition is turned on.
– After the ignition is turned off, it remains lit for **approximately 1 minute, during which time the battery must not be disconnected**.
– The navigation CD-ROM readers differ, depending on whether installed horizontally or vertically.

CONNECTIONS

19307
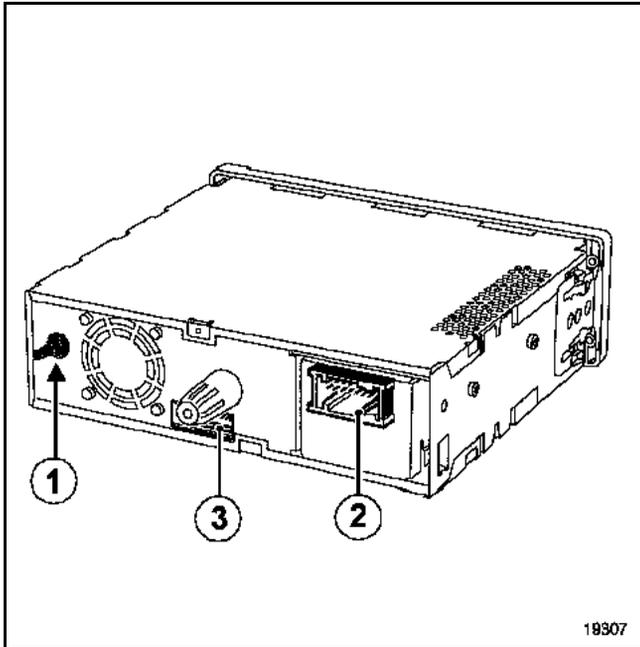
(**1**) Satellite aerial connection

18-track connector (**2**) to the vehicle:

Track	Description
1	+ Before ignition
2	Not used
3	Central Communication Unit audio link
4	Not used
5	Not used
6	Computer on-off input
7	Not used
8	Not used
9	Multiplex connection (multimedia)
10	Earth
11	Not used
12	Central Communication Unit audio link
13	Not used
14	Not used
15	Vehicle speed signal
16	Not used
17	Not used
18	Multiplex connection (multimedia)

16-track connector (**3**) to the display:

Track	Description
1	Not used
2	Earth
3	- Video signal
4	Red video signal
5	Green video signal
6	Blue video signal
7	Earth
8	Video synchronisation signal
9	Earth
10	Brightness adjustment
11	Not used
12	Screen on/off
13	Not used
14	Not used
15	+ Before ignition
16	+ Before ignition

CLIO II - TRAFIC II

REMOVAL - REFITTING

> **WARNING**
> Wait until the system has shut down completely
> (**1 minute**) before disconnecting the battery.

> **WARNING**
> The **satellite** aerial wire is very fragile. Do not bend
> or trap it.

After refitting, initialise the system (refer to the
Initialisation section).

Special notes for Clio II

The navigation CD-ROM reader is in the luggage
compartment (left side).

It is removed with the radio removal tools (Ms. 1373).
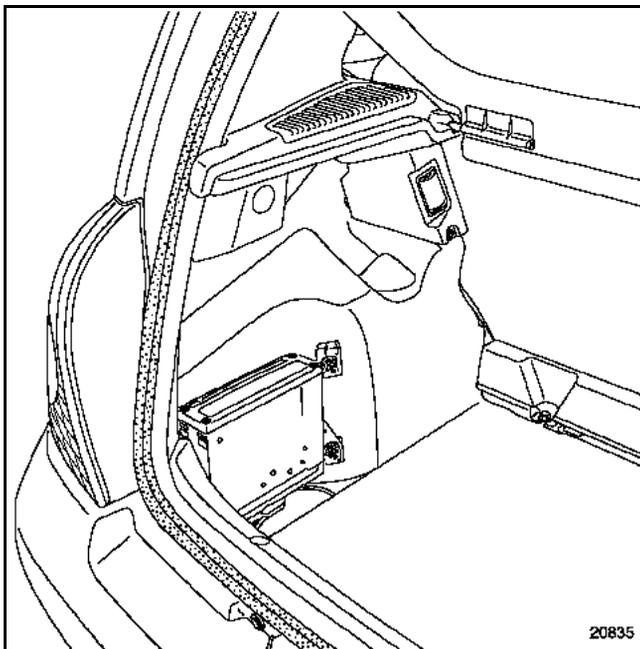
Special notes on the Trafic II

The navigation CD-ROM reader is in the lower section
of the dashboard.

It is removed with the radio removal tools (Ms. 1373).
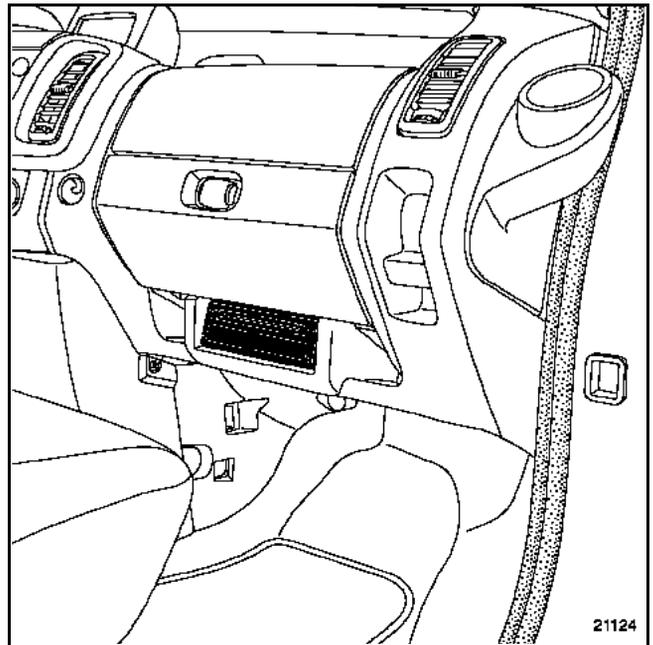
REMOVAL

The navigation CD-ROM reader is under the Central Communications Unit below the right front seat.

WARNING
Wait until the system has shut down completely (**1 minute**) before disconnecting the battery.

Note:
It is not necessary to remove the seat.

Move the seat as far back as possible.

Remove the compartment mounting bolts and unclip it.

21109
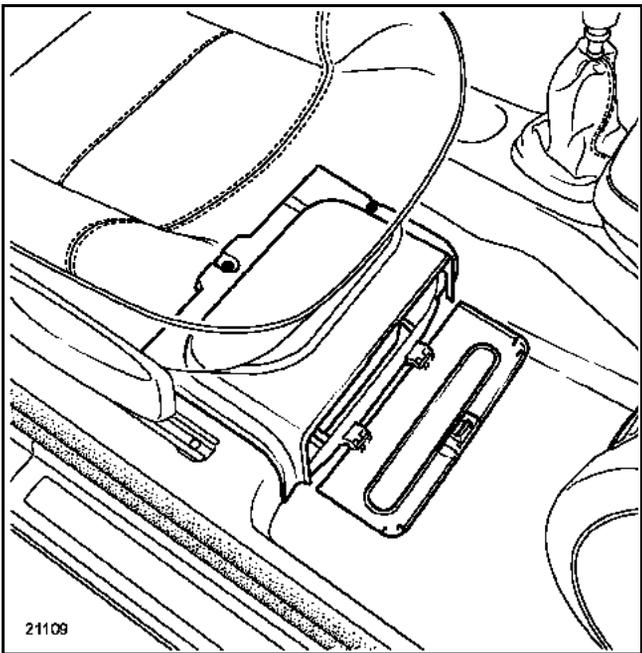
Pull the assembly forwards and disconnect the connectors.

WARNING
The **satellite** aerial wire is very fragile. Do not bend or trap it.

Remove:
– both support mounting bolts on the casing.

21114
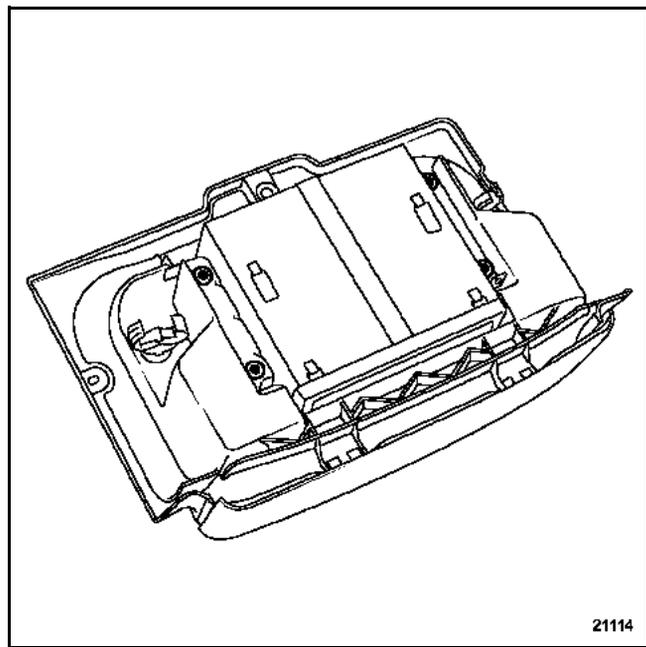
Remove:
– the computer using tools Ms. 1373.
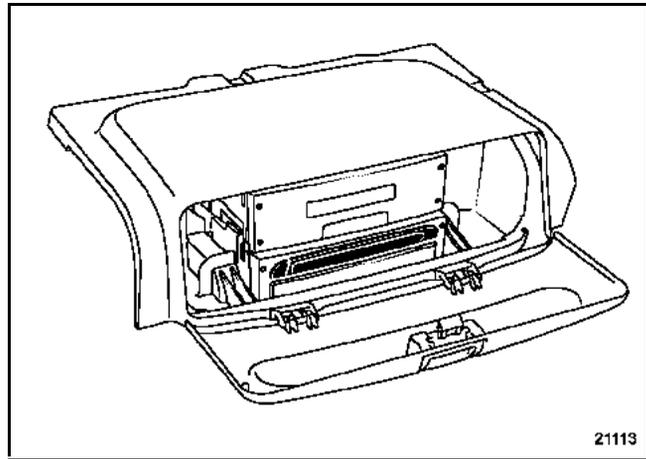
21113

REFITTING

Proceed in the reverse order to removal.

After refitting, initialise the system (refer to the **Initialisation** section).

MEGANE II

WARNING
Wait until the system has shut down completely
(**1 minute**) before disconnecting the battery.

REMOVAL

The navigation CD-ROM reader is located in the
luggage compartment, next to the amplifier, behind the
cover.

Remove the cover clipped to the carpet.
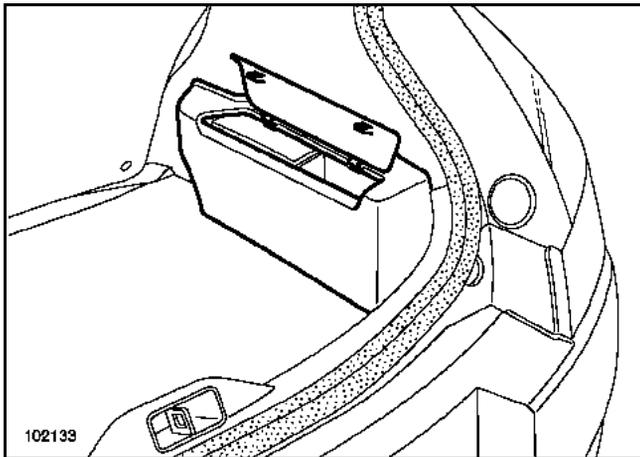
Remove the CD-ROM reader with the radio removal
tools (Ms. 1373)
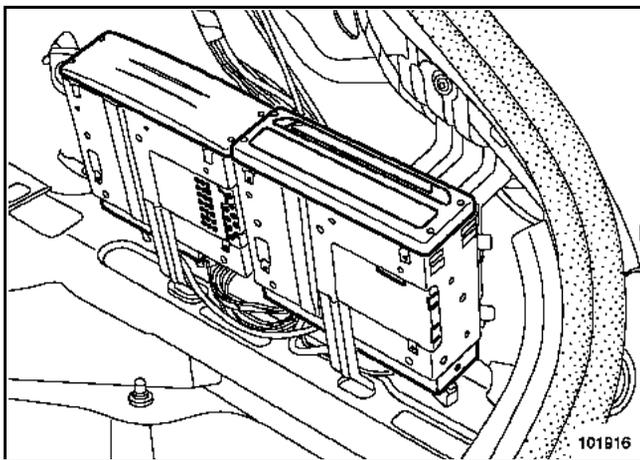
Disconnect the connectors and remove the assembly.

WARNING
The **satellite** aerial wire is very fragile. Do not bend
or trap it.

REFITTING

Insert the guides into their positions.

Connect the connectors.

Place the navigation CD-ROM reader in its mounting.

Initialise the system (refer to the **Initialisation**
section).

REMOVAL

> **WARNING**
> Wait until the system has completely shut down
> (**1 minute**) before disconnecting the battery.

Remove:
– the glove compartment cover secured by a screw,
– the computer support mounting bolts.

Disconnect the navigation CD-ROM reader connectors
and lower the unit.
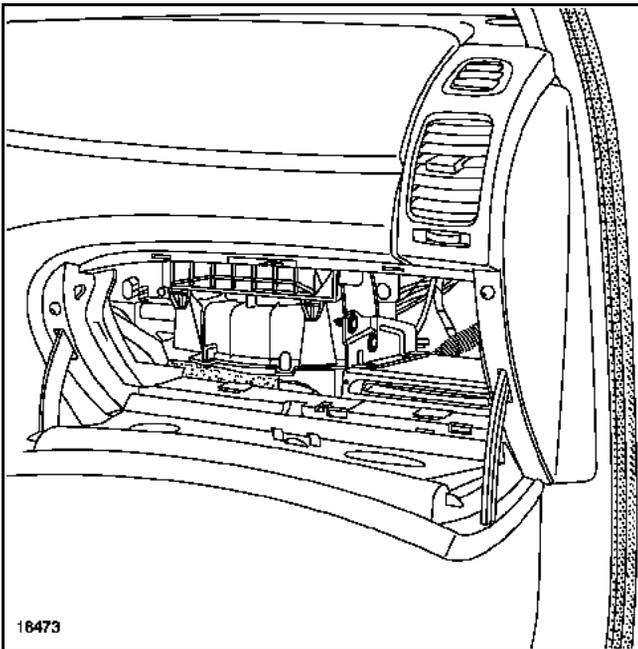
Detach the support from the computer using the radio
removal tools (Ms. 1373).
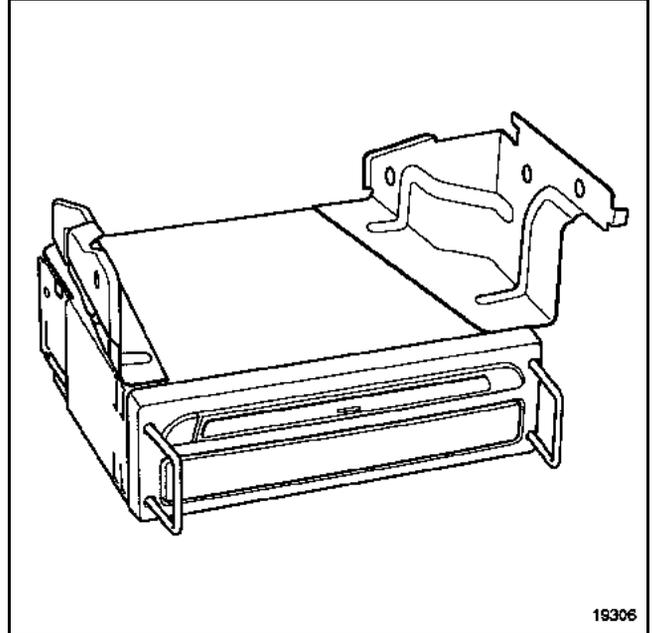
> **WARNING**
> The **satellite** aerial wire is very fragile. Do not bend
> or trap it.

REFITTING

Proceed in the reverse order to removal.

After refitting, initialise the system (refer to the
Initialisation section).

MEGANE - AVANTIME - SCENIC II

REMOVAL - REFITTING

> **WARNING**
> Wait until the system has completely shut down (**1 minute**) before disconnecting the battery.

> **WARNING**
> The **satellite** aerial wire is very fragile. Do not bend or trap it.

After refitting, initialise the system (refer to the **Initialisation** section).

Special notes on the Mégane

The navigation CD-ROM reader is in the luggage compartment (left side).

It is removed with the radio removal tools (Ms. 1373).
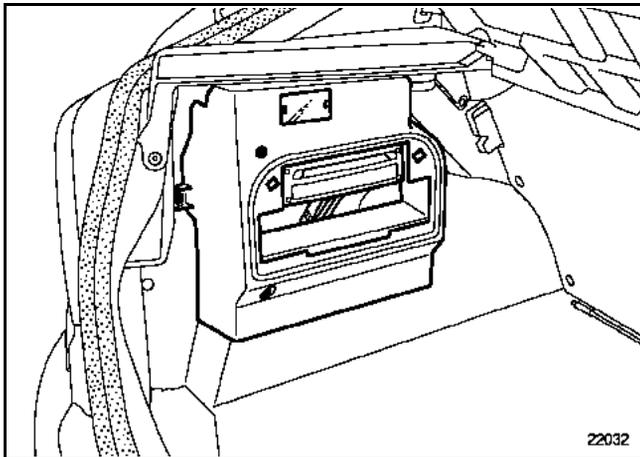
Special notes on the Avantime

The navigation CD-ROM reader is located in the glovebox (passenger's side).

It is removed with the radio removal tools (Ms. 1373).
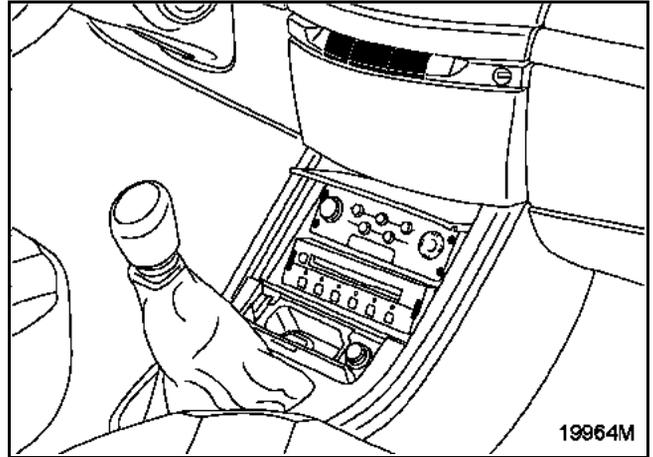
Special notes on the Scénic II

The navigation CD-ROM reader is located underneath the right front seat.

It is removed with the radio removal tools (Ms. 1373).
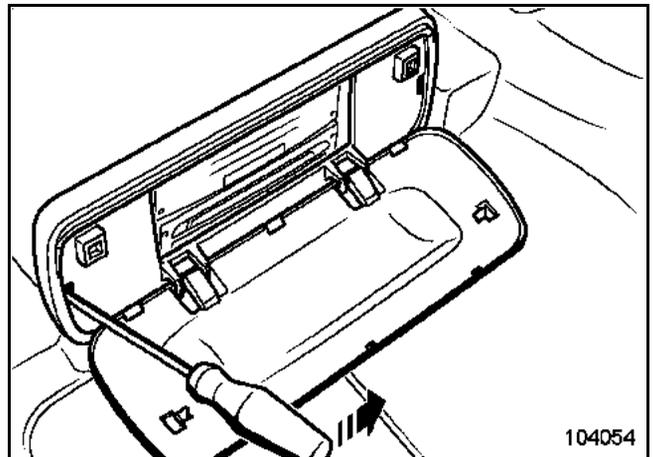
> Note:
> It is not necessary to remove the seat.

VEL SATIS

REMOVAL

The navigation CD-ROM reader is located in the glovebox.

> **WARNING**
> Wait until the system has completely shut down (**1 minute**) before disconnecting the battery.

Removal is carried out using tool Ms. 1373.

21834
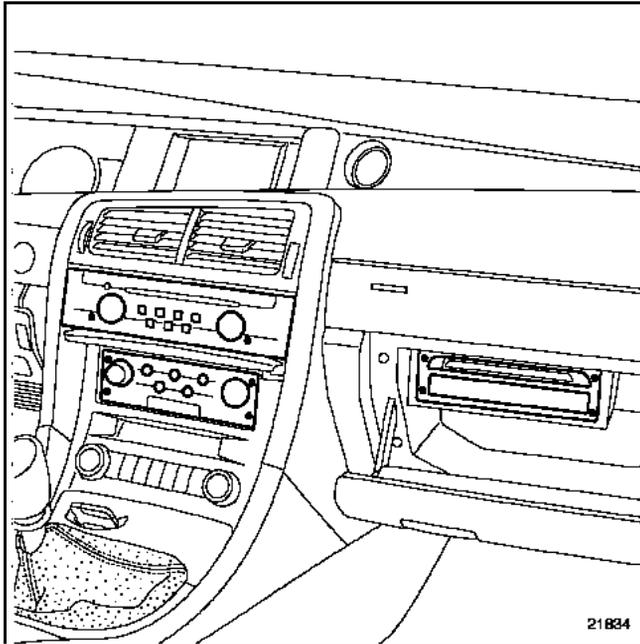
REFITTING

Initialise the system (refer to the **Initialisation** section).

ESPACE IV

REMOVAL

The navigation CD-ROM reader is located in the glovebox.

Removal is carried out using tool Ms. 1373.
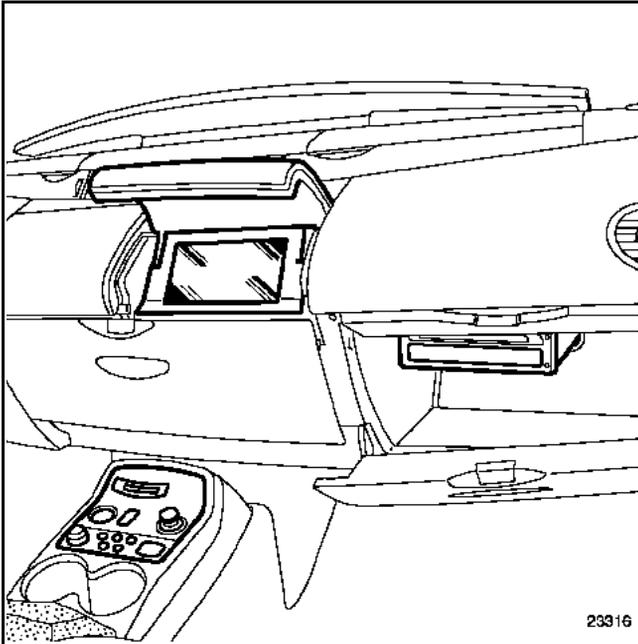
REFITTING

Initialise the system (refer to the **Initialisation** section).

The screen can display:
– the various menus,
– the destination direction,
– the distance from the destination,
– the journey maps,
– the distance remaining until the next change of direction,
– the road maps,
– etc.

It lights up a few seconds after +accessories is switched on or the radio is switched on and displays the security message.

It goes out approximately **45 seconds** after the ignition is switched off.

Note:
The screen colour and brightness can be adjusted using the **Screen configuration** menu:
– daytime blue or dark blue (side lights).
– night time blue or dark blue (side lights on).
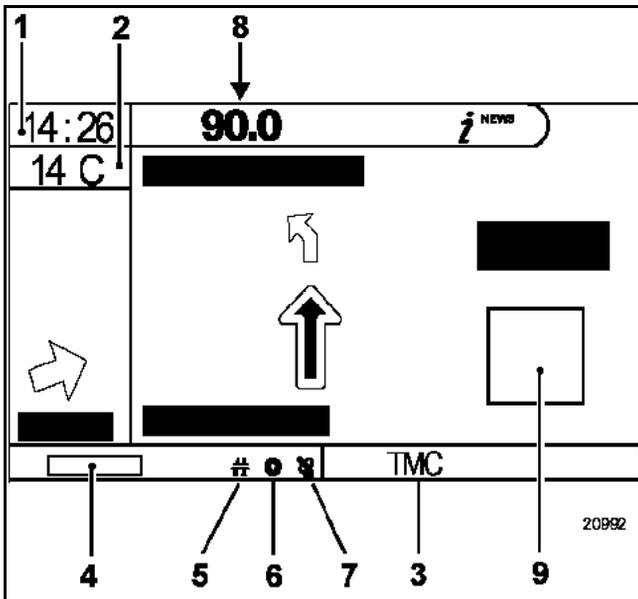
1 Time
2 External temperature
3 **Traffic Information** message pictogram
4 Time of arrival or journey remaining (can be configured)
5 **Guidance mode** pictogram
6 **Disc present** pictogram
7 **Satellite reception quality** pictogram
8 **Radio** display (depending on the vehicle)
9 Tyre pressure monitor and opening elements (depending on the vehicle)

Special notes on the radio (depending on the vehicle)

If the vehicle is fitted with an original radio, the display will appear on the screen bar (radio on only).

When the radio is being adjusted, the radio display fills the screen (for greater visibility) in **list** or **preset** mode.

Note:
If the radio information does not appear on screen, refer to the "**Initialisation**" section.

Special notes on the clock

The clock is connected to the satellite link (GPS). The reference time is adjusted manually via the **Clock** menu, but the satellite connection allows precise adjustment.

WARNING
Do not use cleaning products to clean the screen. It should be wiped with a soft, dry cloth or a damp cloth.

	DISPLAY							
	Time	Radio	Temperature	Seat belt indicator	Tyre indicator	Tyre location	Opening element warning light	Opening element location
Clio II	X	X	X	-	-	-	-	-
Mégane (XAXX)	-	-	-	-	X [1]	X [1]	X [1]	X [1]
Scénic (JAXX)	X	X	X	-	X [1]	X [1]	X [1]	X [1]
Mégane II (XMXX)	X	X	X	-	-	-	-	-
Scénic II (JMOX)	X	X	X	-	-	-	-	-
Laguna II	X	X	X	X	X	X	X	X
Vel Satis	-	X	X	X	X	-	X	-
Espace IV	-	X	-	-	-	-	-	-
Avantime	-	-	-	-	-	-	-	-

[1] Vehicles fitted with the Tyre Pressure Monitoring System

CONNECTIONS

Track	Description
1	Not used
2	Earth
3	- Video signal
4	Red video signal
5	Green video signal
6	Blue video signal
7	Earth
8	Video synchronisation signal
9	Earth
10	Brightness adjustment
11	Not used
12	Screen on/off
13	Not used
14	Not used
15	+ Before ignition
16	+ Before ignition
Screening	Earth screen

REMOVAL - REFITTING

With the ignition switched off, position the steering column to a low setting.

Unclip and disconnect the control keyboard (**1**).
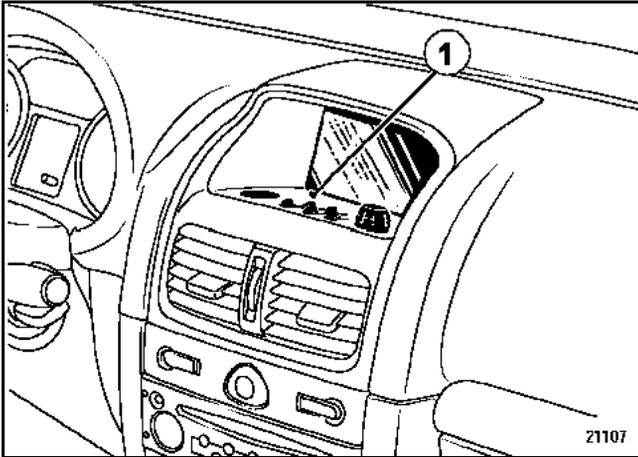
Remove:
– the steering wheel casing mounting bolts,
– the steering wheel upper cowling,
– the bolts.
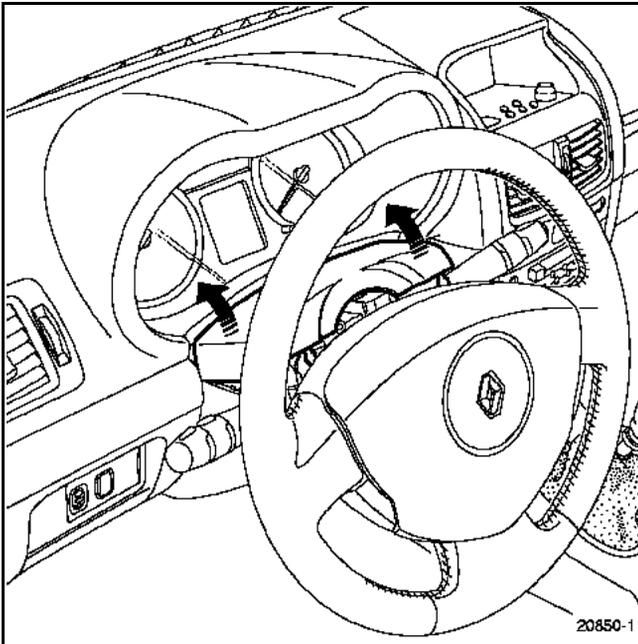
Remove:
– the trim strips,
– the dashboard mounting bolts.
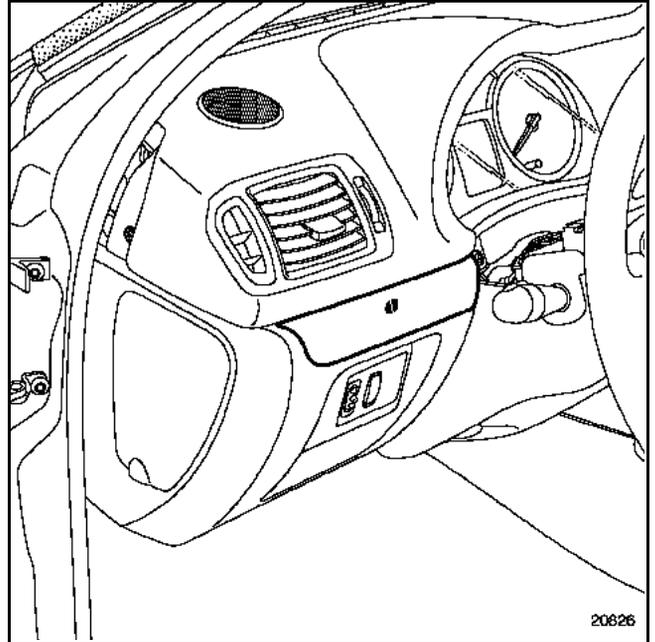
Remove:
– the upper section of the dashboard,
– the screen and its mounting.
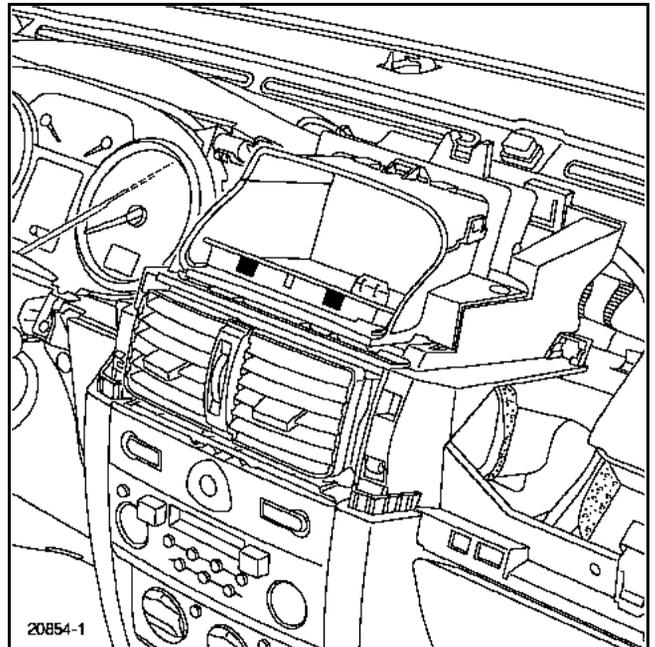
MEGANE - SCENIC

REMOVAL - REFITTING

With the ignition switched off, position the steering column to a low setting.

Unclip the CARMINAT speaker support (**1**) and the control keyboard (**2**).
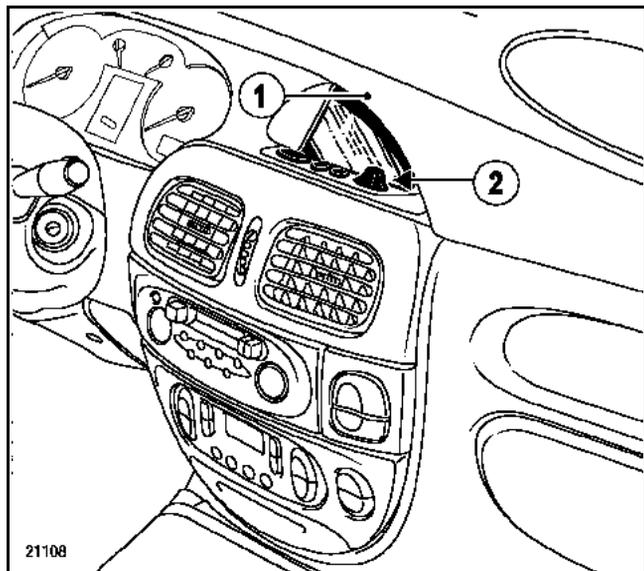
Remove:
– the speaker grilles,
– the upper section of the dashboard,
– the screen mounting bolts (**3**).

Disconnect the screen and the keyboard.
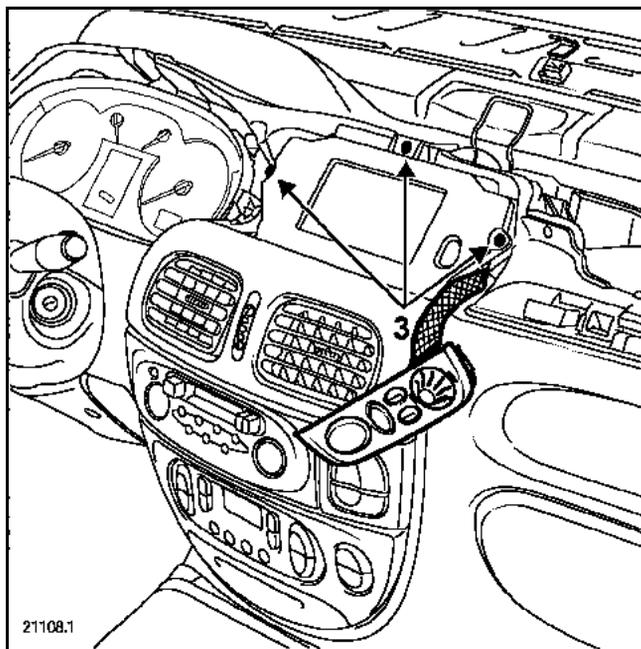
Separate the screen from its mounting by removing the screws (**4**).
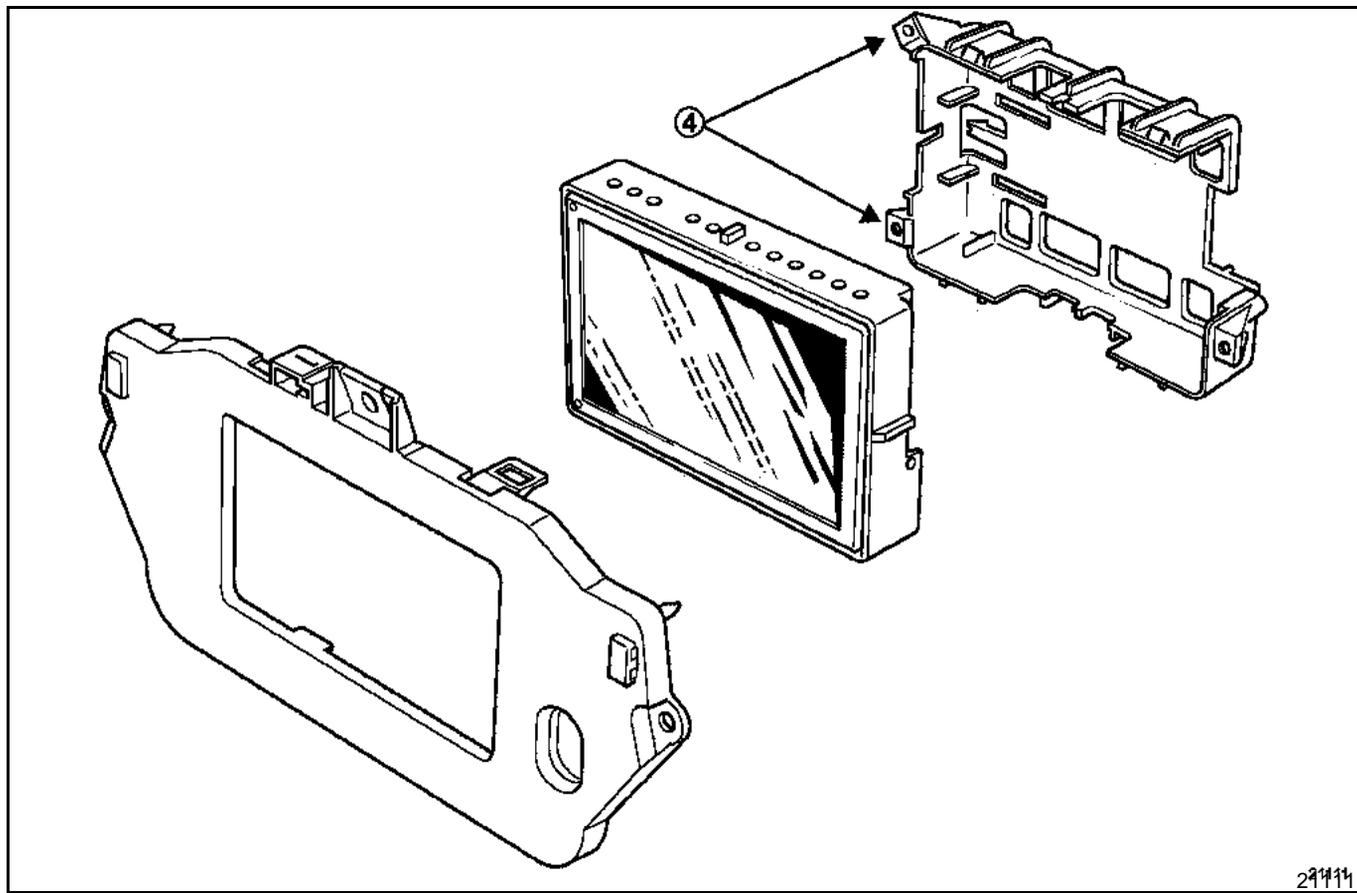
TRAFIC II

REMOVAL - REFITTING

With the ignition off, remove:
– the Central Communication Unit using the Ms. 1373 tools.
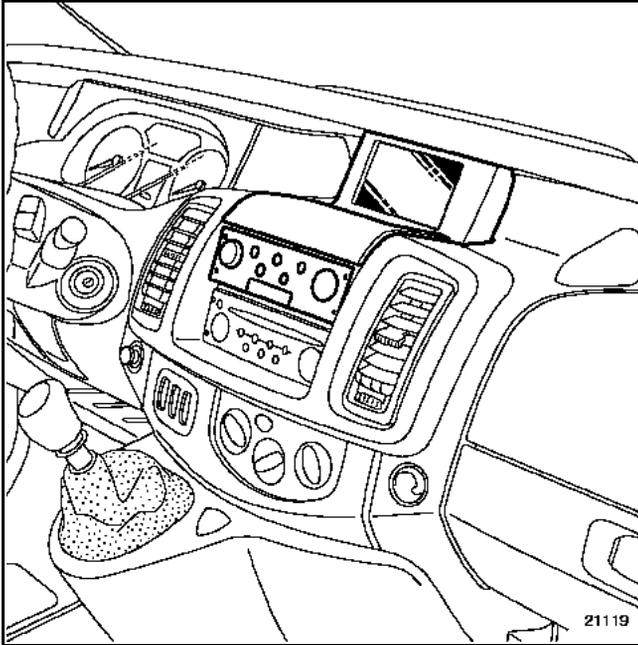
Remove:
– the screen mounting bolts.

Pull out the screen to unclip it from the dashboard.
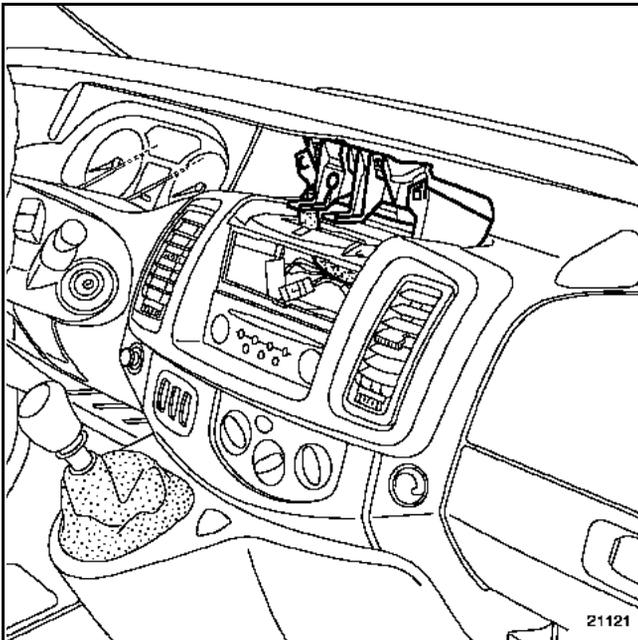
Swivel the screen, taking care not to scratch the dashboard.
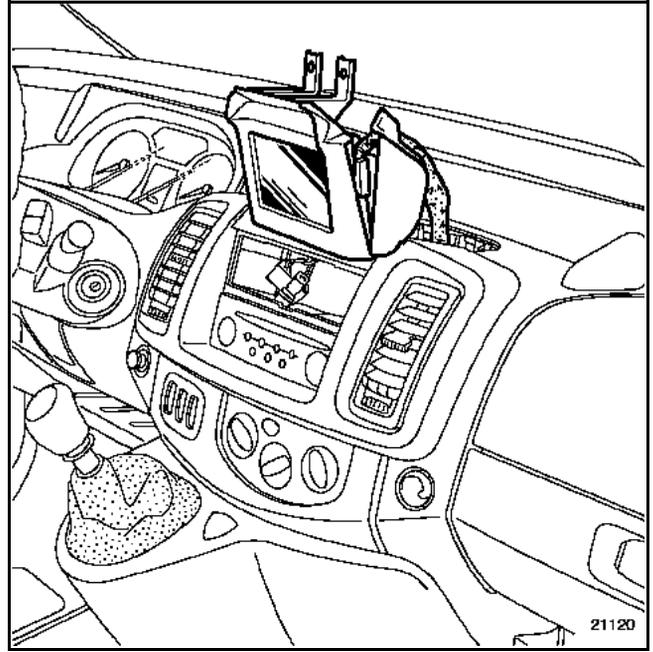
Open the protective housing.
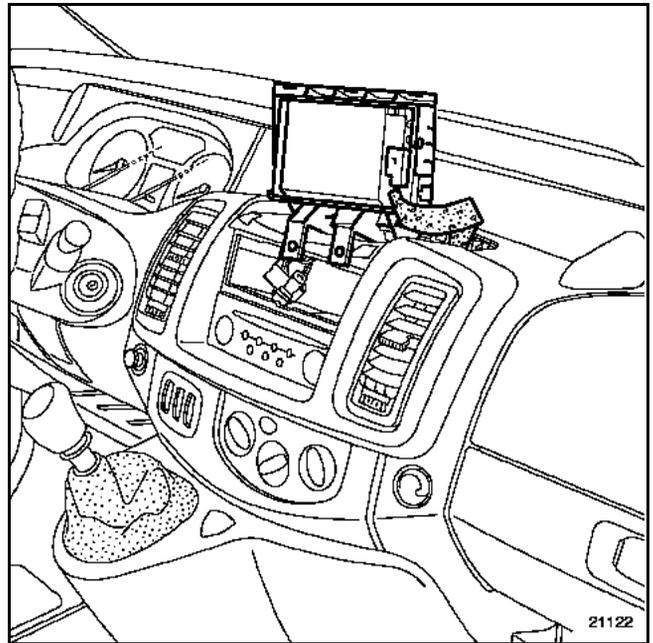
Disconnect the connector by pressing on the bolt.

Separate the screen from its mounting by removing the screws.

REMOVAL - REFITTING

Removing the navigation screen requires removing the instrument panel.

Disconnect the battery.
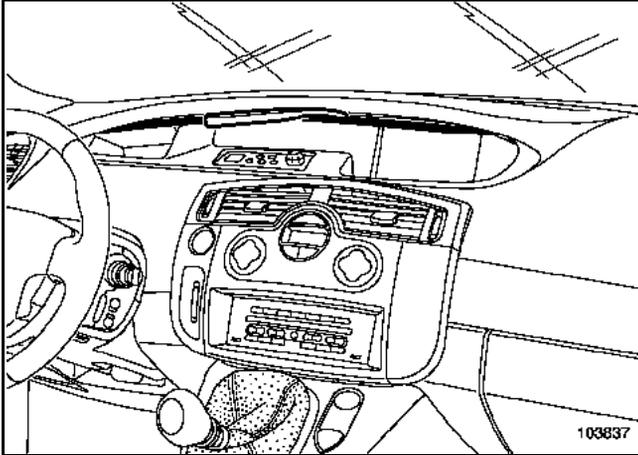
Unclip the trim (**1**) with the tool (Car. 1597).
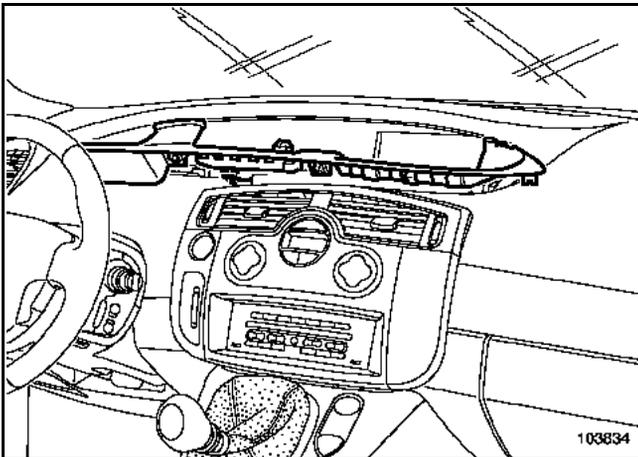
Unclip the instrument panel rim (**2**).
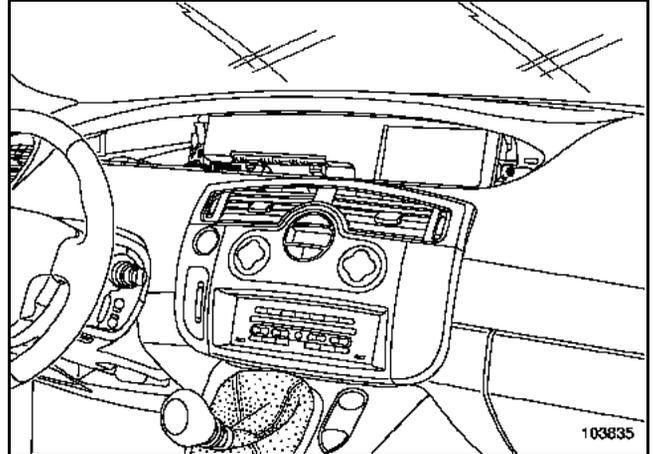
Remove the mounting bolts (**3**).

Remove the instrument panel.
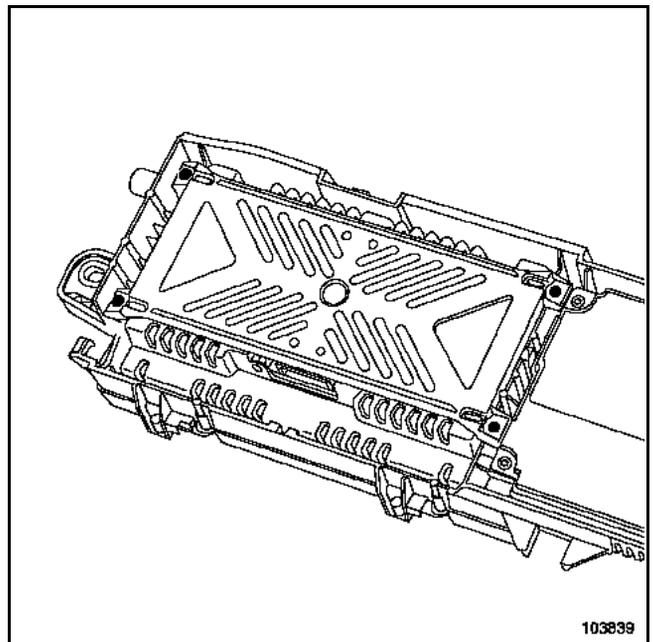
Remove the screen mounting bolts (**4**).

Remove the screen.

REMOVAL - REFITTING

With the ignition off, remove:
– the two covers either side of the screen,
– the mounting bolts (**1**),
– the underside of the screen by unclipping it (**2**).
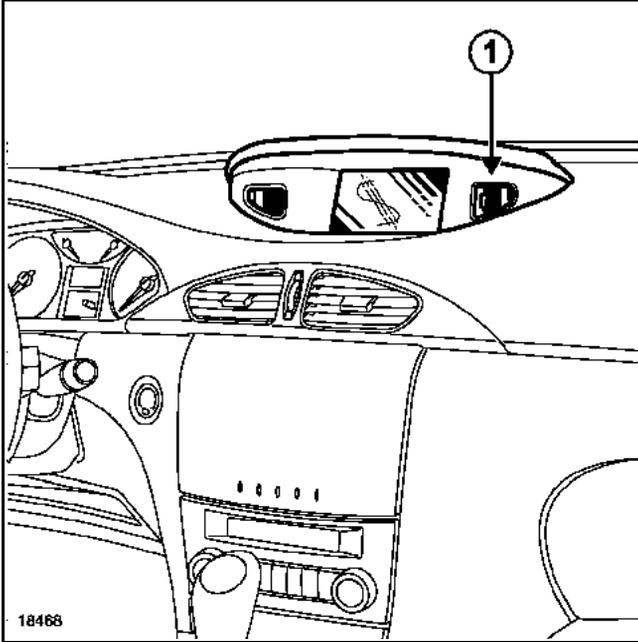
Disconnect the connection with the computer.
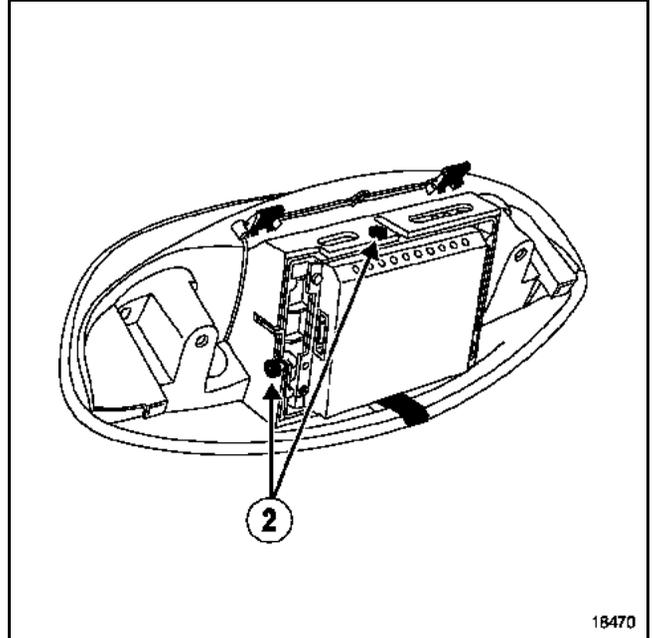
Remove the screen mounting bolts to detach it from the support.

MEGANE II

SCREEN AND CENTRAL DISPLAY UNIT

REMOVAL

The screen and the Central Display Unit are in one piece.

Unclip the upper section (**A**) of the dashboard.
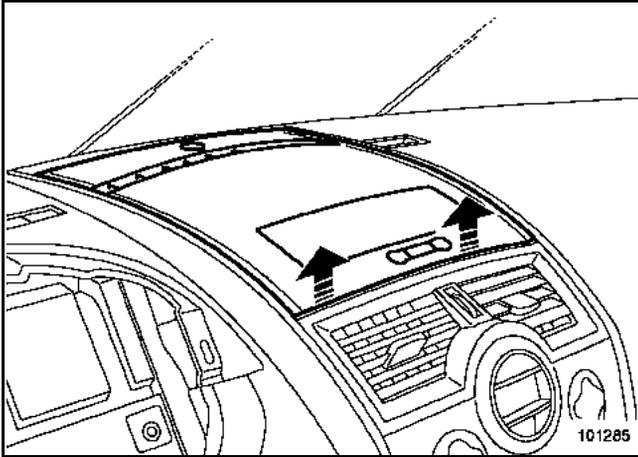
Disconnect the sunlight sensor (**B**).
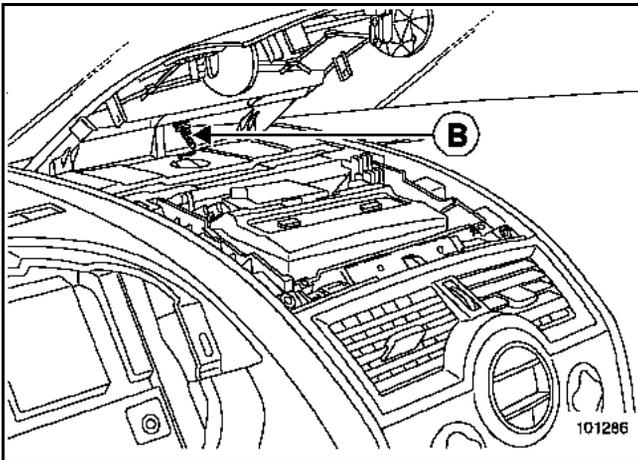
Remove the four screws (**C**).
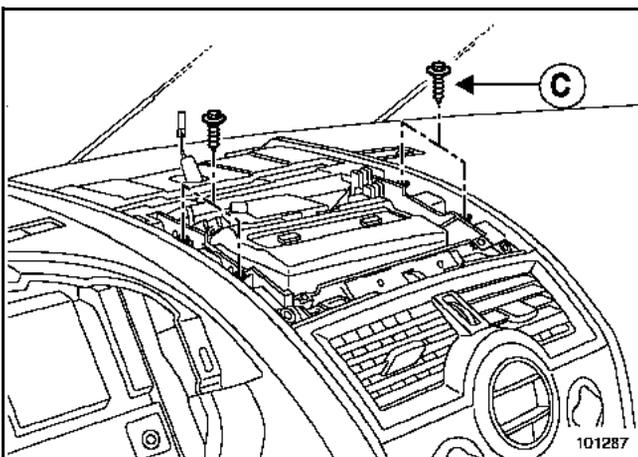
Disconnect the connectors.
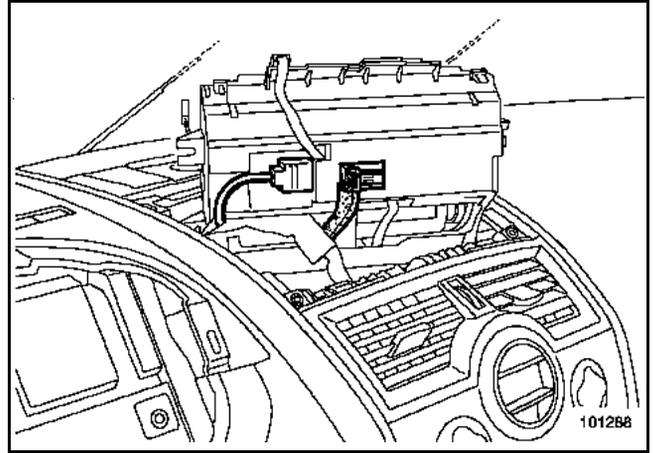
REFITTING

Proceed in the reverse order to removal.

Initialise the system (refer to the **Initialisation** section).

MEGANE II

101288
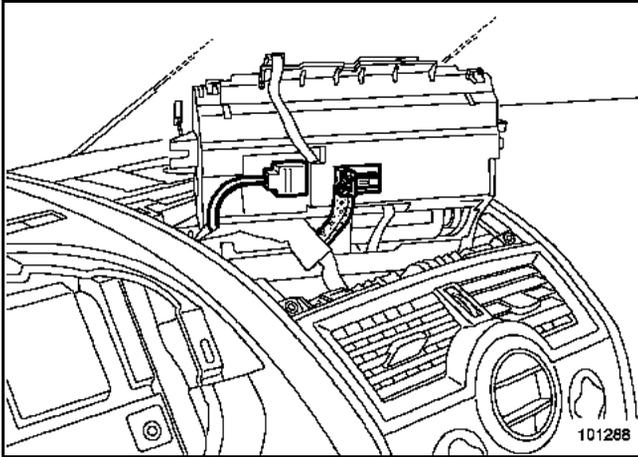
CENTRAL DISPLAY UNIT CONNECTIONS

Track	Description
1	+ Before ignition
2	Not used
3	Not used
4	Not used
5	Not used
6	Not used
7	Earth
8	Not used
9	+ Lighting
10	Not used
11	Not used
12	Not used
13	Multimedia multiplex link to screen
14	Multimedia multiplex link to screen
15	Multimedia multiplex link to Central Communications Unit
16	Multimedia multiplex link to Central Communications Unit
17	On/off input to Central Communications Unit
18	On/off input to screen

Note:
The screen connections are the same as in other vehicles.

REMOVAL

Open the glovebox and remove the mounting bolts (**A**) from the screen mounting.

18901M2
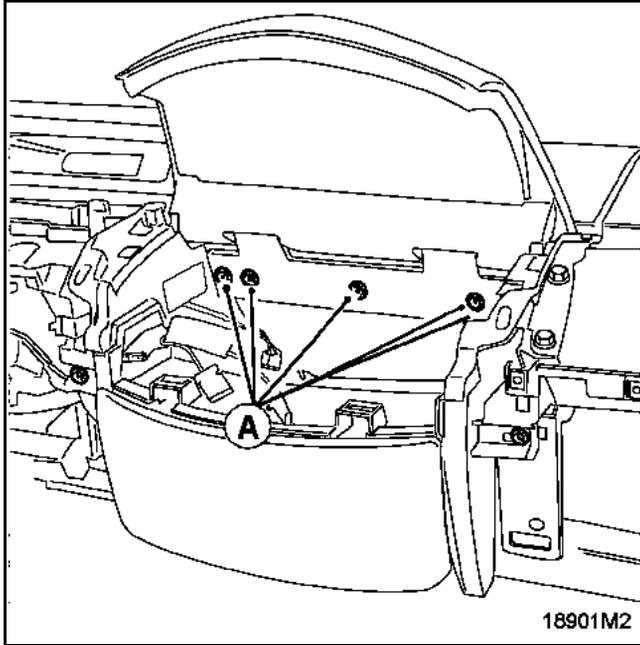
Pull out the assembly to the whole length of the wire so that it can be put back.

Remove the mounting screws (**B**).

19968
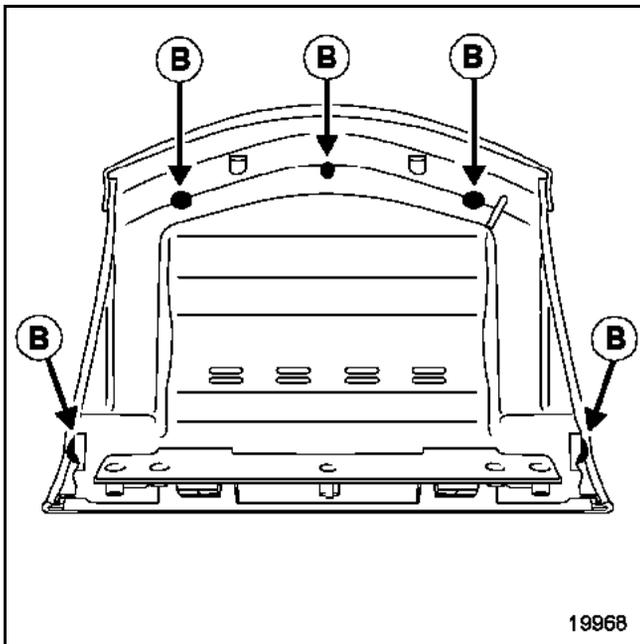
Disconnect the connector.

Remove the screen mounting bolts (**C**).

19967M1
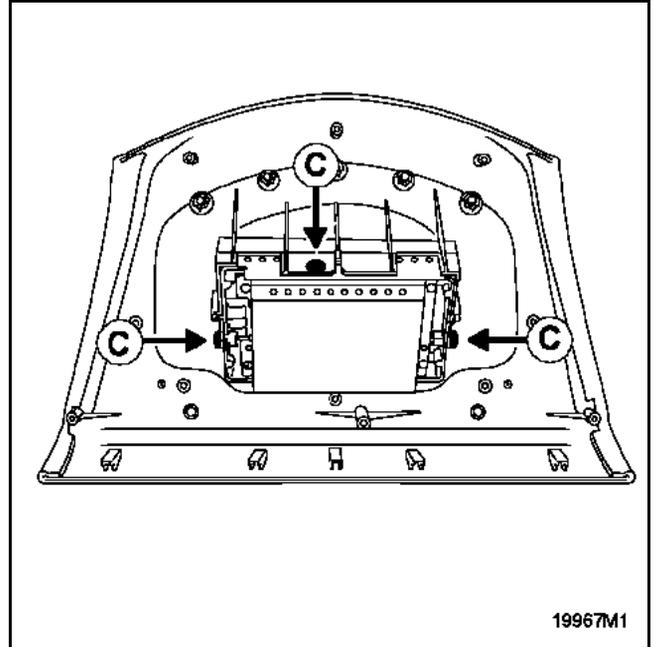
REFITTING

It is essential to respect the position of the screws according to their length.

REMOVAL - REFITTING

The instrument panel must be removed to remove the screen.

Remove the upper instrument panel trim clipped to the dashboard.
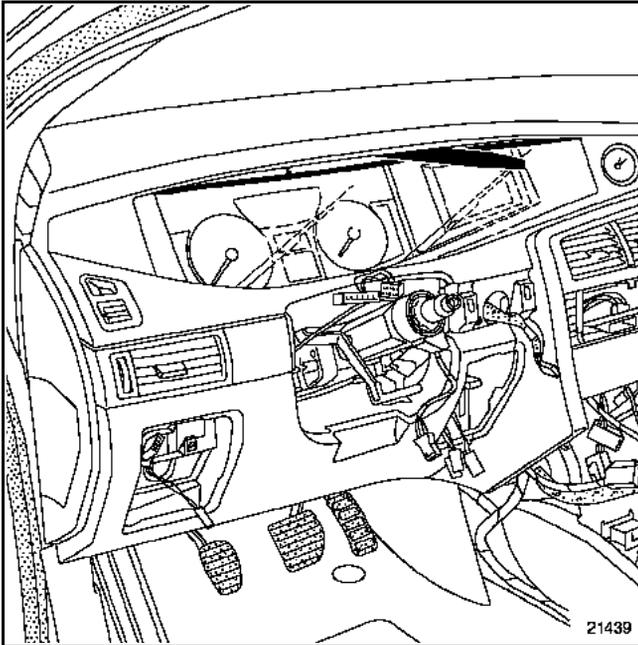
Remove:
– the lower instrument panel trim clipped to the dashboard,
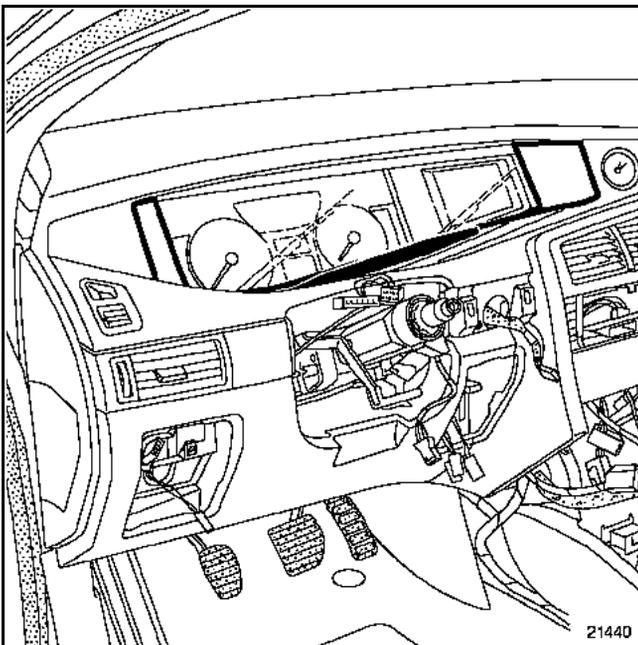
Remove:
– the instrument panel mounting bolts.
– the screen mounting bolts on the instrument panel.
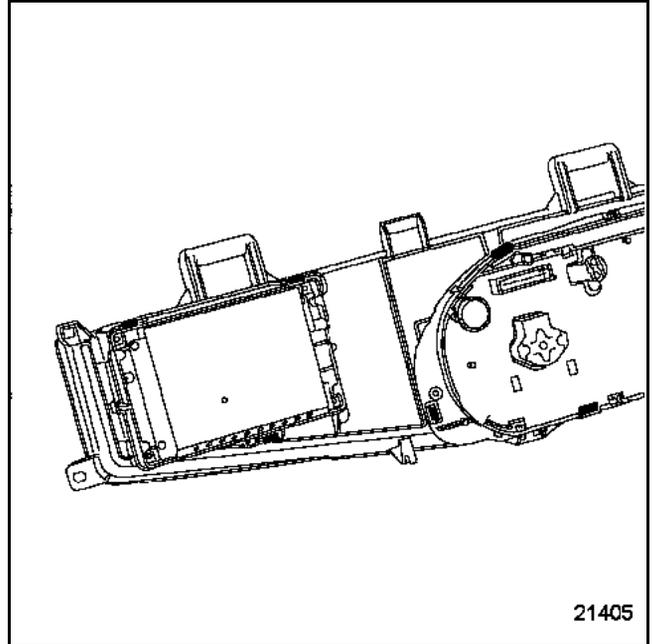
REMOVAL - REFITTING

Using a flat screwdriver, unclip the cover.

103141
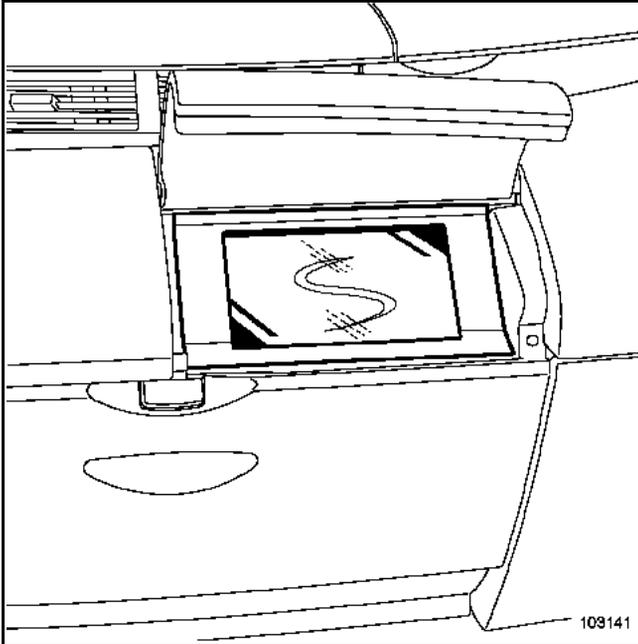
With a screwdriver, remove the clips (**A**) on each side of the screen.

103142
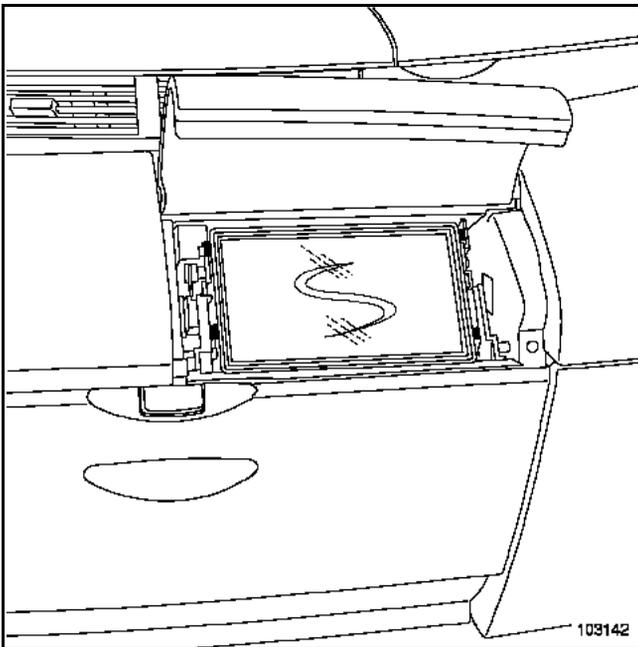
Disconnect the connectors (**F**)

103143
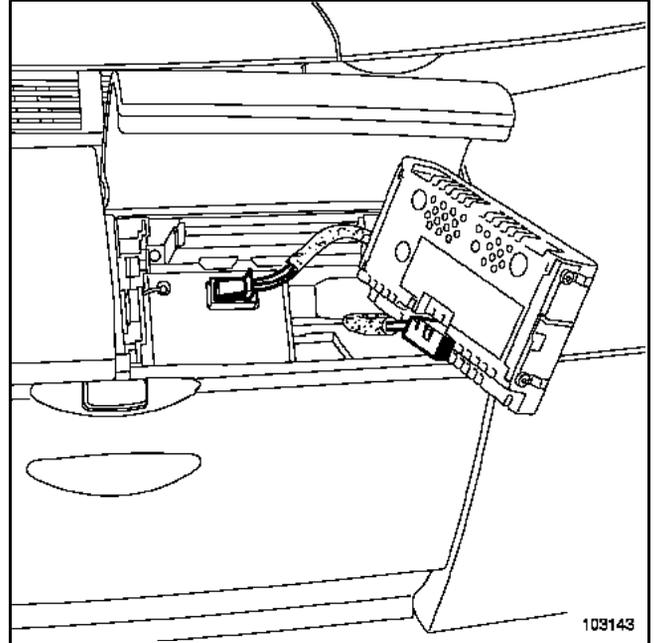
Remove the two screen mounting screws (**D**).

103144
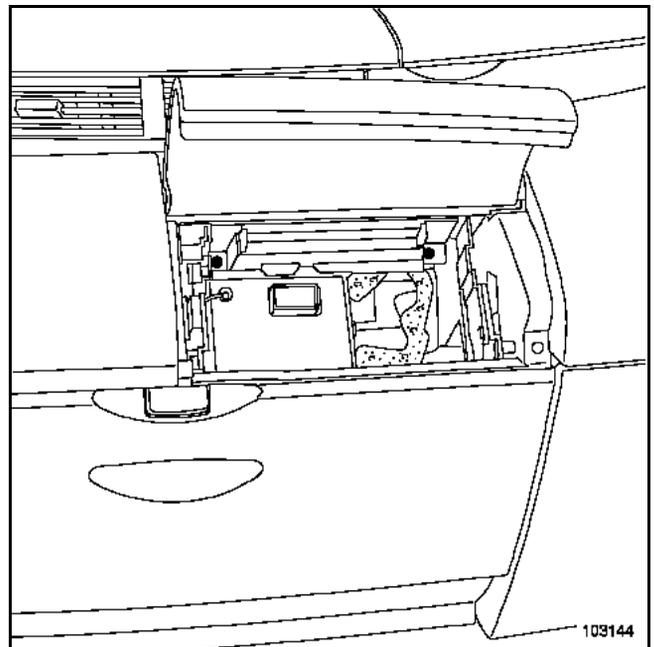
Take out the screen mounting.

ESPACE IV

Note:
The screen mounting has a switch (**B**) that turns off the display when the dashboard cover is closed.

103146
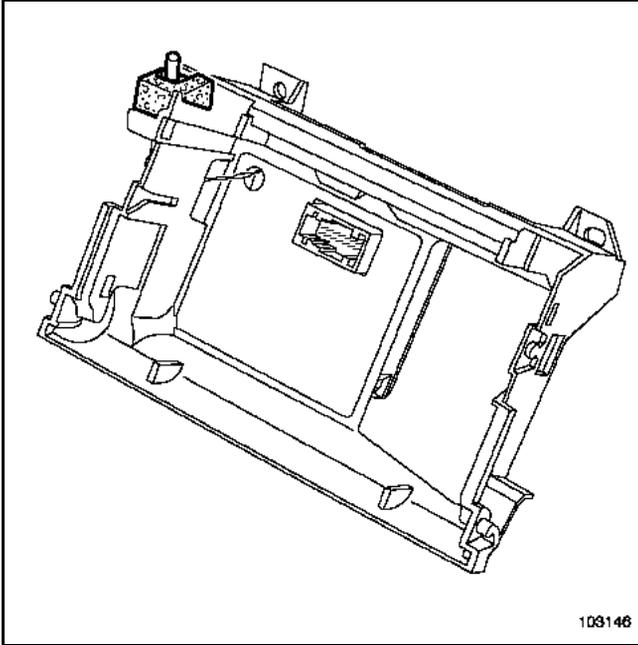
The satellite aerial

It picks up satellite signals so that the electronic navigation computer (CD-ROM player) can locate the position of the vehicle.

When the satellite reception is good, a **green** pictogram (**1**) is displayed on screen.

When the satellite reception is poor (caused by going through a tunnel or along a street surrounded by tall buildings, etc.), a **red** pictogram is displayed on screen.

Note:
Relocation is automatic once the battery has been reconnected or the navigation computer has been replaced: drive the vehicle to an outdoor open area with the ignition off and wait a few minutes. When the satellite reception is good, a **green** pictogram is displayed on screen.
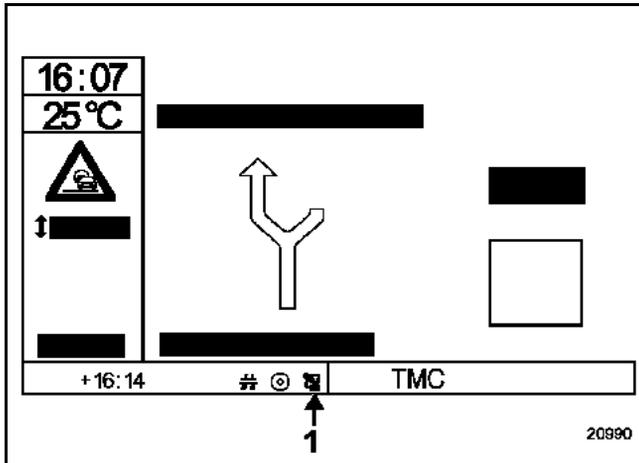
WARNING
The satellite aerial wire is very fragile. Do not bend or trap it.

Note:
The satellite aerial is also used for the hands-free phone. Some vehicles are fitted with a dual band aerial.

REMOVAL - REFITTING

The aerial is fitted on the roof. The headlining and boot lining (right-hand side) must be partially removed to remove the aerial.

> **WARNING**
> The **satellite** aerial wire is very fragile. Do not bend or trap it.

> Note:
> The satellite aerial incorporates the radio aerial and the telephone aerial (dual band).

Remove:
– the mounting bolts on the rear parcel shelf (**3**),
– the parcel shelf support,
– the linings (**1**) and (**2**).

20833
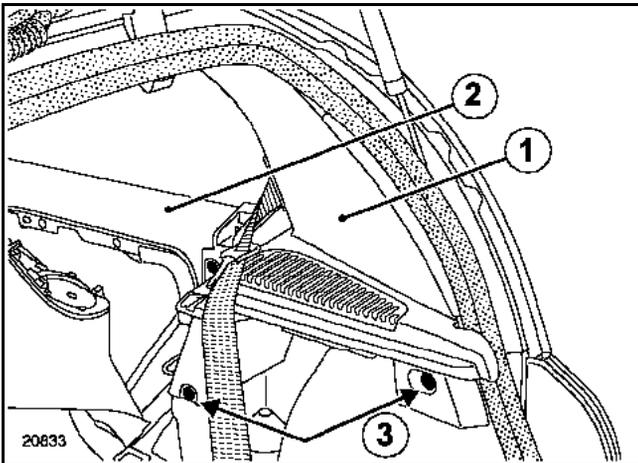
Disconnect the aerial wires.

20832
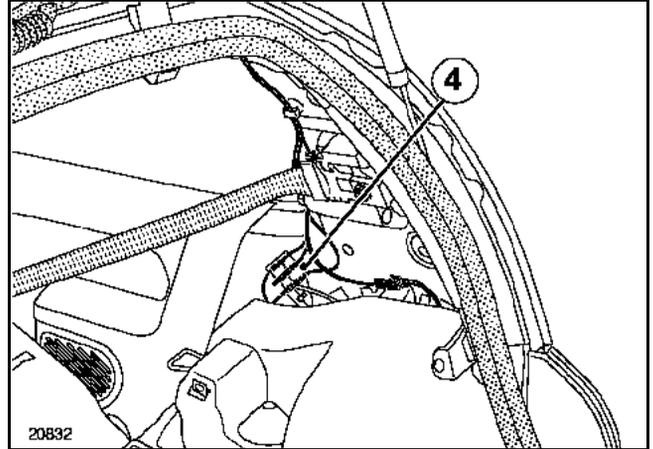
Remove:
– the headlining (partially),
– the mounting nut, then remove the aerial.

20839
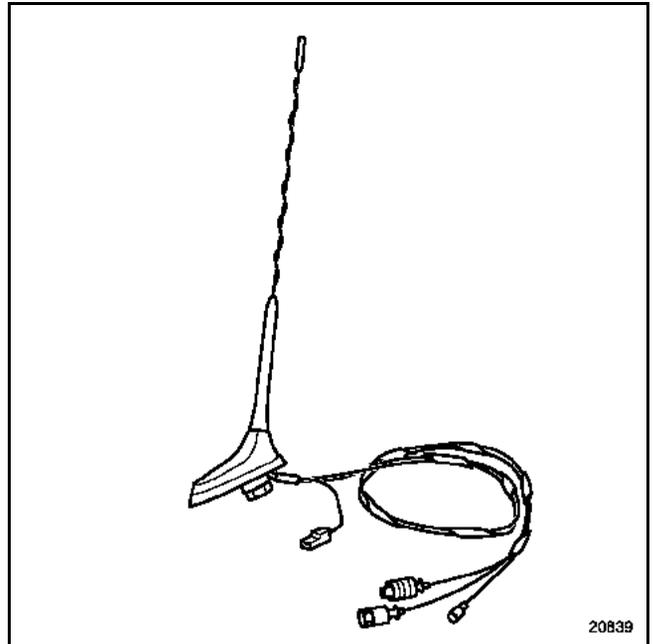
REMOVAL - REFITTING

The aerial is fitted on the roof. The headlining must be partially removed to remove the aerial.

> **WARNING**
> The **satellite** aerial wire is very fragile. Do not bend or trap it.

21125

MEGANE - SCENIC

21126

WARNING
The **satellite** aerial wire is very fragile. Do not bend or trap it.

REMOVAL - REFITTING

Special notes on the Mégane

The aerial (**1**) is located underneath the rear parcel shelf support (left-hand side).

Removing it requires removing the CD-ROM reader with the tool (Ms. 1373) as well as its mounting.

22032
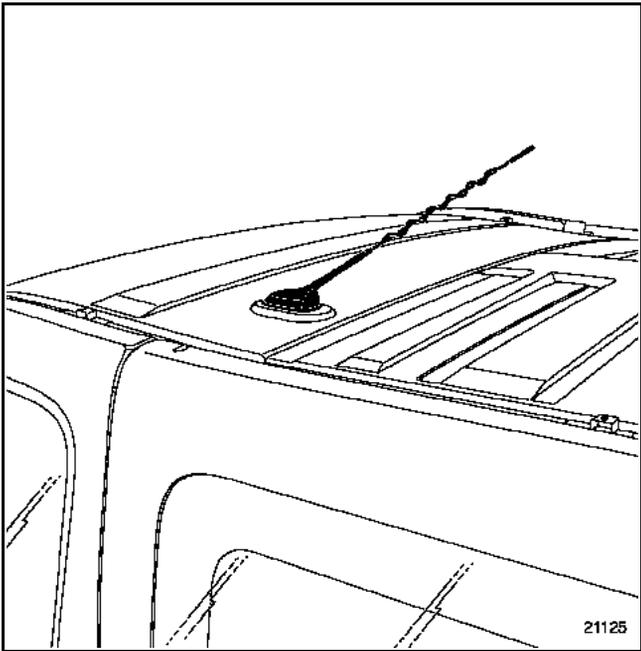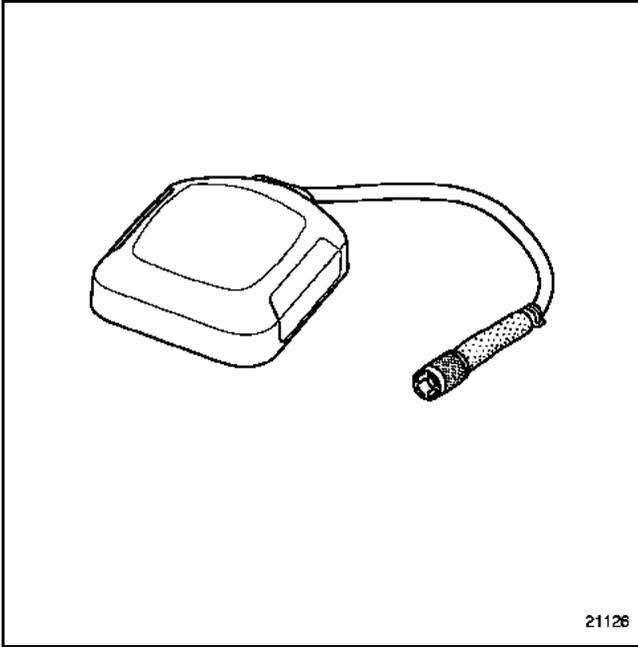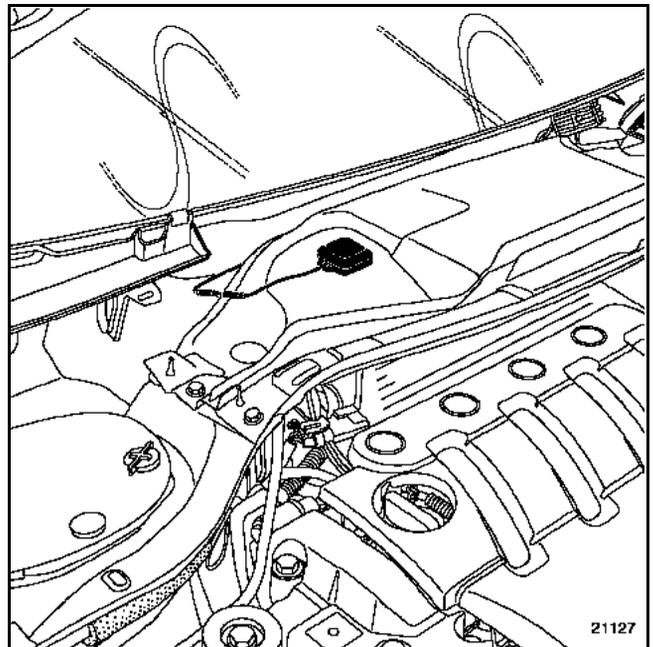
Special notes on the Scénic

The aerial is located on the plenum chamber plate, underneath the engine cover.

Remove:
– the windscreen wiper arms,
– the plenum chamber half-grilles.

11020R

Disconnect the wire and detach the aerial.

21127

REMOVAL - REFITTING

The aerial is fitted on the roof. Removing it requires part of the head lining to be removed (see **Bodywork** section).

> Note:
> The satellite aerial incorporates the radio aerial, the amplifier and the telephone aerial (dual band).

Remove the marker nut (**D**) and disconnect connectors (**E**) and (**F**).

101908

20839
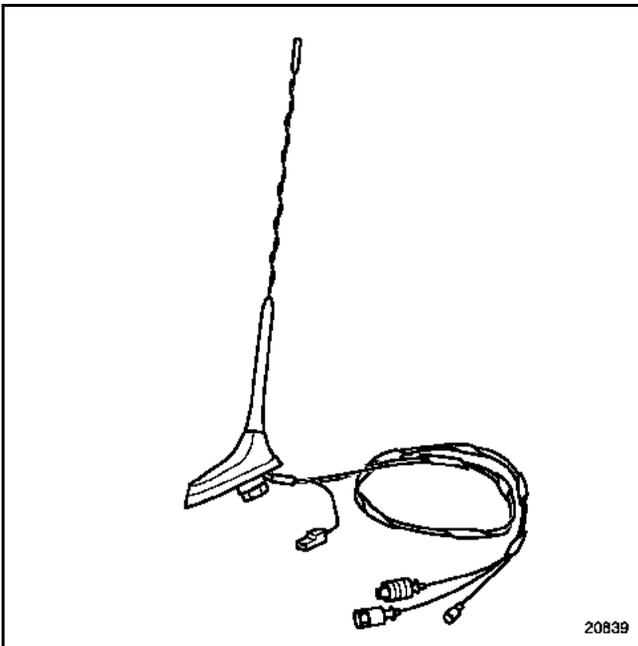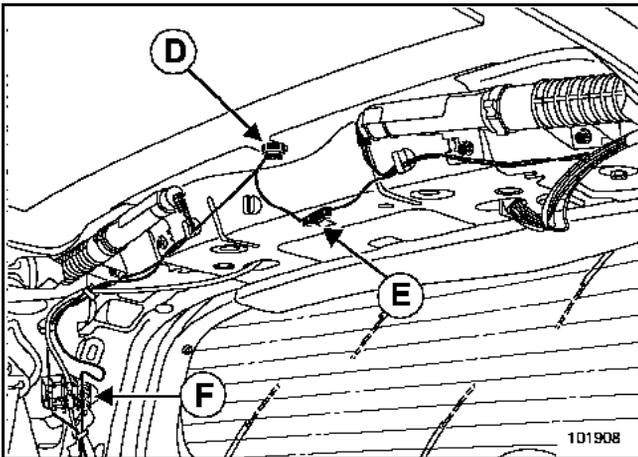
LAGUNA II

Special notes on the Laguna II

First-generation Laguna II's are fitted with a satellite aerial and a mono-band telephone. These aerials have been replaced by dual-band satellite and telephone aerials. They are visible on the rear section of the roof.

MONO-BAND AERIAL

Remove the upper tailgate lining.
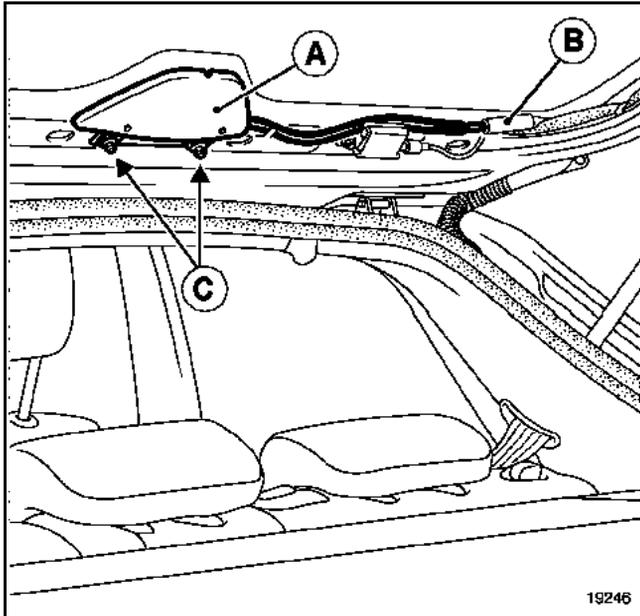
Disconnect the aerial connectors (**B**).

Remove the mounting nuts (**C**) and then the satellite aerial (**A**).
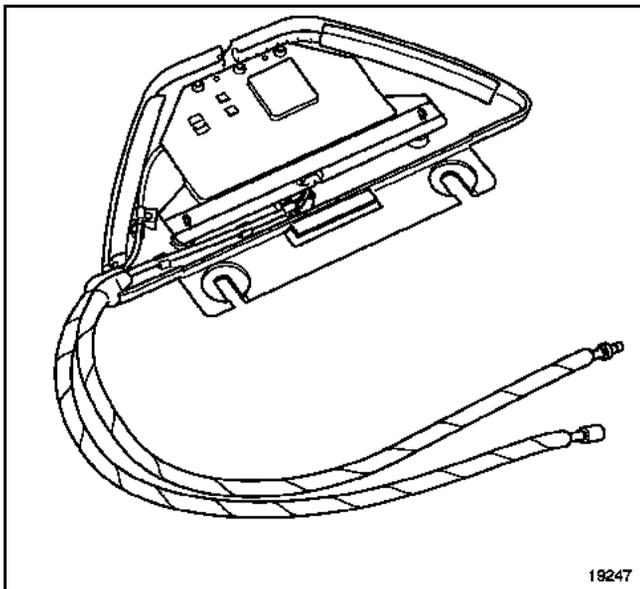
DUAL BAND AERIAL

The aerial is fitted on the roof. The head lining and rear right-hand quarter panel must be partially removed to remove the aerial.
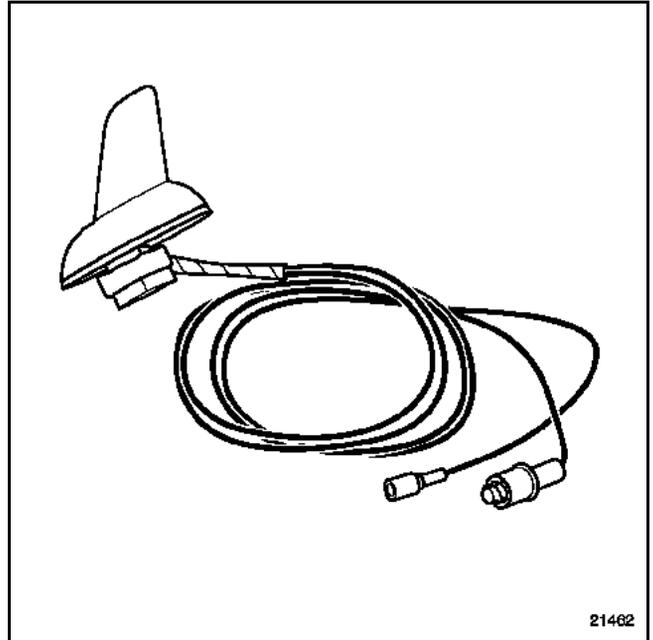
VEL SATIS - ESPACE IV

DUAL BAND AERIAL

The aerial is fitted on the roof. Removing it requires partial removal of the headlining and rear right quarter trim (see **Bodywork** manual).

21462
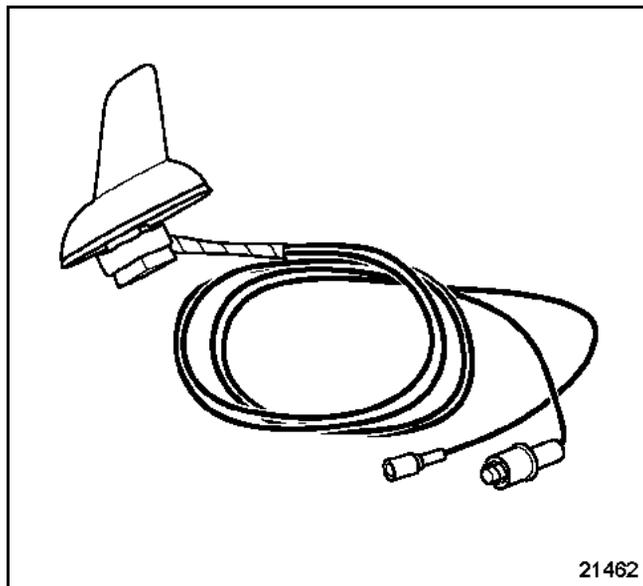
The aerial wire is connected to the switch plate (**2**) (e.g. Vel Satis).

21523
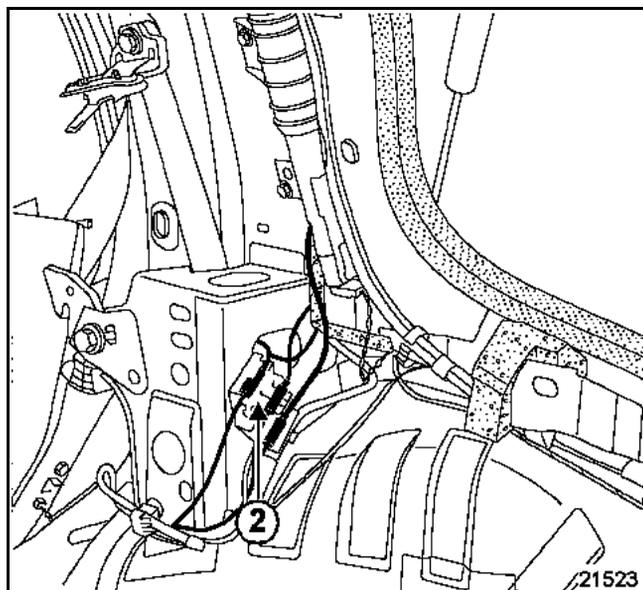
AVANTIME

REMOVAL

Lock the airbag computer using a fault finding tool.

Disconnect the battery.

Remove:
– the driver's seat,
– the central keyboard.

Remove the soundproofing material on the central keyboard tunnel,

Cut the carpet in the middle of the central keyboard in front of the gear lever,

Disconnect the satellite aerial wire at the threaded union.

Detach the carpet and soundproofing (driver's side),

Remove the satellite aerial sensor (**A**) from its housing by sliding it towards the centre of the roof,

19966M1
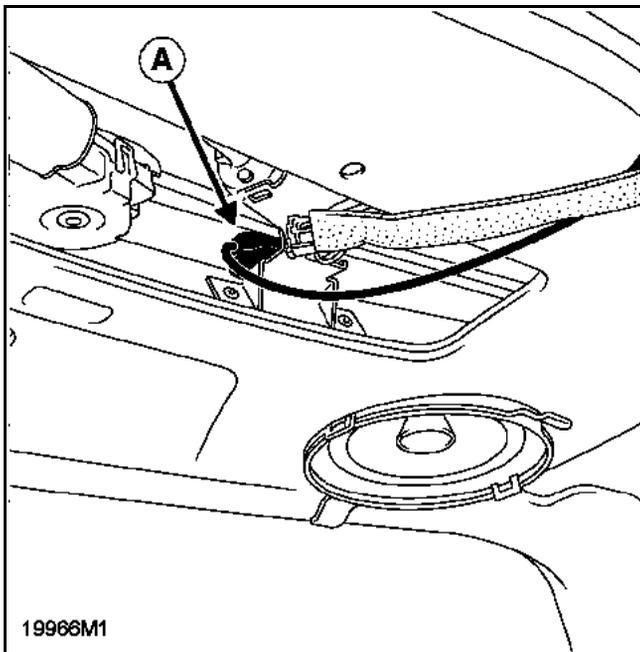
REFITTING

Slide the satellite aerial into its housing.

Reposition the aerial wire along its original route and reconnect it.

Refit:
– the soundproofing,
– the carpet,
– the door seal,
– the central keyboard soundproofing material,
– the driver's seat.

Reconnect the battery.

Unlock the air bag computer and carry out fault finding.

The navigation system can use:
– a special speaker,
– the voice synthesiser speaker (the Central Communication Unit regulates the messages from the voice synthesiser),
– a radio speaker.

Special notes on the Mégane and Scénic

The special system speaker (**1**) is located beneath the upper section of the dashboard.
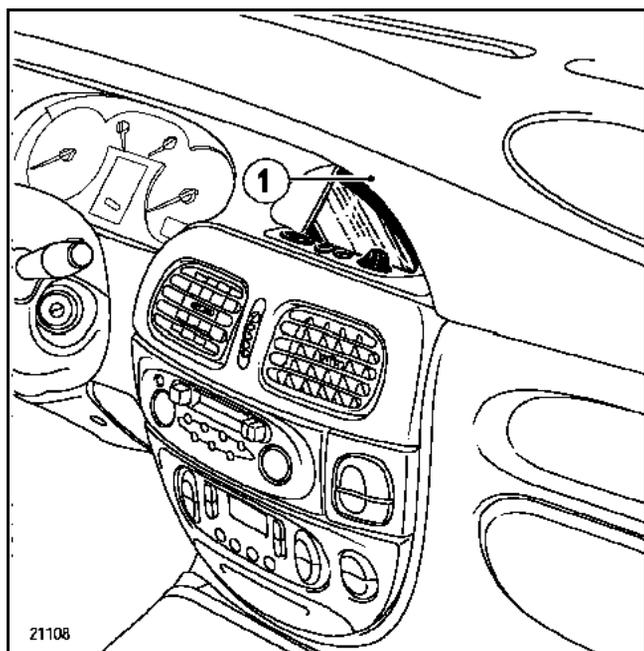
Special notes for Clio II

The special system speaker (**2**) is located beneath the heating control panel. The central keyboard compartment needs to be removed to remove the speaker.
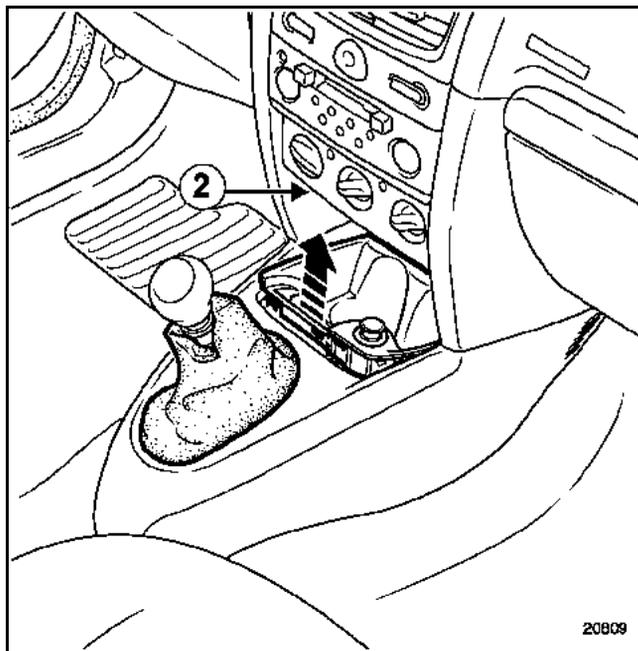
Special notes on the Laguna II and Vel Satis

The speaker (**3**) is positioned in place of the voice synthesiser speaker.
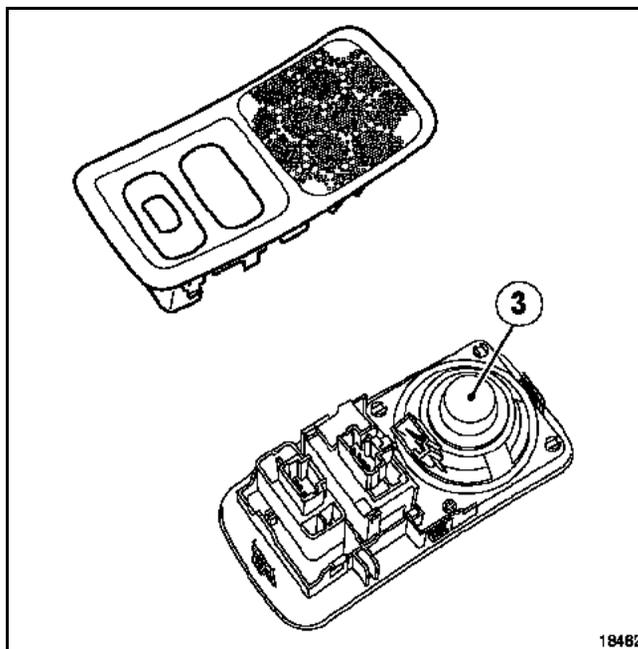
Special notes on the Trafic II

The speaker used for the navigation system is the front right-hand radio speaker.

Special notes on the Avantime

The special system speaker (**4**) is positioned near to the central keyboard light.

19955M
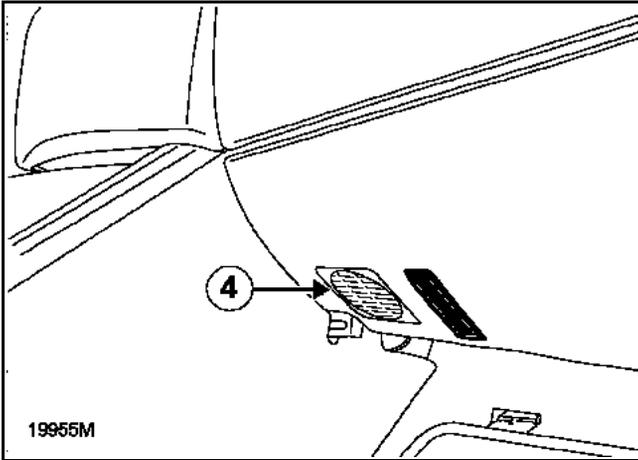
Special notes on the Mégane II

The special system speaker (**A**) is located beneath the upper section of the dashboard.

102301
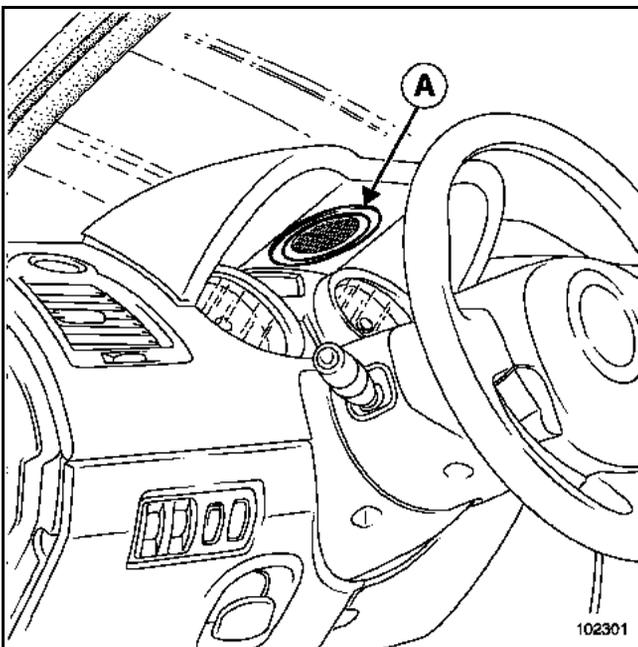
Note:
To remove it, unclip the upper section of the instrument panel (see Workshop Repair Manual **364**).

Special notes on the Scénic II

To remove the speaker, remove the lower trim from the dashboard.

103599
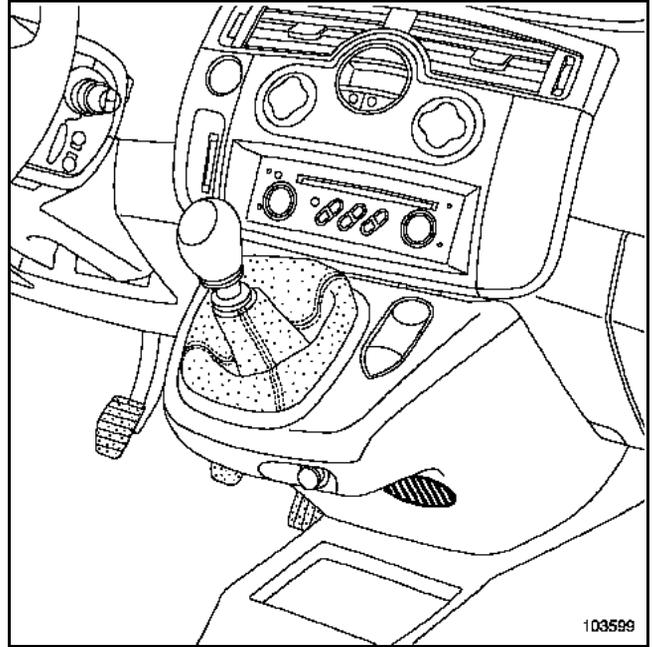
Special notes on the Espace IV

Vehicle with voice synthesiser.
The navigation speaker (**1**) is the same as the voice synthesiser one if the vehicle is equipped with both features.
Messages are controlled by the Central Communications Unit.

Vehicle without voice synthesiser.
The navigation speaker (**1**) is under the dashboard on the driver's side.

100224
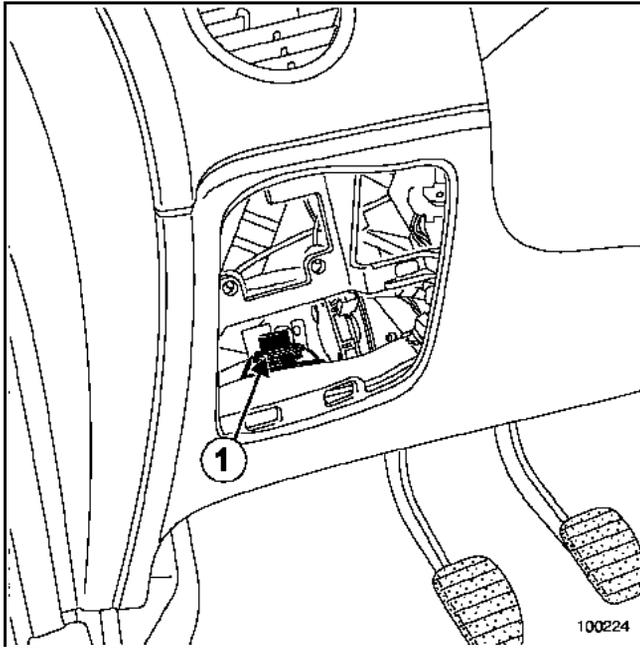
INITIALIZATION

This procedure must be followed every time a part is replaced.

> **WARNING**
> If the vehicle is fitted with a radio, it must be switched on during initialisation. If it is not, the steering wheel radio control will not function and the screen will not display radio data.

1 Switch off the ignition,
2 Wait until the system completely shuts down (about **1 minute**).
3 Switch the radio on,
4 Switch on the ignition (wait approximately **20 seconds**),
5 Press the buttons simultaneously (see table).
6 Read the vehicle part number (refer to the table).
7 Carry out the steering wheel control test,
8 The satellite aerial connection (connected / not connected to GPS) appears on the screen,
9 Ignore radio aerial and telephone tests,
10 Exit setting using the rotary switch,
11 Switch off the ignition (**1 minute**).

> Note:
> If the configuration does not correspond to the vehicle, check the vehicle wiring (multiplex lines) and the part numbers of the components.

INITIALIZATION

Vehicles	Keys
Clio II:	**M and C**
Trafic II	**M and C**
Mégane and Scénic	"−" and "→"
Mégane II	**M and C**
Scénic II	**M and C**
Laguna II	**M and C**
Vel Satis	**M and C**
Avantime	**M and C**
Espace IV	**M and C**

System configurations

Vehicles	without radio	Entry level radio	Top of the range radio
Clio II:	0312	0302	-
Trafic II	0612	0602	-
Mégane and Scénic	1612	1602	-
Mégane II	1312	1326	1327
Scénic II	1412	1402	1407
Laguna II	0012	0002	0007
Vel Satis	-	0102	0107
Avantime	0412	-	-
Espace IV	-	0207	0217

Upgrading the navigation CD-ROM reader software takes about **5 minutes**.

If the CD-ROM is ejected during installation, carefully clean it, then reinsert it into the reader. The system will restart automatically.

1   Switch on the ignition without starting the engine.

WARNING
Do not switch off the ignition during this operation or the navigation system will become unusable.

---

2   Select **OK** on the Navigation system welcome screen.
3   Select **Navigation** from the main menu.
4   Eject the map CD-ROM by pressing the Eject button on the front of the CD-ROM reader. See the **Navigation Assistance** Technical Note for the location of the parts.
5   Insert the CD-ROM labelled **Languages CD - Nav5 All Versions**.
6   Once the CD-ROM has been detected (which takes a few seconds), the system asks: **"Install software?"**.
7   Select **Yes** if the current version displayed and new version differ.

Note:
If both versions are identical, select **No**: the system already has the new software. The system then automatically ejects the **Languages CD - Nav5 All Versions**. Insert the map CD-ROM into the reader.

---

8   A wait message is then displayed for about **15 seconds** before the screen goes black.
9   After about 10 seconds, the system indicates it will update the software (**"The installation program will update your system"**).

10   Wait approximately **2 minutes**. A **progress bar** appears. It enables you to track the progress of the software upgrade.

Note:
The **"progress bar"** may remain at 100% for a few seconds. This is normal system operation.

---

11   Once the upgrade is finished, the system automatically ejects the **"Languages CD - Nav5 All Versions"**.
12   The system then reboots with a message: **"The system will reboot now"**.
13   The screen goes black and the RENAULT logo appears.
14   Next the system displays the **"Navigation"** menu.
15   The system upgrade is now completed. Insert the map CD-ROM into the reader.

Note:
The **"Languages CD - Nav5 All Versions"** must be used instead of the old one to install new languages into the system.

The system will be programmed in French by default after the navigation computer has been replaced.

You must carry out these two operations to change the language:

● **Change menus language**

1　With the ignition switched on, press the eject button to remove the electronic navigation computer cartographic CD-ROM

2　The screen will display the message **No CD in reader**.

3　Confirm **OK** by pressing the rotary knob.

4　Select the **Language** menu.

● **Change voice messages**

1　With the ignition switched on, press the eject button to remove the electronic navigation computer cartographic CD-ROM

2　The screen will display the message **No CD in reader**.

3　Confirm **OK** by pressing the rotary knob.

4　Select the *** Configurations** menu then **Language**.

> Note:
> If the desired language does not appear in the menu, do the following:

1　Select **other language**.

2　The system prompts you to insert the language CD-ROM.

3　Insert the CD-ROM, and then press the rotary knob to confirm.

4　Select the language to be replaced (language 1 or 2) by turning the knob.

5　Use the rotary knob to select the language to load from the list of available languages stored on the CD-ROM and then confirm **load**.

6　Wait a few seconds. The screen will turn black and then white and display a message in black and red with a horizontal bar to show the loading time remaining.

7　When loading is complete, the language CD-ROM is ejected from the reader and **OK** is displayed on screen.

8　Continue with voice message changing procedure.

9　Reinsert the cartographic CD-ROM into the reader.

	Country languages available in the system	Country languages available in the manual
French	yes	yes
German	yes	yes
English (GB)	yes	yes
English (USA)	yes	NO
Dutch	yes	yes
Spanish	yes	yes
Italian	yes	yes
Swedish	yes (except system menus)	NO
Danish	yes (except system menus)	NO
Portuguese	NO	NO
Czech	NO	NO
Slovak	NO	NO

The vehicle has to be relocated after the electronic navigation computer has been replaced or the battery disconnected.

Drive the vehicle to an open area outdoors and wait for a few minutes with the ignition switched on.

When the satellite reception is good, a **green** pictogram (**1**) is displayed on screen.
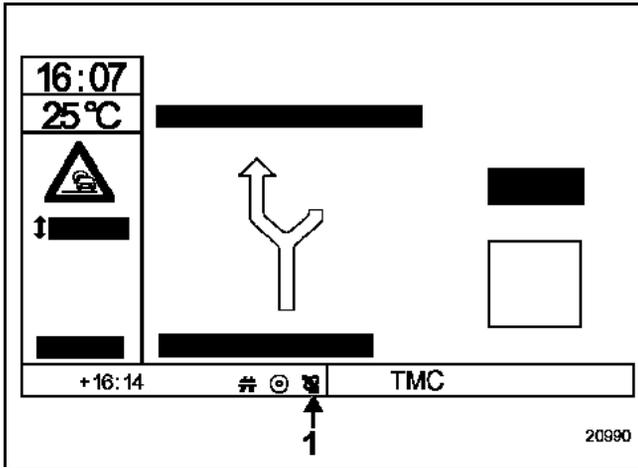
If the vehicle is not correctly located on the map, drive the vehicle to along various main roads on the mapped routes (**0.6 to 1.8 miles (1 to 3 km)** necessary).

Note:
The localisation operation may take up to **20 minutes** maximum.

```
                            ┌─────────────────┐
                            │ Welcome message │
                            └─────────────────┘
        ┌──────────────┬──────────────┼──────────────┬──────────────┐
┌──────────────┐ ┌──────────────┐ ┌──────────────┐ ┌──────────────┐
│  Navigation  │ │  Adjustments │ │  Language *  │ │   Monitor *  │
└──────────────┘ └──────────────┘ └──────────────┘ └──────────────┘
```

Navigation
– guidance
– map
– address book
– monitor
– emergency
– configuration

Language *
Change voice messages language

Adjustments

```
        ┌──────────────┬──────────────┐
┌──────────────┐      ┌──────────────┐
│    Clock     │      │    System    │
└──────────────┘      └──────────────┘
```

Clock
Adjusting the set time

System
(Expert mode)
Code: 4112

```
        ┌──────────────┬──────────────┬──────────────┐
┌──────────────┐   ┌──────────────┐   ┌──────────────┐
│ System test  │   │    Config    │   │ Functions test│
└──────────────┘   └──────────────┘   └──────────────┘
```

System test

```
        ┌──────────────┬──────────────┐
┌──────────────┐      ┌──────────────┐
│ Keyboard Test│      │   Bus Test   │
└──────────────┘      └──────────────┘
```

Bus Test
– CAN V
– CAN M
– I I C

Keyboard Test

```
        ┌──────────────┬──────────────┐
┌──────────────┐      ┌──────────────┐
│   satellite  │      │   keyboard   │
└──────────────┘      └──────────────┘
```

Config
– configuration
– Central Communications Unit type
– software version
– date of manufacture
– 12 NC
– checksum

Functions test

```
        ┌──────────────┬──────────────┐
┌──────────────┐      ┌──────────────┐
│   RDS/TMC    │      │    Vehicle   │
└──────────────┘      └──────────────┘
```

RDS/TMC
– frequency
– reception level
– RDS quality:

Vehicle
– Speed
– + after ignition feed
– + ACC
– tyre pressure monitor
– battery voltage
– seat belt
– + light
– reverse gear
– external temperature

* depending on the version

Welcome message

- Adjustments
- Navigation
- Language *
- Monitor *

Navigation:
- Guidance
- Card
- Address book
- Configuration
- Emergency
- Monitor

Configuration:
- Language
- Guidance modes
- Screen config
- Traffic information
- System information
- Units
- Volume

Language:
Changing the menu language

Screen config:
– day colour
– state line
– card colour
– night colour
– brightness adjustment

Volume:
– SDVC
– voice messages
– volume

System information:
- Fault finding
- Configuration
- Speed correction
- Pre-adjustments

Configuration:
– series number
– product model
– software version
– week of manufacture
– year of manufacture
– CBS software version

Fault finding:
(Code) 4112

- Read GPS data
- Read errors
- Read I/O states
- Simulation
- Restricted access *

Read GPS data:
– sensor status
– longitude
– latitude
– geographical height
– number of satellites

Read I/O states:
– tachograph pulse
– internal temperature
– battery
– injection button
– steering

Simulation:
– usable simulation
– unusable simulation

*   depending on the version

SCREEN DOES NOT OPEN	CHART 1
INCORRECT SCREEN ANGLE OR SCREEN FREEZES	CHART 2
THE SCREEN STAYS BLACK	CHART 3
SCREEN IS BACKLIT OR FROZEN ON THE RENAULT LOGO	CHART 4
SCREEN DISPLAY FROZEN	CHART 5
SCREEN DISPLAYS "CONFIGURATION ERROR"	CHART 6
NO RADIO DISPLAY ON THE CARMINAT SCREEN (OR THE RADIO DISPLAY REMAINS FROZEN)	CHART 7
WRONG TIME DISPLAYED	CHART 8
NO CLOCK DISPLAY	CHART 9
NO TYRE PRESSURE SYSTEM DISPLAY	CHART 10
TYRE PRESSURE MONITORING SYSTEM DATA DISPLAYED ON VEHICLE WITHOUT IT	CHART 11
NO OPENING ELEMENT SYMBOL DISPLAY	CHART 12
NO SEAT BELT WARNING LIGHT DISPLAY	CHART 13
NO VOICE MESSAGES	CHART 14
NO TRAFFIC INFORMATION MESSAGE ON THE SCREEN	CHART 15
POOR SATELLITE RECEPTION	CHART 16
NO RADIO DATA ON THE INSTRUMENT PANEL (OR RADIO DATA NOT REFRESHED)	CHART 17
TIME AND TEMPERATURE DATA ON INSTRUMENT PANEL AND NAVIGATION SCREEN NOT THE SAME	CHART 18
IF THE VEHICLE JUMPS AROUND THE MAP DURING GUIDANCE, THE SYSTEM IS DOING FREQUENT CALCULATIONS OR THE GUIDANCE IS FAULTY	CHART 19

MEGANE II	

CHART 1	**Screen does not open**

Check whether the screen opens manually. Press the "**ON/OFF**" button in front of the screen.

↓

Does the screen open? —— no ——

yes
↓
(A)

Switch on the lights. Check that the indicator lights on the keys in front of the screen light up.

↓

Do the indicator lights come on? —— no ——

Check the Central Display Unit power supply (tracks 1 and 9) and earth (track 7).

yes
↓

Switch of the ignition for 1 minute. Switch on the ignition and, without pressing the "**eject**" button, check that the CD-ROM drive indicator light comes on.

↓

Does the indicator light come on? —— no ——

yes
↓

It is a mechanical fault or an end-stop programming fault. Disconnect and reconnect the battery. If the problem persists, replace the Central Display Unit after obtaining authorization from Techline.

Check the power supply (ignition off = **0 V**; ignition on = **12 V**):
– to the Central Communications Unit on track 7,
– to the navigation CD-ROM reader on track 6,
– to the Central Display Unit on tracks 17 et 18.

MEGANE II

CHART 1 (continued)	

(A)

Check whether the screen opens automatically. Press the **"ON/OFF"** button to close the screen, or press on the rotary knob.

Does the screen open? — no

yes

Check the multiplex link (multimedia):
– between the Central Communications Unit and the Central Display Unit,
– between the Central Display Unit and the navigation CD-ROM reader.
Refer to the **"Wiring diagrams"** Technical Note.

Are the connections correct? — no

yes

Repair the wiring. Check the other navigation system functions.

Activate the screen display several times. The problem may be due to a hard point in the Central Display Unit. If the problem persists, replace the Central Display Unit after obtaining authorization from Techline.

MEGANE II

CHART 2	Incorrect screen angle or screen freezes

```
┌─────────────────────────────────────────────┐
│  Incorrect screen angle or screen freezes.   │
└─────────────────────────────────────────────┘
                       │
                       ▼
┌─────────────────────────────────────────────┐
│      Press the screen "ON/OFF" button.       │
└─────────────────────────────────────────────┘
                       │
                       ▼
┌─────────────────────────────────────────────┐
│  Disconnect and reconnect the battery to reset the │
│  Central Display Unit and reprogram the end stops. │
└─────────────────────────────────────────────┘
                       │
                       ▼
┌─────────────────────────────────────────────┐
│      Press the screen "ON/OFF" button.       │
└─────────────────────────────────────────────┘
                       │
                       ▼
┌─────────────────────────────────────────────┐
│  If the problem persists, replace the Central Display │
│  Unit after obtaining authorization from Techline.   │
└─────────────────────────────────────────────┘
```
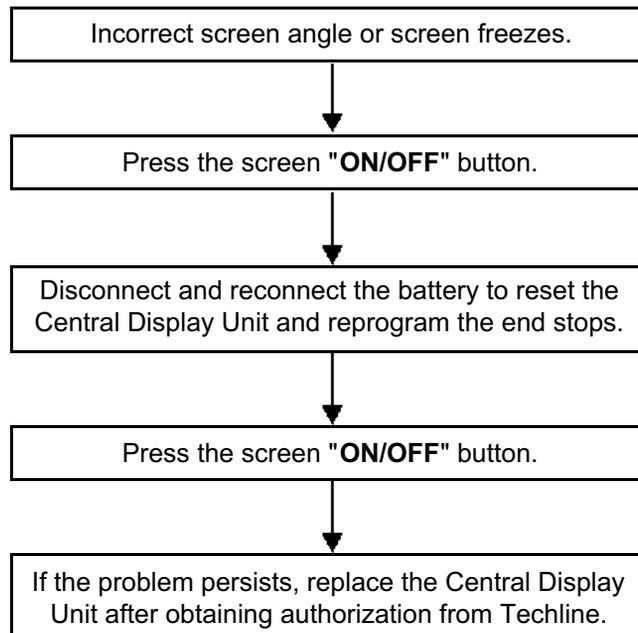
CHART 3	Screen stays black (not lit up)

Check the navigation CD-ROM reader's power supply. Switch the ignition off for more than **1 minute**, then press the **eject** button.

Does the red light come on?

— no →

Check the green connector on the navigation CD-ROM reader:
– **+ 12 V** feed (track 1),
– the earth (track 9).

Did it pass the tests?

— no →

Check the power fuse and wiring (see the "**Wiring Diagrams**" Technical Note).

— yes →

Replace the navigation CD-ROM reader after obtaining authorisation from Techline.

— yes (below Does the red light come on?)

Check the Central Communications Unit power supply. Turn the ignition on and switch on the lighting.

Does the Central Communication Unit light up?

— no →

Test the green connector on the Central Communications Unit:
– **+ 12 V** feed (track 10),
– + accessories feed (track 9),
– the earth (track 12).

Did it pass the tests?

— no →

Check the power fuse and wiring (see the "**Wiring Diagrams**" Technical Note).

— yes →

Replace the Central Communications Unit after obtaining authorisation from Techline.

— yes (below Does the Central Communication Unit light up?)

(A)

CHART 3 (continued)	

(A)

Check the connection between the Central Communications Unit and the navigation CD-ROM reader. Switch the ignition off for more than **1 minute**, then switch it on again. The navigation CD-ROM reader's red light should come on.

Does the red light come on? — no →

Check the navigation CD-ROM reader's power supply (track 6) on the Central Communications Unit grey **connector** (track 7):
– ignition off = **0 V**,
– ignition on = **12 V**.

Did it pass the tests? — no →

Replace the Central Display Unit after obtaining authorisation from Techline.

yes ↓ (Does the red light come on?)

Check the connection between the navigation CD-ROM reader and the screen:
– + **12 V** feed (tracks 15 and 16)
– earth (tracks 2 and 9),
– alarm feed (track 12) (on = **12 V** - off = **0 V**).

yes ↓ (Did it pass the tests?)

Check the wiring between the Central Communications Unit, Central Display Unit, and navigation CD-ROM reader.
If the wiring is okay, replace the navigation CD-ROM reader after obtaining authorisation from Techline.

Did it pass the tests? — no →

yes ↓

If the wiring is okay, **replace the screen** after obtaining authorisation from Techline.

If the wiring is okay, **replace the navigation CD-ROM reader** after obtaining authorisation from Techline.

CHART 4	Screen blank or frozen on RENAULT logo

Check the software compatibility between the components. Switch on the ignition, check if the keyboard flashes.

Is the keyboard flashing?

no →

yes ↓

The vehicle has a problem with an incompatible Central Communications Unit and navigation CD-ROM reader. Check the part numbers in the Spare Parts Catalogue (contact Techline).

The system has not been configured. Initialise the system (refer to the **Initialisation** section).

Does the screen display the configurations?

no →

yes ↓

Check the multimedia multiplex connections between the Central Communications Unit, Central Display Unit, radio amp/tuner and navigation CD-ROM reader.

Turn off the system (**1 minute**). The problem disappears. Check the overall operation of the system.

CHART 5	The display on the screen stays fixed

The on screen display is frozen (on a road map or other screen). Turn off the ignition and wait until the system shuts down completely (**at least 1** minute). Switch on the ignition again.

Has the fault disappeared?

no

Check the multiplex link between the Central Communications Unit (tracks 3 and 4) and the Central Display Unit (tracks 15 and 16).

yes

Given the system's complexity and numerous functions, it may lock up from time to time. If the fault is still present, contact your Techline.

no

Did it pass the tests?

Repair.

yes

Check the multiplex link between the CD-ROM reader (tracks 9 and 18) and the Central Display Unit (tracks 15 and 16).

no

Did it pass the tests?

Repair.

yes

Replace the navigation CD-ROM reader after obtaining authorisation from Techline.

EXCEPT MEGANE II

CHART 5	The display on the screen stays fixed

The on screen display is frozen (on a road map or other screen). Turn off the ignition and wait until the system shuts down completely (**at least 1** minute). Switch on the ignition again.

↓

Has the fault disappeared? —— no ——→

yes ↓

Given the system's complexity and numerous functions, it may lock up from time to time. If the fault is still present, contact your Techline.

Test the multiplex link between the Central Communication Unit &newln (tracks 3 and 4) and the CD-ROM reader (tracks 9 and 18).

↓

Did it pass the tests?

no ←——

yes ↓

Repair.

Replace the navigation CD-ROM reader after obtaining authorisation from Techline.

CHART 6	83C-68
	The screen displays "configuration error"

Turn off the ignition and wait until the system shuts down completely (**about 1 minute**). With the radio on, initialise the system (see **Initialisation**).

↓

Does the configuration number match the vehicle?

— **no** →

yes ↓

Given the system's complexity and numerous functions, it may lock up from time to time. If the fault is still present, contact your Techline.

The fault is not linked to the navigation system. Carry out a fault finding procedure on the vehicle (multiplex network test) using a diagnostic tool.

CHART 7	No radio display on the Carminat screen or the screen display is frozen ("Entry Level" radio)

No radio display on the Carminat screen. **Check that the radio is being supplied** and emits sound. If not, see the "**Low-end radio**" Technical Note.

Is the navigation welcome message displayed?

no → The screen is black or backlit, **see the pertinent fault finding chart**.

yes

When the radio is switched on, **carry out the setting procedure**.

Check the configuration number (see the "**Initialisation**" section).

Is the configuration okay?

no → **B**

yes

The problem disappears. **Exit from the initialisation procedure** and switch off the system. Check the overall operation of the system.

CHART 7 (continued)	

B

With the radio switched on, run a self-test procedure on the Central Communications Unit to check the **"IIC BUS"**.

Does the self-test procedure display **"BUS IIC: OK"**?

no →

yes ↓

Test the voltage on the grey connector of the Central Communications Unit (track 27):
– radio on = **12 V**,
– radio off = **0 V**.

Does the voltage vary?

no →

yes ↓

Test the continuity of the wiring between the radio and the Central Communications Unit. If the wiring is okay, **replace the radio** after obtaining authorisation from Techline. See the "**Low-end radio**" Technical Note.

Replace the Central Communications Unit after obtaining authorisation from Techline.

CHART 7	No radio display on the Carminat screen or the screen display is frozen ("Top of the Range" radio)

The Carminat screen is working except for the radio display. **Make sure the radio is receiving power** and emits sounds; if not, see the "**High-end radio**" Technical Note.

When the radio is switched on, **carry out the setting procedure**. Check the configuration number (see the "**Initialisation**" section).

Is the configuration okay? — no

Test the voltage on the grey connector of the Central Communications Unit (track 27):
– radio on = **12 V**,
– radio off = **0 V**.

yes

The problem disappears. **Exit the initialisation procedure** and turn off the system for **at least 1 minute**. Check the overall operation of the system.

Does the voltage vary?

no

yes

Check the continuity of the wiring between the amp/tuner and the Central Communications Unit, Central Display Unit, and navigation CD-ROM reader. If the wiring is okay, **replace the amp/tuner** after obtaining authorisation from Techline (see the **"High-end radio"** Technical Note).

Replace the Central Communications Unit after obtaining authorisation from Techline.

CHART 8	Wrong time displayed (see the Screen section for how to confirm the problem).

Position the vehicle outside in a good reception area and check the satellite reception. The satellite icon must be green at the bottom of the screen.

Is the icon green?

no

yes

Use the menus to set the time, move the vehicle outdoors and turn on the system. Wait a few seconds. If the time is wrong, replace the navigation CD-ROM reader after obtaining authorisation from Techline.

See the fault finding chart on "Poor satellite reception".

CHART 9	No time displayed (see the Screen section for how to confirm the problem).

No clock display.

↓

With the radio on, initialise the system (refer to the **Initialisation** section). Check the configuration numbers.

↓

Does the configuration number match the vehicle?

— no → The fault is not linked to the navigation system. Check the vehicle configurations (instrument panel, etc.).

yes ↓

On-screen, check the location of the time display (empty rectangle or dashes).

↓

Is it in place?

— no → Replace the Central Communications Unit after obtaining authorisation from Techline.

yes ↓

Replace the navigation CD-ROM reader after obtaining authorisation from Techline.

CHART 10	No tyre pressure system display (see Screen section for how to confirm the problem).

The tyre pressure system symbol is not displayed on the screen. Turn off the ignition and wait until the system shuts down completely (**1 minute**). Switch the ignition back on:

Is the fault still present?

— no →

Check the tyre pressure monitoring system is functioning correctly using the diagnostic tool.

yes

Run a system self-diagnostic procedure to check that the **"CAN V BUS"** is working.

Does the self-test display **CAN V: OK**?

— no →

Carry out a multiplex network test with the diagnostic tool.

yes

Is the multiplex network okay?

— no →

yes

Check that the system is working properly using the diagnostic tool.

The fault is not linked to the navigation system. Check the vehicle wiring. Refer to the **"Wiring diagrams"** Technical Note.

If the problem persists, replace the Central Communications Unit after obtaining authorization from Techline.

CHART 11	**Tyre pressure monitor data displayed on a vehicle not equipped with it**

Tyre pressure monitoring system data displayed on a vehicle without that feature (see the **Screen** section for how to confirm the problem).

↓

With the radio on, initialise the system and check the configuration numbers (see **Initialisation**).

↓

Does the configuration number match the vehicle? — no →

yes ↓

The fault is not linked to the navigation system. Check the vehicle configurations (instrument panel, etc.).

Check the software compatibility of the parts and the part numbers.

CHART 12	No opener symbol display (see Screen section for how to confirm the problem).

The opening element symbol display does not appear on the screen. Turn off the ignition and wait until the system shuts down completely (**1 minute**). Switch on the ignition again.

Is the fault still present?

— no → Check that the system is working properly using the diagnostic tool.

— yes ↓

Run a system self-diagnostic procedure to check that the **"CAN V BUS"** is working.

Does the self-diagnostic procedure display CAN V: OK?

— no → Carry out a multiplex network test with the diagnostic tool.

— yes ↓

The fault is not linked to the navigation system. Check the vehicle wiring. Refer to the **"Wiring diagrams"** Technical Note.

Is the multiplex network okay?

— no → (to left)

— yes ↓

Check that the system is working properly using the diagnostic tool.

↓

If the problem persists, replace the Central Communications Unit after obtaining authorization from Techline.

CHART 13	No seat-belt indicator displayed (see the Screen section for how to confirm the problem).

The seat belt warning light display is not working. Carry out a self-test procedure on the Central Communication Unit to check the condition of the "**Seat belt**" input (wait about **5 seconds** for each change of state).

↓

Test the voltage on the grey connector of the Central Communications Unit
(track 24):
– seat belt buckled = **12 V**,
– seat belt unbuckled = **0 V**,

↓

Does the voltage vary?

— no → **The problem is not associated with the navigation system.** Check the vehicle wiring (refer to the **"Wiring Diagrams"** Technical Note).

yes ↓

Replace the Central Communications Unit after obtaining authorisation from Techline.

CHART 14	No voice messages

Check whether the voice-synthesiser off icon at the bottom of the screen is off (see **Screen** section).

Is it no unlit

no → **Press the C button.** The pictogram should go out.

Is it no unlit

no → In the **Volume** menu, change the **voice messages** parameter. The pictogram should go out.

Is it no unlit

no →

yes →

yes

yes ↓

If the vehicle is fitted with a separate keyboard, **carry out a self-diagnostic procedure. If the keyboard is built-in, replace the Central Communications Unit** after obtaining authorisation from Techline.

Press the '+' and '-' button on the keyboard several times.

C

Does the system work?

no →

yes ↓

Does the keyboard work?

yes →

no ↓

Replace the CD-ROM reader after obtaining authorisation from Techline.

Replace the Central Communications Unit after obtaining authorisation from Techline.

Replace the keyboard after obtaining authorisation from Techline.

CHART 14 (continued)	

C

Do you hear the message **louder**?

— yes → Restart guidance in the mapped area.

— no ↓

Replace the navigation speaker with another (e.g. vehicle tweeter) and press the '+' and '-' button.

Does the voice synthesiser work?

— no → Check the wiring between the Central Communications Unit and the navigation CD-ROM reader. If the wiring is okay, replace the navigation Central Communications Unit after obtaining authorisation from Techline. If the problem persists, replace the navigation CD-ROM reader.

— yes ↓

The vehicle was in an unmapped area.

Do you hear the message **"louder"** and **"lower"** message?

— no → If the vehicle is fitted with the **voice synthesizer option, check if it works**.

— yes ↓

Replace the navigation speaker.

Does the vehicle's voice synthesiser work?

— no → **Test the connection** between the Central Communications Unit and voice synthesiser speaker. If everything is okay, **replace** the Central Communications Unit after obtaining authorisation from Techline. If the problem persists, change the CD-ROM reader.

— yes → Check the wiring between the Central Communications Unit and the navigation CD-ROM reader. If the wiring is okay, replace the navigation CD-ROM reader after obtaining authorisation from Techline.

CHART 15	No traffic info message on the screen

The traffic information function works with the radio aerial. The **"TMC"** icon (which can be replaced by the name of the traffic info broadcaster) must be green for the system to process the traffic info. Before conducting the test, take the vehicle outdoors to an open area. Leave the vehicle outside for a few minutes for the broadcast reception to stabilise.

What colour is the TMC icon?

red → (to "Does the vehicle have short or screen-printed aerial?")

black → (to "The map CD-ROM lacks the TMC Locator Table function...")

Green →

No TMC events transmitted by the broadcaster. Contact Techline for additional information. The system is working properly.

Does the vehicle have short or screen-printed aerial?

no → **D**

yes →

Check the aerial amplifier feed via the Central Communications Unit (track 2, grey connector):
− system on = **12 V**,
− system off = **0 V**.

The map CD-ROM lacks the TMC Locator Table function. If a version of the map CD-ROM with a locator table appears, suggest the customer acquire the latest version CD-ROM. The system is working properly.

Is the voltage correct?

no →

yes → **D**

Check the vehicle wiring. If the wiring is okay, replace the Central Communications Unit after obtaining authorisation from Techline.

CHART 15 (continued)	

D

Check:
– **the aerial connections** to the Central Communications Unit, to the aerial base and the cut-off plate,
– **the bent or clamped wires**,
– **tightening** of the aerial base,
– wiring continuity and insulation.

Are they OK?

no

yes

Repair or replace.

Replace the radio aerial after obtaining authorisation from Techline.

CHART 16	Poor satellite reception

Poor satellite reception: the pictogram is red.

With the radio on, initialise it (refer to the **Initialisation** section). The initialisation procedure includes a satellite reception aerial test.

Does the screen display **GPS aerial connected**?

no →

Check the aerial connections to the CD-ROM player, to the aerial base and the cut-off plate.

Are they OK?

no →

Repair.

yes ↓

Using a multimeter, check the cut-off plate voltage (computer side). The voltage between core and body should be > 4.5 V.

Is the voltage correct?

no →

Replace the satellite aerial after obtaining authorisation from Techline.

no ↓

(E)

yes ↓

Exit the initialisation procedure and turn off the system for about 1 minute. The fault is caused by geographical disturbance The relocation procedure can last up to about **20 minutes** outdoors in an open area. The pictogram should be green.

CHART 16 (continued)	

E

Using a multimeter, check the computer aerial output voltage. The voltage between core and body should be > **4.5 V**.

Is the voltage correct?

no

yes

Replace the navigation CD-ROM reader after obtaining authorisation from Techline.

Replace the aerial wire after obtaining authorisation from Techline.

MEGANE II

CHART 17	**No radio display on the instrument panel or radio data on the instrument panel not refreshed**

Open the navigation screen and check the display of radio data on the Carminat screen. Change stations and adjust the volume to make sure the display is not frozen.

↓

Does the screen display radio data? — no →

yes ↓

Check the instrument panel for faulty radio information display. Check:
– the multiplex links (multimedia) between the instrument panel and the navigation system (Central Communications Unit or navigation CD-ROM reader),
– the **"ON/OFF EXT"** connection between the Central Communications Unit and the instrument panel. Refer to the **"Wiring diagrams"** Technical Note.

When the radio is switched on, **carry out the setting procedure**. Check the configuration number (see the "**Initialisation**" section). Refer to the relevant fault finding chart.

↓

Are the measurements correct? — no →

yes ↓

Replace the instrument panel after receiving authorisation from your Techline.

Check the vehicle wiring. The fault is not linked to the navigation system.

MEGANE II

CHART 18	Time and temperature data displayed on instrument panel and navigation screen not the same

Difference between the time or temperature displayed on the navigation screen and the instrument panel: open the navigation screen and check the radio data displayed on the Carminat screen. Check that the time and temperature are displayed on the navigation screen.

Are they displayed?

no → Refer to the relevant fault finding chart.

yes ↓

Check the radio data displayed on the screen.

Are they displayed?

no → Refer to the relevant fault finding chart.

yes ↓

Reminder: when there is a loss of communication between the navigation system and the instrument panel, the time and the temperature are managed independently by each system. Therefore the difference is small.

↓

Check the multiplex link (multimedia) between the instrument panel and the navigation system (Central Communications Unit or CD-ROM reader).

↓

Is there a difference in the data?

no → Check the vehicle wiring. The fault is not linked to the navigation system.

yes ↓

Replace the instrument panel after receiving authorisation from your Techline.

MEGANE II

CHART 19	The vehicle jumps around the map during guidance, the system calculates very frequently or the guidance is incorrect

If the vehicle jumps around the map during guidance, the system is making frequent calculations or the guidance is faulty.

↓

Make sure the "**simulation**" option is switched off.

↓

In the menus, select "**simulation unusable**".

↓

Turn off the system, then test functioning.

↓

If the problem persists, check the part numbers (horizontal instead of vertical CD-ROM reader) and the version of the map CD-ROM.
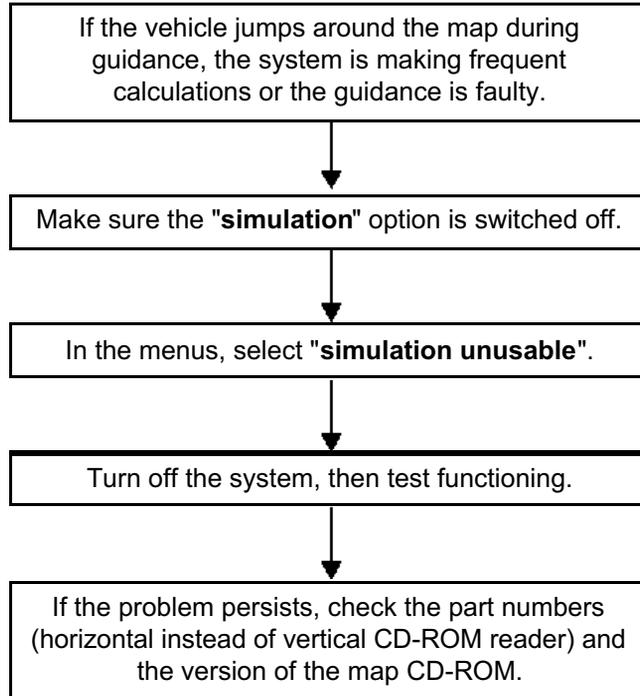
FAULT FINDING LOG

System: Navigation

List of monitored parts: **Computer**

● **Administrative identification**

Date: | | | | 2 | 0 | | |

Sheet completed by:

VIN:

Engine

● **Customer complaint**

	1164	Reception fault		1161	Problem with opening or closing the screen		1158	Guidance voice message fault
	1163	Sound fault on a speaker		1160	Faulty control on radio front panel		1157	Satellite reception problem (GPS)
	1162	Problem playing the CD-ROM (single disc)		1159	Display fault		1156	Navigation guidance fault

Other — Your comments

● **Conditions under which the customer complaint occurs**

	999	Constant frequency		999	Regular frequency		999	Intermittent frequency
	999	Low temperature conditions		999	Ambient heat		999	Very great heat
	003	Engine stopped		999	Engine running		999	When starting
	999	In town		999	In the country		999	In mountainous regions
	007	When accelerating		008	When decelerating		999	During impacts / vibrations

Other — Your comments

● **Documentation used in fault finding**

Fault finding procedure		
Type of fault finding manual:	Workshop Repair Manual: Technical Note ❏ Assisted fault finding ❏	
Fault Finding Manual No.:		
Wiring diagram used		
Wiring Diagram Technical Note No.:		
Other documentation		
Title and/or part no.:		

RENAULT

FD 98
Fault finding log

FAULT FINDING LOG

System: Navigation

● <u>**System-specific information**</u>

Description:

● <u>**Additional information**</u>

Was the navigation system fitted in factory?	
Have you checked the supplies?	
Have you checked the earths?	
Have you checked the component connections (radio navigation unit, Central Communications Unit, CD-ROM drive, display or screen)?	
Have you checked the aerial amplifier connections to the "printed circuit"?	
Have you checked the satellite reception aerial connections?	
Your comments	

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Fault finding log