

MEGANE

8 Electrical equipment

86C MULTIMEDIA

NAV 4R

Program no.: 0000

Vdiag No.: 24

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1. SCOPE OF THIS DOCUMENT

This document presents the fault finding procedure applicable to all computers with the following specifications:

Vehicle(s): Mégane II ph2, Master ph2 and ph3,
Master propulsion ph2 and ph3, Laguna II ph2,
Traffic II ph1 and ph2, Scénic II ph2

Function concerned: 4R Radio Navigation

Name of computer: 4R Radio Navigation
Computer

Program No.: 0000

Vdiag No.: 24

2. PREREQUISITES FOR FAULT FINDING

Documentation type

Fault finding procedures (this manual):

- Assisted fault finding (integrated into the diagnostic tool), Dialogys.

Wiring Diagrams:

- Visu-Schéma (CD-ROM),

Type of diagnostic tools

- CLIP + multiplex line probe

Special tooling required

Special tooling required	
	Multimeter
Elé. 1681	Universal bornier

3. RECAP

For commercial vehicles, fault finding can only be run on the 4R Radio Navigation Computer by clicking on the Fault finding - NAV4R Central Communication Unit - Commercial vehicles icon in the Help directory on the CLIP computer desktop.

To run fault finding on the vehicle's computers,

Proceed as follows, depending on the type of equipment:

For vehicles with radio frequency remote control/key,
switch on the ignition with the key.

For vehicles with a Renault card,

to save energy, the vehicle's UCH cuts off the + after ignition feed after a certain period of time. It is essential to force the + after ignition feed by applying the following procedure:

- with the vehicle card in the card reader,
- press and hold (5 seconds +) the Start button with starting conditions not fulfilled until the diode on the instrument panel starts to flash rapidly,
- connect the diagnostic tool and perform the required operations.

To cut off the + after ignition feed, proceed as follows:

For vehicles with key/radiofrequency remote control, use the key to switch off the ignition.

For vehicles with a Renault card,
press the Start button twice briefly (less than 3 seconds),
Ensure that the + after ignition feed has been cut off by checking that the computer indicator lights on the instrument panel have gone out.

Faults

Faults are declared **present** or **stored** (depending on whether they appeared in a certain context and have disappeared since, or whether they remain present but are not diagnosed within the current context).

The **present** or **stored** status of faults should be taken into consideration when the diagnostic tool is switched on after the + after ignition feed (without any system components being active).

For a **present fault**, apply the procedure described in the **Interpretation of faults** section.

For a **stored fault**, note the faults displayed and apply the instructions in the **Notes** section.

If the fault is **confirmed** when the instructions in the Notes section are applied, the fault is present. Deal with the fault.

If the fault is **not confirmed**, check:

- the electrical lines which correspond to the fault,
- the connectors on these lines (corrosion, bent pins, etc.),
- the resistance of the component detected as faulty,
- the condition of the wires (melted or split insulation, wear).

Conformity check

The aim of the conformity check is to check data that does not produce a fault on the diagnostic tool because the data is inconsistent. Therefore, this stage is used to:

- carry out fault finding on faults that do not have a fault display, and which may correspond to a customer complaint.
- check that the system is operating correctly and that there is no risk of a fault recurring after repairs.

This section gives the fault finding procedures for statuses and parameters and the conditions for checking them.

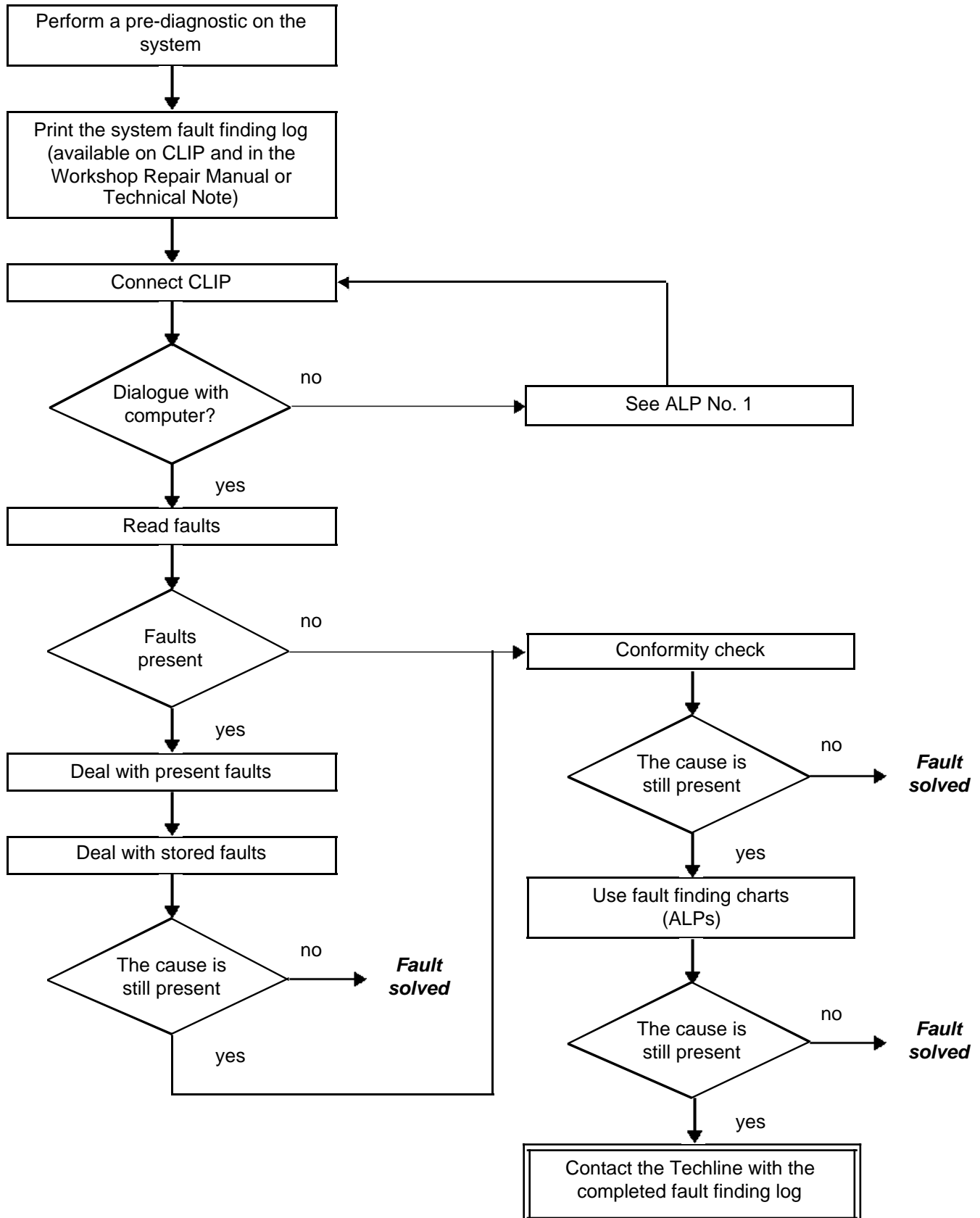
If a status is not behaving normally or a parameter is outside the permitted tolerance values, consult the corresponding fault finding page.

Customer complaints - Fault finding chart

If the test with the diagnostic tool is OK but the customer complaint is still present, the fault should be processed by **customer complaints**.

A synopsis of the general procedure to follow is provided on the following page in the form of a flow chart.

4. FAULT FINDING PROCEDURE



4. FAULT FINDING PROCEDURE (continued)

Wiring check

Fault finding problems

Disconnecting the connectors and/or manipulating the wiring harness may temporarily remove the cause of a fault. Electrical measurements of voltage, resistance and insulation are generally correct, especially if the fault is not present when the analysis is made (stored fault).

Visual inspection

Look for damage under the bonnet and in the passenger compartment.
Carefully check the fuses, insulation and wiring harness routing.
Look for signs of oxidation.

Tactile inspection

While manipulating the wiring harness, use the diagnostic tool to note any change in fault status from stored to present.
Check that the connectors are properly locked.
Apply light pressure to the connectors.
Twist the wiring harness.
If there is a change in status, try to locate the source of the fault.

Inspection of each component

Disconnect the connectors and check the appearance of the clips and tabs, as well as the crimping (no crimping on the insulating section).
Make sure that the clips and tabs are properly locked in the holes.
Check that no clips or tabs have been dislodged during connection.
Check the clip contact pressure using an appropriate model of tab.

Resistance check

Check the continuity of entire lines, then section by section.
Look for a short circuit to earth, to + 12 V or to another wire.

If a fault is detected, repair or replace the wiring harness.

5. FAULT FINDING LOG



IMPORTANT!

IMPORTANT

Any fault on a complex system requires thorough fault finding with the appropriate tools. The FAULT FINDING LOG, which should be completed during the procedure, enables you to keep track of the procedure which is carried out. It is an essential document when consulting the manufacturer.

IT IS THEREFORE MANDATORY TO FILL OUT A FAULT FINDING LOG EACH TIME FAULT FINDING IS CARRIED OUT

You will always be asked for this log:

- when requesting technical assistance from the Techline,
- for approval requests when replacing parts for which approval is obligatory,
- to be attached to monitored parts for which reimbursement is requested. The log is needed for warranty reimbursement, and enables better analysis of the parts removed.

6. SAFETY ADVICE

Safety rules must be observed during any work on a component to prevent any damage or injury:

- make sure that the battery is properly charged to avoid damaging the computers with a low load,
- use the appropriate tools.

FAULT FINDING LOG

System: Carminat informed navigation

Page 1 of 2

List of monitored parts: navigation system

Administrative identification

Date	<input type="text"/>											
Log completed by/tel.	<input type="text"/>											
Dealership details	<input type="text"/>											
VIN	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Repair Order	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Engine	<input type="text"/>	<input type="text"/>	<input type="text"/>	Mileage <input type="text"/>

Navigation system configuration

Navigation computer	Renault part number:	<input type="text"/>
	series number	Fault finding log
CCU: Central Communication Unit	Renault part number:	<input type="text"/>
	series number	Fault finding log
Cartographic CD-ROM	Renault part number:	<input type="text"/>
	series number	Fault finding log
Languages CD-ROM	Version	<input type="text"/>
Radio	Renault part number:	<input type="text"/>
	series number	Fault finding log

Customer complaint

<input type="text"/>	1162	Problem reading the cartographic CD-ROM	<input type="text"/>	1161	Problem opening or closing the screen	<input type="text"/>	1158	Guidance voice message fault
<input type="text"/>	1170	Navigation guidance fault	<input type="text"/>	1160	Control fault on the CCU front panel or independent keypad	<input type="text"/>	1171	Satellite reception fault (GPS)
<input type="text"/>	999	Intermittent black screen	<input type="text"/>	999	Permanent black screen	<input type="text"/>	999	Location fault

Description of customer complaint:

Customer complaint reproduced:	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Are there any retrofitted accessories on the vehicle?	YES <input type="checkbox"/>	NO <input type="checkbox"/>
If yes, which:	<input type="text"/>	

Conditions under which the customer complaint occurs

<input type="text"/>	999	Permanent fault	<input type="text"/>	999	Intermittent frequency (occurrence must be stated)	<input type="text"/>	999	Low temperatures
<input type="text"/>	999	Very high temperatures	<input type="text"/>	999	Ambient heat	<input type="text"/>	999	Engine running or warm
<input type="text"/>	999	When starting	<input type="text"/>	999	Covered area (garage, etc.)	<input type="text"/>	999	Green TMC Symbol
<input type="text"/>	999	Red TMC Symbol	<input type="text"/>	999	Green GPS Symbol	<input type="text"/>	999	Red GPS Symbol
<input type="text"/>	999	During impacts/vibrations	<input type="text"/>	999	Green CD Symbol	<input type="text"/>	999	Red CD Symbol

Others

Comments:



RENAULT

FD98
Fault finding log

FAULT FINDING LOG

System: Carminat Advanced Navigation

Page 2 of 2

● Documentation used in fault finding

Fault finding procedure used	
Type of diagnostic manual:	Workshop Repair Manual <input type="checkbox"/> Technical Note <input type="checkbox"/> Assisted fault finding <input type="checkbox"/>
Fault finding manual number	
Wiring diagram used	
Wiring Diagram Technical Note Number:	
Other documentation	
Title and/or part number:	

● Workshop fault finding

GPS reception status:	COM.ERROR <input type="checkbox"/> Search Sat <input type="checkbox"/> ≥ 3 sat <input type="checkbox"/>
-----------------------	--

To check the GPS reception status, follow the procedure below:

Position the vehicle in an open area

Wait for 15 minutes with the ignition on

In the navigation system, go to Fault finding: **Navigation → Configuration → System information → Fault finding → GPS status**

Status red LED computer front panel:	Permanently off <input type="checkbox"/> Permanently flashing <input type="checkbox"/> Permanently lit <input type="checkbox"/>
Carminat computer (CD-ROM reader):	Impossible to insert CD <input type="checkbox"/> Impossible to eject CD <input type="checkbox"/> Refuses to read CD <input type="checkbox"/>
Cartographic map CD scratched or dirty:	YES <input type="checkbox"/> NO <input type="checkbox"/>

Vehicle speed signal fault finding, change of value when driving? ☐ YES ☐ NO

To run this fault finding procedure on the navigation system, from the following fault finding menu: **Navigation → Configuration → System information → Fault finding → I/O**

● Conditions under which fault disappears

☐ Vehicle restart

after a cut-off of > 1 min: OUT ☐ NO ☐

after a cut-off of <1 min: OUT ☐ NO ☐

☐ By action on:

☐ The fault disappears by itself (state time):

☐ Other (give as much detail as possible):

● Parts returned

Parts:	Navigation computer <input type="checkbox"/> CCU <input type="checkbox"/> Keypad <input type="checkbox"/> Screen <input type="checkbox"/>
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Note:

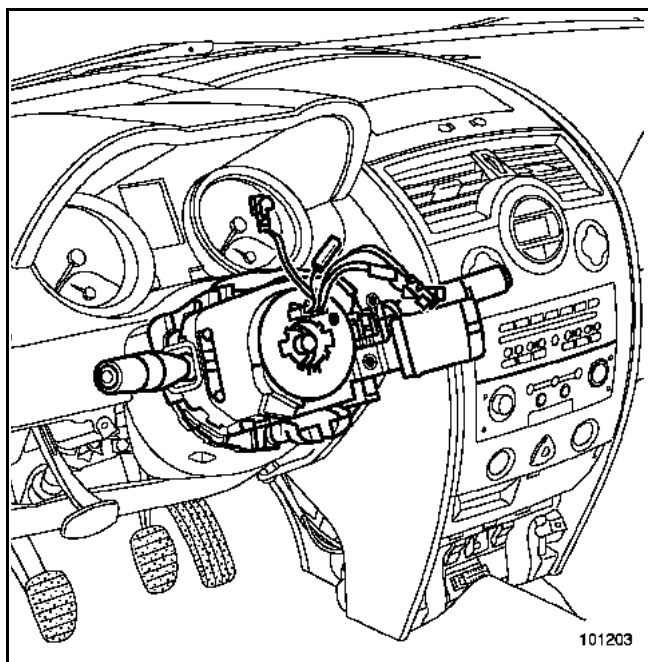
Complete and submit a fault finding log for each component removed and returned.



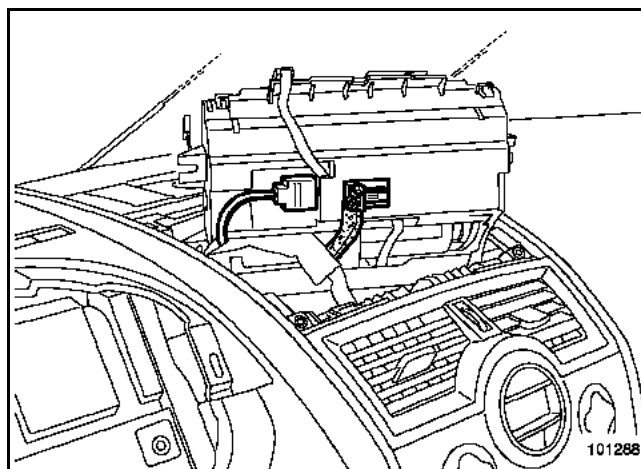
RENAULT

FD98
Fault finding log

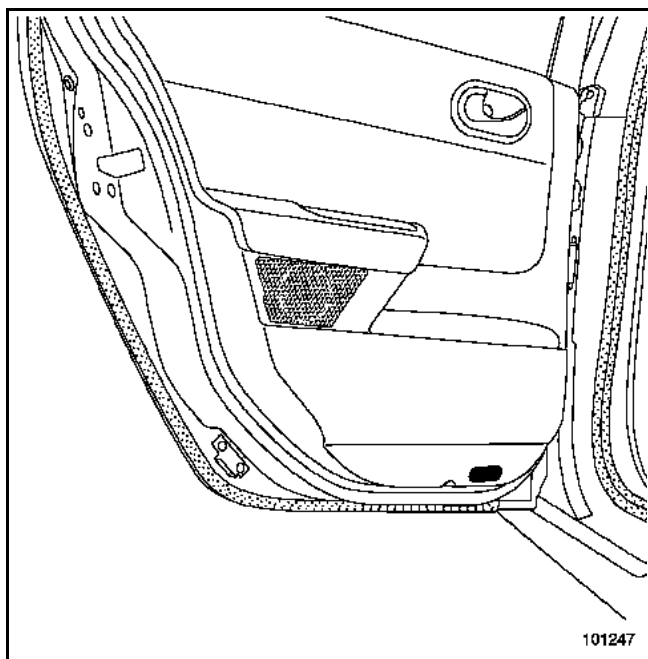
Fault finding - List and location of components



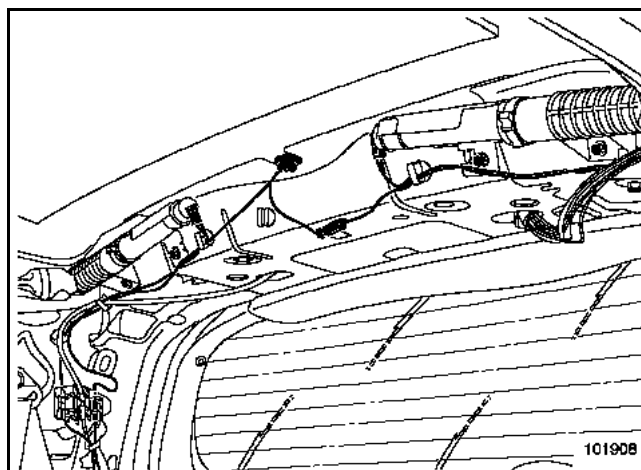
Steering column control



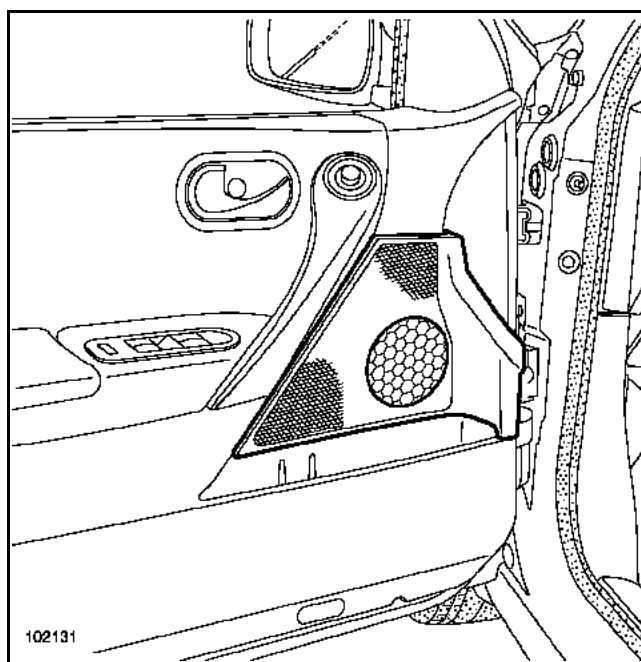
Fold-out unit



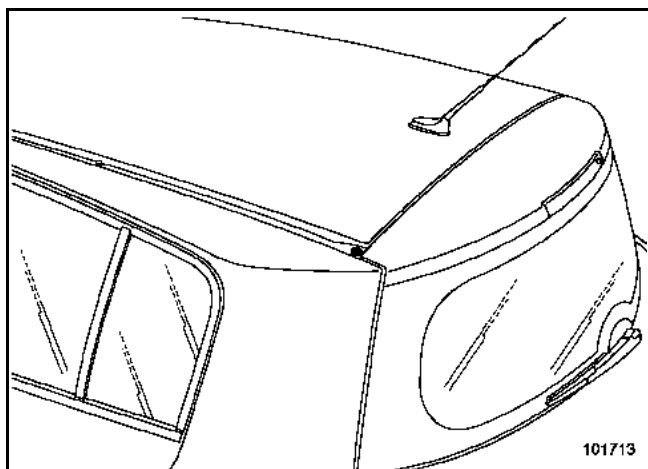
Rear speakers



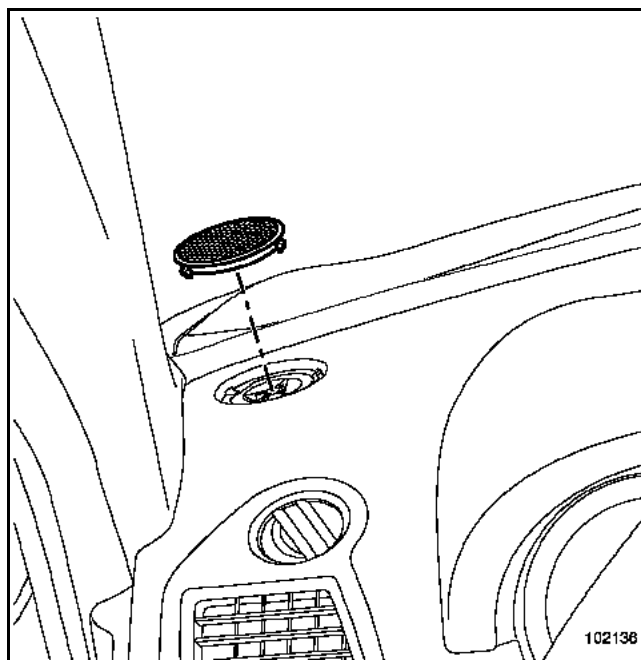
Aerial coaxial cable



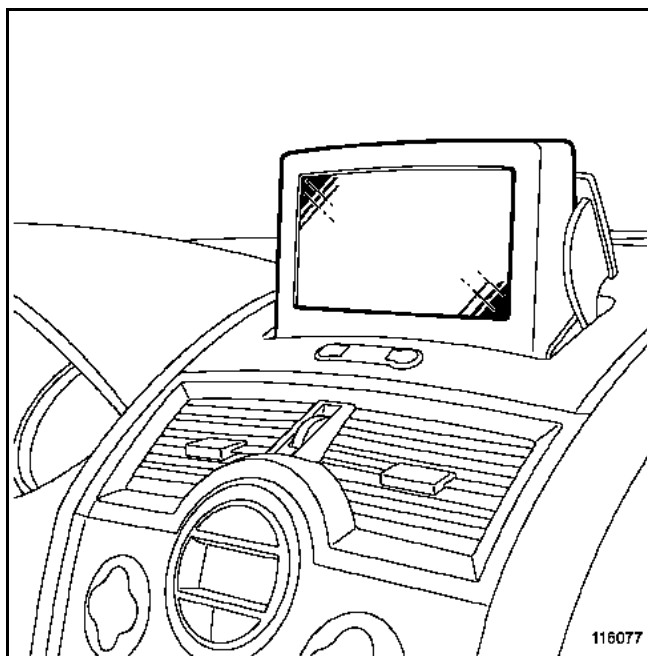
Front speakers



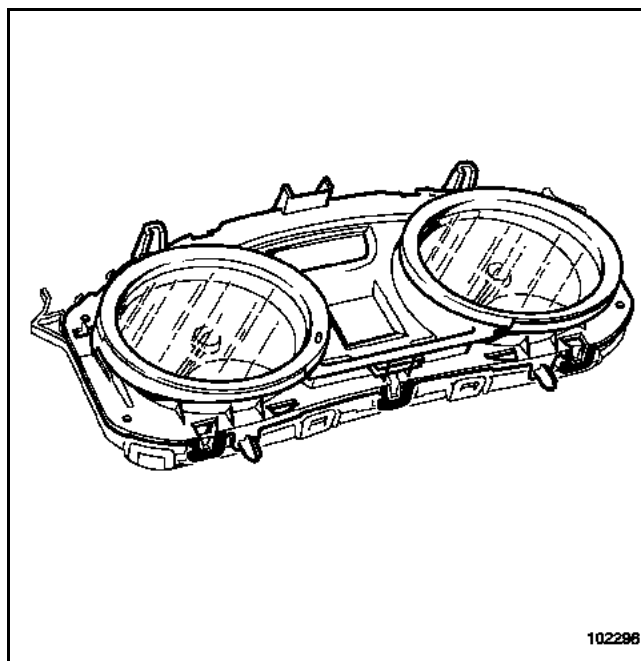
Aerial



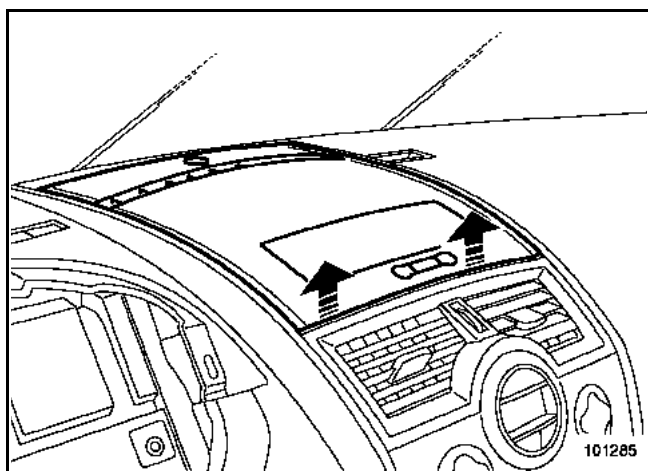
Front tweeter speakers



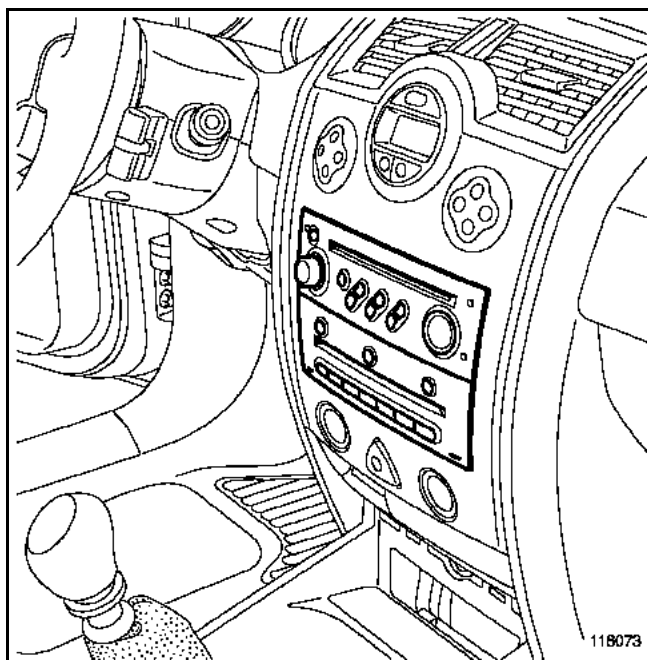
Display



Instrument panel with dot matrix display

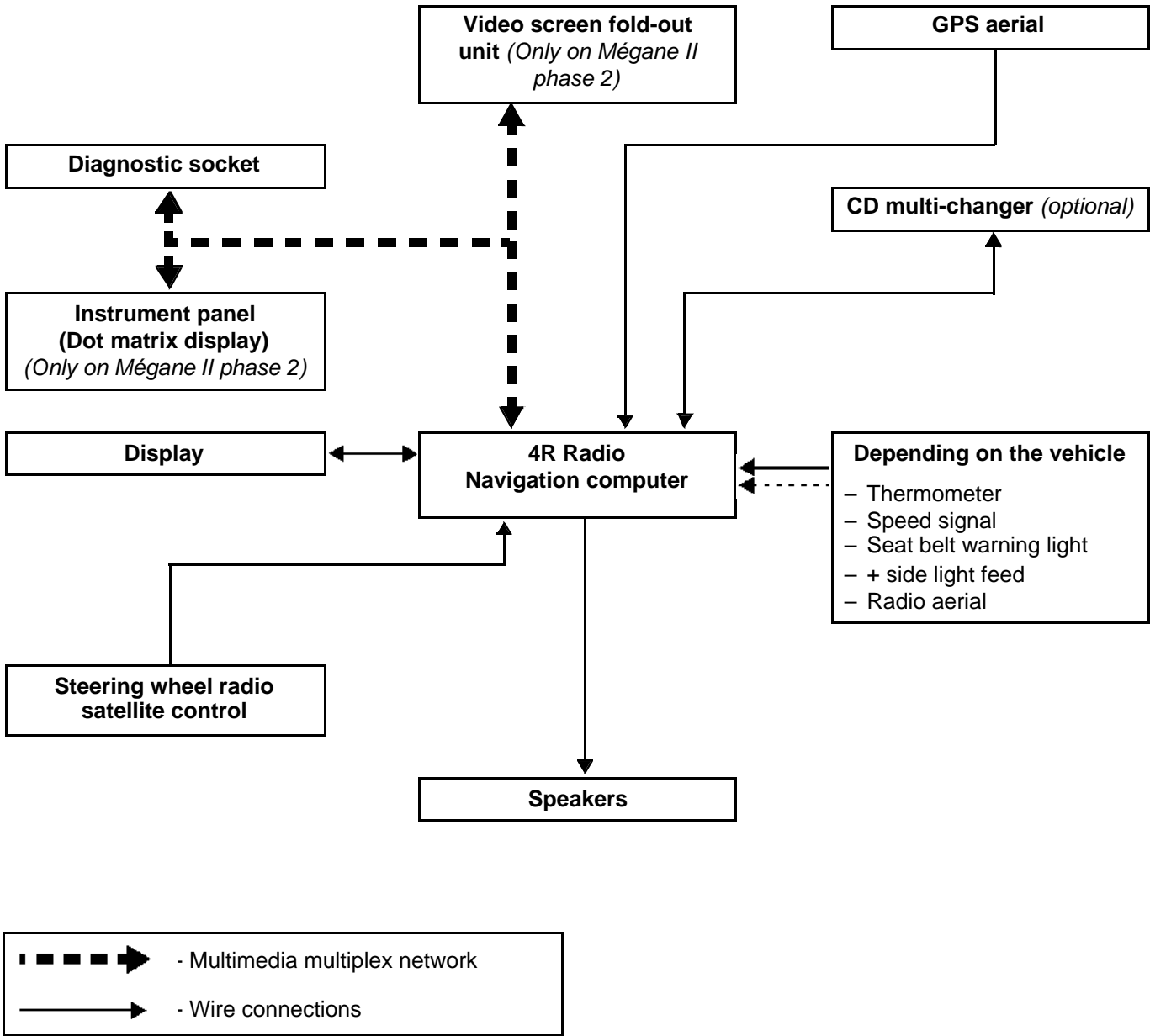


Fold-out unit



Radio/navigation computer
6 CD changer

Layout of the main components of the 4R Radio Navigation system



General operation

The NAV 4R system includes the following functions:

- CD multi-changer (according to options).
- Satellite guidance navigation.
- Display (according to options).
- External thermometer.
- Clock.
- Audio.
- Seat belt warning light (Laguna II only).

1 - CD multi-changer

The CD multi-changer located on the dashboard can hold up to 6 CDs. Audio CDs and CDs recorded by the customer may be played.

The CD changer does not play MP3 CDs.

2 - Navigation

This function guides the driver by displaying maps and issuing voice messages. The addresses for guidance are entered using the keypad.

3 - Display

The display is used to show information such as navigation maps, radio, CD title (MP3 CDs optional), time, temperature, etc.

4 - Thermometer

The 4R central communication unit may display the exterior temperature via:

- the UCH (only on Mégane and Scénic II phase 2),
- the sensor located on the right-hand door mirror (other vehicles).

The temperature is also transmitted to the climate control computer. This parameter can be viewed using parameter **PR006 External temperature**.

5 - Clock

This function allows the time to be displayed on the video screen.

6 - Audio

Two audio systems are available:

- **Standard** 4X15 W,
- **Cabasse** 4X40 W.

These systems enable the user to listen to AM/FM radio, CDs (MP3 CDs optional with the **Cabasse** system) and satellite navigation voice messages.

7 - Seat belt warning light (Only on Laguna II phase 2).

Seat belt warning light lit on the display.

Role of main components

- Display: displays various multimedia system data such as the station selected, time, CD listing and satellite guidance information.
- Steering column control: allows the various system functions to be used via the steering wheel control.
- Speakers and tweeters: relay the sound from the multimedia system into the vehicle.
- CD changer: enables compact discs to be loaded and music to be relayed to the tuner-amplifier.
- AM/FM aerial: receives radio signals from various transmitters.
- GPS aerial: receives various data transmitted by satellites.
- Radio/navigation computer: manages the various multimedia system functions according to user requests and transmits audio data to the vehicle via the speakers.
- Cartographic map DVD: loads maps into the navigation computer.
- AM/FM aerial amplifier: improves the reception of AM/FM signals.

SETTINGS

VP002 Write VIN:

This command permits manual entry of the vehicle's VIN into the computer. Use this command each time the computer is replaced. The VIN number is inscribed on the manufacturer's plate.

Procedure for writing the VIN

- Establish dialogue with the navigation computer.
- Select the **repair mode** menu.
- Select the **other parameters** menu.
- Select line **VP002 Enter VIN**.
- Enter the VIN.
- Exit fault finding mode.
- Switch off the ignition.
- Wait for the end of power latch.
- Reread the VIN in the **identification** menu to confirm (**ID011 VIN code**).

VP005 Computer configuration:

This command is used to configure the 4R radio navigation computer by entering the vehicle type and the trim level. When the command is complete, switch off the ignition, wait 2 minutes and switch on the ignition again. Check that the configuration has registered correctly by reading configurations **LC001 Vehicle type** and **LC005 CD changer**.

The radio is in factory mode after configuration (FM 87.5 MHz in scrambled mode for 2 minutes).

PROGRAMMING

There is no programming on the navigation system.

Fault finding - Replacement of components

For removing/refitting the 4R radio navigation computer, refer to the MR for the vehicle concerned:

Mégane II ph2

(see **MR 364 mechanical, 83C On-board telematics system, Computer: Removal - Refitting**)

Laguna II ph2

(see **MR 395 mechanical, 83C On-board telematics system, Computer: Removal - Refitting**)

Scénic II ph2

(see **MR 370 mechanical, 83C On-board telematics system, Computer: Removal - Refitting**)

Trafic II ph1 and ph2

(see **MR 408 mechanical, 83C On-board telematics system, Radionavigation: Removal - Refitting**)

Master ph2 and ph3

(see **MR 377 mechanical, 83C On-board telematics system, Radionavigation: Removal - Refitting**)

Master propulsion ph2

(see **Technical Note 3818A, 83C, On-board telematics system, Radionavigation: Removal - Refitting**)

Operations to be carried out before replacing the 4R radio navigation computer:

1. Before replacing the 4R radio navigation computer (with Techline approval), perform a fault read and a conformity check to confirm that it is faulty.

2. Before removing, eject the CD.

3. Following Techline approval, remove the computer, with the ignition off (**wait 1 minute for the system to shut down completely**).

The 4R radio navigation computers available from the Parts Department are supplied unconfigured and with a black screen.

Operations to be carried out before replacing the 4R radio navigation computer:

1. **Configure the computer** (see **Configuration and programming**).

The 4R Radio Navigation computer is in factory mode following configuration (87.5 MHz FM in scrambled mode for 2 minutes).

2. Enter the 4R Radio Navigation system unlocking code

Obtaining the 4R Radio Navigation system unlocking code:

- switch on + after ignition feed (see **introduction**),
- if the 4R Radio Navigation system does not come on when the + after ignition feed is activated, press the ON/OFF button on the front panel,
- connect the Clip diagnostic tool,
- note the programming key number **ID012 Navigation programming key** indicated in the **identification** menu,
- Consult Renault.net with the programming key number to obtain the 4R Radio Navigation system unlocking code. In the event of a fault, contact the Techline,
- 2 minutes after the 4R Radio Navigation system is switched on, the unlocking code is requested,
- enter the code using the radio control satellite under the steering wheel.

3. Enter the CD changer unlocking code (depending on options)

- If there is a CD changer, and when CD0000 is displayed, enter the code of the removed 4R Radio Navigation system.
- After the unlocking code has been entered, the 4R Radio Navigation computer is in customer mode.

Note:

Each time an incorrect code is entered, the waiting time doubles (maximum 32 minutes).

Tool fault	Associated DTC	Diagnostic tool title
DF001	9300	Computer
DF021	9321	Computer configuration
DF024	C155	No instrument panel multiplex signal
DF026	C188	No fold-out unit multiplex signal
DF027	C189	No audio CD changer signals
DF030	9A00	GPS aerial circuit
DF032	9308	Display supply
DF034	9A0C	CD reader
DF035	9305	Computer/fold-out unit connection

DF001 PRESENT OR STORED	<u>COMPUTER</u> 1.DEF: Internal electronic fault
----------------------------------	---

NOTES	Conditions for applying fault finding procedures to stored faults: Apply the interpretation of the fault shown below.
	Use the Wiring Diagram Technical Note for the vehicle concerned.

DF001 PRESENT

Contact the Techline.

DF001 STORED

Check the conformity of + 12 V on connection **BCP3 (commercial vehicle and Laguna: BCP4)** of the **8-track black** connector of component **261 (Trafic: 662)**.
 Check that the **earth** on **connection MT (for Laguna and Trafic), MAO (for Mégane and Scénic), NL (for Master)** of the **8-track black** connector of component **261 (Trafic: 662)** is in perfect condition.
 If the connection is faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the wiring, otherwise replace it.

Clear the fault, switch off the ignition and disconnect the computer supply fuse:
Laguna: 20A fuse located on component **710**.
Mégane and Scénic: 20A fuse located on component **260**.
Master: 10A fuse located on component **1016**.
Trafic: 15A fuse located on component **1016**.
 – Refit the fuse and switch the ignition back on.
 – Switch on the 4R radio navigation system.
 If the fault reappears as stored, contact Techline.

AFTER REPAIR	If the 4R radio navigation system has been replaced (upon request and with Techline approval), reconfigure the 4R radio navigation system computer (see Configuration and programming). Deal with any other faults.
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DF021 PRESENT	<u>COMPUTER CONFIGURATION</u> 1.DEF: Computer configuration not performed
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NOTES	None.
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Configure the system (see Configuration and programming).
Note: After configuring, switch off the ignition, wait 2 minutes then switch on the ignition again to allow the configuration to register.
Check that the configurations have been correctly registered by reading configurations LC001 Vehicle Type and LC005 CD changer .
If the fault is still present, contact the Techline.

AFTER REPAIR	Deal with any faults displayed by the diagnostic tool. Clear the faults from the 4R radio navigation computer memory using command RZ001 Fault memory .
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<p>DF024 PRESENT OR STORED</p>	<p><u>NO INSTRUMENT PANEL MULTIPLEX SIGNAL</u> 1.DEF: No communication with the instrument panel</p>
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<p>NOTES</p>	<p>Order of priority in the event of more than one fault: If faults DF024 No instrument panel multiplex signal and DF026 No fold-out unit multiplex signal are present, run command VP005 Computer configuration to reconfigure the system (see Configuration and programming).</p>
	<p>Conditions for applying fault finding procedures to stored faults: Apply this fault finding procedure if the fault reappears as present or stored after it has been cleared and the ignition has been switched off and on again.</p>
	<p>Special note: Apply this fault procedure only for vehicles equipped with an instrument panel dot matrix display (Top of the range Mégane II phase 2).</p>
	<p>Use the Wiring Diagrams Technical Note for the Mégane II.</p>

<p>Look for any damage to the wiring harness, check the condition and connection of the connectors on components 261 and 247. Manipulate the wiring harness in order to produce a change in the fault status (present → stored). If the connector is faulty and there is a repair procedure (see Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair), repair the connector, otherwise replace the wiring.</p>
<p>Using the universal bornier, check the insulation, continuity and the absence of interference resistance on the following connections: ● connection code 107W, ● connection code 107X, between components 261 and 247. If the connection or connections are faulty and there is a repair procedure (see Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.</p>
<p>If the fault is still present, run fault finding on the instrument panel (see 83A, Instrument panel) and the multiplex network (see 88B, Multiplexing).</p>

<p>AFTER REPAIR</p>	<p>Deal with any faults displayed by the diagnostic tool. Clear the faults from the 4R radio navigation computer memory using command RZ001 Fault memory.</p>
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<p>DF026 PRESENT OR STORED</p>	<p><u>NO FOLD-OUT UNIT MULTIPLEX SIGNAL</u> 1.DEF: No communication with the display fold-out unit</p>
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<p>NOTES</p>	<p>Order of priority in the event of more than one fault: If faults DF024 No instrument panel multiplex signal and DF026 No fold-out unit multiplex signal are present, run command VP005 Computer configuration to reconfigure the system (see Configuration and programming).</p>
	<p>Conditions for applying fault finding procedures to stored faults: Apply this fault finding procedure if the fault reappears as present or stored after it has been cleared and the ignition has been switched off and on again.</p>
	<p>Special note: Apply this fault procedure only for vehicles equipped with a fold-out unit (Top of the range Mégane II phase 2).</p>
	<p>Use the Wiring Diagrams Technical Note for the Mégane II.</p>

<p>Look for any damage to the wiring harness, check the condition and connection of the connectors on components 261 and 1303. Manipulate the wiring harness in order to produce a change in the fault status (present → stored). If the connector is faulty and there is a repair procedure (see Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair), repair the connector, otherwise replace the wiring.</p>
<p>Using the universal bornier, check the insulation, continuity and the absence of interference resistance on the following connections: ● connection code 34GA, ● connection code 34DZ, ● connection code 34GG, ● connection code BCP3, between components 261 and 1303. If the connection is faulty and there is a repair procedure (see Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.</p>
<p>Check for + 12 V on connection BCP3 of the connector of component 1303. Also check for earth on connection MAN of the connector of component 1303. If the connection is faulty and there is a repair procedure (see Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.</p>
<p>If the fault is still present, run fault finding on the multiplex network (see 88B, Multiplexing).</p>

<p>AFTER REPAIR</p>	<p>Deal with any faults displayed by the diagnostic tool. Clear the faults from the 4R radio navigation computer memory using command RZ001 Fault memory.</p>
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<p>DF027 PRESENT OR STORED</p>	<p><u>NO AUDIO CD CHANGER SIGNALS</u> 1.DEF: No communication with the CD changer</p>
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<p>NOTES</p>	<p>Order of priority in the event of more than one fault: Deal with fault DF001 Computer first, if present or stored.</p>
	<p>Conditions for applying fault finding procedures to stored faults: Apply this fault finding procedure if the fault reappears as present or stored after it has been cleared and the ignition has been switched off and on again.</p>
	<p>Special note: If the vehicle does not have a CD changer, check the 4R radio navigation computer configuration (see Configuration and programming). Apply the following fault finding procedure to vehicles equipped with a CD changer.</p>
	<p>Use the Wiring Diagram Technical Note for the vehicle concerned.</p>

Look for any damage to the wiring harness, check **the condition and connection** of the connectors on components **261** and **1272**.

Manipulate the wiring harness in order to produce a change in the fault status (present → stored).

If the connector is faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the connector, otherwise replace the wiring.

Using the universal bornier, check **the insulation, continuity and the absence of interference resistance** on the following connections:

- **connection code 34AZ,**
- **connection code 34BA,**
- **connection code 34BL,**
- **connection code 34BC,**
- **connection code 34BD,**
- **connection code 34BG,**
- **connection code 34BH,**
- **connection code 34BK (only for Scénic),**

between components **261** and **1272**.

If the connection or connections are faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the wiring, otherwise replace it.

If the fault is still present, contact the Techline.

<p>AFTER REPAIR</p>	<p>Deal with any faults displayed by the diagnostic tool. Clear the faults from the 4R radio navigation computer memory using command RZ001 Fault memory.</p>
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DF030 PRESENT OR STORED	<u>GPS AERIAL CIRCUIT</u> CO : Open circuit
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NOTES	Conditions for applying fault finding procedures to stored faults: Apply this fault finding procedure if the fault reappears as present or stored after it has been cleared and the ignition has been switched off and on again.
	Use the Wiring Diagram Technical Note for the vehicle concerned.

Check the **condition and connection** of the GPS coaxial connector on components **261 (Traffic: 662)** and **886 (and 1551 for Laguna and Mégane cabriolet)** (bent pins, bad contacts, etc.).
Carefully manipulate the wiring harness in order to produce a change in fault status (present → stored).
If the connector is faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the connector, otherwise replace the wiring.

Using the universal bornier, check **the insulation, continuity and the absence of interference resistance** on the following connections:

Mégane cabriolet:

- connection code **TB13**,
- connection code **34AN**,

between components **261** and **886**;

- connection code **46CB**,
- connection code **TB15**,

between components **886** and **1551**.

Mégane hatch and Scénic:

- connection code **TB13**,
- connection code **34AN**,
- connection code **46CB**,
- connection code **TB15**,

between components **261** and **886**.

AFTER REPAIR	Deal with any faults displayed by the diagnostic tool. Clear the faults from the 4R radio navigation computer memory using command RZ001 Fault memory . Check the number of satellites received from outside, with the system switched on for 10 minutes, followed by a new check with the diagnostic tool.
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DF030 CONTINUED 1	
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<p>Laguna:</p> <ul style="list-style-type: none">● connection code TB13,● connection code 34AN, <p>between components 261 and 886.</p> <ul style="list-style-type: none">● connection code 46CB,● connection code TB15, <p>between components 261 and 1551.</p> <p>Traffic:</p> <ul style="list-style-type: none">● connection code TB13,● connection code 34AN,● connection code 46CB,● connection code TB15, <p>between components 662 and 886.</p> <p>Master:</p> <ul style="list-style-type: none">● connection code TB13,● connection code 34AN,● connection code 46CB,● connection code TB15, <p>between components 261 and 886.</p>
<p>If the connection or connections are faulty and there is a repair procedure (see Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.</p>

AFTER REPAIR	<p>Deal with any faults displayed by the diagnostic tool.</p> <p>Clear the faults from the 4R radio navigation computer memory using command RZ001 Fault memory.</p> <p>Check the number of satellites received from outside, with the system switched on for 10 minutes, followed by a new check with the diagnostic tool.</p>
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DF030 CONTINUED 2	
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<p>If the connections are correct, replace component 1551 or 886. Mégane II ph2 (see MR 364 mechanical, 83C On-board telematics system, Aerial: Removal - Refitting) Laguna II ph2 (see MR 395 mechanical, 83C On-board telematics system, Aerial: Removal - Refitting) Scénic II ph2 (see MR 370 mechanical, 83C On-board telematics system, Aerial: Removal - Refitting) Trafic II ph1 and ph2 (see MR 408 mechanical, 83C On-board telematics system, Aerial: Removal - Refitting) Master ph2 and ph3 (see MR 377 mechanical, 83C On-board telematics system, Aerial: Removal - Refitting) Master propulsion ph2 (see Technical Note 3818A, 83C On-board telematics system, Navigation aerial: Removal - Refitting).</p>
Look for any damage to the coaxial cable.
If the fault is still present, contact the Techline.

AFTER REPAIR	<p>Deal with any faults displayed by the diagnostic tool. Clear the faults from the 4R radio navigation computer memory using command RZ001 Fault memory. Check the number of satellites received from outside, with the system switched on for 10 minutes, followed by a new check with the diagnostic tool.</p>
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Fault finding - Interpretation of faults

<p>DF032 PRESENT OR STORED</p>	<p><u>DISPLAY SUPPLY</u> CO.1 : Short circuit or open circuit to + 12 V</p>
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<p>NOTES</p>	<p>Conditions for applying fault finding procedures to stored faults: Apply this fault finding procedure if the fault reappears as present or stored after it has been cleared and the ignition has been switched off and on again.</p>
	<p>Special note: Run command AC021 Display test. Three colours are displayed on the screen: Red, green and blue, and a black mosaic on a white background. If this is not displayed, apply the fault finding procedure detailed below.</p>
	<p>Use the Wiring Diagram Technical Note for the vehicle concerned.</p>

<p>Check the condition and connection of the video connector on components 261 (Traffic: 662) and 1127 (bent pins, bad contacts, etc.). If the connector is faulty and there is a repair procedure (see Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair), repair the connector, otherwise replace the wiring.</p>
<p>Using the universal bornier, check the insulation, continuity and the absence of interference resistance on the following connections: <ul style="list-style-type: none"> ● connection code 46M, ● connection code 46N, ● connection code 46BG, ● connection code 46BH, ● connection code 46BK, between components 261 (Traffic: 662) and 1127. If the connection or connections are faulty and there is a repair procedure (see Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.</p>
<p>Check for + 12 V on connections 46M and 46N of the connector of component 1127. Also check for earth on connections 46BG, 46BH and 46BK of the connector of component 1127. If the connection or connections are faulty and there is a repair procedure (see Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.</p>
<p>If the fault is still present, contact the Techline.</p>

<p>AFTER REPAIR</p>	<p>Check that the screen is operating correctly using command AC021 Display test. Deal with any faults displayed by the diagnostic tool. Clear the faults from the 4R radio navigation computer memory using command RZ001 Fault memory.</p>
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**DF034
PRESENT**

CD READER

1.DEF: CD unreadable

NOTES

Special note:

The system enables:

- CD-ROM maps to be displayed,
- the user to listen to commercial audio CDs, CDs burned independently, CDs containing MP3 files (optional). The CDs are read by the 4R unit's CD player or by the optional 6-CD changer.

Check that the CD is not scratched.

For a CD-ROM card, change the CD.

For all other types of CD, check that the CD format is compatible with the system.

If the fault is still present, contact the Techline.

AFTER REPAIR

Deal with any faults displayed by the diagnostic tool.

Clear the faults from the 4R radio navigation computer memory using command **RZ001**
Fault memory.

DF035 PRESENT OR STORED	<u>COMPUTER/FOLD-OUT UNIT CONNECTION</u> CO.1 : Short circuit or open circuit to + 12 V
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NOTES	Conditions for applying fault finding procedures to stored faults: Apply this fault finding procedure if the fault reappears as present or stored after it has been cleared and the ignition has been switched off and on again.
	Special note: If the vehicle does not have a fold-out unit, check the 4R radio navigation computer configuration (see Configuration and programming). The screen does not deploy or there is no display on the instrument panel. Apply the following fault finding procedure only if the vehicle is equipped with a fold-out unit and a dot matrix display on the instrument panel (top of the range Mégane II phase 2).
	Use the Wiring Diagrams Technical Note for the Mégane II.

Check the condition and connection of the connectors of components 261 , 1303 and 247 (bent pins, bad contacts, etc.). If the connector is faulty and there is a repair procedure (see Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair), repair the connector, otherwise replace the wiring.
Manipulate the wiring harness in order to produce a change in the fault status (present → stored).
Check the insulation, continuity and the absence of interference resistance on connection 34GG between components 261 and 1303 . If the connection is faulty and there is a repair procedure (see Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.
Check the insulation, continuity and the absence of interference resistance on connection 34GD between components 247 and 1303 . If the connection is faulty and there is a repair procedure (see Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.
If the fault is still present, contact the Techline.

AFTER REPAIR	Deal with any faults displayed by the diagnostic tool. Clear the faults from the 4R radio navigation computer memory using command RZ001 Fault memory .
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MULTIMEDIA

Fault finding - Conformity check

86C

NOTES

Only perform this conformity check after a **thorough check** with the diagnostic tool.
The values shown in this conformity check are given as examples.
Application conditions: Engine stopped, **ignition on**.

MAIN COMPUTER STATUSES AND PARAMETERS

Order	Function	Parameter / Status checked or Action	Display and Notes	Fault finding
1	Power supply	ET001: + 12 V after ignition feed	PRESENT	In the event of a fault, refer to the interpretation of status ET001 + 12 V after ignition feed .
2		ET002: + 12 V accessories feed	PRESENT	In the event of a fault, refer to the interpretation of status ET002 + 12 V accessories feed .
3		ET003: + 12 V side lights feed	PRESENT ABSENT	In the event of a fault, consult the interpretation of status ET003 + 12 V side lights feed .
4		PR001: Battery voltage	11 V < PR001 < 14 V	In the event of a fault, refer to the interpretation of parameter PR001 Battery voltage .
5	Vehicle speed	PR002: Vehicle speed	Unit: km/h	In the event of a fault, consult the interpretation of parameter PR002 Vehicle speed .
6	External temperature sensor	PR006: External temperature	PR006 = External temperature sensor ± 5 °C	In the event of a fault, refer to the interpretation of parameter PR006 External temperature .
7	Angular position sensor	PR009: Angular position	Unit: °/s This parameter determines The angular speed when cornering.	In the event of a fault, consult the interpretation of parameter PR009 Angular position .
8	Satellite reception	PR008: Satellite number received	In an open area, the number of satellites received should be greater than 3 for the system to operate correctly.	In the event of a fault, consult the interpretation of parameter PR008 Number of satellites received .
9	Off	ET004: RADIO ON signal	STILL PRESENT	If the fault is still present, contact Techline.

MULTIMEDIA

Fault finding - Conformity check

86C

NOTES

Only perform this conformity check after a **thorough check** with the diagnostic tool.
The values shown in this conformity check are given as examples.
Application conditions: Engine stopped, **ignition on**.

Sub-function: USER SELECTION

Order	Function	Parameter / Status checked or Action	Display and Notes	Fault finding
1	Steering wheel controls	ET006: + button	PRESSED RELEASED	In the event of a fault, consult the interpretation of statuses ET006 + button, ET007 - button, ET036 MUTE button, ET008 Top button, ET009 High button and ET010 Low button.
2		ET007: - button	PRESSED RELEASED	
3		ET036: MUTE button	PRESSED RELEASED	
4		ET008: Top button	PRESSED RELEASED	
5		ET009: High button	PRESSED RELEASED	
6		ET010: Low button	PRESSED RELEASED	
7	Front panel button	ET026: Radio on/off button	PRESSED RELEASED	If the fault is still present, contact Techline.
8		ET027: CD eject button	PRESSED RELEASED	
9		ET028: Tone button	PRESSED RELEASED	
10		ET029: Voice synthesiser button	PRESSED RELEASED	
11		ET030: Station preselection button	PRESSED RELEASED	
12		ET014: Source button	PRESSED RELEASED	
13		ET032: Navigation button	PRESSED RELEASED	

NOTES	<p>Only perform this conformity check after a thorough check with the diagnostic tool. The values shown in this conformity check are given as examples.</p> <p>Application conditions: Engine stopped, ignition on.</p>
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Sub-function: USER SELECTION (CONTINUED)

Order	Function	Parameter / Status checked or Action	Display and Notes	Fault finding
14	Front panel button (continued)	ET033: Directional button	PRESSED RELEASED	If the fault is still present, contact Techline.
15		ET034: Mode button	PRESSED RELEASED	
16		ET039: Front panel rotary button actuation	PRESSED RELEASED	
17	Steering wheel controls	ET037: Satellite wheel	A variation from 0 to + 3 in one direction and from 0 to - 3 in the other direction confirms that the wheel is operating correctly.	In the event of a fault, consult the interpretation of status ET037 Satellite wheel .
18	Front panel button	ET038: Front panel rotary button		If the fault is still present, contact Techline.
19	CD	AC022: CD ejection	This command is used to eject the CD from the CD reader.	

<div>NOTES</div>	<p>Only perform this conformity check after a thorough check with the diagnostic tool. The values shown in this conformity check are given as examples.</p> <p>Application conditions: Engine stopped, ignition on.</p>
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Sub-function: Display

Order	Function	Parameter / Status checked or Action	Display and Notes	Fault finding
1	Power supply	ET003: + 12 V side lights feed	PRESENT ABSENT	In the event of a fault, consult the interpretation of status ET003 + 12 V side lights feed .
2	Off	ET004: RADIO ON signal	STILL PRESENT	In the event of a fault, consult the interpretation of status ET004 RADIO ON signal .
3	Display	AC021: Display test	This command is used to check that the display is operating correctly.	In the event of a fault, consult the interpretation of fault DF031 Computer/display connection .

NOTES	Only perform this conformity check after a thorough check with the diagnostic tool. The values shown in this conformity check are given as examples. Application conditions: Engine stopped, ignition on .
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Sub-function: Audio

Order	Function	Parameter / Status checked or Action	Display and Notes	Fault finding
1	Radio reception quality	PR010: Radio field intensity	Unit: dBμV	In the event of a fault, consult the interpretation of parameter PR010 Radio field intensity .
2	Speakers	AC004: Speaker test	This command is used to perform a listening test on each speaker.	of command AC004 Speaker test .

Tool status	Diagnostic tool title
ET001	+ 12 V after ignition feed
ET002	+ 12 V accessories feed
ET003	+ 12 V side lights feed
ET004	RADIO ON signal
ET006	+ button
ET007	- button
ET008	Top button
ET009	High button
ET010	Low button
ET014	Source button
ET026	Radio on/off button
ET027	CD eject button
ET028	Tone button
ET029	Voice synthesiser button
ET030	Station preselection button
ET032	Navigation button
ET033	Directional button
ET034	Mode button
ET036	MUTE button
ET037	Satellite wheel
ET038	Front panel rotary button
ET039	Front panel rotary button actuation

ET001	<u>+ 12 V AFTER IGNITION</u>
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NOTES	There must be no present or stored faults. Switch on the ignition; status ET001 should be PRESENT .
	This fault finding procedure does not apply to commercial vehicles.
	Use the Wiring Diagrams Technical Note for the vehicle concerned (except commercial vehicles).

<p>Check the condition of the + 12 V after ignition feed fuses of component 261. Check the condition of the connectors of components 260 or 1337 and 1016 according to the location of the fuses.</p> <p>If the connector is faulty and there is a repair procedure (see Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair), repair the connector, otherwise replace the wiring.</p> <p>Using the universal bornier, check the insulation, continuity and the absence of interference resistance on the following connections: Mégane and Scénic:</p> <ul style="list-style-type: none"> ● connection code AP43, between components 261 and 1337. ● connection code MAO, between component 261 and earth MAO. <p>Laguna:</p> <ul style="list-style-type: none"> ● connection code AP10, between components 261 and 260. ● connection code MT, between component 261 and earth MT. <p>If the connection or connections are faulty and there is a repair procedure (see Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.</p>
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AFTER REPAIR	Repeat the conformity check from the start.
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Fault finding - Interpretation of statuses

ET002	<u>+ 12 V ACCESSORIES</u>
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NOTES	There must be no present or stored faults. Switch on the ignition, status ET002 should be PRESENT .
	Use the Wiring Diagram Technical Note for the vehicle concerned.

Check **the condition** of the **+ 12 V ACC feed** fuse of component **261 (Trafic: 662)**.
Check **the condition** of the connectors of components **260, 1016** or **1337** according to the location of the fuses.
If the connector is faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the connector, otherwise replace the wiring.

Using the universal bornier, check **the insulation, continuity and the absence of interference resistance** on the following connections:

Mégane and Scénic:

- connection code **SP2**,
between components **261** and **260**.
- connection code **MAO**,
between component **261** and earth **MAO**.

Laguna:

- connection code **SP2**,
between components **261** and **260**.
- connection code **MT**,
between component **261** and **MT** earth.

Trafic:

- connection code **SP2**,
between components **662** and **1016**.
- connection code **MT**,
between component **662** and earth **MT**.

Master:

- connection code **SP2**,
between components **261** and **1016**.
- connection code **NL**,
between component **662** and earth **NL**.

If the connection or connections are faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the wiring, otherwise replace it.

AFTER REPAIR	Repeat the conformity check from the start.
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ET003	<u>+ 12 V SIDE LIGHTS FEED</u>
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NOTES	Check that the instrument panel backlighting comes on when the lights are switched on.
	Use the Wiring Diagram Technical Note for the vehicle concerned.

Check the condition of the + side light feed fuse of component 261 (Trafic: 662) .
<p>Check the condition and connection of the connectors of components 261 (Trafic: 662) and 260, 1016 or 1337 according to the location of the fuse.</p> <p>If the connector is faulty and there is a repair procedure (see Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair), repair the connector, otherwise replace the wiring.</p>
<p>Using the universal bornier, check the insulation, continuity and the absence of interference resistance on the following connection:</p> <p>Trafic:</p> <ul style="list-style-type: none"> ● connection code LPG, between components 662 and 1016. <p>Master:</p> <ul style="list-style-type: none"> ● connection code LPG, between components 261 and 1016. <p>Mégane and Scénic:</p> <ul style="list-style-type: none"> ● connection code LPG, between components 1337 and 261. <p>Laguna:</p> <ul style="list-style-type: none"> ● connection code LPG, between components 260 and 261. <p>If the connection is faulty and there is a repair procedure (see Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.</p>
If the fault is still present, contact the Techline.

AFTER REPAIR	Repeat the conformity check from the start.
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Fault finding - Interpretation of statuses

ET004	<u>RADIO ON SIGNAL</u>
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NOTES	There must be no present or stored faults. Switch on the ignition, status ET004 should be permanently PRESENT .
	Apply this fault finding procedure only if the vehicle is equipped with a display fold-out unit and an instrument panel dot matrix display (Mégane II ph2).
	Use the Wiring Diagrams Technical Note for Mégane II phase 2.

Check **the condition and connection** of the yellow 6-track connector of component **261** and the connector of component **1303**.

If the connector is faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the connector, otherwise replace the wiring.

Check **the insulation, continuity and the absence of interference resistance** on connection **34GG** between components **261** and **1303**.

If the connection is faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the wiring, otherwise replace it.

Check **the condition and connection** of the connector of component **247**.

If the connector is faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the connector, otherwise replace the wiring.

Check **the insulation, continuity and the absence of interference resistance** on connection **34GD** between components **247** and **1303**.

If the connection is faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the wiring, otherwise replace it.

If the fault is still present, contact the Techline.

AFTER REPAIR	Repeat the conformity check from the start.
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Fault finding - Interpretation of statuses

ET006 ET007 ET008 ET009 ET010 ET036	<u>+ BUTTON</u> <u>- BUTTON</u> <u>TOP BUTTON</u> <u>HIGH BUTTON</u> <u>LOW BUTTON</u> <u>MUTE BUTTON</u>
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NOTES	There must be no present or stored faults.
	Use the Wiring Diagram Technical Note for the vehicle concerned.
	Note: For Master, Master propulsion, Laguna and Trafic, pressing +/- twice produces status ET036 Mute button .

Check **the condition and connection** of the connector of component **325 (Scénic: 1519)** and the black 24-track connector of component **261 (Trafic: 662)**.

If the connector is faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the connector, otherwise replace the wiring.

Using the universal bornier, check **the insulation, continuity and the absence of interference resistance** on the following connections:

Mégane and Laguna:

- connection code **34AT**,
- connection code **34AR**,
- connection code **34AS**,
- connection code **34AQ**,
- connection code **34AU**,
- connection code **34AP**,

between components **261** and **325**.

Scénic:

- connection code **34AT**,
- connection code **34AR**,
- connection code **34AS**,
- connection code **34AQ**,
- connection code **34AU**,
- connection code **34AP**,

between components **261** and **1519**.

If the connection is faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the wiring, otherwise replace it.

AFTER REPAIR	Repeat the conformity check from the start.
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ET006 ET007 ET008 ET009 ET010 ET036 CONTINUED 1	
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Using the universal bornier, check **the insulation, continuity and the absence of interference resistance** on the following connections:

Traffic:

- connection code **34AT**,
- connection code **34AR**,
- connection code **34AS**,
- connection code **34AQ**,
- connection code **34AU**,
- connection code **34AP**,

between components **662** and **325**.

Master:

- connection code **34AT**,
- connection code **34AR**,
- connection code **34AS**,
- connection code **34AQ**,
- connection code **34AU**,
- connection code **34AP**,

between components **261** and **325**.

If the connection is faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the wiring, otherwise replace it.

AFTER REPAIR	Repeat the conformity check from the start.
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ET006 ET007 ET008 ET009 ET010 ET036 CONTINUED 2	
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On component 325 (Scénic: 1519) , carry out the following checks using an ohmmeter:			
Button	Status	Connection of component 325/1519	Resistance
MUTE button (Mégane and Scénic)	Pressed	34AQ and 34AT	< at 300 Ω
	Released		Insulation
+ button	Pressed	34AT and 34AP	< at 300 Ω
	Released		Insulation
- button	Pressed	34AS and 34AP	< at 300 Ω
	Released		Insulation
Top button	Pressed	34AS and 34AQ	< at 300 Ω
	Released		Insulation
High button	Pressed	34AQ and 34AU	< at 300 Ω
	Released		insulation
Low button	Pressed	34AU and 34AP	< at 300 Ω
	Released		insulation

AFTER REPAIR	Repeat the conformity check from the start.
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<p>ET006 ET007 ET008 ET009 ET010 ET036</p> <p>CONTINUED 3</p>	
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<p>If the measured values do not correspond with the values above, replace the radio satellite control. Mégane II ph2 (see MR 364 mechanical, 84A Control - Signals, Steering wheel controls: Removal - Refitting). Laguna II ph2 (see MR 395 mechanical, 84A Control - Signals, Steering wheel controls: Removal - Refitting). Scénic II ph2 (see MR 370 mechanical, 84A Control - Signals, Steering wheel controls: Removal - Refitting). Master ph2 and ph3 (see MR 377 mechanical, 86A, Radio control satellite: Removal - Refitting). Master propulsion ph2 (see Technical Note 3818A, 86A, Radio, Radio control satellite: Removal - Refitting). Trafic II ph1 and ph2 (see MR 408 mechanical, 86A, Radio control satellite: Removal - Refitting).</p>
<p>If the measurements are in order, contact the Techline.</p>

<p>AFTER REPAIR</p>	<p>Repeat the conformity check from the start.</p>
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ET037	<u>SATELLITE WHEEL</u>
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NOTES	There must be no present or stored faults.
	Use the Wiring Diagram Technical Note for the vehicle concerned.

Check **the condition and connection** of the connector of component **325 (Scénic: 1519)** and the black 24-track connector of component **261 (commercial vehicle: 662)**.
If the connector is faulty and there is a repair procedure (**see Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the connector, otherwise replace the wiring.

AFTER REPAIR	Repeat the conformity check from the start.
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ET037 CONTINUED 1	
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<p>Using the universal bornier, check the insulation, continuity and the absence of interference resistance on the following connections:</p> <p>Mégane and Laguna:</p> <ul style="list-style-type: none">● connection code 34AT,● connection code 34AR,● connection code 34AS,● connection code 34AU, <p>between components 261 and 325.</p> <p>Scénic:</p> <ul style="list-style-type: none">● connection code 34AT,● connection code 34AR,● connection code 34AS,● connection code 34AU, <p>between components 261 and 1519.</p> <p>Trafic:</p> <ul style="list-style-type: none">● connection code 34AT,● connection code 34AR,● connection code 34AS,● connection code 34AQ,● connection code 34AU,● connection code 34AP, <p>between components 662 and 325.</p> <p>Master:</p> <ul style="list-style-type: none">● connection code 34AT,● connection code 34AR,● connection code 34AS,● connection code 34AQ,● connection code 34AU,● connection code 34AP, <p>between components 261 and 325.</p> <p>If the connection is faulty and there is a repair procedure (see Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.</p>	
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AFTER REPAIR	Repeat the conformity check from the start.
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Fault finding - Interpretation of statuses

ET037
CONTINUED 2

Check that the wheel is operating correctly by checking the continuity between the following connections:

- 34AR and 34AT
- 34AR and 34AU
- 34AR and 34AS

on component **325 (Scénic: 1519)**.

If there is no continuity, replace component **325 (Scénic: 1519)**.

Mégane II ph2 (see **MR 364 mechanical, 84A Control - Signals, Steering wheel controls: Removal - Refitting**).

Laguna II ph2 (see **MR 395 mechanical, 84A Control - Signals, Steering wheel controls: Removal - Refitting**).

Scénic II ph2 (see **MR 370 mechanical, 84A Control - Signals, Steering wheel controls: Removal - Refitting**).

Master ph2 and ph3 (see **MR 377 mechanical, 86A Radio, Radio control satellite: Removal - Refitting**).

Master propulsion ph2 (see **Technical Note 3818A, 86A, Radio, Radio control satellite: Removal - Refitting**).

Trafic II ph1 and ph2 (see **MR 408 mechanical, 86A Radio, Radio control satellite: Removal - Refitting**).

If the fault is still present, contact the Techline.

AFTER REPAIR

Repeat the conformity check from the start.

Tool parameter	Diagnostic tool title
PR001	Battery voltage
PR002	Vehicle speed
PR006	External temperature
PR008	Number of satellites received
PR009	Angular position
PR010	Radio field intensity

Fault finding - Interpretation of parameters

PR001	<u>BATTERY VOLTAGE</u>
-------	------------------------

NOTES	There must be no present or stored faults.
	Use the Wiring Diagram Technical Note for the vehicle concerned.

Check the **permanent +** feed fuse of component **261 (Trafic: 662)**.
Check **the condition** of the connectors of components **710 (Laguna)**, **260 (Mégane II and Scénic)** or **1016 (commercial vehicle)** according to the location of the fuse.

If the voltage is at minimum:

Check the battery and the charge circuit (see **Technical Note 6014A Checking the charge circuit**).

If the voltage is at maximum:

Check that the charging voltage is correct with and without electrical consumers switched on.

AFTER REPAIR	Repeat the conformity check from the start.
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<p>PR001</p> <p>CONTINUED</p>	
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<p>Using the universal bornier, check the insulation, continuity and the absence of interference resistance on the following connections:</p> <p>Mégane:</p> <ul style="list-style-type: none">● connection code BCP3, between components 261, 260 and 1303.● connection code MAO, between component 261 and earth MAO. <p>Laguna:</p> <ul style="list-style-type: none">● connection code BCP4, between components 261 and 710.● connection code MT, between component 261 and MT earth. <p>Scénic:</p> <ul style="list-style-type: none">● connection code BCP3, between components 261 and 260.● connection code MAO, between component 261 and earth MAO. <p>Trafic:</p> <ul style="list-style-type: none">● connection code BCP4, between components 1016 and 662.● connection code MT, between component 662 and earth MT. <p>Master:</p> <ul style="list-style-type: none">● connection code BCP4, between components 1016 and 261.● connection code NL, between component 261 and earth NL. <p>If the connection is faulty and there is a repair procedure (see Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.</p>
--

<p>AFTER REPAIR</p>	<p>Repeat the conformity check from the start.</p>
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PR002	<u>VEHICLE SPEED</u>
-------	----------------------

NOTES	There must be no present or stored faults.
	Use the Wiring Diagram Technical Note for the vehicle concerned.

Run fault finding on the ABS system (see 38C, Anti-lock braking system).
If there is no ABS system fault indicated, check connection 47F between components 1094 and 261 (Traffic: 662) . If the connection is faulty and there is a repair procedure (see Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.
If the fault is still present, contact the Techline.

AFTER REPAIR	Repeat the conformity check from the start.
--------------	---

PR006	<u>EXTERNAL TEMPERATURE</u>
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NOTES	Only apply the checks if the parameter is inconsistent.
	There must be no present or stored faults.
	Special notes: On the Laguna, Traffic, Master and Master propulsion, the exterior temperature information is supplied by the exterior temperature sensor. On Mégane and Scénic, this information comes from the UCH.
	Use the Wiring Diagram Technical Note for the vehicle concerned.

Only for Laguna, Traffic, Master and Master propulsion

Check **the condition and connection** of the connector of component **240** (component **239** for right-hand drive vehicles) and the black 24-track connector of component **261 (Traffic: 662)**.

If the connector is faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the connector, otherwise replace the wiring.

Using the universal bornier, check **the insulation, continuity and the absence of interference resistance** on the following connections:

Left-hand drive:

- 47C connection code,
 - 47D connection code,
- between components **261 (Traffic: 662)** and **240**.

Right-hand drive:

- 47C connection code,
 - connection code 47D,
- between components **261 (Traffic: 662)** and **239**.

If the connection is faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the wiring, otherwise replace it.

AFTER REPAIR	Repeat the conformity check from the start.
--------------	---

<p>PR006 CONTINUED</p>	
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<p>If the temperature measured by the sensor does not correspond to the exterior temperature, measure the sensor resistance between connections 47C and 47D. The resistance should be approximately 3000 Ω ± 300 Ω at 20 °C. Replace the sensor if faulty. Laguna II ph2 (see MR 395 mechanical, 84A Control - Signals, temperature sensor: Removal - Refitting) Trafic II ph1 and ph2 (see MR 408 mechanical, 84A Control - Signals, temperature sensor: Removal - Refitting) Master ph2 and ph3 (see MR 377 mechanical, 84A Control - Signals, temperature sensor: Removal - Refitting) Master propulsion ph2 (see Technical Note 3818A, 84A, Control - Signals, Exterior temperature sensor: Removal - Refitting)</p>
<p>If the fault is still present, contact the Techline.</p>

<p>Only for Mégane II ph 2 and Scénic II ph2</p>

<p>Check the condition and connection of the connector of component 645 and the black 24-track connector of component 261. If the connector is faulty and there is a repair procedure (see Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair), repair the connector, otherwise replace the wiring.</p>
<p>Using the universal bornier, check the insulation, continuity and the absence of interference resistance on connection 47Z (Mégane) or 47C (Scénic) between components 261 and 645. If the connection is faulty and there is a repair procedure (see Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.</p>
<p>If the fault is still present, apply the fault finding procedure for the UCH system (see 87B, Passenger compartment connection unit).</p>

<p>AFTER REPAIR</p>	<p>Repeat the conformity check from the start.</p>
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PR008	<u>NUMBER OF SATELLITES RECEIVED</u>
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NOTES	There must be no present or stored faults.
	Use the Wiring Diagram Technical Note for the vehicle concerned.

Check **the condition and connection** of the GPS coaxial connector of the following components (bent pins, bad contacts, etc.):

Commercial vehicle: 662 and 886.

Mégane cabriolet: 261, 1551 and 886.

Mégane and Scénic: 886 and 261.

Laguna: 261 and 1551.

If the connector is faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the connector, otherwise replace the wiring.

Disconnect the GPS coaxial cable at the rear of component **261 (Traffic: 662)** and measure the resistance between the core and the shielding.

If the resistance is less than **30 Ω**, disconnect the GPS coaxial cable from the cut-off plate at the rear and check the insulation, continuity and absence of interference resistance on the GPS coaxial cable at the rear of component **261 (Traffic: 662)**.

If the connections are not correct, replace the coaxial cable.

If the connections are correct, replace the GPS aerial.

Mégane II ph2

(see **MR 364 mechanical, 83C On-board telematics system, Aerial: Removal - Refitting**)

Laguna II ph2

(see **MR 395 mechanical, 83C On-board telematics system, Aerial: Removal - Refitting**)

Scénic II ph2

(see **MR 370 mechanical, 83C On-board telematics system, Aerial: Removal - Refitting**)

Trafic II ph1 and ph2

(see **MR 408 mechanical, 83C On-board telematics system, Aerial: Removal - Refitting**)

Master ph2 and ph3

(see **MR 377 mechanical, 83C On-board telematics system, Aerial: Removal - Refitting**)

Master propulsion ph2

(see **Technical Note 3818A, 83C On-board telematics system, Navigation aerial: Removal - Refitting**).

If the resistance is greater than **30 Ω**, check the feed voltage of component **1551 (4.5 V ± 0.5 V)** at the output of component **1551 or 886**.

If the voltage is not correct, contact the Techline.

AFTER REPAIR	Repeat the conformity check from the start.
--------------	---

PR008
CONTINUED

Using the universal bornier, check the insulation, continuity and the absence of interference resistance on the following connections:

Laguna:

- connection code **TB15**,
- connection code **46CB**,

between components **261** and **1551**.

If the connections are faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the wiring, otherwise replace it.

Using the universal bornier, check **the insulation, continuity and the absence of interference resistance** on the following connections:

Mégane, Scénic:

- connection code **46CB**,
- connection code **TB15**,

between components **261** and **886**.

Mégane cabriolet:

- connection code **46CB**,
- connection code **TB15**,

between components **1551** and **886**.

Trafic:

- connection code **46CB**,
- connection code **TB15**,

between components **662** and **886**.

Master:

- connection code **46CB**,
- connection code **TB15**,

between components **261** and **886**.

If the connections are faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the wiring, otherwise replace it.

If the fault is still present, contact the Techline.

AFTER REPAIR

Repeat the conformity check from the start.

PR009	<u>ANGULAR POSITION</u>
-------	-------------------------

NOTES	There must be no present or stored faults. Engine stopped, ignition on.
	Use the Wiring Diagram Technical Note for the vehicle concerned.

Remove component 261 (Traffic: 662) without disconnecting the connectors. Shake the radio/navigation computer vigorously; parameter PR009 Angular position should be above or equal to 1 d/s . Each time the 4R radio/navigation computer is at rest, PR009 Angular position should be very close to 0 d/s .
If the parameter does not change, contact the Techline.

AFTER REPAIR	Repeat the conformity check from the start.
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PR010	<u>RADIO FIELD INTENSITY</u>
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NOTES	There must be no present or stored faults. Engine stopped, ignition on.
	Tune to a known FM or AM station with the vehicle in an open area if possible.

The "Radio field intensity" corresponds to the electrical intensity of the radio signal (FM or AM) received at the radionavigation tuner input, at the frequency currently selected. It is expressed in dB μ V.

It gives an indication of the radio reception level. Below 18 dB μ V, the station is considered weak and does not appear in the list of radio stations.

A low value (< 18 dB μ V) on this parameter means that:

- Either the selected station has a weak transmission in the geographical area. This may be due to the distance from the selected station's transmitter (far from urban area, on motorways) or obstacles interfering with the transmission of radio waves (mountainous areas, buildings, deep valleys).
- Or, if the reception conditions are good in the geographical area for the selected station, there is a fault on the vehicle's reception system: one of the components (aerial/aerial amplifier/coaxial connection/radio aerial connector) is faulty. In this case, refer to ALP 4.

This parameter may be used to compare two vehicles in order to determine if there actually is a vehicle fault.

Summary table of field values and their effect on radio reception:

Radio field intensity	Audio quality	RDS* decoding (eg.: station names display)	Automatic tuning/ Presence in the radio list
PR010 > 18 dB μ V	OK	OK	OK
14 dB μ V < PR010 < 18 dB μ V	OK	OK	NOK
10 dB μ V < PR010 < 14 dB μ V	OK	NOK	NOK
PR010 < 10 dB μ V	NOK	NOK	NOK

*RDS: Radio Data System

AFTER REPAIR	Repeat the conformity check from the start.
--------------	---

Tool command	Diagnostic tool title
RZ001	Fault memory
AC004	Speaker test
AC021	Display test
AC022	CD ejection
VP002	Write VIN
VP005	Computer configuration

CLEARING

RZ001 Fault memory:

This command is used to clear faults stored in the navigation computer.

ACTIVATIONS

AUDIO tab

AC004 Speaker test:

This command is used to perform a listening test on the speakers.

DISPLAY tab

AC021 Display test:

This command is used to check that the video display is operating correctly. Three colours are displayed on the screen: Red, green and blue, and a black mosaic on a white background.

USER SELECTION tab

AC022 CD ejection:

This command is used to eject the CD from the CD reader, and not from the CD changer.

Fault finding - Dealing with commands

AC004	<u>SPEAKER TEST</u>
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NOTES	There must be no present or stored faults.
	Special note: A different bleep is emitted from each speaker. Check that the "balance/fader" settings used are the default ones.
	Use the Wiring Diagram Technical Note for the vehicle concerned.

Check **the condition and connection** of the white 8-track connector of component **261 (Traffic: 662)**.
Also check **the condition and connection** of the faulty speaker connector.
If the connector is faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the connector, otherwise replace the wiring.

AFTER REPAIR	Carry out another fault finding check on the system.
--------------	--

Fault finding - Dealing with commands

AC004
CONTINUED 1

Using the universal bornier, check **the insulation, continuity and the absence of interference resistance** on the following connections:

Mégane and Scénic:

- connection code **34E**,
 - connection code **34F**,
- between components **261, 365** and **191**.
- connection code **34G**,
 - connection code **34H**,
- between components **261, 192** and **366**.
- connection code **34D**,
 - connection code **34C**,
- between components **261** and **189**.
- connection code **34A**,
 - connection code **34B**,
- between components **261** and **190**.

Laguna:

- connection code **34E**,
 - connection code **34F**,
- between components **261, 365** and **191**.
- connection code **34D**,
 - connection code **34C**,
- between components **261, 189** and **1132**.
- connection code **34A**,
 - connection code **34B**,
- between components **261, 190** and **1133**.
- connection code **34G**,
 - connection code **34H**,
- between components **261, 192** and **366**.

Trafic:

- connection code **34E**,
 - connection code **34F**,
- between components **662, 365** and **191**.
- connection code **34D**,
 - connection code **34C**,
- between components **662** and **189**.
- connection code **34A**,
 - connection code **34B**,
- between components **662** and **190**.
- connection code **34G**,
 - connection code **34H**,
- between components **662, 192** and **366**.

Master:

- connection code **34E**,
 - connection code **34F**,
- between components **261, 365** and **191**.
- connection code **34D**,
 - connection code **34C**,
- between components **261** and **189**.
- connection code **34A**,
 - connection code **34B**,
- between components **261** and **190**.
- connection code **34G**,
 - connection code **34H**,
- between components **261, 192** and **366**.

AFTER REPAIR

Carry out another fault finding check on the system.

AC004 CONTINUED 2	
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<p>If the connection is faulty and there is a repair procedure (see Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.</p>
<p>If these tests are correct but one or more speakers do not work, replace the faulty speaker or speakers.</p> <p>Mégane II ph2:</p> <ul style="list-style-type: none">– Front tweeter (see MR 364 mechanical, 86A radio, Tweeter speaker: Removal - Refitting)– Front speakers (see MR 364 mechanical, 86A radio, Front speakers: Removal - Refitting)– Rear speakers (see MR 364 mechanical, 86A radio, Rear speakers: Removal - Refitting) <p>Laguna II ph2:</p> <ul style="list-style-type: none">– Tweeter (see MR 395 mechanical, 86A radio, Tweeter speaker: Removal - Refitting)– Front speakers (see MR 395 mechanical, 86A radio, Front speakers: Removal - Refitting)– Rear speakers (see MR 395 mechanical, 86A radio, Rear speakers: Removal - Refitting) <p>Scénic II ph2:</p> <ul style="list-style-type: none">– Front tweeter (see MR 370 mechanical, 86A radio, Tweeter speaker: Removal - Refitting)– Front speakers (see MR 370 mechanical, 86A radio, Front speakers: Removal - Refitting)– Rear speakers (see MR 370 mechanical, 86A radio, Rear speakers: Removal - Refitting) <p>Trafic II ph1 and ph2:</p> <ul style="list-style-type: none">– Tweeter (see MR 408 mechanical, 86A radio, Tweeter speaker: Removal - Refitting)– Front speakers (see MR 408 mechanical, 86A radio, Front speakers: Removal - Refitting)– Rear speakers (see MR 408 mechanical, 86A radio, Rear speakers: Removal - Refitting) <p>Master ph2 and ph3:</p> <ul style="list-style-type: none">– Front speakers (see MR 377 mechanical, 86A radio, Front speakers: Removal - Refitting)– Rear speakers (see MR 377 mechanical, 86A radio, Rear speakers: Removal - Refitting) <p>Master propulsion ph2:</p> <ul style="list-style-type: none">– Front speakers (see Technical Note 3818A, 86A radio, Front speakers: Removal - Refitting)– Rear speakers (see Technical Note 3818A, 86A radio, Rear speakers: Removal - Refitting)
<p>If the fault is still present, contact the Techline.</p>

AFTER REPAIR	Carry out another fault finding check on the system.
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NOTES	Only consult the customer complaints after performing a complete check with the diagnostic tool.
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NO DIALOGUE WITH THE COMPUTER	ALP 1
THE SCREEN STAYS BLACK	ALP 2
POOR GUIDANCE/POOR LOCATION/GPS FAULT	ALP 3
POOR RADIO RECEPTION	ALP 4
CD READ FAULT	ALP 5
STUCK ON MESSAGE "LOADING GENERAL MAP"	ALP 6
THE SYSTEM EMITS BLEEPS	ALP 7
THE RADIO DOES NOT SWITCH ON AUTOMATICALLY OR GOES OFF AFTER 20 MINUTES	ALP 8
POOR/NO TEMPERATURE DISPLAY	ALP 9
THE SCREEN DISPLAYS "CD0000"	ALP 10

NOTES	Only consult the customer complaints after performing a complete check with the diagnostic tool.
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THE 6 CD CHANGER DOES NOT WORK	ALP 11
NO RADIO AND/OR CD SOUND	ALP 12
SATELLITE CONTROL	ALP 13
FRONT PANEL BUTTON FAULT	ALP 14
NO NAVIGATION VOICE MESSAGES	ALP 15
THE VOLUME DOES NOT INCREASE WITH THE VEHICLE SPEED	ALP 16
NO TRAFFIC INFORMATION MESSAGES APPEAR ON THE SCREEN	ALP 17
THE DISPLAY ON THE SCREEN STAYS FROZEN	ALP 18

ALP 1

No dialogue possible between the computer and the CLIP tool

NOTES

Switch on the + after ignition feed to enter fault finding mode with the computer.

Use the Wiring Diagram Technical Note for the vehicle concerned.

Note:

For Laguna, the system can only be switched on with the ignition on. The on/off button does not operate with the ignition off.

Try the diagnostic tool on another vehicle.

Yes

Is dialogue possible with a computer?

No

On the faulty vehicle.
Check the battery voltage (see **PR001 Battery voltage**).
Check the condition and connection of the battery connections.
Check the condition of the fuses.

Check:

- the connection between the diagnostic tool and the diagnostic probe (lead in good condition):
- the connection between the diagnostic lead and the diagnostic socket (lead in good condition).

A

AFTER REPAIR

Carry out a complete check with the diagnostic tool.

ALP 1
CONTINUED

A

Check component **225** on the vehicle:

- Check for **+ 12 V battery feed** on connection **BCP4** (Laguna), **BP32** (Mégane and Scénic) or **BP10** (commercial vehicle), **+ 12 V after ignition feed** on connection **AP10** (Laguna), **AP43** (Mégane and Scénic) or **AP26** (commercial vehicle) and an **earth** on connections **MA, MB and NAP** (Laguna), **NC and MK** (LHD commercial vehicle), **NJ and MJ** (RHD commercial vehicle), **MAM and NAM** (Scénic), **MAM and NAM** (RHD Mégane), **MAN and NAM** (LHD Mégane), of component **225**.
- Also check for **+ 12 V battery feed** on connection **BCP4** (commercial vehicle and Laguna) or **BCP3** (Mégane and Scénic) and an **earth** on connection **MT** (Trafic and Laguna), **MAO** (Mégane and Scénic) or **NL** (Master) of the black 8-track connector of component **261 (Trafic: 662)**.

Using the universal bornier, check **the insulation, continuity and the absence of interference resistance** on the following connections:

- connection code **107W**,
 - connection code **107X**,
- between components **261** and **225**.

Trafic:

- connection code **34GA**,
 - connection code **34DZ**,
- between components **662** and **225**.

Are these tests correct?

Yes

If the fault has not been solved, contact Techline.

No

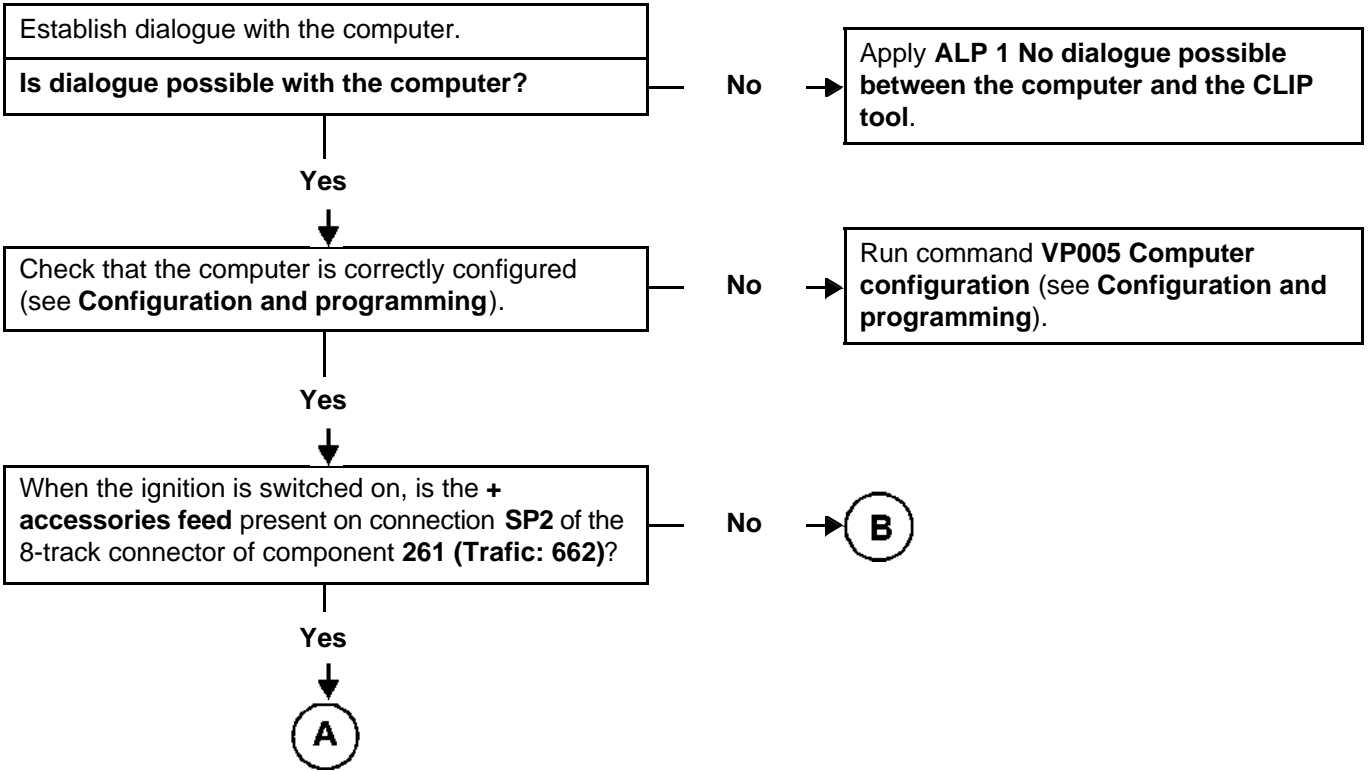
If the connection or connections are faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the wiring, otherwise replace it.

AFTER REPAIR

Carry out a complete check with the diagnostic tool.

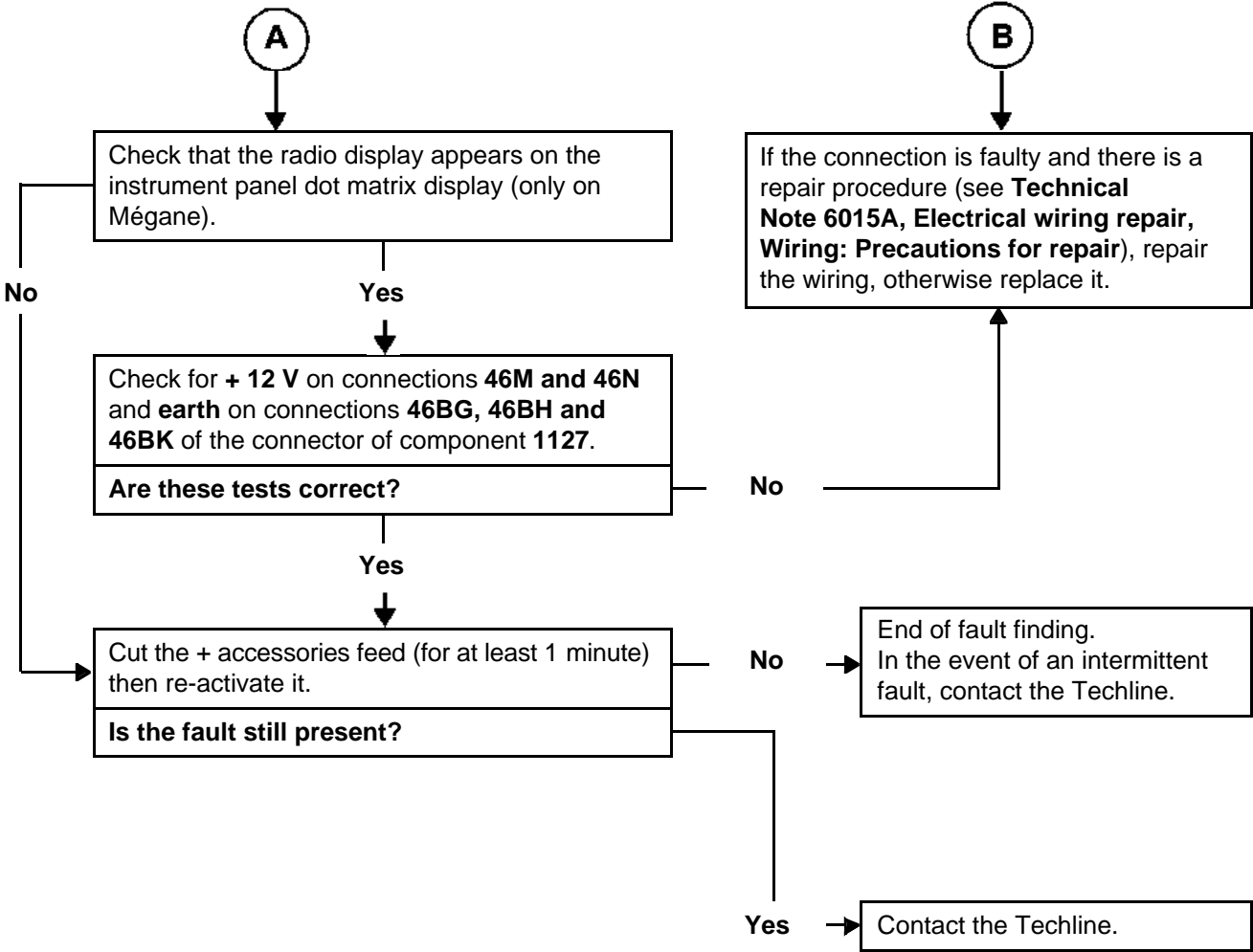
ALP 2	The screen stays black
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NOTES	Only consult this ALP after a complete check with the diagnostic tool. Check that the fault remains after pressing the on/off button for component 261 (Traffic: 662) . Use the Wiring Diagram Technical Note for the vehicle concerned.
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AFTER REPAIR	Carry out a complete check with the diagnostic tool.
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ALP 2
CONTINUED



AFTER REPAIR

Carry out a complete check with the diagnostic tool.

ALP 3

Poor guidance/poor location/GPS fault

NOTES

Only check the customer complaint after performing a **full check with the diagnostic tool**.
Place the vehicle in an open area for 10 minutes with the system switched on.
Use the Wiring Diagram Technical Note for the vehicle concerned.

Is the GPS pictogram green?

No



Yes

Carry out a road test and check parameter **PR002 Vehicle speed** (see **conformity check**).

Has the fault been solved?

Yes

End of fault finding.

No

Check the conformity of parameter **PR009 Angular position** (see **Conformity check**).

Has the fault been solved?

Yes

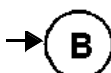
End of fault finding.

No

Carry out a road test to try to reproduce the fault described by the customer.

Has the fault been reproduced?

Yes



No

Possible customer misunderstanding regarding system performance (eg.: location accuracy) or operation (eg.: use of cartographic CD-ROM).
Refer to the Driver's Handbook.

AFTER REPAIR

Carry out a complete check with the diagnostic tool.

ALP 3
CONTINUED



Disconnect the GPS coaxial cable at the rear of component **261 (Traffic: 662)** and measure the resistance between the core and the shielding.
Is the value **less than 30 Ω**?

Yes

No

Disconnect the GPS coaxial cable from the cut-off plate at the rear and check **the insulation, continuity and the absence of interference resistance** on the GPS coaxial cable at the rear of component **261 (Traffic: 662)**.

Is the check result correct?

No

Yes

Replace the passenger compartment GPS coaxial cable.

Replace component **1551**.

Check the feed voltage on component **1551** (commercial vehicle, Mégane and Scénic: **886**) (4.5 V ± 0.5 V) at the output of component **261 (Traffic: 662)**.

Is the check result correct?

Yes

No

Contact the Techline.



AFTER REPAIR

Carry out a complete check with the diagnostic tool.

ALP 4

Poor radio reception

NOTES

Only check the customer complaint after performing a **full check with the diagnostic tool**.
Use the **Wiring Diagram Technical Note** for the vehicle concerned.

Is the radio field intensity appropriate (see Interpretation of parameter **PR010 Radio field intensity**)?

Yes

No

Check **the condition and connection** of the connectors of component **261 (Traffic: 662)** and component **886**.

Using the universal bornier, check **the insulation, continuity and the absence of interference resistance** on the following connections:

- **TB13 connection code.**
- **34AN connection code.**

Between components **261 (commercial vehicle: 662)** and **886**.

Also check the feed to component **886** on connection **34AM (12 V \pm 1 V)**.

Are the connections faulty?

Yes

No

If the connection or connections are faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the wiring, otherwise replace it.

Has the fault been solved?

Yes

No

End of fault finding.

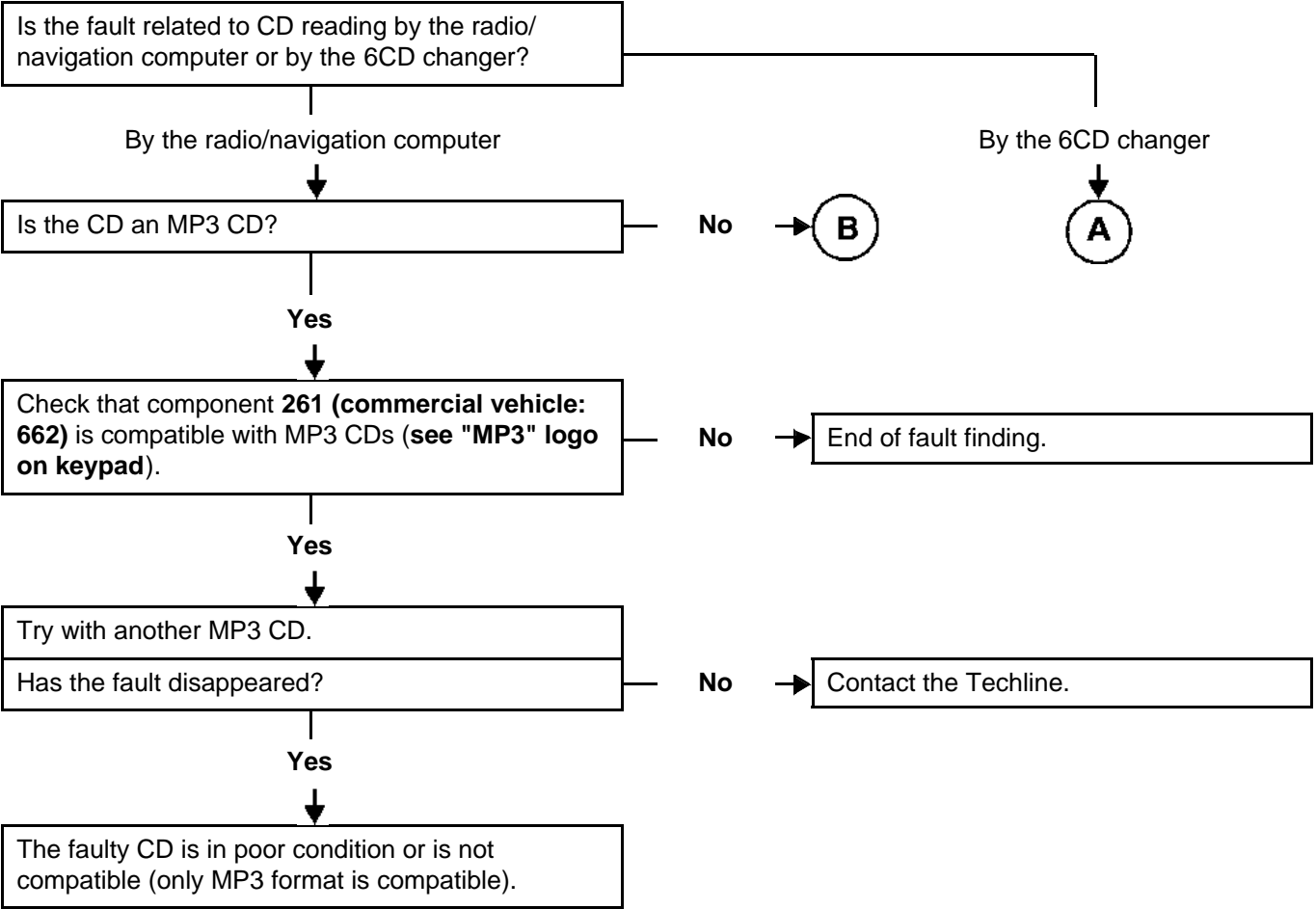
Contact the Techline.

AFTER REPAIR

Carry out a complete check with the diagnostic tool.

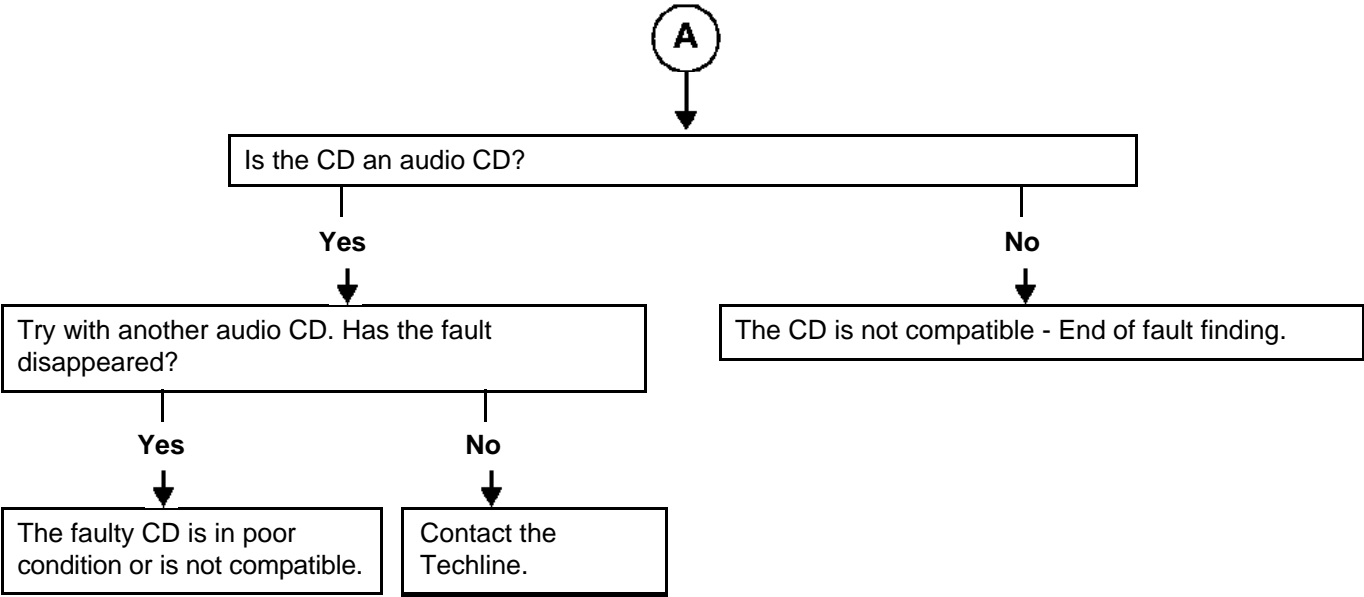
ALP 5	CD read fault
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NOTES	Only check the customer complaint after performing a full check with the diagnostic tool . Ensure there are no present or stored faults. Use the Wiring Diagram Technical Note for the vehicle concerned.
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AFTER REPAIR	Carry out a complete check with the diagnostic tool.
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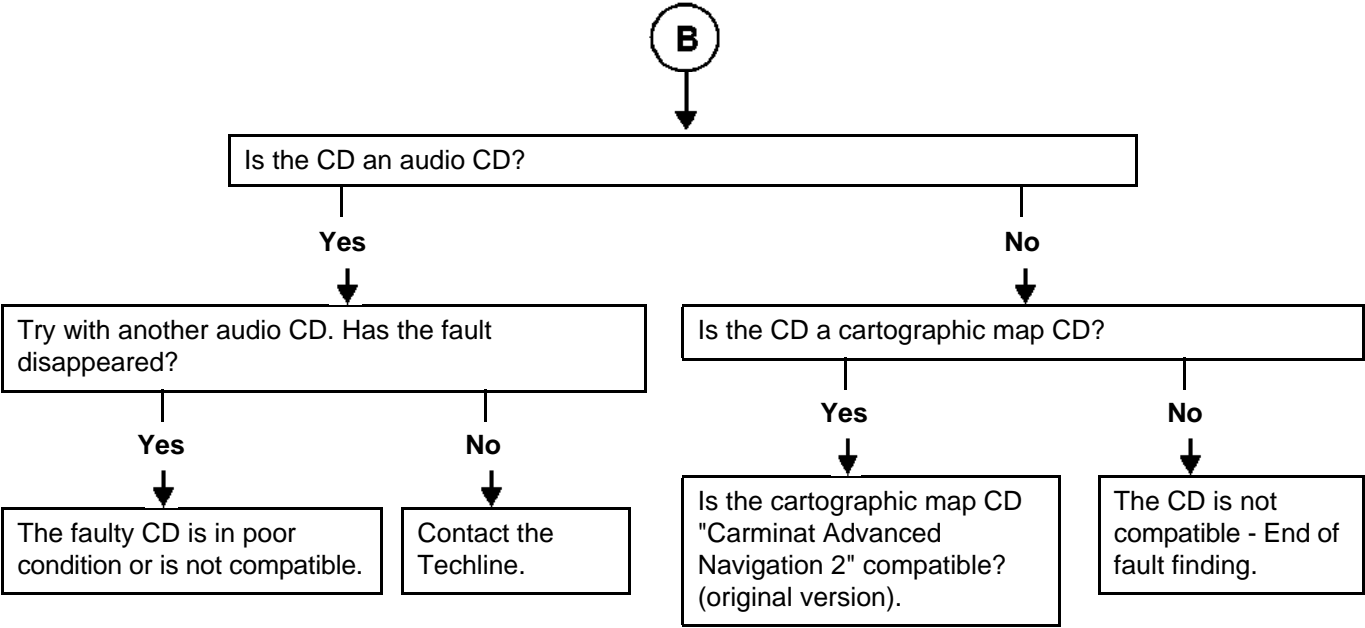
ALP 5
CONTINUED 1



AFTER REPAIR

Carry out a complete check with the diagnostic tool.

ALP 5
CONTINUED 2



AFTER REPAIR

Carry out a complete check with the diagnostic tool.

ALP 6

**Stuck on message
Loading general map**

NOTES

Only check the customer complaint after performing a **full check with the diagnostic tool**.
Use the Wiring Diagram Technical Note for the vehicle concerned.

Check for the cartographic map CD in component **261 (commercial vehicle: 662)**.



After inserting the cartographic map CD in component **261 (commercial vehicle: 662)**, check that the general map starts loading:

- message "Loading general map" displayed,
- display: (after 1 minute maximum) "progress percentage" pictogram (eg.: 35 %) in the lower status bar.

Note:

Loading may take up to 15 minutes.

Do not interrupt the loading process (by ejecting CD, switching off equipment, cutting + accessories feed, etc.).

Loading is complete when the map appears.

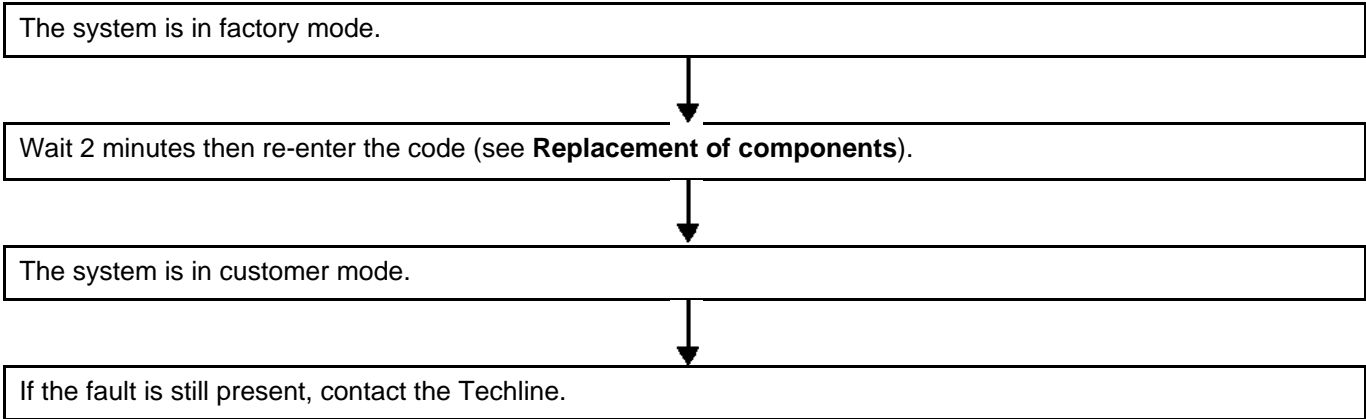
If the fault is still present, contact the Techline.

AFTER REPAIR

Carry out a complete check with the diagnostic tool.

ALP 7	The system emits beeps
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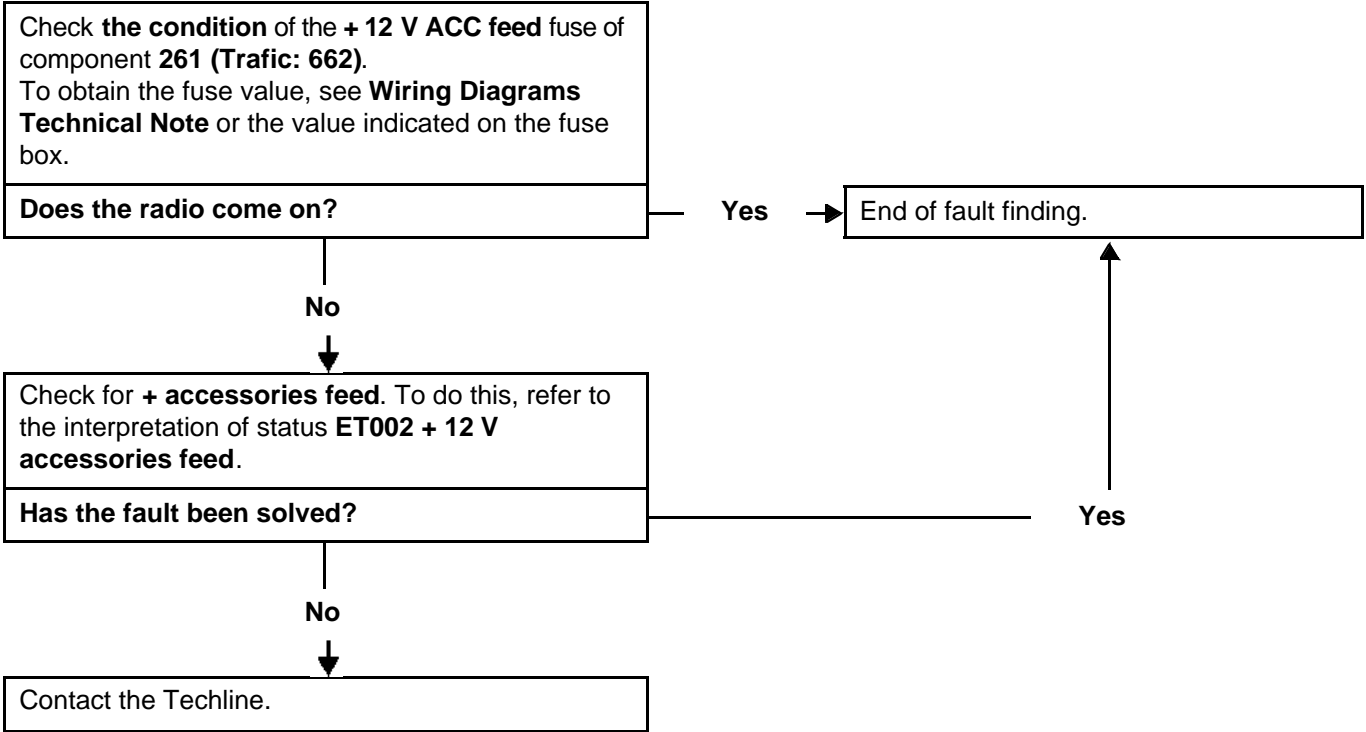
NOTES	Only check the customer complaint after performing a full check with the diagnostic tool .
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AFTER REPAIR	Carry out a complete check with the diagnostic tool.
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ALP 8	The radio does not switch on automatically or switches off after 20 minutes
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NOTES	Only check the customer complaint after performing a full check with the diagnostic tool . Ensure there are no present or stored faults. Do not apply the following fault finding procedure to the Laguna II ph2. Use the Wiring Diagram Technical Note for the vehicle concerned.
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AFTER REPAIR	Carry out a complete check with the diagnostic tool.
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ALP 9	Poor/no temperature display
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NOTES	Only check the customer complaint after performing a full check with the diagnostic tool .
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If the temperature displayed is incorrect, refer to the interpretation of parameter PR006 Exterior temperature .

AFTER REPAIR	Carry out a complete check with the diagnostic tool.
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ALP 10	The screen displays "CD0000"
NOTES	Only check the customer complaint after performing a full check with the diagnostic tool . Ensure there are no present or stored faults.
<div><div>Is this message displayed following replacement of the radio/navigation computer?</div><div><div>Yes</div><div><div>This message is displayed following replacement of the radio/navigation computer. Enter the anti-theft code from the old computer linked to the changer. The changer registers the new computer's code.</div><div>If the old radio code is lost, the changer code can be cleared using the clearing code. To obtain the clearing code, contact the Techline.</div><div>It is necessary to enter the 6 CD changer immobiliser code. To do this, follow the instructions in Technical Note 5037A Code supply procedure.</div></div></div><div><div>No</div><div><div>This message is displayed after the 6 CD changer is replaced. The computer code is programmed when the battery or changer are connected. When it is installed in the vehicle, the CD changer is programmed with the radio supply code. Note: The CD changer is supplied uncoded.</div></div></div></div>	
AFTER REPAIR	Carry out a complete check with the diagnostic tool.

ALP 11

The 6 CD changer does not work

NOTES

Only check the customer complaint after performing a **full check with the diagnostic tool**.
Ensure there are no present or stored faults.
Use the Wiring Diagram Technical Note for the vehicle concerned.

Disconnect then reconnect component **1272**.

Does the CD changer request its code?
("CD 0000")

Yes

Refer to **ALP 10** The screen displays
"CD0000".

No

Check **the condition and connection** of the connector of components **261 (Traffic: 662)** and **1272**.
If the connector is faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the connector, otherwise replace the wiring.

Has the fault been solved?

No

With the radio switched on, check for **+ battery feed** on connection **34BC** and **+ accessories feed** on connection **34BD** of the connector of component **1272**.

Are the + battery and + accessories feeds present?

No

Check **the continuity, insulation and the absence of interference resistance** on connections **34BC, 34BL** and **34BD** between components **261 (Traffic: 662)** and **1272**.

Yes

Are the connections correct?

No

Contact the Techline.

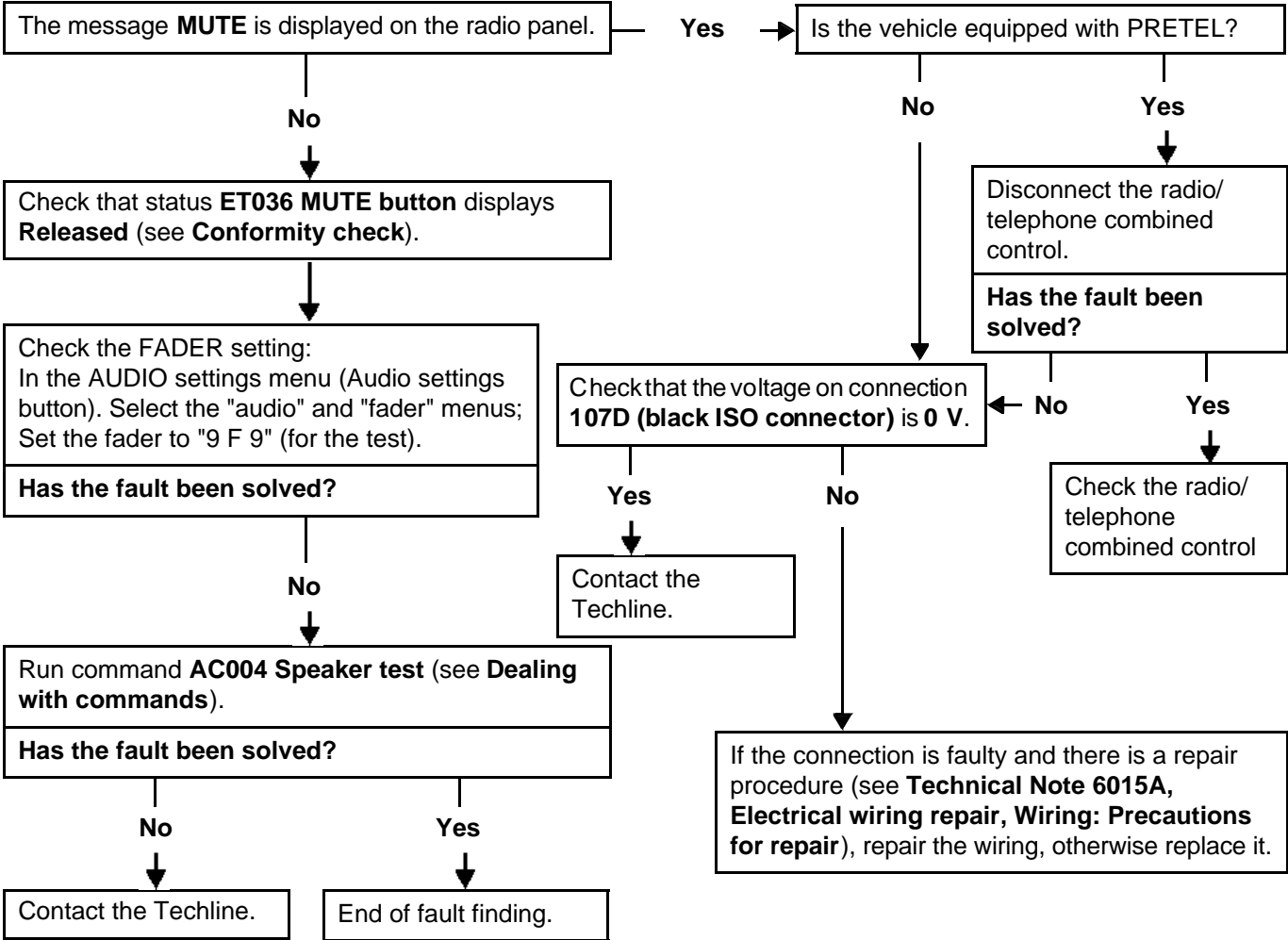
If the connection or connections are faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the wiring, otherwise replace it.

AFTER REPAIR

Carry out a complete check with the diagnostic tool.

ALP 12	No radio and/or CD sound
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NOTES	Only check the customer complaint after performing a full check with the diagnostic tool . Ensure there are no present or stored faults. Use the Wiring Diagram Technical Note for the vehicle concerned.
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AFTER REPAIR	Carry out a complete check with the diagnostic tool.
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ALP 13	Satellite control
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NOTES	Only check the customer complaint after performing a full check with the diagnostic tool . Ensure there are no present or stored faults.
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There is no response when one of the radio satellite control buttons is pressed.



Refer to the interpretation of statuses **ET006 + button**, **ET007 - button**, **ET008 Top button**, **ET009 High button**, **ET010 Low button**, **ET036 MUTE button** and **ET037 Satellite wheel**.

AFTER REPAIR	Carry out a complete check with the diagnostic tool.
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ALP 14

Front panel button fault

NOTES

Only check the customer complaint after performing a **full check with the diagnostic tool**.
Use the Wiring Diagram Technical Note for the vehicle concerned.

Check for **+ 12 V** on connection **SP2** and earth on connection **MT (Laguna and Trafic)**, **MAO (Mégane and Scénic)** or **NL (Master)** of component **261 (Trafic: 662)**.
If the connection is faulty and there is a repair procedure (see **Technical Note 6015A, Electrical wiring repair, Wiring: Precautions for repair**), repair the wiring, otherwise replace it.

Check that statuses **ET026 Radio On/Off button**, **ET014 Source button**, **ET027 CD eject button**, **ET028 Tone button**, **ET029 Voice synthesiser button**, **ET030 Station preselection button**, **ET032 Navigation button**, **ET033 Directional button**, **ET034 Mode button**, **ET036 MUTE button**, **ET038 Front panel rotary button** and **ET039 Front panel rotary button press** are consistent during use (see **Conformity check**).

Do all the front panel buttons operate correctly?

No

Check that no buttons are jammed.

If a button remains jammed, contact the Techline.

Yes

End of fault finding.
If the fault recurs, contact Techline.

AFTER REPAIR

Carry out a complete check with the diagnostic tool.

ALP 15

No navigation voice messages

NOTES

Only check the customer complaint after performing a **full check with the diagnostic tool**.

Check that the sound from the radio is coming through the front speakers.

Is the sound coming from the speakers?

No

Apply **ALP 12 No radio and/or CD sound**.

Yes

Check that voice guidance is activated. Press the **NAV** button. Select the **configuration** then **voice guidance** menus.

Is the "Voice messages" option active?

No

Activate the option.

Yes

Check that the volume is correctly set. In the AUDIO settings menu (Audio settings button). Select the "volumes" then "NAV" menus and press the + button on the satellite several times to obtain at least volume 13.

Do you hear the: "+ loud" message?

Yes

The fault is solved - customer misunderstanding.

No

Cut the + accessories feed (for at least 1 minute) then re-activate it

Is the fault still present?

No

End of fault finding.
In the event of an intermittent fault, contact the Techline.

Yes

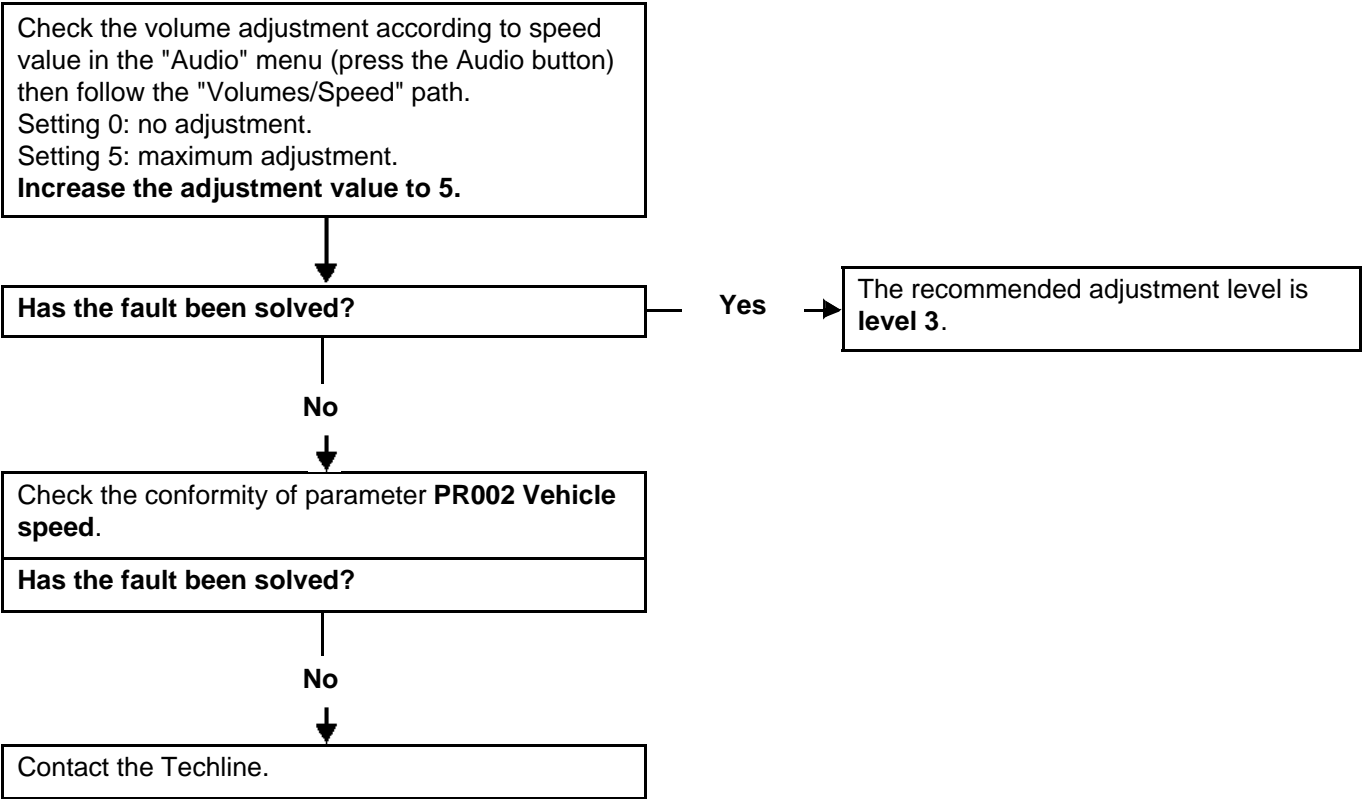
Contact the Techline.

AFTER REPAIR

Carry out a complete check with the diagnostic tool.

ALP 16	The volume does not increase in accordance with the vehicle speed
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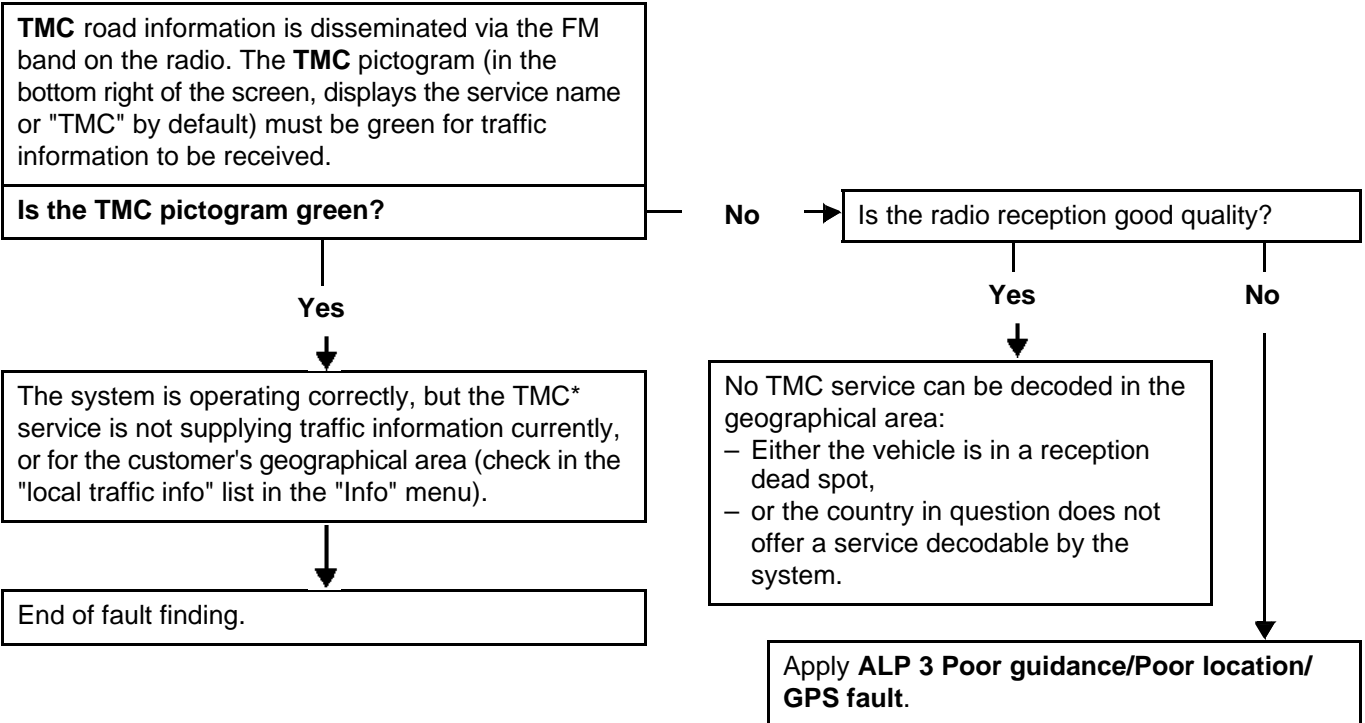
NOTES	Only check the customer complaint after performing a full check with the diagnostic tool .
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AFTER REPAIR	Carry out a complete check with the diagnostic tool.
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ALP 17	No traffic information messages on the screen
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NOTES	Only check the customer complaint after performing a full check with the diagnostic tool . Place the vehicle in an open area for 5 minutes with the system switched on.
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*TMC: Traffic Message Channel

AFTER REPAIR	Carry out a complete check with the diagnostic tool.
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ALP 18	The display on the screen stays fixed
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NOTES	Only check the customer complaint after performing a full check with the diagnostic tool .
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Cut the + accessories feed. (for at least 1 minute) then reactivate it.
Has the fault been solved?

Yes
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End of fault finding.
In the event of an intermittent fault, contact the Techline.

No
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Contact the Techline.

AFTER REPAIR	Carry out a complete check with the diagnostic tool.
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