The repair procedures given by the manufacturer in this document are based on the technical specifications current when it was prepared. The procedures may be modified as a result of changes introduced by the manufacturer in the production of the various component units and accessories from which his vehicles are constructed.
1. SCOPE OF THIS DOCUMENT

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

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.

Type of diagnostic tools
- CLIP

Special tooling required
- Diagnostic tool
- Multimeter Elé. 1622
- Universal bornier Elé. 1681.

WARNING:
- All tests with bornier Elé. 1622 or Elé. 1681 must be conducted with the battery disconnected.
- The bornier is only designed to be used with a multimeter. Never power the test points with 12 V.
Fault finding – Introduction

3. REMINDERS

Procedure

To run diagnostics on the vehicle computers, switch on the ignition using the key.

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 used after switching on the ignition feed (without acting on the system components).

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 Notes section.

If the fault is confirmed when the instructions 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 faulty component,
- the condition of the wires (melted or cut insulation, wear).

Conformity check

The conformity check is a diagnosis used to verify the functionalities that do not show any faults as shown on the diagnostic tool, or can cause a fault if turned off. The conformity check can:
- verify the fault finding or diagnose in case a fault thought absent may correspond to a customer complaint,
- determine the causes of abnormal behaviour and the faults that may cause a customer complaint.

This section gives the fault finding procedures for faults that do not display any faults on the diagnostic tool and may correspond to a customer complaint. The customer should be informed of the conformity check.

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 dealt with by customer complaints.

A summary of the overall procedure is provided on the following pages in the form of a flow chart.
4. FAULT FINDING PROCEDURE

Check the battery charge and the condition of the fuses
Print the system fault finding log (available on CLIP)
Connect CLIP
See ALP no. 1
Read the faults
Conformity check
Deal with present faults
Use fault finding charts (ALPs)
Fault solved
Fault solved
Contact the Techline with the completed fault finding log

Dialogue with computer?

NO
YES

Faults present

NO
YES

The cause is still present

NO
NO
NO

The cause is still present

YES
Fault finding – Introduction

4. FAULT FINDING PROCEDURE (CONTINUED)

Wiring check

Fault finding problems

Disconnecting the connectors and/or manipulating the wiring may temporarily clear 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 of the connection:

• Check that the connector is connected correctly and that the male and female parts of the connection are correctly coupled.

Visual inspection of the area around the connection:

• Check the condition of the mounting (pin, strap, adhesive tape, etc.) if the connectors are attached to the vehicle.
• Check that there is no damage to the wiring trim (sheath, foam, adhesive tape, etc.) near the wiring.
• Check that there is no damage to the electrical wires at the connector outputs, in particular on the insulating material (wear, cuts, burns, etc.).

Disconnect the connector to continue the checks.

Visual inspection of the plastic casing:

• Check that there is no mechanical damage (casing crushed, cracked, broken, etc.), in particular to the fragile components (lever, lock, openings, etc.).
• Check that there is no heat damage (casing melted, darker, deformed, etc.).
• Check that there are no stains (grease, mud, liquid, etc.).

Visual inspection of the metal contacts:

(The female contact is called CLIP. The male contact is called TAB).

• Check that there are no bent contacts (the contact is not inserted correctly and can come out of the back of the connector). The spring contact of the connector when the wire is gently pulled.
• Check that there is no damage (folded tabs, clips open too wide, blackened or melted contact, etc.).
• Check that there is no oxidation on the metal contacts.

Note:

Carry out each requested check visually. Do not remove a connector if it is not required.

Note:

Repeated connections and disconnections alter the functionality of the connectors and increase the risk of poor electrical contact. Limit the number of connections/disconnections as much as possible.

Note:

The check is carried out on the 2 parts of the connection. There may be two types of connection:

– Connector / Connector
– Connector / Device
Fault finding – Introduction

Visual inspection of the sealing:

- Check for the seal on the connection (between the 2 parts of the connection).
- Check the seal at the back of the connectors:
  - For unit joints (1 for each wire), check that the unit joints are present on each electrical wire and that they are correctly positioned in the opening (level with the housing). Check that plugs are present on openings which are not used.
  - For a grommet seal (one seal which covers the entire internal surface of the connector), check that the seal is present.
  - For gel seals, check for gel in all of the openings without removing the excess or any protruding sections (it does not matter if there is gel on the contacts).

- Check that there is no damage to any of the seals (cuts, burns, significant deformation, etc.).

If a fault is detected, repair or replace the wiring (see Technical Note 6015A, Electrical wiring repair, Wiring Precautions for repair).

5. FAULT FINDING LOG

You will always be asked for this log:
- when requesting technical assistance from the Techline,
- when requesting approval before replacing parts for which approval is compulsory,
- 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 INSTRUCTIONS

The safety instructions must be followed at all times when working on components in order to avoid damage or injury:
- check the battery voltage to avoid incorrect operation of computer functions,
- use the appropriate tools

IMPORTANT!
The FAULT FINDING LOG, which should be completed during the fault finding procedure, ensures a record is kept of the procedure carried out. It is an essential document when consulting the manufacturer.

IT IS THEREFORE MANDATORY TO FILL IN A FAULT FINDING LOG EACH TIME IT IS REQUESTED BY TECHLINE OR THE WARRANTY RETURNS DEPARTMENT.
PASSENGER COMPARTMENT CONNECTION UNIT
Fault finding - List and location of components

1. UCH
2. Passenger Compartment Fuse and Relay Box
3. Instrument panel
4. Diagnostic socket
5. Injection computer
6. Rear right-hand door rabbet switch
7. Rear left-hand door rabbet switch
8. Driver's door rabbet switch
9. Passenger's door rabbet switch
10. Luggage compartment switch
11. Heated rear screen
12. Heated rear screen switch
13. Airbag computer / pretensioner
GENERAL OPERATION

The UCH is involved in the following four functions (shared between several computers):

– Access - Security Function
  This function is divided into three sub-functions, which are: Access, Protection, and Starting (see 82D, Access – Security).

– Heating and manual air conditioning function
  In this function, the UCH manages the heated rear screen operation, indicator lights, heating controls, and air conditioning activation requests, via the UCH sending requests to the engine management computer:
  – In the case of a vehicle fitted with manual air conditioning, by pressing on the air conditioning button.

– Wiping function
  This function is divided into two sub-functions, which are: Wiper control and Wiper power (see 85A, Wiping - Washing).

– Lighting Function
  This function is divided into two sub-functions, which are: Lighting control and Lighting power (see 80D, Lighting).

PASSENGER COMPARTMENT CONNECTION UNIT
Fault finding – Role of components
The configuration options for the UCH are:

- **RAID**: Renault Anti-Intruder Device.
- **CPE**: Electric central door locking.

### Configuration Table

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Name of configuration</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>CF020</td>
<td>Factory fitted perimeter protection</td>
<td>SC008</td>
</tr>
<tr>
<td>CF052</td>
<td>De-icing function</td>
<td>Screen 1</td>
</tr>
<tr>
<td>CF053</td>
<td>Starter relay request</td>
<td></td>
</tr>
<tr>
<td>CF054</td>
<td>Hazard warning lights illuminated upon impact</td>
<td></td>
</tr>
<tr>
<td>CF059</td>
<td>Automatic relocking</td>
<td></td>
</tr>
<tr>
<td>CF060</td>
<td>RAID* function authorisation by diag tool</td>
<td></td>
</tr>
<tr>
<td>CF061</td>
<td>Vehicle locked by RAID function</td>
<td></td>
</tr>
<tr>
<td>CF063</td>
<td>Timed courtesy light</td>
<td></td>
</tr>
<tr>
<td>CF067</td>
<td>Heated rear screen when driving</td>
<td></td>
</tr>
<tr>
<td>CF070</td>
<td>Airbag</td>
<td></td>
</tr>
<tr>
<td>CF072</td>
<td>Courtesy light timer</td>
<td></td>
</tr>
<tr>
<td>CF073</td>
<td>Type of key</td>
<td></td>
</tr>
<tr>
<td>CF077</td>
<td>Retrofitted alarm</td>
<td></td>
</tr>
<tr>
<td>CF130</td>
<td>Radiofrequency function</td>
<td></td>
</tr>
<tr>
<td>CF051</td>
<td>Engine type</td>
<td></td>
</tr>
<tr>
<td>CF068</td>
<td>Trailer signalling warning</td>
<td>Screen 3</td>
</tr>
<tr>
<td>CF069</td>
<td>Intermittent variation according to speed</td>
<td></td>
</tr>
<tr>
<td>CF082</td>
<td>Key locking</td>
<td></td>
</tr>
<tr>
<td>CF047</td>
<td>Radiofrequency function</td>
<td></td>
</tr>
<tr>
<td>CF048</td>
<td>Seat belt not fastened sensor</td>
<td></td>
</tr>
<tr>
<td>CF071</td>
<td>Software lock</td>
<td></td>
</tr>
<tr>
<td>CF064</td>
<td>Type of central door locking button (CPE)*</td>
<td></td>
</tr>
<tr>
<td>CF065</td>
<td>Rear screen wiper</td>
<td></td>
</tr>
<tr>
<td>CF066</td>
<td>Rear fog lights</td>
<td></td>
</tr>
<tr>
<td>CF167</td>
<td>Flashing buzzer</td>
<td></td>
</tr>
</tbody>
</table>

**Note**: The table continues on the next page.
CONFIGURATION OF THE UCH COMPUTER

• With the ignition on, establish dialogue with the UCH computer.
• In the Repair Mode menu, go to the Configuration tab.
• Choose the scenario: SC008 UCH type and follow the instructions on the diagnostic tool.
• Check that the configuration has been correctly stored by the Read configuration menu.
When replacing the UCH, component code 645 (see MR 451, Mechanical, 87B, Passenger compartment connection unit, UCH: Removal - Refitting), perform the programming and configurations in the following order:

– Enter the VIN, using command VP004 Enter VIN (see Programming).
– Program the UCH using command SC004 UCH Programming (see Interpretation of commands).
– Configure the UCH (in the Configuration and programming menu) using command SC008 UCH type (see Interpretation of commands).
– Allocate the keys using command SC015 Key allocation (see Interpretation of commands).

The removal of the UCH is carried out after the left storage compartment has been removed.

The UCH is clipped onto its mounting. WARNING: Do not remove the UCH mounting as this may damage it. If it is removed it must be replaced.

The UCH is clipped onto its mounting.
## Fault finding - Fault summary table

<table>
<thead>
<tr>
<th>Condition</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF162</td>
<td>Heated rear screen relay control</td>
</tr>
<tr>
<td>DF177</td>
<td>Siren circuit</td>
</tr>
<tr>
<td>DF184</td>
<td>Impact detected signal</td>
</tr>
<tr>
<td>DF271</td>
<td>UCH internal electronic fault</td>
</tr>
<tr>
<td>DF273</td>
<td>Impact connection</td>
</tr>
</tbody>
</table>

*PASSENGER COMPARTMENT CONNECTION UNIT*
After repair, follow the instructions. Deal with any other faults. Clear the stored faults.

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UCH
Vdiag No.: 09
DF162
PRESENT OR STORED
HEATED REAR SCREEN RELAY CONTROL
CO.0: Open circuit or short circuit to earth
CC.1: Short circuit to +12 V

NOTES
Conditions for applying the fault finding procedure to a stored fault:
The fault is declared present after activation of the heated rear screen, with the engine running.

Special note:
Use the Wiring Diagrams Technical Note for DUSTER.

Check the condition of fuse F01 (20 A) in the passenger compartment fuse box, component code 1016 and the correct operation of the heated rear screen relay, component code 235. Replace the fuse (see MR 451 Mechanical, 81C, Fuses, 80B, Fuses: List and location of components) and the heated rear screen relay if it is faulty.

Check the condition and the connection of the connectors of the heated rear screen relay, component code 235. If the connectors are faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the connector, otherwise replace the wiring.

Check for +12 V on the heated rear screen relay, component code 235 on the following connection:
• AP7 of component 235.

Check the continuity and insulation of the following connection:
• AP7 between components 1016 and 235.

If the connection or connections are faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.

Check the continuity, the insulation to earth, and the absence of interference resistance on the following connection:
• 15M between components 645 and 235.

If the connection is faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.

If the fault is still present, contact the Techline.
AFTER REPAIR

Follow the instructions.

Deal with any other faults.

Clear the stored faults.

---

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PASSENGER COMPARTMENT CONNECTION UNIT

Fault finding – Interpretation of faults

UCH

Vdiag No.: 09

CONTINUED

CC.1

NOTES

None.

Check the condition and the connection of the connectors of the heated rear screen relay, component code 235.

If the connectors are faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the connector, otherwise replace the wiring.

Check the insulation to +12 V and the absence of interference resistance on the following connection:

- 15M between components 1016 and 235.

If the connection is faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.

If the fault is still present, contact the Techline.
After repair:

Follow the instructions.

Deal with any other faults.

Clear the stored faults.

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Passenger Compartment Connection Unit

Fault Finding – Interpretation of faults

Vdiag No.: 09

DF177

PRESENT OR STORED Siren Circuit

CC.1: Short circuit to +12 V

CO.0: Open circuit or short circuit to earth

Notes:

If the vehicle is fitted with an alarm:

– Check that the vehicle is configured with an alarm.

Use the Wiring Diagrams Technical Note for Duster.

Check the condition and presence of fuse F17 (15 A).

Replace the fuse if necessary (see MR 451 Mechanical, 81C, Fuses, Fuses: List and location of components).

Check the condition and connection of the siren connector (tabs bent, oxidised, broken).

If the connector is faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the connector, otherwise replace the wiring.

If the fault is still present, contact the Techline.
AFTER REPAIR
Follow the instructions.
Deal with any other faults.
Clear the stored faults.

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PASSENGER COMPARTMENT CONNECTION UNIT
Fault finding – Interpretation of faults

UCH Vdiag No.: 09

DF184
STORED IMPACT DETECTED SIGNAL

NOTES
The fault is declared stored after an impact is detected.
Perform fault finding on the airbag function (see 88C, Airbags and pretensioners).
If the fault is still present, contact the Techline.
After repair, follow the instructions.
Deal with any other faults.
Clear the stored faults.

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Passenger Compartment Connection Unit
Fault finding - Interpretation of faults

UCH
Vdiag No.: 09
DF271

UCH internal electronic fault

Notes: if there is a fault stored, check whether there are any other faults present and clear them.
Fault declared present when the ignition is switched off.
If the fault is still present, contact the Techline.
AFTER REPAIR
Follow the instructions.
Deal with any other faults.
Clear the stored faults.

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PASSENGER COMPARTMENT CONNECTION UNIT
Fault finding – Interpretation of faults

UCH
Vdiag No.: 09
DF273
PRESENT
OR
STORED
IMPACT CONNECTION

NOTES
Special notes:
The fault is present 8 seconds after the ignition is switched on and becomes stored after the ignition is switched off.

Note:
If this fault is present, the door locking function while driving is inhibited.

Special note:
Use the Wiring Diagrams Technical Note for DUSTER.

Perform fault finding on the airbag function (see 88C, Airbags and pretensioners).

Check the connection and condition of the UCH connectors, component code 645.
If the connectors are faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the connector, otherwise replace the wiring.

Check the connection and condition of the airbag computer connectors, component code 756.
If the connectors are faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), 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 the following connection:
• 60BR between components 645 and 756.
If the connection is faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.

If the fault is still present, contact the Techline.
<table>
<thead>
<tr>
<th>Function Parameter or status</th>
<th>Checked or action</th>
<th>Display and notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine immobiliser ET549:</td>
<td>Immobiliser active</td>
<td>YES / NO</td>
</tr>
<tr>
<td>Blank UCH ET008:</td>
<td>Blank UCH</td>
<td>YES / NO</td>
</tr>
<tr>
<td>Supply PR001:</td>
<td>Battery voltage</td>
<td>12 V &lt; X &lt; 12.5 V</td>
</tr>
<tr>
<td>ET004:</td>
<td>+ 12V after ignition feed</td>
<td>YES / NO</td>
</tr>
<tr>
<td>ET091:</td>
<td>Engine running</td>
<td>YES / NO</td>
</tr>
<tr>
<td>Speed PR008:</td>
<td>Vehicle speed</td>
<td>X in mph (km/h)</td>
</tr>
</tbody>
</table>

In the event of a fault, apply the interpretation of status.
**FAULT FINDING - CONFORMITY CHECK**

**Function:** Access – Security

<table>
<thead>
<tr>
<th>Function Parameter or status</th>
<th>Checked or action</th>
<th>Display and notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed PR008: Vehicle speed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safety ET004: Supply +12V after ignition feed</td>
<td>YES</td>
<td>In the event of a fault, apply the interpretation of status ET004.</td>
</tr>
</tbody>
</table>

**Safety ET176:** Alarm siren. This command is used to activate the siren.

In the event of a fault, apply the procedure for dealing with command ET176.

---

**NOTES**

- Only check conformity after a full check with the diagnostic tool.
- The values shown in this conformity check are given as a guide.
- Application condition: engine off, ignition on.
## Faultfinding - Conformity check

### UCH

#### Vdiag No.: 09

**Function:** Access - Security

**Sub-function:** Starting

#### NOTES

- Only check conformity after a full check with the diagnostic tool.
- The values shown in this conformity check are given as a guide.
- **Application condition:** engine off, ignition on.

### Function Parameter or Status - Checked or action

<table>
<thead>
<tr>
<th>Number</th>
<th>Description of action</th>
<th>Reference</th>
<th>Faultfinding</th>
</tr>
</thead>
<tbody>
<tr>
<td>ET004</td>
<td>Supply</td>
<td></td>
<td>YES</td>
</tr>
<tr>
<td>ET184</td>
<td>Opening elements</td>
<td></td>
<td>YES</td>
</tr>
<tr>
<td>ET549</td>
<td>Engine immobiliser</td>
<td></td>
<td>YES</td>
</tr>
<tr>
<td>ET127</td>
<td>Immobiliser warning light</td>
<td></td>
<td>YES</td>
</tr>
<tr>
<td>PR056</td>
<td>Key</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ET185</td>
<td>Key code received</td>
<td></td>
<td>YES</td>
</tr>
<tr>
<td>AC003</td>
<td>De-icing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ET547</td>
<td>De-icing</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Faultfinding

- In the event of a fault, apply the interpretation of status `ET004`.
- In the event of a fault, apply the interpretation of status `ET184` (see 82D, Access - Security).
- In the event of a fault, apply the interpretation of status `ET549`.
- In the event of a fault, apply the interpretation of status `ET127`.
- In the event of a fault, apply the interpretation of parameter `PR056` (see 82D, Access - Security).
- In the event of a fault, apply the interpretation of status `ET185` (see 82D, Access - Security).
- In the event of a fault, apply the procedure for dealing with command `AC003`.
- In the event of a fault, apply the interpretation of status `ET547`.
AFTER REPAIR
Carry out another fault finding check on the system.
Deal with any other faults.
Clear the stored faults.

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UCH Vdiag No.: 09
ET004 + 12 VOLTS AFTER IGNITION

NOTES
Special note:
Use the Wiring Diagrams Technical Note for DUSTER.

ET004: NO with the ignition on.
Check fuse F04 (10 A) in the passenger compartment fuse box, component code 1016 (see MR 451, Mechanical, 81C, Fuses, Fuses: List and location of components).
Check for +12 V after ignition feed on the UCH, component code 645 on the following connection:
• AP10 of component 645.
Check the continuity and insulation to earth of the following connection:
• AP10 between components 645 and 1016.
If the connection or connections are faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.

ET004: YES with the ignition off.
Using a multimeter, check that there is no +12 V with the ignition off on connection AP10 of the UCH connector, component code 645.
If the voltage is present, check the insulation to +12 V of the following connection:
• AP10 between components 645 and 1016.
If the connection is faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.
If the fault is still present, contact the Techline.
AFTER REPAIR
Carry out another fault finding check on the system.
Deal with any other faults.
Clear the stored faults.

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PASSENGER COMPARTMENT CONNECTION UNIT
Fault finding – Interpretation of statuses

Notes:
The immobiliser warning light status should be OFF when the + after ignition feed is switched on.
The immobiliser warning light status should be ON when the key is not in the ignition switch.

Special note:
Use the Wiring Diagrams Technical Note for DUSTER.

Check the connection and condition of the instrument panel connector, component code.
If the connector is faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the connector, otherwise replace the wiring.

Check the connection and condition of the UCH connector, component code.
If the connector is faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the connector, otherwise replace the wiring.

Using a multimeter, check the continuity and insulation of the following connection:
• 80T between components 645 and 247.
If the connection is faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.
If the fault is still present, contact the Techline.
AFTER REPAIR

Carry out another fault finding check on the system.
Deal with any other faults.
Clear the stored faults.

V2

PASSENGER COMPARTMENT CONNECTION UNIT
Fault finding – Interpretation of statuses

Notes:

Check that no fault is present.
Open the front doors one after another.

Special note:
Use the Wiring Diagrams Technical Note for DUSTER.

Check that status ET489 is OPEN if one of the front doors is open and that the status is CLOSED if all the front doors are closed.

Check the connection and wiring of the left-hand side door rabbet switch, component code 1193 and the passenger’s side door rabbet switch, component code 1192.

If the connectors are faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the connector, otherwise replace the wiring.

Check the continuity and the insulation of the following connections:
• 13A between components 1193 and 645,
• 13A between components 1192 and 645,
• MG between component 1193 and earth,
• MG between component 1192 and earth.

If the connections are faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.

Check the continuity between the two connections of the door rabbet switches. Pull the handle to open the lock and check that there is no longer any continuity between the two connections.

Check that the lock engages into the striker plate properly.

If the fault is still present, contact the Techline.
AFTER REPAIR

Carry out another fault finding check on the system.

Deal with any other faults.

Clear the stored faults.

Notes:

There must be no present or stored faults.

Special note:

Use the Wiring Diagrams Technical Note for DUSTER.

Check the condition and connection of the connector on the heated rear screen button, component code 1456 (bent tabs, broken, etc.). If the connector is faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the connector, otherwise replace the wiring.

Check the earth on connection MAM of the connector on the heated rear screen button, component code 1456. If the connection is faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.

Check the condition and connection of the UCH connector, component code 645 (tabs bent, broken, etc.). If the connector is faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), 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 the following connection:

15B between components 1456 and 645.

If the connection is faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.

If the fault is still present, replace the heated rear screen button (see MR 451 Mechanical, 84A, Controls - Signals, Heated rear screen button: Removal - Refitting).

If the fault is still present, contact the Techline.
<table>
<thead>
<tr>
<th>ETG9</th>
<th>Vdiag No.: 09, ET549 ENGINE IMMOBILISER ACTIVE</th>
</tr>
</thead>
</table>

**NOTES**

The immobiliser status should change to `NO` when the + after ignition feed is switched on.

The immobiliser status should be `YES` when the key is not in the ignition switch.

First check the conformity of ET004 +12 V after ignition feed, ET184 Valid key code, and ET185 Key code received.

Check status ET185 and status ET184 with the ignition on.

If status ET185 and ET184 are `YES`, run fault finding on the injection computer (see 13B, Diesel injection or 17B, Petrol injection).

If status ET185 is `NO`, deal with this status first.

If status ET185 is `YES` and status ET184 is `NO`, deal with status ET184 first.

If the fault is still present, contact the Techline.

---

**AFTER REPAIR**

Carry out another fault finding check on the system.

Deal with any other faults.

Clear the stored faults.
Check that no fault is present.

Open the rear doors one after another, then open the luggage compartment.

Special note: Use the Wiring Diagrams Technical Note for DUSTER.

Check that when a rear door or the luggage compartment is opened, status ET551 is OPEN and that, with the rear doors or luggage compartment closed, status ET551 is CLOSED.

Check the connection and wiring of the rabbet switch on the rear right-hand door, component code 178, the rabbet switch on the rear left-hand door, component code 179 and the tailgate lock, component code 1322.

If the connectors are faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the connector, otherwise replace the wiring.

Check the continuity and the insulation of the following connections:

• 13N between components 179 et 645,
• 13N between components 178 et 645,
• MG between component 179 and earth,
• MG between component 178 and earth,
• MG between component 1322 and earth,
• 13N between components 1322 et 645.

If the connections are faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.

Check the continuity between the two connections of the rabbet switches for the doors and the luggage compartment.

Pull the handle to open the lock and check that there is no longer any continuity between the two connections.

Check that the lock engages into the striker plate properly.

If the fault is still present, contact the Techline.
## Fault finding – Command summary table

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC003</td>
<td>Immobiliser warning light</td>
<td>See interpretation of the command.</td>
</tr>
<tr>
<td>AC176</td>
<td>Alarm siren</td>
<td>See interpretation of the command.</td>
</tr>
<tr>
<td>VP004</td>
<td>VIN entry</td>
<td>See interpretation of the command.</td>
</tr>
<tr>
<td>SC004</td>
<td>UCH programming</td>
<td>See interpretation of the command.</td>
</tr>
<tr>
<td>SC008</td>
<td>Type of UCH</td>
<td>See interpretation of the command.</td>
</tr>
<tr>
<td>RZ001</td>
<td>Fault memory</td>
<td>Use this command to clear the faults stored in the computer.</td>
</tr>
</tbody>
</table>
There must be no present or stored faults.

Run the command and note whether the warning light comes on (3 seconds).

Special note: Use the Wiring Diagrams Technical Note for DUSTER.

Check the connection and condition of the instrument panel connector, component code 247.

If the connector is faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the connector, otherwise replace the wiring.

Check the connection and condition of the UCH connector, component code 645.

If the connector is faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the connector, otherwise replace the wiring.

Using a multimeter, check the continuity and insulation of the following connection:

- 80T between components 645 and 247.

If the connection is faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.

If the fault is still present, contact the Techline.
AFTER REPAIR
Carry out a road test followed by a check with the diagnostic tool.

Fault finding – Interpretation of commands

UCH
Vdiag No.: 09
AC176
ALARM SIREN
NOTES
There must be no present or stored faults.
Run the command and note whether the alarm siren works.
In the event of a fault, consult the interpretation of fault DF177 Siren circuit.

UCH_V09_AC176
AFTER REPAIR
Carry out a road test followed by a check with the diagnostic tool.

NOTES
This command enables the vehicle identification number to be entered manually in the computer.
Use this command each time the computer is replaced.
The vehicle identification number is indicated on the manufacturer's plate on the right-hand side door pillar.

Procedure for writing the VIN
– establish dialogue with the UCH,
– select the "repair mode" menu,
– select the "Other parameters" menu,
– select the line VP004,
– enter the VIN twice,
– exit fault finding mode,
– switch off the ignition,
– wait for the end of powerlatch,
– re-read the VIN using ID019 VIN Code in the Identification menu for confirmation.
AFTER REPAIR
Repeat the conformity check from the start.

Use this command only with a new and blank UCH.
A new UCH has no immobiliser code and is therefore not assigned to the vehicle; once it is fitted on the vehicle, it must be programmed to assign it to the vehicle.
To carry out this programming, always obtain a key belonging to the vehicle (assigned to the old UCH).
Before starting this operation, make sure that there are no components likely to interfere with the electromagnetic field (e.g.: CB (Citizen Band), mobile phone, etc.).

PROGRAMMING THE UCH

Equipment required
CLIP

Note:
After only the UCH has been replaced, there are no operations to be performed on the injection computers.
The computers keep the same immobiliser code.

IMPORTANT:
When the UCH programming procedure is successfully completed, the UCH is no longer blank and is permanently assigned to the vehicle. It will not work on another vehicle.

IMPORTANT:
At the end of the programming operation, only remove the key when the Programming complete message is displayed on the screen. Otherwise, the programming will fail and the UCH can no longer be used.
PRESENTATION

PASSENGER COMPARTMENT CONNECTION UNIT

Fault finding – Interpretation of commands

UCH programming procedure

– Establish dialogue with the UCH.
– Select the Repair mode menu.
– Select the Programming menu.
– Select line SC004 Program UCH.

Follow the instructions on the Clip diagnostic tool.

In “not connected” mode, when the Clip diagnostic tool displays the programming key, make a note of this key and the VIN.

To obtain the immobiliser code, see Technical Note 5037A, Code delivery procedure.

Operations to be carried out after programming the UCH

Enter the vehicle’s VIN into the computer using command VP004 Enter VIN.

After programming the UCH, allocate all the keys using command SC015 Allocate key.

Configure the equipment that is present or not on the vehicle using command SC008 UCH type.

IMPORTANT: Do not interrupt the procedure when it is in progress. If it is interrupted, restart the procedure in “not connected mode”; a new programming key will be displayed.

The programming key can only be used for reprogramming within a short period. The operator must store or document this key.

IMPORTANT: In “not connected” mode, the programming key can only be used for reprogramming within a short period. The operator must store or document this key.

The programming key cannot be used for reprogramming within a short period. The operator must store or document this key.

An interruption in the modification of the programming key will result in the loss of all changes. If an interruption occurs, the key must be reprogrammed.
This procedure will enable the UCH to be configured in relation to the vehicle to provide optimum running.

- Click on the Repair mode and in the Programming menu,
- Confirm line SC008,
- Follow the procedure and enter the vehicle equipment,
- Check that the options configured are those desired and finish.
<table>
<thead>
<tr>
<th>Fault</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIALOGUE FAULT 87B</td>
<td>No dialogue with the computer ALP 1</td>
</tr>
<tr>
<td>LIGHTING 80D</td>
<td>No side lights ALP 2</td>
</tr>
<tr>
<td></td>
<td>No dipped headlights ALP 3</td>
</tr>
<tr>
<td></td>
<td>No main beam headlights ALP 4</td>
</tr>
<tr>
<td></td>
<td>No front fog lights ALP 5</td>
</tr>
<tr>
<td></td>
<td>No rear fog light ALP 6</td>
</tr>
<tr>
<td></td>
<td>The glovebox light does not work ALP 7</td>
</tr>
<tr>
<td></td>
<td>The luggage compartment light does not work ALP 8</td>
</tr>
<tr>
<td></td>
<td>The brake lights operate erratically ALP 9</td>
</tr>
<tr>
<td></td>
<td>The brake lights are still illuminated and the brake light switch is released ALP 10</td>
</tr>
<tr>
<td></td>
<td>The reversing light operates erratically ALP 11</td>
</tr>
<tr>
<td></td>
<td>The flashing light of the hazard warning lights control button does not work ALP 12</td>
</tr>
<tr>
<td></td>
<td>The backlighting of the hazard warning lights control button operates erratically ALP 13</td>
</tr>
<tr>
<td></td>
<td>The front fog lights are always illuminated ALP 14</td>
</tr>
<tr>
<td></td>
<td>The timed courtesy light does not work ALP 15</td>
</tr>
<tr>
<td></td>
<td>The functions work as expected ALP 16</td>
</tr>
</tbody>
</table>

NOTES

Only refer to the customer complaints after performing a complete check using the diagnostic tool.
Fault finding – Customer complaints

**WIPERS/WASHERS 85A**

- The windscreen wiper does not work at high speed ALP 16
- Incorrect operation of the rear screen wiper ALP 17
- The front and rear bidirectional washer pump does not rotate when its control is activated ALP 18

**ACCESS - SAFETY 82D**

- The vehicle will not start ALP 19
- The backlighting of the opening elements locking / unlocking button operates erratically ALP 20
- The doors electric locking / unlocking control operates erratically ALP 21

**DE-ICING 87B**

- The backlighting of the de-icing one-touch control button operates erratically ALP 22
- The heated rear screen operates all the time ALP 23
- Heated rear screen does not operate ALP 24
**No dialogue with the computer**

**AFTER REPAIR**

Check the system operation.

**Vdiag No.: 09**

**ALP 1**

- No dialogue with the computer

**NOTES**

Special note:

Use the Wiring Diagrams Technical Note for DUSTER.

Test the diagnostic tool on another vehicle which is in perfect working order.

Check the presence and condition of the supply fuses of the UCH, component code 645:

- F01 (20 A), F04 (10 A), F18 (10 A), F19 (10 A), F28 (15 A), F29 (15 A), and F30 (20 A) on component 1016.

Replace the fuses if the checks are not correct (see MR 451 Mechanical, 81C, Fuses, Fuses: List and location of components).

Check for +12 V on the UCH, component code 645 on the following connections:

- BP56 of component 645
- AP10 of component 645
- AP7 of component 645

Check the continuity, insulation and the absence of interference resistance of the following connection:

- BP56 between components 645 and 1016
- AP10 between components 645 and 1016
- AP7 between components 645 and 1016.

If the connections are faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.

Check for earth on the UCH, component code 645 on the following connection:

- NC of component 645.

Check the continuity, insulation and the absence of interference resistance of the following connection:

- NC between component 645 and earth.
AFTER REPAIR

Check the system operation.

CONTINUED

Check the presence and condition of the supply fuses of the diagnostic socket, component code 225:

- F4 (10 A)
- F29 (15 A)

Replace the fuses if the checks are not correct (see MR 451 Mechanical, 81C, Fuses, Fuses: List and location).

Check for +12 V on the diagnostic socket, component code 225 on the following connections:

- BP56 of component 225
- AP10 of component 225

Check the continuity, insulation and the absence of interference resistance of the following connection:

- BP56 between components 225 and 1016
- AP10 between components 225 and 1016

If the connections are faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.

Check for earth on the diagnostic socket, component code 225 on the following connections:

- NC of component 225
- MAN of component 225

Check the continuity, insulation and the absence of interference resistance of the following connection:

- NC between component 225 and earth
- MAN between component 225 and earth

If the connections are faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.

Check the continuity, insulation and the absence of interference resistance of the following connection:

- HK between components 225 and 645

If the connection is faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.

If the fault is still present, contact the Techline.
** NOTES **

Only address this customer complaint after a complete check with the diagnostic tool.

There must be no present or stored faults.

Check the conformity of status ET324 Side lights request.

If not correct, refer to the interpretation of this status.

Special note:

Use the Wiring Diagrams Technical Note for DUSTER.

Put the lighting stalk in the side lights position.

Check for +12 V (when side lights are requested) on the following connection:

- LPG or LPD of component 1456.

Check for earth on the following connection:

- MAN of component 1456.

If the connections are faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.

Check the continuity and insulation of the following connection:

- LPD between components 1016 and 1456 (for a left-hand drive vehicle),
- LPG between components 1016 and 1456 (for a right-hand drive vehicle).

If the connection or connections are faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.

If the fault is still present, contact the Techline.
### Fault Finding Chart

<table>
<thead>
<tr>
<th><strong>Probe</strong></th>
<th><strong>Condition</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>09</td>
<td>The heated rear screen operates all the time</td>
</tr>
</tbody>
</table>

**NOTES**

- Only address this customer complaint after a complete check with the diagnostic tool.
- There must be no present or stored faults.

**Special note:**

- Use the Wiring Diagrams Technical Note for DUSTER.

- Check the condition of the heated rear screen relay, component code 235. Replace the relay if necessary.

- Check the condition and the connection of the connectors of the heated rear screen relay, component code 235 and of the UCH, component code 645.

- If the connectors are faulty and if there is a repair procedure (see Technical Note 6015A, Repairing electrical wiring, Wiring: Precautions for repair), repair the connector, otherwise replace the wiring.

- Check the insulation to +12 V feed of the following connection:
  - 15LP between components 235 and 200.

- Check the insulation to earth of the following connection:
  - 15M between components 235 and 645.

- If the connection or connections are faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.

- If the fault is still present, contact the Techline.
AFTER REPAIR
Check the system operation.

Fault finding – Fault Finding Chart

NOTES
Only address this customer complaint after a complete check with the diagnostic tool. There must be no present or stored faults.

Special note:
Use the Wiring Diagrams Technical Note for DUSTER.

Check the presence and the condition of the supply fuses of the heated rear screen relay, component code 235:
• F32 (30 A) and F01 (20 A) on component 1016.
Replace the fuses if the checks are not correct (see MR 451 Mechanical, 81C, Fuses, Fuses: List and location of components).

Check the condition and the connection of the connector of the heated rear screen relay, component code 235 and of the heated rear screen contact, component code 200.
If the connectors are faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the connector, otherwise replace the wiring.

Check for +12 V on the heated rear screen relay, component code 235 on the following connections:
• BP15 of component 235,
• AP7 of component 235.

Check the continuity and insulation of the following connections:
• BP15 between components 235 and 1016,
• AP7 between components 235 and 1016,
• 15M between components 235 and 645.
If the connections are faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.

Check for earth on the heated rear screen, component code 200 on the following connection:
• MG of component 200.
If the connection is faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.

Check the continuity and insulation of the following connection:
• 15LP between components 235 and 200.
If the connection is faulty and if there is a repair procedure (see Technical Note 6015A (Renault) or Technical Note 9804A (Dacia), Electrical wiring repair, Wiring: Precautions for repair), repair the wiring, otherwise replace it.

If the fault is still present, contact the Techline.