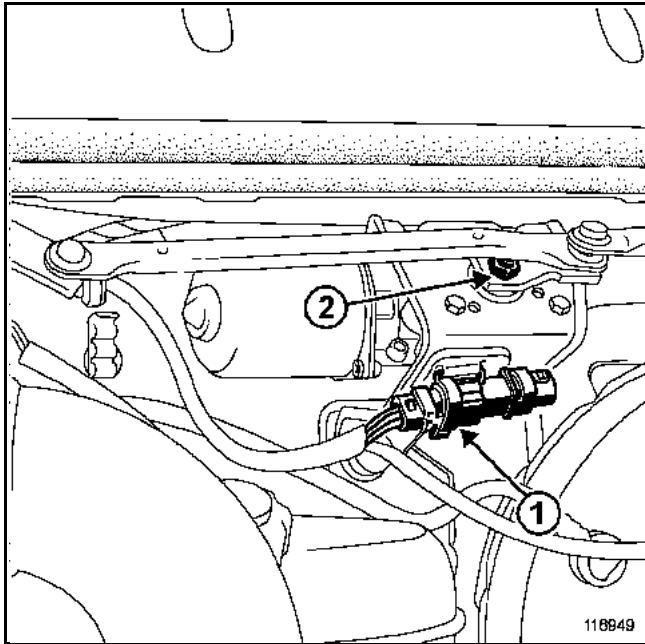
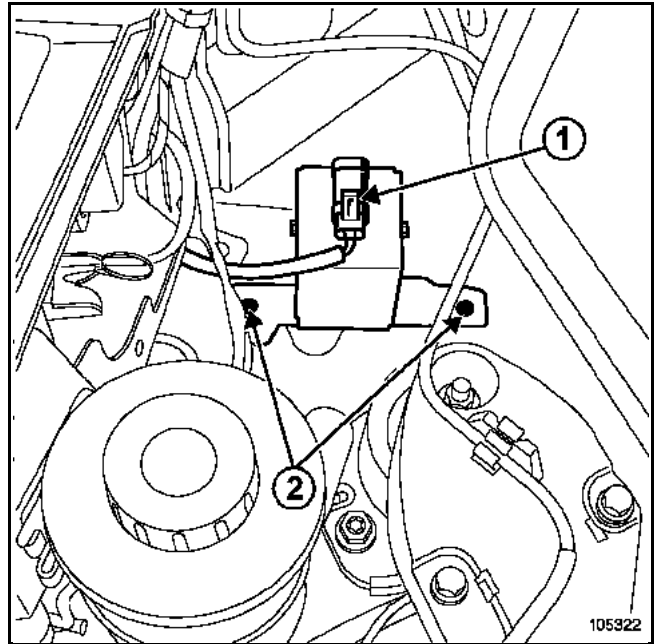


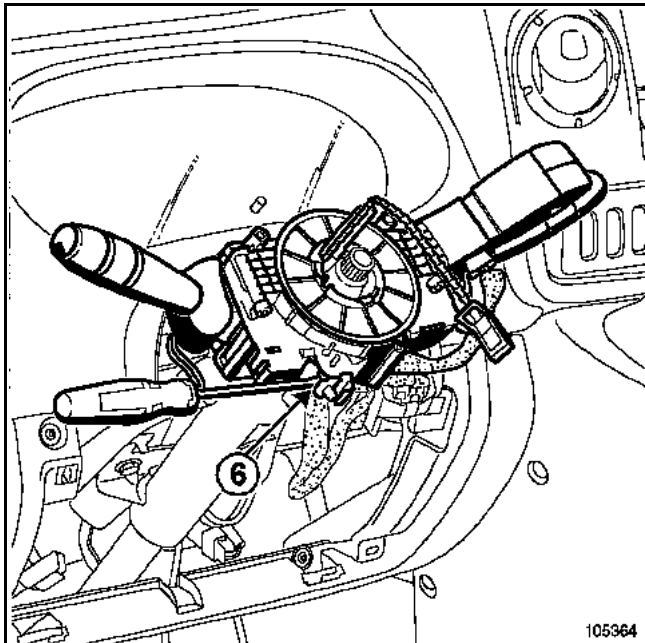
Wiper motor



Alarm siren



Steering column control



Fault finding - Features

General operation

The UCH is involved in the following three functions (divided between several computers):

– **Access/Safety Function**

This function is divided into three sub-functions: Access, Protection and Starting.

– **Wiping function**

This function has a sub-function which is: Wiper control.

– **Lighting function**

This function has a sub-function which is: Lighting control.

UCH FUNCTIONS REQUESTED	UCH N1	UCH N2	UCH N3
Indicators and hazard warning lights	*	*	*
Interior lighting (timed and separated front-rear for N2 - N3)	*	*	*
Timed feed	*	*	*
Windscreen wiper with built-in power (timed and intermittent)	*	*	*
Blade inversion		*	*
Heated rear screen timer (control)	*	*	*
Dialogue function with instrument panel via the multiplex network	*	*	*
Encoded transponder/engine immobiliser	*	*	*
Fault finding	*	*	*
Automatic relocking		*	*
Management of door locking system		*	*
Door locking system/deadlocking		*	*
Selective unlocking of opening elements (depending on unlocking zones and country)		*	*
Unlocking on impact		*	*
Door locking indicator light (CPE* indicator light)		*	*
Radio-frequency system (remote control)		*	*
Management of alarm			*
Deadlocking			*

*CPE: electric central door locking

Role of main components

- Antenna/transponder ring: used as a communication gateway between the key and the UCH.
- Ultrasonic sensor: used to detect movement in the passenger compartment when the vehicle is locked, and to trigger the alarm in this event.
- Wiper motor: used for windscreen cleaning and offers three wiping speeds: intermittent, low speed and high speed.
- Steering column switch: used to control the headlights, activate the wipers, adjust the wiping speed and control the washer fluid pump and the indicator lights.
- Alarm siren: triggered if the vehicle is broken into.

If the anti-theft tracking unit is fitted to the vehicle and the does vehicle not start, the customer should be asked the following questions. This is to ensure that the information given by their access supplier via GSM conform with what is noted in the computer:

- Who is your vehicle detection service supplier?
- Which activation option did you choose? (with locating system/without locating system)
- Did you request remote blocking? (If yes, this is why the engine does not start).

If the vehicle detection service cannot be activated, ask the owner:

- What is the server name of the vehicle detection service supplier?
- What is the APN address of the vehicle detection service supplier?

This is to ensure that the information given by their access supplier via GSM conform with what is noted in the computer.

For replacing the various components, see **MR 377, Mechanical, 87B, Passenger compartment connection unit.**

If replacing the computer, carry out the programming and configuration operations described (see **Configurations and programming**).

The order of programming and configuration operations is as follows:

- 1 Program the UCH using command **SC004 Program UCH.**
- 2 Enter the VIN, using command **VP001 Write VIN.**
- 3 Key programming, using command **SC040 Key programming.**
- 4 Configuration of the UCH type using command **SC008 UCH type.**
- 5 If replacing the instrument panel and UCH **at the same time**, perform configuration of the instrument panel type using the command **SC039 Instrument panel type.**

CONFIGURATION

NOTES	These configurations must be carried out systematically when the UCH is replaced, and the configurations must be checked each time fault finding is performed.
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Index	Title	Features and comments
LC005	Gearbox type	Manual gearbox or sequential gearbox
LC009	Hazard warning lights illuminated upon impact	With or without
LC012	Automatic relocking	With or without
LC040	Automatic locking when driving	With or without
LC047	Courtesy light, timer	With or without
LC080	Heated rear screen configuration	With or without
LC105	Factory-fitted alarm	With or without
LC108	Clock	With or without
LC109	Vehicle speed signal	ABS or GEARBOX SENSOR or TACHOGRAPH
LC110	ESP	With or without
LC111	Light timer supply	With or without
LC112	Alarm warning light	With or without
LC113	Airbag	With or without
LC118	Type of maintenance	Type 1 or Type 2
LC119	Cruise control/speed limiter	With or without
LC120	Tank capacity	70 LITRES or 100 LITRES

PROGRAMMING

SC004	PROGRAMMING THE UCH
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Equipment required
CLIP

Use this command only with a blank UCH.

A new UCH has no immobiliser code and is therefore not allocated to the vehicle; once it is fitted to the vehicle, it must be programmed so that it can be allocated to the vehicle.

To carry out this programming operation, you will need to have:

- **a key belonging to the vehicle** (allocated to the old UCH),
- **the vehicle's After-Sales code.**

Before starting this operation, make sure that there are no items capable of interfering with the electromagnetic field (e.g.: CB, mobile phone, etc.).

Note:

After the UCH alone has been replaced, there are no other operations to be performed on the injection computer. It retains the same immobiliser code.

IMPORTANT

When the UCH programming procedure has been successfully completed, the UCH is no longer blank and is permanently allocated to the vehicle: it will not work on another vehicle.

IMPORTANT

When the programming operation is complete, only remove the key once the **Programming complete** message is displayed on the screen.
Otherwise, the operation will fail and the UCH will not be programmed. It will then need to be reprogrammed in accordance with the instructions.

- Establish dialogue with the UCH.
- Select the menu **repair mode**.
- Select the **Programming** menu.
- Select command **SC004 UCH programming**.