TWINGO

Technical Note 3594A

X06 X

FAULT FINDING UCH

PROGRAM N°: 400

VDIAG N°: 04, 0F

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ENGINE IMMOBILISER

Fault finding - Introduction



This document presents the general fault finding method applicable to all computers for the immobiliser function on TWINGO vehicles with all engine types.

To carry out fault finding on this system, it is essential to have the following items:

- the Workshop Repair Manual for the vehicle concerned,
- the wiring diagram of the function for the vehicle concerned,
- the tools listed in the Special tooling required column.

GENERAL APPROACH TO FAULT FINDING:

- Use one of the diagnostic tools to identify the system fitted to the vehicle (to read the computer group, the program N°, the Vdiag, etc.).
- Locate the Fault finding documents corresponding to the system identified.
- Include information contained in the introductory sections.
- Read the faults stored in the computer memory and use the Interpretation of faults section of the documents. Reminder: each fault is interpreted for a particular type of storage (fault present, fault stored in memory, fault present or stored). The checks defined for dealing with each fault are therefore only to be performed if the fault declared by the diagnostic tool is interpreted in the document for its type of storage. The storage type should be considered when using the diagnostic tool after the ignition has been switched off and switched back on. If a fault is interpreted when it is declared as stored, the conditions for applying fault finding appear in the NOTES box. If the conditions are not satisfied, use the fault finding strategy to check the circuit of the faulty part since the fault is no longer present on the vehicle. Perform the same operation when a fault is declared as stored by the diagnostic tool but is only interpreted in the documentation as a present fault.
- Perform the conformity check (appearance of possible incorrect operations not yet stated by the system's self diagnosis procedure) and apply the associated fault finding strategy according to results.
- Confirm the repair (customer complaint disappears).
- Use the fault finding procedure for each Customer complaint if the fault persists.

SPECIAL TOOLING REQUIRED:

- Diagnostic tool (except XR25).
- Bornier.
- Multimeter.

ENGINE IMMOBILISER

Fault finding - Introduction



OPERATION

When the immobiliser system is operational, the engine immobiliser indicator light flashes slowly: (once per second).

After the ignition is switched on, the key code is transmitted to the UCH.

If the code is recognised by the UCH, the UCH and the injection computer send coded signals to each other via the multiplex network and turn off the immobiliser indicator light.

If the signals transmitted by the UCH and the injection computer match, the UCH authorises the engine to start and the injection is unlocked.

SPECIAL CASES

The injection computer has no reference code in its memory: the code which is transmitted is stored.

If the key code and the UCH code do not match, the system remains locked. The engine immobiliser red indicator light flashes (quickly). The vehicle cannot be started.

IMPORTANT: when the vehicle battery has a low charge, the drop in voltage caused by operating the starter may reactivate the immobiliser. If the voltage is too low, the engine cannot be started, even by pushing the vehicle.

Recognition of keys in normal operation

	IMMOBILISER WARNING LIGHT
Vehicle protected (without After Ignition)	Warning light flashes at 1 Hertz
Key recognised, injection protection lifted	Warning light comes on for 3 seconds then goes out
Key recognised, injection protected or blank	After 3 seconds, warning light remains on
Key not recognised	Warning light flashes at 4 Hertz

ENGINE IMMOBILISER

Fault finding - Introduction



GENERAL INFORMATION

The UCH replaces the decoder unit.

The UCH is located in the dashboard on the driver's side.

WARNING

When replacing the UCH, it is necessary to configure the functions corresponding to the vehicle's equipment level using diagnostic tools.

WARNING

It is not possible to start if the immobiliser programming has not been carried out.

When replacing the UCH, it is necessary to carry out the programming and configuration corresponding to the vehicle's equipment level.

If you are fitting or replacing a transmitter, it is necessary to reallocate the key.

Features of the system

- This system can function with up to 4 remote control units (the UCH can only manage 4 different codes).
- The radio frequency signal receiver is integrated in the UCH.
- The central door locking button is blocked once the doors have been locked by the remote control.
- The locking and unlocking of the doors with the remote control can be detected visually by the hazard warning lights flashing (if all the doors are closed properly):
 - locking:1 flashunlocking: 2 flashes

- If the doors are unlocked and none of the doors are open in the next 30 seconds, the system will automatically lock the vehicle doors (without the hazard lights flashing).
- The UCH controls the vehicle interior lighting. If a courtesy light is left on unintentionally, the UCH will cut the light supply after approximately 30 minutes.
- The Top of the range version dims the light progressively after the doors have been closed by radio frequency remote control.
- The UCH turns on the hazard warning lights if the impact connection signal is received from the air bag computer.
- Spare keys are supplied without a code or a number.
- It is possible in the event of a key being stolen or lost or at the customer's request, for a vehicle key to be de-allocated. It can be reassigned to the same vehicle if necessary.

IMPORTANT:

- With this system, it is not possible to replace the UCH or the keys at the same time. These parts are sold uncoded.
- There is no way of deleting the code programmed by the system components (UCH and injection computer). The programmed code cannot be erased.

ENGINE IMMOBILISER

Fault finding - Introduction



REPLACEMENT AND CONFIGURATION

New parts are not coded. Once fitted on the vehicle, they must be programmed with a code to become operational.

To perform this procedure, it is essential that some parts on the vehicle are already correctly coded (with the vehicle code).

Refer to the allocation table.

IMPORTANT: If a part is programmed with a code, the part is then allocated to the vehicle and the code cannot be erased nor can the part be programmed with a second code. **The programmed code cannot be erased**.

ALLOCATION TABLE

AFTER-SALES	STATUS OF COMPONENTS			REPAIR CODE
OPERATION	UCH	Key	Injection computer	NEEDED
Programming the UCH	Blank	Coded	Coded	YES
Key allocation or cancellation	Coded	Blank*	-	YES
Programming the injection computer	Coded	Coded	Blank	NO

NOTE: a key may be programmed to a vehicle but not operational (unassigned).

IMPORTANT: only keys presented during this procedure will work.

^{*} A key assigned to a vehicle must be blank or already programmed to this vehicle.

ENGINE IMMOBILISER

Fault finding - Introduction



A new UCH is not programmed with a code. You must therefore program a code into a new UCH fitted to a vehicle to make the UCH operational.

To perform this procedure, at least one of the vehicle's old keys and the repair code are required and the injection computer must be correctly coded (refer to the allocation table).

IMPORTANT: if a code is programmed into the UCH, it is allocated to the vehicle. It is impossible to erase the code or program in another one.

WARNING: only keys presented during this procedure will work if:

- they have already been coded on this vehicle,
- or they are new (not coded).

NOTE: When only the UCH is replaced, there is no operation to perform on the injection computer, as it retains the same immobiliser code.

UCH PROGRAMMING PROCEDURE

Using the diagnostic tool:

Establish dialogue with the **Engine immobiliser** system.

In the Command, Specific command menu, select and confirm the SC027: program UCH line.

The tool displays Remove the key from the anti-theft switch.

The tool displays **Please enter the After-Sales code**. With the ignition off, enter the secret After-Sales code (12 hexadecimal digits) and press confirm.

If the code format is correct, the tool displays **Insert a key which has already been programmed to the vehicle** and the programming procedure starts.

The tool displays **UCH programming completed, please start key programming procedure**, the UCH is coded. You must now enter key programming mode to allocate the other keys (maximum of four). Several seconds may elapse before this message appears.

IMPORTANT: the maximum time lapse between each operation is **5 minutes**, otherwise the procedure is cancelled.

SPECIAL CASES

If the screen displays:

The After-Sales code entered does not correspond with the key inserted. Check that you have entered the correct code and that you have inserted a key for the vehicle: the code does not match the key or the key does not belong to the vehicle.

The UCH is not blank. Please start the key programming procedure: The UCH has already been programmed for this vehicle.

Check the After-Sales code: the code entered is incorrect. Check, then try entering the data again,

UCH programming failure, key cannot be used on this vehicle: the key code does not correspond to the code entered (the key belongs to a vehicle from a different range).

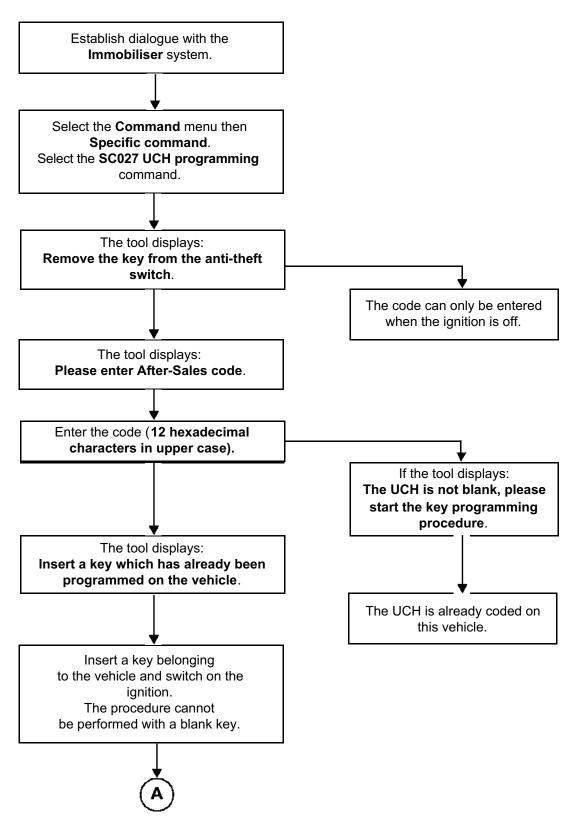
The key inserted is blank. Please present another key which has already been programmed to this vehicle: the key is blank, present a key which has already been coded on this vehicle.

ENGINE IMMOBILISER

Fault finding - Introduction



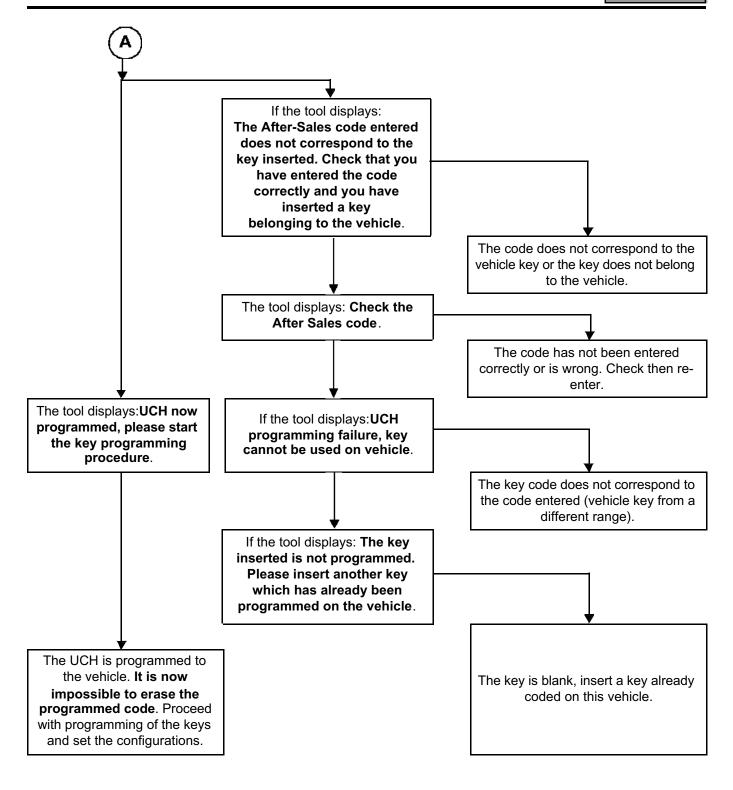
UCH PROGRAMMING PROCEDURE



ENGINE IMMOBILISER

Fault finding - Introduction





ENGINE IMMOBILISER

Fault finding - Introduction



KEY ALLOCATION PROCEDURE IMPORTANT: in the event that not all the keys are available, it will be necessary to carry out a reprogramming procedure later with all the keys.

Establish dialogue with the **Engine immobiliser** system.

In the Command, Specific command, validate the SC028: Card / key programming line.

The tool displays Remove the key from the anti-theft switch,

The tool displays Please enter the After-Sales code.

With the ignition off, enter the secret After-Sales code (12 hexadecimal digits) and press confirm.

The tool displays Important: keys not inserted will no longer be operational. Restart the procedure to reallocate them: programming is in progress.

The tool displays **Insert the key in the anti-theft switch and turn on the ignition, then press Enter**: switch on the ignition with a key from the vehicle or a blank key.

The screen displays 1 key programmed, then press Enter, then remove the key from the ignition switch.

The tool asks: Would you like to program another key?

To assign additional keys, switch on the ignition for a few seconds with the other vehicle keys to be programmed (four maximum), then press enter.

The screen displays **2**, **3 or 4 keys programmed** then **remove the key from the anti-theft switch**. **IMPORTANT**: these must be old keys for the vehicle or new non-coded keys.

The tool displays **Writing data to memory**, the UCH is coded and the keys are programmed. Several seconds will elapse before this message appears, in order to exit the reallocation mode.

IMPORTANT: the maximum time lapse between each operation is 5 minutes, otherwise the procedure is cancelled. The screen displays the message Procedure interrupted. Important: the keys assigned to the vehicle are the ones assigned before the procedure was started. The keys submitted before interruption of the procedure are no longer blank and can only be assigned to this vehicle. This message also appears where dialogue with the UCH is lost or the battery power supply fails.

SPECIAL CASES

If the screen displays:

The UCH is blank. Please run the UCH programming procedure: the UCH is blank. It is impossible to allocate keys to an uncoded UCH.

Check the After-Sales code: the code entered is incorrect. Check, then try entering the data again,

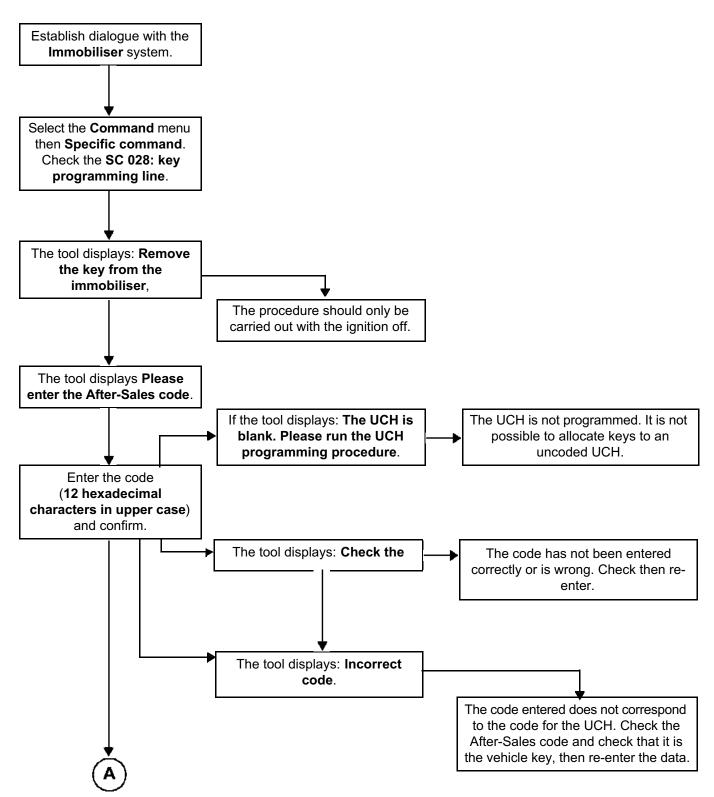
If the key does not correspond to the vehicle UCH, the tool will display Procedure interrupted. Important: the keys assigned to the vehicle are the ones assigned before the procedure was started. The cards inserted before the procedure was interrupted are no longer blank and may only be allocated to this vehicle.

ENGINE IMMOBILISER

Fault finding - Introduction



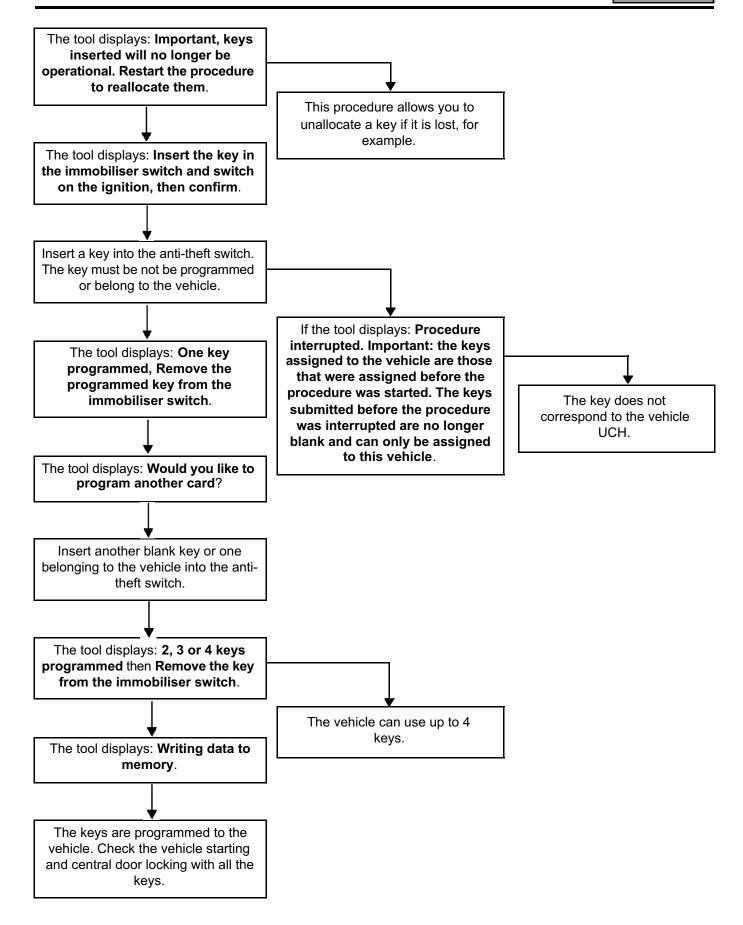
KEY PROGRAMMING PROCEDURE



ENGINE IMMOBILISER

Fault finding - Introduction





ENGINE IMMOBILISER

Fault finding - Introduction



CODING THE INJECTION COMPUTER

The injection computer is supplied uncoded. It therefore has to be programmed with the engine immobiliser code when it is installed to allow the vehicle to be started.

Simply switch on the ignition for a few seconds without starting the engine. Switch the ignition off, the immobiliser will be activated after a few seconds (engine immobiliser red indicator light flashes).

IMPORTANT:

With this engine immobiliser, the vehicle keeps its immobiliser code for life. In addition, this system does not have a security code. Consequently, it is forbidden to carry out tests with injection computers borrowed from stores and subsequently returned. The programmed code cannot be erased.

ENGINE IMMOBILISER

Fault finding – Fault Interpretation



DF055
PRESENT
OR
STORED

NOTES

Conditions for applying the fault finding procedure to stored faults:

- The fault is declared present when the ignition is switched on (+ after ignition).

Check the connection and condition of the instrument panel connector. Repair the connector if necessary.

Check the connection and condition of the UCH **40-track EH1 connector**. Repair the connector if necessary.

Check the **continuity and insulation** of the connection between:

UCH 40-track EH1 connector **track B36** — injection computer (refer to the electrical diagram for the engine concerned)

Repair if necessary.

AFTER REPAIR

Deal with any other faults. Clear the fault memory.

ENGINE IMMOBILISER

Fault finding - Fault Interpretation



DF069 PRESENT OR STORED **DECODER CONNECTION ---> RING**

CC.0 : Short circuit to earth CC.1 : Short circuit to + 12 volts

NOTES

Conditions for applying the fault finding procedure to stored faults:

- The fault is declared present when the ignition is switched on (+ after ignition).

CC.0

Check the connection and the condition of the transponder aerial connector. Repair the connector if necessary.

Check the connection and condition of the UCH **40-track EH1 connector**. Repair the connector if necessary.

Disconnect the transponder ring connector and ensure that it is correctly supplied with **+ 12 V** on **track 3**.

Repair if necessary.

Check the **continuity and insulation** of the connection between:

fuse box, interior lighting fuse (10 A) — **track 3** transponder ring Repair if necessary.

CC.1

Check the connection and condition of the transponder ring connector. Repair the connector if necessary.

Check the connection and condition of the UCH **40-track EH1 connector**. Repair the connector if necessary.

Check the continuity of the connections:

uCH 40-track EH1 connector **track A16** → **track 2** transponder ring **track 4** transponder ring Repair if necessary.

AFTER REPAIR

Follow the instructions.

Deal with any other faults.

Clear the fault memory.

ENGINE IMMOBILISER

Fault finding – Conformity check



NOTES

Only carry out this conformity check after having performed a complete check with the diagnostic tool. The values indicated in this conformity check are given as examples. Test conditions: **engine stopped, ignition on**.

Order	Function	Parameter or status Check or action	Display and notes	Fault finding
	Dower cupply	PR002: Battery voltage	12 V < X < 12.5 V	If there is a problem: carry out a fault finding test on the charge circuit.
'	1 Power supply	ET154: Presence of + 12 volts after ignition	YES	In the event of a fault: consult the fault finding procedure for status ET154.
		PR065: Number of programmed transponder	2 keys on leaving the factory, programming of up to 4 keys by After-Sales	None.
2		ET103: Key code received	Status YES when ignition switched on	In the event of a problem: consult the fault finding procedure for status ET103.
	Engine immobiliser	ET104: Key code valid	Status YES when ignition switched on	In the event of a problem: consult the fault finding procedure for status ET104.
		ET153: Immobiliser active	NO	In the event of a problem: consult the fault finding procedure for status ET153.
		ET167: Immobiliser indicator light	OFF	In the event of a problem: apply the fault finding procedure for the immobiliser warning light fault DF105.

ENGINE IMMOBILISER





NOTES

Only carry out this conformity check after having performed a complete check with the diagnostic tool. The values indicated in this conformity check are given as examples. Test conditions: **engine stopped, ignition on**.

Order	Function	Parameter or status Check or action	Display and notes	Fault finding
3	Programming:	ET178: UCH not programmed	NO	If the UCH not programmed status = YES see programming procedure.

ENGINE IMMOBILISER

Fault finding - Conformity check



STATUS TEST

By checking specific statuses, it is possible to determine the fault on a vehicle by means of the various pieces of information provided.

ET154: + 12 volts after ignition present

ET103: Key code received ET104: Key code valid ET153: Immobiliser active

If ET 154 status active
ET103 status YES
ET104 status YES
ET153 status NO

- Check the injection with the tool and check whether the injection computer is locked.
- Check for problems on the multiplex network.

If ET 154 status	active
ET103 statu	s YES
ET104 statu	s NO
FT153 statu	s NO

- The coded key does not belong to the vehicle.
- If the key belongs to the vehicle, then carry out reassignment of the keys.
- If the key still does not work, replace the key.

If ET 154 status active ET103 status NO ET104 status NO ET153 status NO The key is out of service or does not correspond to the make of vehicle.

ENGINE IMMOBILISER





ET153	ENGINE IMMOBILISER ACTIVE
NOTES	The immobiliser active status should change to inactive when the + after ignition is switched on. The immobiliser status should be active when the key is absent from the ignition switch.

ET153 ACTIVE despite the presence of a key in the ignition switch and + after ignition

Check there is no fault before dealing with this status.

Check that status **ET154 12 v after ignition** is **ACTIVE** with the ignition on.

Deal with status **ET154** if it is **INACTIVE** with the ignition on.

Check that status ET103 key code received and status ET104 Key code valid with ignition on.

If status ET103 and ET104 are YES, carry out a fault finding procedure on the injection computer.

If status ET103 is NO, deal with this status first.

If status ET103 is YES and status ET104 is NO, deal with ET104 first.

AFTER REPAIR

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

ENGINE IMMOBILISER





NOTES	None.
ET154	PRESENCE + 12 VOLTS AFTER IGNITION

ET154 INACTIVE, ignition on

Check fuse F27 (20A) in the passenger compartment unit.

Use a multimeter to check the presence of + 12 v at the fuse holder with the ignition on. Repair if necessary.

With the ignition on, use a multimeter to check for the presence of **+ 12 volts** on **track A3** of the UCH P1 connector.

If the voltage is present, replace the UCH.

If voltage is absent, ensure continuity and insulation against earth between track A3 of the P1 UCH connector and the F27 (20A) fuse in the passenger compartment fuse box.

Repair if necessary.

ET154 ACTIVE, ignition off

With the ignition off, use a multimeter to check the absence of **+ 12** at the passenger compartment fuse holder **F27**.

Repair if necessary.

If the voltage is absent, replace the UCH.

AFTER REPAIR

Carry out another fault finding check on the system.

Deal with any other faults.

ENGINE IMMOBILISER





ET103	KEY CODE RECEIVED

NOTES

Check that no fault is present or stored.

The status will be displayed YES when the ignition is switched on (+ after ignition) with a valid key.

If the status remains NO, try another key assigned to the vehicle before performing any operation.

ET103 NO: ignition on and key belonging to the vehicle

Check that status ET154 12 V after ignition is ACTIVE with the ignition on.

Remove any metal objects from the key-ring and try again.

Switch on the ignition with the key from another vehicle, changing the key inserts:

If the **KEY CODE RECEIVED** status changes to **YES**, replace the vehicle key.

If the status **KEY CODE RECEIVED** remains at **NO**, check the connections between the transponder ring and the UCH.

Replace the transponder ring.

AFTER REPAIR

Carry out another fault finding check on the system.

Deal with any other faults.

ENGINE IMMOBILISER





ET104	KEY CODE VALID
NOTES	The status will be displayed YES when the ignition is switched on (+ after ignition) with a key from the vehicle. If the status remains NO, try another key assigned to the vehicle before performing any operation.

ET104: NO despite the ignition being switched on, the key belonging to the vehicle and the key code received

Check that status **ET154 12 V after ignition** is **ACTIVE** with the ignition on.

Reallocate the keys with the After-Sales code. If the fault persists, replace the faulty vehicle key.

AFTER REPAIR

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

ENGINE IMMOBILISER

Fault finding – Interpretation of statuses



ET167	ENGINE IMMOBILISER INDICATOR LIGHT
NOTES	The immobiliser active status should change to inactive when the + after ignition is switched on. The immobiliser status should be active when the key is absent from the ignition switch.

Check the connection and condition of the instrument panel connector. Repair if necessary.

Check the connection and condition of the UCH **40-track EH1 connector**. Repair if necessary.

Check the **continuity and insulation** of the connection between:

UCH 40-track EH1 connector **track A32 track 5** 30-track instrument panel connector Repair if necessary.

AFTER REPAIR

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

ENGINE IMMOBILISER





NOTES	These customer complaints should only be investigated after a complete check has been run using the diagnostic tool.
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NO DIALOGUE WITH THE COMPUTER — ALP 1

ENGINE IMMOBILISER





ALP 1	No dialogue with the computer		
NOTES	None.		
Try the diagnostic tool on another vehicle.			
Check: – the connection between the diagnostic tool and the diagnostic socket (wiring in good condition), – the engine and passenger compartment fuses.			
Check for the presence of + 12 volts before ignition feed on track 16, + 12 volts after ignition feed on track 1 and an earth on tracks 4 and 5 of the diagnostic socket. Repair if necessary.			
Connect the bornier and check the insulation, continuity and absence of interference resistance of the connections: UCH P201 40-track connector track 7 UCH P201 40-track connector track 33 UCH P202 15-track connector track B6 UCH P201 40-track connector track B6			

AFTER REPAIR Check the system operation.

Fault finding - Introduction



This document presents the general diagnostic method applicable to all UCH computers on TWINGO vehicles with all engine types.

To carry out fault finding on this system, it is essential to have the following items:

- the Workshop Repair Manual for the vehicle concerned,
- the wiring diagram of the function for the vehicle concerned,
- the tools listed in the Special tooling required column.

GENERAL APPROACH TO FAULT FINDING:

- Use one of the diagnostic tools to identify the system fitted to the vehicle (to read the computer group, the program N°, the Vdiag, etc.).
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- Perform the conformity check (appearance of possible incorrect operations not yet stated by the system's self diagnosis procedure) and apply the associated fault finding strategy according to results.
- Confirm the repair (customer complaint disappears).
- Use the fault finding procedure for each Customer complaint if the fault persists.

SPECIAL TOOLING REQUIRED:

- Diagnostic tool (except XR25).
- Multimeter.

Fault finding – Introduction



Depending on the level of equipment, two UCH models can be installed in the car:

UCH	Basic N2	Top of the range N3
Diagnostic connection	х	х
Coded immobiliser (V3)	х	х
Indicators and the indicator light control	х	х
Horn (lighting warning, fog light lighting warning)	х	х
Rear fog light management	х	х
Front wipers: park position management	х	х
Front wipers with variable time delay	х	х
Interior lighting and luggage compartment lighting	х	х
Timed interior lighting		х
Electric central door locking by radio frequency		х
Electric central door locking indicator light management		х
Automatic locking when vehicle is in motion		х
Door unlocking in the event of an impact		х
Automatic door re-locking		х
Alarm connection		х

Fault finding – Introduction



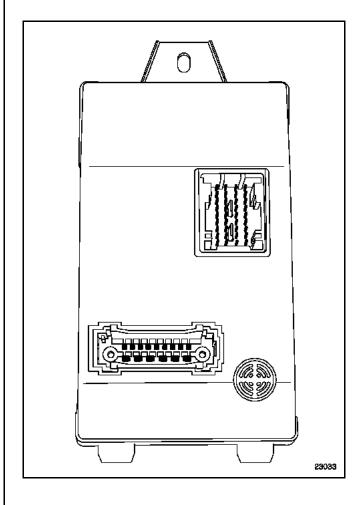
CONNECTION (complete)

Black 40-track connector:

Black 40-track connector:			
Track	DESCRIPTION		
1	Not used		
2	Not used		
3	Not used		
4	Not used		
5	Hazard warning lights indicator light		
6	Vehicle speed input		
7	Windscreen washer input		
8	Electric door locking button input		
9	Radio frequency aerial earth		
10	Radio frequency aerial signal		
11	Not used		
12	Not used		
13	Not used		
14	Not used		
15	Side lights input		
16	Transponder ring input		
17	Not used		
18	Not used		
19	Not used		
20	Not used		
21	Not used		
22	+ After ignition		
23	Impact connection input (air bag		
24	Windscreen wiper sequencing input		
25	Dipped headlights/main beam headlights signal input		
26	Left-side indicator input		
27	Rear fog light input		
28	Right-side indicator input		
29	Rear screen washer input		
30	Luggage compartment door switch		
31	Not used		
32	Immobiliser indicator light output		
33	Hazard warning lights input		
34	Diagnostic connection		
35	Not used		
36	Engine immobiliser connection		
37	Front fog lights input		
38	Engine speed input		
39	Heated rear screen input		
40	Door switch input		

Black 40-track connector:

Track	DESCRIPTION		
A 1	Earth		
A2	Courtesy light output		
A 3	+ Before ignition		
A4	Front windscreen wiper control		
A5	Front windscreen supply (after contact)		
A6	A6 Windscreen wiper park position		
A 7	Rear fog light output		
A8	Right-hand indicator output		
A9	Left-hand indicator output		
B1	Door opening output		
B2	Door closing output		
В3	Central door locking-unlocking supply		
B4	Driver's door opening output		
B5	Interior light timing output		
В6	Interior light supply		



Fault finding – Introduction

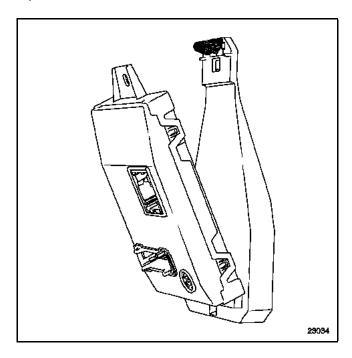


REMOVAL - REFITTING

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

The UCH is clipped onto its mounting.

IMPORTANT: Do not remove the UCH mounting as there is a risk of damaging it. If it is removed it must be replaced.



Fault finding - Introduction



UCH CONFIGURATIONS

The configuration options for the UCH are:

Title and position on the diagnostic tool	Configuration	Type of UCH
Timed courtesy light (LC021)	automatic	N3 only
Automatic re-locking (LC069)	automatic	N3 only
RAID function authorisation by fault finding procedure (LC081)	automatic	N3 only
Hazard warning light comes on in the event of an impact LC090	automatic	N3 only

CONFIGURATION OF THE CONNECTION UNIT

Using the diagnostic tools

- With the ignition on, enter into dialogue with the vehicle.
- Select and confirm the Connection unit.
- In the Command mode menu, select and confirm the Configuration line.
- Select the command: CF716: Type N2,
 - CF717: Type N3,
- The message: Do you wish to proceed? appears.
- Select yes then carry out the automatic configuration,
 - For the basic UCH or N2
 - Configuration of the **timed interior light** → **None**
 - Configuration of the hazard warning lighting in the event of an impact \rightarrow None
 - Configuration of the CAR function by fault finding procedure → None
 - Configuration of the **automatic re-locking** → **None**
 - For the top of the range UCH or N3
 - Configuration of the timed interior light \rightarrow Yes
 - Configuration of the hazard warning lighting in the event of an impact → With
 - Configuration of the RAID function by fault finding procedure → With
 - Configuration of the automatic re-locking → With
- Check the settings in the Read configuration menu.

CONNECTION UNIT

Fault finding – Interpretation of faults



DF072
PRESENT
OR
STORED

Special notes:

NOTES

 The fault is present for 8 seconds after switching on the ignition and disappears when the ignition is switched off.

NOTE: if this fault is present, the door locking while driving function is prevented from working.

Carry out the fault finding procedure on the air bag computer. Repair if necessary.

Check the connection and condition of the UCH connectors and replace the connector if necessary.

Check the insulation, the continuity and the absence of interference resistance on the 30-track air bag computer connection:

UCH 40-track EH1 connector track 23B — track 27 airbag computer

Repair if necessary.

For the 50-track air bag computer:

UCH 40-track EH1 connector track 23B — track 37 airbag computer

Repair if necessary.

AFTER REPAIR

Follow the instructions.

Deal with any other faults.

Clear the fault memory.

CONNECTION UNIT





WINDSCREEN WIPER PARK POSITION

DF119
STORED

NOTES

Conditions for applying the fault finding procedure to stored faults:

- the fault is declared as present following operation of the windscreen wiper.

NOTE: random operation of the windscreen wipers in timed operation position (time delay not adhered to).

Check that the windscreen wiper park position status **ET005** is active every time the wiper blade arrives at the rest position, then becomes inactive again.

Check the connection and condition of the UCH connectors.

Replace the connector if necessary.

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

UCH P1 connector track A6 — track 1 windscreen wiper motor

earth ----- track 5 windscreen wiper motor

Repair if necessary.

Check the connection and condition of the windscreen wiper motor connector.

Check the motor.

Check the wiper fitting.

Replace the windscreen wiper motor if necessary.

AFTER REPAIR

Follow the instructions.

Deal with any other faults.

Clear the fault memory.

CONNECTION UNIT





DF121 PRESENT	UCH INTERNAL ELECTRONIC FAULT
NOTES	The fault is declared present when the ignition is switched off. Special note: in the case of a stored fault, check that there are no other faults present and clear the faults.
Replace the UCH.	

AFTER REPAIR

Deal with any other faults. Clear the fault memory.

CONNECTION UNIT

Fault finding – Interpretation of faults



DF131 PRESENT **ELECTRIC DOOR LOCK BUTTON CIRCUIT**

CC.0 : Short circuit to earth

NOTES

Fault declared as present when the door locking button is pressed.

Check the connection and condition of the UCH 40-track EH1 connector if necessary. Replace the connector if necessary.

Check the **insulation and continuity** of the connections:

UCH 40-track EH1 connector **track 8A**earth

track 1 electric door locking button

Repair if necessary.

AFTER REPAIR

Follow the instructions. Deal with any other faults. Clear the fault memory.

CONNECTION UNIT





DF175 STORED	IMPACT DETECTION SIGNAL	
NOTES	No fault present. Application of the fault finding procedure to the stored fault.	

Carry out fault finding on the airbag computer. Repair if necessary.

AFTER REPAIR

Deal with any other faults. Clear the fault memory.

Fault finding – Conformity check



NOTES

Only check the conformity after a complete check with the fault finding tool. The values indicated in this conformity check are given as examples.

Test conditions: **engine stopped, ignition on**.

Order	Function	Parameter or status Check or action	Display and notes	Fault finding
		PR002: Battery voltage	12 < X < 12.5 volts	If there is a problem: carry out a fault finding test on the charge circuit.
1	Power supply	ET002: + 12 volts after ignition	Present	If there is a problem: refer to the fault finding procedure for status ET002.
		ET242: Engine running	NO	None.
		ET029: Right-hand indicator control	Active during right- hand indicator control	If inactive refer to the fault finding procedure for status ET029.
2	Lights	ET028: Left-hand indicator control	Active during left-hand indicator control	If inactive:refer to the fault finding procedure for status ET028.
		ET022: Hazard warning lights control	Active during hazard warning lights control	If inactive refer to the fault finding procedure for status ET022.

CONNECTION UNIT

Fault finding – Conformity check



NOTES

Only check the conformity after a complete check with the fault finding tool. The values indicated in this conformity check are given as examples.

Test conditions: **engine stopped, ignition on**.

Order	Function	Parameter or status Check or action	Display and notes	Fault finding
3	Windscreen wiper	ET032: Windscreen washer control	Active during windscreen washer control	If Inactive refer to the fault finding procedure for status ET032.
		ET035: Windscreen wiper timing	Active when windscreen wiper control is in intermittent position	If inactive refer to the fault finding procedure for status ET035.
		ET005: Windscreen wiper park position	Active with windscreen wiper control in intermittent position during each pause of the windscreen wipers	If there is a problem: apply the fault finding procedure on windscreen wiper park position fault DF119
		ET031: Rear screen wash control	Active during rear screen wiper control	In the event of a problem: consult the fault finding procedure for status ET031.
4	Opening elements	ET192: Front door	Open when front doors are open	In the event of a problem: refer to the fault finding procedure for status ET192.
		ET111: Rear door	Open when rear doors are open	If there is a problem: refer to the fault finding procedure for status ET111.
		ET217: Door locking indicator light	Illuminated when opening elements are locked Off when opening elements are unlocked	If there is a problem: refer to the fault finding procedure for status ET217.

CONNECTION UNIT

Fault finding – Conformity check



NOTES

Only check the conformity after a complete check with the fault finding tool. The values indicated in this conformity check are given as examples.

Test conditions: **engine stopped, ignition on**.

Order	Function	Parameter or status Check or action	Display and notes	Fault finding
	Opening elements (continued)	ET010: valid radio frequency key	YES status during locking or unlocking of the vehicle by remote control.	If there is a problem: refer to the fault finding procedure for status ET010.
		ET193: Radio frequency frame received	YES status during locking or unlocking of the vehicle by remote control.	if there is a problem: refer to the fault finding procedure for status ET193.
4		ET012: Source last opening elements activation	TRF during locking with the remote control, Central door locking switch during locking with the central door locking switch.	None.
		ET105: last opening elements activation	UNLOCKING LOCKING	None.
5	Speed	PR001: Vehicle speed	X in mph	If there is a problem: apply the fault finding procedure on incorrect vehicle speed fault DF129.

CONNECTION UNIT

Fault finding - Conformity check



On the passenger compartment central units N3 some of the statuses and parameters can only be seen on the function test screen. There are two function tests.

Radio frequency function test

ET010: valid radio frequency key

ET012: source last opening elements activation

ET105: last opening elements activation **ET193**: radio frequency frame received

RAID function test

ET018: RAID function authorisation by fault finding

ET019: RAID function authorisation by central door locking switch

PR001: vehicle speed

CONNECTION UNIT

Fault finding – Interpretation of statuses



	+ 12 VOLTS AFTER IGNITION
ET002	

ET002 INACTIVE, ignition on

Check the passenger compartment fuse.

Use a multimeter to check the presence of + 12 v at the fuse holder with the ignition on.

Repair if necessary.

With the ignition on, use a multimeter to check for the presence of **+ 12 volts** on **track A3** of the UCH P1 connector.

If there is no voltage, ensure the continuity and insulation to earth between track B22 of the UCH 40-track EH1 connector and the 10 Amp fuse of the passenger compartment fuse box. Repair if necessary.

ET002 ACTIVE ignition off

With the ignition off, use a multimeter to verify the absence of **+ 12 V** at the passenger compartment fuse holder.

Repair if necessary.

AFTER REPAIR

Carry out another fault finding check on the system.

Deal with any other faults.

CONNECTION UNIT





ET010	VALID RADIO FREQUENCY KEY
E1010	
L	

NOTES

Only for N3 UCH.

Check that no fault is present.

The status is declared **YES** when the remote control is pressed.

If the status is declared **NO**, **switch the + after ignition feed off and on**, and retry with another vehicle key.

If ET010 stays at NO: when the remote control is pressed

Resynchronize the keys switching the ignition on (+ after ignition feed).

If the problem persists and if **ET193 RADIO FREQUENCY FRAME RECEIVED** status is shown as **YES**, replace the keys.

If the problem persists, replace the UCH.

AFTER REPAIR

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

Clear the stored faults.

UCH X06 1.1

CONNECTION UNIT

Fault finding – Interpretation of statuses



ET022	HAZARD WARNING LIGHTS CONTROL
NOTES	There must be no present or stored faults. Activate the hazard warning light control. The status must be ACTIVE .
ET022 INACTIVE	Check the indicator / UCH 25A supply fuse. Replace it if necessary.
	Check the connection and condition of the connector of the hazard warning light switch. Repair the connector if necessary.
	Ensure the continuity of the connection between hazard warning light switch tracks 3 and 6 earth Repair if necessary.
	Check the insulation, continuity and the absence of interference resistance on the connection: hazard warning light switch track 4 track B33 40-track EH1 connector Repair if necessary.
	Check the operation of the hazard warning lights control.

Carry out another fault finding check on the system.

Deal with any other faults.

Clear the stored faults.

CONNECTION UNIT



Fault finding – Interpretation of statuses

ET027	REAR FOG LIGHT CONTROL
E1027	
NOTES	Only consult this customer complaint after a complete check using the diagnostic tool. Check the bulbs. Check that status ET258 Dipped beam headlights is ACTIVE if not, refer to status sheet ET258.
Check the UCH fuse. Repair if necessary.	
	7 and insulation of the connection between: 7 ——→ rear fog light

AFTER REPAIR

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

CONNECTION UNIT





LEFT-HAND INDICATOR CONTROL RIGHT-HAND INDICATOR CONTROL ET028 ET029 There must be no present or stored faults. Switch on the ignition. **NOTES** Operate the left or right direction indicator. The status must be **ACTIVE**. Check the indicator / UCH 25A supply fuse. ET028 Replace it if necessary. or ET029 Check the connection and condition of the indicator stalk connector. **INACTIVE** Repair the connector if necessary. Ensure the **continuity** of the connection between indicator stalk track 5 Repair if necessary: Disconnect the UCH 40-track EH1 connector and right or left indicator while in Ensure the **continuity and insulation** of the connections between: right-hand indicator stalk track 4 — track B28 UCH 40-track EH1 connector

left-hand indicator stalk track 6 — track B26 UCH 40-track EH1

connector

Repair if necessary.

AFTER REPAIR

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

CONNECTION UNIT

Fault finding – Interpretation of statuses

ET031	REAR SCREEN WASHER CONTROL
NOTES	There must be no present or stored faults. Switch on the ignition. Put the windscreen wiper stalk in the rear screen wash position. The status must be ACTIVE. Attention: when the rear screen washer signal is lost, the front windscreen wiper starts automatically.
ET031 INACTIVE	Check the rear screen wiper 15A fuse. Replace it if necessary.
	Check the connection and condition of the windscreen wiper stalk connector. Repair the connector if necessary.
	Ensure the continuity and insulation of the connections between: UCH 40-track EH1 connector track B29 earth earth + after ignition windscreen wiper stalk track B3 windscreen wiper stalk track B5 Repair if necessary.
	Check the correct operation of the washer pump, in particular the continuity and

insulation of the connections:

pump track 2 — track B4 windscreen wiper stalk pump track 1 — track B2 windscreen wiper stalk

Repair if necessary.

AFTER REPAIR

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

CONNECTION UNIT



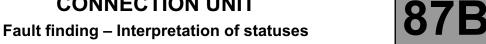


ET032	WINDSCREEN WASHER SWITCH
NOTES	There must be no present or stored faults. Switch on the ignition. Put the windscreen wiper stalk in the front screen wash position. The status must be ACTIVE .
ET032 INACTIVE	Check the rear screen wiper 15A fuse. Replace it if necessary.
	Check the connection and condition of the windscreen wiper stalk connector. Repair the connector if necessary.
	Ensure the continuity and insulation of the connections between: UCH 40-track EH1 connector track A7 earth windscreen wiper stalk track B4 windscreen wiper stalk track B3 + after ignition Repair if necessary.
	Check the correct operation of the washer pump, in particular the continuity and insulation of the connections: pump track 2 track B4 windscreen wiper stalk pump track 1 track B2 windscreen wiper stalk Repair if necessary.

AFTER REPAIR

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

CONNECTION UNIT



WINDSCREEN WIPER TIMER ET035 There must be no present or stored faults. Switch on the ignition. **NOTES** Put the wiper stalk in the intermittent wipe position. The status must be **ACTIVE**.

ET035 **INACTIVE**

Check the rear screen wiper 15Afuse. Replace it if necessary.

Check the connection and condition of the wiper stalk connector. Repair the connector if necessary.

Ensure the **continuity and insulation** of the connections between:

UCH EH1 connector track B24 — windscreen wiper stalk track A6
earth windscreen wiper stalk track B3
+ after ignition — windscreen wiper stalk track A1

Repair if necessary.

AFTER REPAIR

Carry out another fault finding check on the system.

Deal with any other faults. Clear the stored faults.

UCH X06 1.1

CONNECTION UNIT





TAILGATE OPEN
ET123

NOTES

Only for N3 UCH.

Check that no fault is present.

Open the front doors one after another.

Check that when the tailgate is open the corresponding status is YES or that, with the tailgate closed, the corresponding status is NO.

Check **the connections** between the door wiring and the passenger compartment wiring and the **continuity and insulation** between:

flange contact **A** and **track 30B** of the UCH EH1 connector

flange contact **B** and earth

Repair if necessary (see the wiring diagrams for the vehicle concerned).

Open the tailgate, disconnect the lock and close it.

Verify the continuity between the earth input track and the track on the UCH.

Pull the handle to open the lock and check that there is no longer continuity between the earth input track and the UCH track.

In the event of a fault, replace the lock.

Check that the lock engages into the striker plate properly.

AFTER REPAIR

Carry out another fault finding check on the system.

Deal with any other faults.

Clear the stored faults.

UCH X06 1.1

CONNECTION UNIT





ET192	FRONT DOORS
NOTES	Check that no fault is present. Open the front doors one after another.

Check that for each open door the corresponding status is active and for each closed door the corresponding status is inactive.

Check the **connections** between the door wiring and the passenger compartment wiring and the **continuity** and insulation between:

flange contact **A** and **track 40B** of the UCH EH1 connector flange contact **B** and earth

Repair if necessary (see wiring diagram for the vehicle concerned).

Open the door, disconnect the lock and close the lock.

Verify the continuity between the earth input track and the track on the UCH.

Pull the handle to open the lock and check that there is no longer continuity between the earth input track and the UCH track.

In the event of a fault, replace the lock.

Check that the lock engages into the striker plate properly.

AFTER REPAIR

Carry out another fault finding check on the system.

Deal with any other faults.

CONNECTION UNIT

Fault finding – Interpretation of statuses



RADIO FREQUENCY FRAME RECEIVED

ET193

NOTES

Only for N3 UCH.

Check that no fault is present.

The status is declared **YES** when the remote control is pressed.

If the status is declared **NO**, **switch the + after ignition feed off and on**, and retry with another vehicle key.

ET193 remains NO: when the remote control is pressed

Press the remote control button of another vehicle in the same family (CLIO II / or TRAFIC /) or blank key: Check that the status changes to **YES** when it is pressed.

If status YES is displayed, replace the faulty vehicle remote control unit.

If status NO is displayed, replace the UCH.

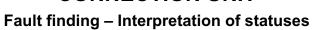
AFTER REPAIR

Carry out another fault finding check on the system.

Deal with any other faults. Clear the stored faults.

UCH X06 1.1

CONNECTION UNIT





ET257	SIDE LIGHTS SIGNAL
NOTES	There must be no present or stored faults. Activate the side lights switch. The status should be ACTIVE and the side lights on. Check the bulbs.
ET257 INACTIVE	Check the 10A side light fuse. Replace it if necessary.
	Check the connection and condition of the UCH 40-track EH1 connector if necessary . Replace the connector if necessary. Ensure the continuity and insulation of the connection between: UCH 40-track EH1 connector track A15 — b fuse box, side light fuse (10 A)

Repair if necessary.

Carry out another fault finding check on the system.

Deal with any other faults.

Clear the stored faults.

CONNECTION UNIT





ET258	DIPPED HEADLIGHTS SIGNAL
NOTES	There must be no present or stored faults. Activate the dipped headlights control. The status should be ACTIVE and the dipped headlights on. Check the bulbs.
ET258 INACTIVE	Check the 15A dipped headlights fuse. Replace the fuses if necessary. Check the connection and condition of the UCH EH1 40-track connector.
	Replace the connector if necessary. Ensure the continuity and insulation of the connection between: dipped headlights control track 2 track B25 UCH 40-track EH1 connector Repair if necessary.

AFTER REPAIR

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

CONNECTION UNIT

Fault finding – Customer complaints



NOTES

These customer complaints should only be investigated after a complete check has been run using the diagnostic tool.

NO DIALOGUE WITH THE COMPUTER

ALP 1

LIGHTING

INDICATOR LIGHTS DO NOT OPERATE	ALP 2
SIDE LIGHTS DO NOT OPERATE	ALP 3
DIPPED BEAM HEADLIGHTS DO NOT OPERATE	ALP 4
MAIN BEAM HEADLIGHTS DO NOT OPERATE	ALP 5
FRONT FOG LIGHTS DO NOT OPERATE	ALP 6
REAR FOG LIGHTS DO NOT WORK	ALP 7

WIPERS, WINDSCREEN WASHERS, DE-ICING

WINDSCREEN WIPER LOW SPEED DOES NOT OPERATE	ALP 8
WINDSCREEN WIPER HIGH SPEED DOES NOT OPERATE	ALP 9
REAR SCREEN WIPERS DO NOT OPERATE	ALP 10
HEATED REAR WINDSCREEN DOES NOT WORK	ALP 11

UCH X06 1.1

CONNECTION UNIT

Fault finding – Fault finding chart



ALP 1	No dialogue with the computer
NOTES	None.
Try the diagnostic tool	on another vehicle.
Check: – the connection between the diagnostic tool and the diagnostic socket (wiring in good condition), – the engine and passenger compartment fuses.	
Check for the presence of + 12 volts before ignition feed on track 16, + 12 volts after ignition feed on track 1 and an earth on tracks 4 and 5 of the diagnostic socket. Repair if necessary.	
Check the computer connections.	
Connect the bornier and check the insulation, continuity and absence of unwanted resistance on the following connections: UCH P1 connector track A1 UCH P1 connector track A3 UCH EH1 connector track B34 Repair if necessary.	

CONNECTION UNIT

Fault finding – Fault finding chart



ALP 2	Indicator lights do not operate
NOTES	Only consult this customer complaint after a complete check using the diagnostic tool. Check the bulbs.

Check the condition of the 25 A fuse and replace it if necessary.

Activate the hazard warning light control and check that status ET022 Hazard warning lights control is active; if not refer to the section on how to deal with this status.

Activate the right or left-hand indicator and check that the left and right indicator control status ET028 and **ET029** are active if not, refer to the relevant section for these statuses.

Check the condition of the P1 15-track connector of the UCH. Replace it if necessary.

Ensure the **continuity** of the following connections:

UCH P1 connector track A9 — left-hand indicator UCH P1 connector track A8 — right-hand indicator

Repair if necessary.

CONNECTION UNIT

Fault finding – Fault finding chart



ALP 3	Side lights not working
NOTES	Only consult this customer complaint after a complete check using the diagnostic tool. Check the bulbs.

Activate the side lights control and check that the status **ET020 Side lights control** is active; if not refer to the section on how to deal with this status.

Check the side light **10A** supply fuses. Replace it if necessary.

Check the **continuity** of the connection between: side light fuse (10 A) — front and rear side lights

Repair if necessary.

CONNECTION UNIT

Fault finding – Fault finding chart



ALP 4

Dipped headlights not working

Only consult this customer complaint after a complete check using the diagnostic tool. Check the bulbs.

Check the dipped headlights 15A supply fuses. Replace it if necessary.

Check the continuity of the connection between:

light stalk track B2

fuse box, dipped headlights fuses (15 A)

Repair if necessary.

Check the continuity of the connection between:

fuse box, dipped headlights fuse (15 A) — dipped headlights

Check the **continuity** of the connection between:

CONNECTION UNIT

Fault finding – Fault finding chart



ALP 5	Main beam headlights not working
NOTES	Only consult this customer complaint after a complete check using the diagnostic tool. Check the bulbs.
Check the main beam Replace it if necessary	headlights 15A supply fuses.
Check the continuity of the connection between: light stalk track B1	

fuse box, main beam headlights fuses (15 A) — main beam headlights

CONNECTION UNIT

Fault finding – Fault finding chart



ALP 6	Front fog lights do not operate
NOTES	Only consult this customer complaint after a complete check using the diagnostic tool. Check the bulbs.

Activate the fog light control.

Check the front fog lights fuse.

Replace the fuse if necessary.

Check for the presence of **+12 volts** before ignition on **track 3** of the front fog light relay. Repair if necessary.

Activate the front fog light control.

Check for the presence of + 12 volts + before ignition on track 1 of the front fog light relay.

Repair if necessary.

Check for the presence of earth on track 2 of the front fog light relay.

Repair if necessary.

Ensure the **continuity and insulation** of the connection between:

front fog light relay **track 5** — front fog lights

Repair if necessary.

CONNECTION UNIT

Fault finding – Fault finding chart



ALP 8	Windscreen wiper low speed not working
NOTES	There must be no present or stored faults.
Check the front wiper 15A fuse. Replace the fuse if necessary.	
Check the + after ignition feed of the stalk, track B5 . Repair if necessary.	
Ensure the continuity and insulation of the connections between: stalk track A3 — track 3 windscreen wiper motor earth — track 5 windscreen wiper motor Repair if necessary. Check that the motor operates correctly.	
Check that the wiper mechanism or motor are not jammed. Repair if necessary.	

AFTER REPAIR

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

CONNECTION UNIT

Fault finding – Fault finding chart



ALP 9	High speed windscreen wiper not working
W0750	
NOTES	There must be no present or stored faults.
Check the front wiper 15A fuse. Replace the fuse if necessary.	
Check the + after ignition feed of the stalk, track A1 . Repair if necessary.	
Ensure the continuity and insulation of the connections between: stalk track A2	
Check that the wiper mechanism or motor are not jammed. Repair if necessary.	

AFTER REPAIR

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

CONNECTION UNIT

Fault finding – Fault finding chart



ALP 10	Rear screen wiper does not operate
NOTES	Confirm the fault. Only consult this customer complaint after a complete check using the diagnostic tool.
Check the rear screen wiper 15A fuse. Replace the fuse if necessary.	
Check the + after ignition feed of the stalk, track B5 . Repair if necessary.	
Ensure the continuity and insulation of the connections between: rear screen wiper fuse (15 A) — track 3 rear screen wiper motor wiper switch track B1 — track 1 rear screen wiper motor	

earth - track 2 rear screen wiper motor

Check that the wiper mechanism or motor are not jammed.

Repair if necessary.

Repair if necessary.

Check that the motor operates correctly.

CONNECTION UNIT

Fault finding – Fault finding chart



ALP 11	Heated rear screen not working
NOTES	Only consult this customer complaint after a complete check using the diagnostic tool.
Check the heated rear screen 20A fuse. Replace the fuse if necessary. Ensure the continuity and insulation of the connection between: fuse box, rear screen fuse (20 A) heated rear screen switch Repair if necessary.	
Ensure the continuity and insulation of the connections between: heated rear screen switch parth heated rear screen Repair if necessary.	