



	Type	S/Section
<b>EXTRA</b>	F40 X	82
<b>CLIO</b>	X57 X	82
<b>RENAULT 19</b>	X53 X	82
<b>LAGUNA</b>	X56 X	82
<b>SAFRANE</b>	B54 X	82
<b>ESPACE</b>	J63 X	82
<b>TRAFIC</b>	PXX X	82
	TXX X	82
	VXX X	82

*This note cancels and replaces NT 2784A, Part No. : 77 11 193 866 of April 1997*

**82 VALEO ENGINE IMMOBILISER WITH PLIP**

- Engine :                   XXX   Basic Manual : NT 2300, 2320, 2324, 2338,
- Gearbox :                 XXX   2342, 2376, 2407, 2474, 2489, 2497

This technical note describes the development in decoder units on plip first and second generation rolling code engine immobiliser systems (V1' and V2 PLIP).

"The repair methods given by the manufacturer in this document are based on the technical specifications current when it was prepared.

The methods may be modified as a result of changes by the manufacturer in the production of the various component units and accessories from which his vehicles are constructed".

All copyrights reserved by Renault.

Copying or translating, in part or in full, of this document or use of the service part reference numbering system is forbidden without the prior written authority of RENAULT.

# ENGINE IMMOBILISER

## Development of decoder units

82

This new decoder is fitted as standard on **CLIO**, **EXTRA** and **TRAFIC** vehicles.

It is available as a spare part to replace old Part Numbers for **CLIO**, **EXTRA**, **RENAULT 19**, **LAGUNA**, **SAFRANE**, **ESPACE** and **TRAFIC** vehicles equipped with an engine immobiliser (V1' or V2).

These new decoders will need to be configured during the reprogramming procedure (automatic start-up, engine).

New replacement part numbers:

	1st generation (V1')	2nd generation (V2)
CLIO	77 01 044 537	77 00 845 406
EXTRA RENAULT 19 LAGUNA SAFRANE ESPACE TRAFIC	77 01 044 538	77 00 311 235

**COMMENT:** All **CLIO** vehicles equipped with this new decoder as standard will be fitted with a red immobiliser tell-tale light. (This includes first generation V1' engine immobiliser systems.)

### ATTENTION :

Do not fit a 2nd generation type decoder on a vehicle fitted with a 1st generation type engine immobiliser system.

If a 1st generation injection computer is programmed with a code from a 2nd generation decoder, it will not be possible to store a code or to clear it. It will therefore be necessary in this case to replace the injection computer and the decoder unit.

If the opposite applies (fitting a 1st generation decoder to a vehicle equipped with a 2nd generation immobiliser), there is no risk of coding the injection computer or the coded solenoid (programming the code remains impossible). In this situation, replace the decoder unit.

Before ordering a decoder from the Parts Department, check whether it is a 1st or 2nd generation immobiliser using the XR25 (code D39 for immobiliser 1st or 2nd generation).

**NOTE :** Fault finding for these new decoders using the XR25 can only be carried out using cassette No. 17 or higher.

### RESYNCHRONISATION PROCEDURE

#### Special note

With the new decoder, resynchronisation of the 2nd plip is not always necessary. If it is carried out using a single plip, check that the second plip operates. If it does not operate, carry out the full re-synchronisation procedure using both plips.

To carry out this procedure, it will be necessary to re-enter the vehicle security code using the XR25 (code **D39** command mode **G40\***) or central door locking button and red immobiliser tell-tale (depending on version).

The security code must be requested from the local breakdown assistance network (depending on country, eg, Delta Assistance for France), quoting the number written inside the key head (7 characters). For the UK, send a request by fax to NVSR.

- A) With the ignition off, connect the XR25 to the vehicle and place the selector on S8; enter code **D39**.
- B) Lock the doors using the plip or wait for the automatic activation of the engine immobiliser (bargraph **10 left** should illuminate).
- C) Switch on the ignition and enter **G40\*** followed by the vehicle security code and validate with \* :
  - if the code is correct, the XR25 will display "bon",
  - if the code is incorrect, the XR25 will display "def". In this situation, check the code is correct and recommence the operation after having switched the ignition off and on again.

- D) Switch off the ignition.
- E) Press the central door locking button for more than 2 seconds (the doors will be locked and unlocked). From this point onwards, the operator has **15 seconds** to carry out the following two operations (F and G).
- F) Press the first plip once (the doors will be locked and unlocked).
- G) Press the second plip once (the doors will be locked and unlocked).

**ATTENTION :** For the infra-red code to be correctly transmitted, it is essential to point the plip towards the receiver to carry out operations F and G. If the procedure fails, it will be necessary to recommence the procedure from the beginning.

- H) Once the procedure is complete, check that the door locking operation is functioning correctly.

### PROGRAMMING PROCEDURE

When replacing a decoder unit, it will be necessary to programme the new part and to configure it depending on the vehicle type and country.

#### NOTES :

- Programming can only be carried out once per decoder unit.
- When replacing a decoder unit only, there is no other operation to be performed on the injection computer or coded solenoid. It retains the same immobiliser code.
- When a decoder has been programmed with the key codes it is not possible to clear the stored code or to store another code in its place.
- On vehicles fitted with a 2nd generation immobiliser it is not possible to start this if the programming procedure has not been carried out (except if the injection computer or electronics for the coded solenoid has not been coded).
- The programming procedure will not work if the same plip is presented twice or if the plips are not a matched pair.
- The appearance of +APC during programming causes the procedure to be aborted and can be seen by the doors locking. The decoder unit then reverts to its initial status.
- The procedure can be carried out :
  - using both PLIPs when replacing a complete system (which enables a check to be made that the plips are correctly matched).
  - using one single PLIP when replacing the decoder unit only, using the XR25 (situation where the customer does not wish to leave both keys at the workshop). Enter command mode **G31\*1\*** before programming. In this instance, it will be necessary to carry out re-synchronisation of the 2nd plip so that it will be operational.

A) After fitting the new decoder unit to the vehicle (with the ignition off), connect the XR25, place the selector on S8 and enter code **D39** (fiche no. 39). Bargraph **19 right** should be illuminated.

B) Press the central door locking button for more than 2 seconds (it doesn't matter which side). The doors will be locked and unlocked. From this point onwards the operator has 15 seconds to carry out the following two operations (C and D) (on the XR25 bargraph **19 left** and the engine immobiliser tell-tale illuminate during this 15 second period).

C) Press the first plip once (the doors will be locked and unlocked).

D) Press the second plip once (the doors will be locked and unlocked).

E) Proceed with the various configurations depending on country and vehicle equipment level using the XR25 :

- automatic activation after **1 minute** (Great Britain and Belgium) → command mode **G34\*3\***,
- petrol engine → command mode **G22\*1\***,
- diesel engine → command mode **G22\*2\***.

F) Once the programming procedure is complete check the locking operation for the doors and check that the immobiliser system is functioning correctly (bargraph **19 right** should be extinguished).

**NOTE :** When replacing a complete system (decoder unit plus 2 plips), carry out the programming procedure using both new plips and configure the decoder unit as indicated above; then clear the old code from the injection computer as per the method described in the technical notes relating to the vehicle concerned.