

RENAULT

Technical Note 6008A

XXXX

SUMMARY

OF ENGINE IMMOBILISER SYSTEMS

This note cancels and replaces Technical Note 3474A

77 11 329 022

NOVEMBER 2003

EDITION ANGLAISE

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

They may be modified as a result of changes introduced by the Manufacturer in the production of the various components 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.

© RENAULT 2003

ENGINE IMMOBILISER

Summary table

82A

Summary of engine immobiliser systems and their main characteristics:

- Infrared remote control with fixed code for petrol engines,
- Infrared remote control with fixed code for diesel engines,
- Infrared remote control with rolling code for petrol engines,
- Infrared remote control with rolling code for diesel engines,
- KEY for petrol engines (without infrared remote control),
- KEY for diesel engines (without infrared remote control),
- KEY and infrared remote control with rolling code for petrol/diesel engines,
- Coded engine immobiliser (V2),
- Coded engine immobiliser (V3).

REMINDER

Follow the procedure given in Technical Note **3315E** to obtain the troubleshooting and repair codes.

ENGINE IMMOBILISER

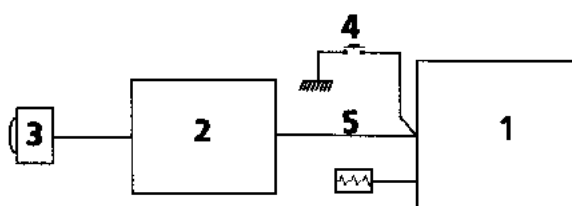
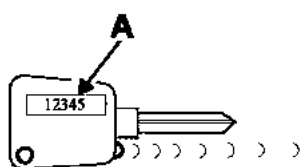
Summary table

82A

INFRARED REMOTE CONTROL WITH FIXED CODE FOR PETROL ENGINES (7 keys)				
VEHICLES	1 st Generation infrared remote control fixed code (V1)**		1 st Generation infrared remote control timed fixed code (V1T)	
	from	note	from	note
CLIO	07/94	2197	10/94	2238
R 19	05/93	2171	10/94	2238
R 21	01/92	1939	-	-
LAGUNA	02/94	Workshop Repair Manual 307	09/94	2238
SAFRANE	01/93	1923	10/94	2238
SPECIAL NOTES	↓		↓	
CODE CARD	yes		yes	
FAULT FINDING TOOL	no		no	
IDENTIFICATION	-		-	
M E R A *	no		15 min	
RED WARNING LIGHT	no		no	
MANUAL CODE	Trip Computer button		Trip Computer button	
PROGRAMMING	no		no	
RESYNCHRONISING REMOTE CONTROLS	no		no	
TROUBLESHOOTING	↓		↓	
PROCEDURE IN EVENT OF ENGINE IMMOBILISER SYSTEM FAILURE (remote control, infrared receiver or decoder unit)	The customer has the code card. The procedure for entering the code is in the instructions. The customer can rectify the fault without help.		The customer has the code card. The procedure for entering the code is in the instructions. The customer can rectify the fault without help.	

* Automatic start after switching the ignition off.

** For infrared remote control engine immobilisers with fixed codes, only the timed decoder unit (V1T) is available as a spare part.



- 1 Injection computer
- 2 Decoder unit
- 3 Infrared receiver
- 4 Trip Computer button
- 5 Coded line
- A Example of marking

PRN8204

ENGINE IMMOBILISER

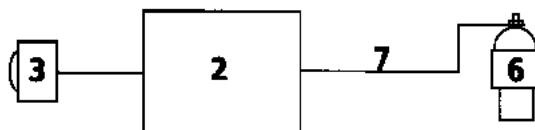
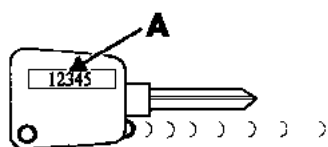
Summary table

82A

INFRARED REMOTE CONTROL ENGINE IMMOBILISER WITH FIXED CODE FOR DIESEL ENGINES (4 keys)				
		1 st Generation infrared remote control fixed code (V1)**		1 st Generation infrared remote control timed fixed code (V1T)
VEHICLES	from	note	from	note
LAGUNA	07/94	2136	09/94	2238
SAFRANE	05/93	1952	09/94	2238
SPECIAL NOTES	↓		↓	
CODE CARD	no		no	
FAULT FINDING TOOL	no		no	
IDENTIFICATION	-		-	
M E R A *	no		15 min	
RED WARNING LIGHT	no		no	
MANUAL CODE	none		none	
PROGRAMMING	no		no	
RESYNCHRONISING REMOTE CONTROLS	no		no	
MARKING	5 digits		5 digits	
TROUBLESHOOTING	↓		↓	
PROCEDURE IN EVENT OF ENGINE IMMOBILISER SYSTEM FAILURE (remote control, infrared receiver or decoder unit)	No procedure. Direct feed to electrical solenoid (+12 V).		No procedure. Direct feed to electrical solenoid (+12 V).	

* Automatic start after switching the ignition off.

** For infrared remote control engine immobilisers with fixed codes, only the timed decoder unit (V1T) is available as a spare part.



- 2 Decoder unit
- 3 Infrared receiver
- 6 Electrical solenoid
- 7 + After ignition after infrared remote control
- A Example of marking

PRN8205

ENGINE IMMOBILISER

Summary table

82A

INFRARED REMOTE CONTROL ENGINE IMMOBILISER WITH ROLLING CODE FOR PETROL ENGINES (7 keys)								
VEHICLES	1 st Generation infrared remote control rolling code (V1 ')				2 ^d Generation infrared remote control rolling code (V2)			
	fitted	from	note	additional notes	fitted	from	note	additional notes
TWINGO	-	-	-	-	X (a)	01/95	2330	2377/2751
EXPRESS	X (b)	04/95	2407	2784/2914	X (b)	04/95	2407	2784/2914
CLIO	X (a) or (b)	04/95	2376	2753 / 2784 / 2914	X (b)	01/96	2497	2784/2914
R 19	X (a)	03/95	2320	2378/2914	-	-	-	-
MEGANE	-	-	-	-	X (c)	11/95	Workshop Repair Manual 312	2733/3315
LAGUNA	X (a)	01/95	2324	2914	X (b)	05/95	2324	2910/2914
SAFRANE	X (a)	02/95	2300	2379/2914	-	-	-	-
ESPACE (J63)	X (b)	04/95	2338	2463/2914	-	-	-	-
TRAFIC	X (b)	10/95	2489	2784/2914	-	-	-	-
SPECIAL NOTES	↓				↓			
CODE CARD	no				no			
FAULT FINDING TOOL	yes				yes (except TWINGO)			
IDENTIFICATION	no. 39				(a) no. 39 / (b) no. 45			
M E R A *	10 min**				10 min**			
RED WARNING LIGHT	no (except ESPACE (J63) and some CLIOs)				yes			
MANUAL CODE	(a) Trip Computer / (b) button central door locking or fault finding tool				(a) Trip Computer / (b) button central door locking or fault finding tool / (c) central door locking			
PROGRAMMING	yes				yes			
RESYNCHRONISING REMOTE CONTROLS	yes				yes			
MARKING	7 characters: 1st = P, V or R				(a) 7 characters: 1st = W (b) 7 characters: 1st = P, V or R (c) 5 characters: 1st = S			
TROUBLESHOOTING	↓				↓			
PROCEDURE IN EVENT OF ENGINE IMMOBILISER SYSTEM FAILURE (remote control, infrared receiver or decoder unit).	The customer does not have the code card. The code must be entered by the repair agent. Do not inform the customer of the code***.				The customer does not have the code card. The code must be entered by the repair agent. Do not inform the customer of the code***.			

* Automatic start after switching the ignition off.

** **1 minute** for the UK and Belgium.

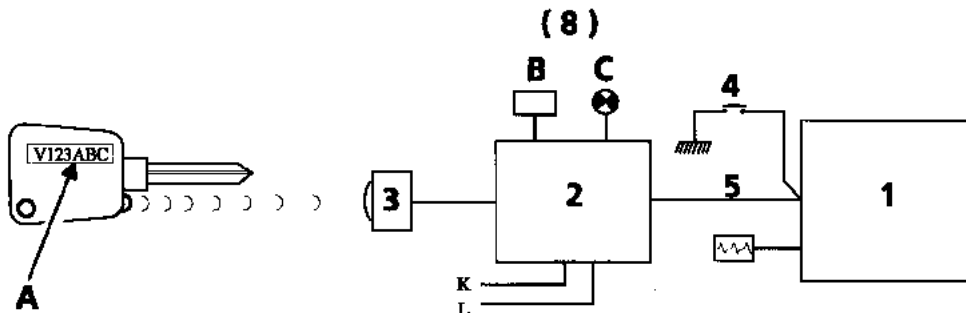
*** The procedure for the ESPACE (J63) is in the instructions. The code must be entered by the repair agent. Do not inform the customer of the code.

ENGINE IMMOBILISER

Summary table

82A

V1' INFRARED REMOTE CONTROL



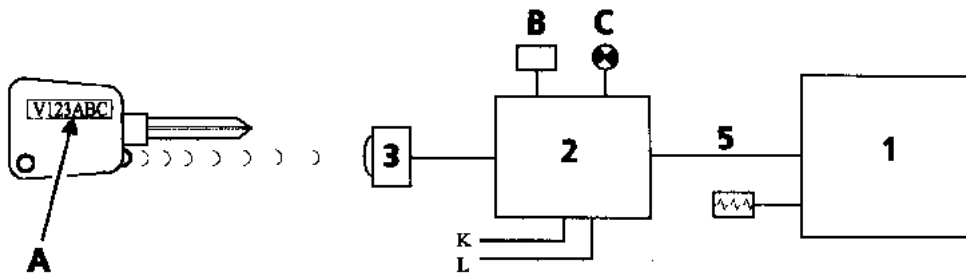
PRN8206

A Example of marking

or P123ABC
or R123ABC

- | | |
|---|--|
| 1 | Injection computer |
| 2 | Decoder unit |
| 3 | Infrared receiver |
| 4 | Trip Computer button (except ESPACE (J63)) |
| 5 | Coded line |
| 8 | Only on ESPACE (J63) and some CLI0s |
| B | Electric door lock button (central door locking) |
| C | Red engine immobiliser warning light |

V2 INFRARED REMOTE CONTROL



PRN8207

A Example of marking

or P123ABC
or R123ABC
or W123ABC
or S12AB

- | | |
|---|--|
| 1 | Injection computer |
| 2 | Decoder unit |
| 3 | Infrared receiver |
| 5 | Coded line |
| B | Electric door lock button (central door locking) |
| C | Red engine immobiliser warning light |

ENGINE IMMOBILISER

Summary table

82A

KEY RECOGNITION ENGINE IMMOBILISER SYSTEM FOR PETROL ENGINES (WITHOUT INFRARED REMOTE CONTROL) (7 keys)								
1 st Generation KEY recognition (V1)					2 nd Generation KEY recognition (V2)			
VEHICLES	fitted	from	note	additional notes	fitted	from	note	additional notes
TWINGO	-	-	-	-	X (a) or (b)	01/95	2330	2751/3022
CLIO	X	04/95	2376	2753	X (d)	01/96	2497	-
KANGOO	-	-	-	-	X (b)	10/97	Workshop Repair Manual 325	-
MEGANE	-	-	-	-	X (d)	11/95	Workshop Repair Manual 312	2733
LAGUNA	X	11/95	2517	-	X (d)	11/95	2517	-
MASTER (XD0)	-	-	-	-	X (b)	10/97	Workshop Repair Manual 323	-
SPECIAL NOTES	↓				↓			
CODE CARD	no				no			
FAULT FINDING TOOL	yes				yes			
IDENTIFICATION	no. 38				(a) and (d) no. 38 / (b) no. 56			
M E R A *	10 s				10 s			
RED WARNING LIGHT	no				yes			
MANUAL CODE	Trip Computer button or MS 511-01				button: (a) Trip Computer / (d) code or fault finding tool / (b) central door locking			
PROGRAMMING	yes				yes			
RESYNCHRONISING REMOTE CONTROLS	no				no			
MARKING	8 characters: 1st = Y				8 characters: 1st = (a) and (d) Y / (b) E or A			
TROUBLESHOOTING	↓				↓			
PROCEDURE IN EVENT OF ENGINE IMMOBILISER SYSTEM FAILURE (key head, antenna/transponder ring or decoder unit).	<p>The customer does not have the code card.</p> <p>The procedure for entering the code is not in the instructions.</p> <p>The code must be entered by the repair agent. Do not inform the customer of the code.</p>				<p>The customer does not have the code card.</p> <p>(a) and (d) The procedure for entering the code is in the instructions (except MEGANE without electric door lock button).</p> <p>The code is entered by the repair agent. The customer is not informed of the code (except MEGANE without electric door lock button).</p> <p>(b) The procedure for entering the code is not in the instructions (code entry by fault finding tool only).</p> <p>The code must be entered by the repair agent. Do not inform the customer of the code.</p>			

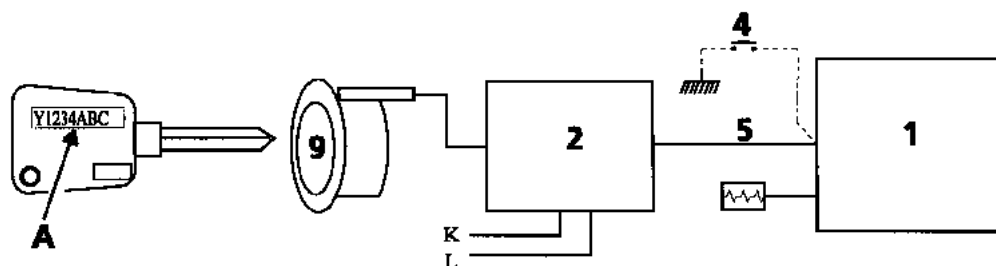
* Automatic start after switching the ignition off.

ENGINE IMMOBILISER

Summary table

82A

V1 KEY

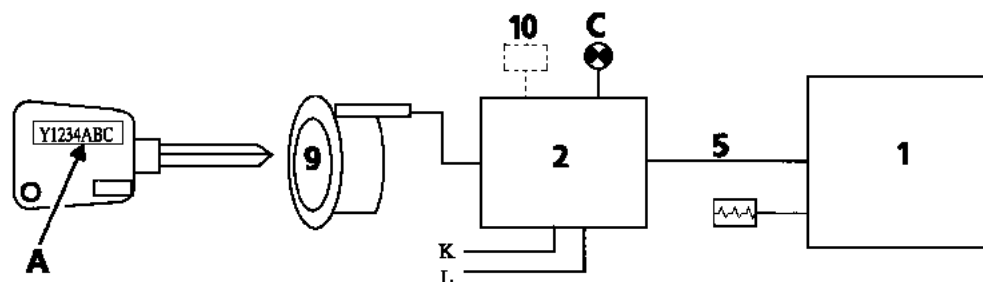


PRN8208

A Example of marking

- 1** Injection computer
- 2** Decoder unit
- 4** Trip Computer button (if fitted)
- 5** Coded line
- 9** Antenna/transponder ring

V2 KEY



PRN8209

A Example of marking

C Red engine immobiliser warning light

- 1** Injection computer
- 2** Decoder unit
- 5** Coded line
- 9** Antenna/transponder ring
- 10** Code button

ENGINE IMMOBILISER

Summary table

82A

INFRARED REMOTE CONTROL ENGINE IMMOBILISER SYSTEMS WITH ROLLING CODE OR KEY RECOGNITION FOR DIESEL ENGINES (4 or 7 keys according to coded solenoid valve shielding)								
VEHICLES	2 nd Generation infrared remote control rolling code (V2)				2 nd Generation KEY recognition (V2)			
	fitted	from	note	additional notes	fitted	from	note	additional notes
EXPRESS	X (a)	01/96	2474	2507/2568/2784	-	-	-	-
KANGOO	-	-	-	-	X (b)	10/97	Workshop Repair Manual 325	2990
CLIO	X (a)	12/96	2474	2507/2568/2784	X (d)	12/95	2474	2507/2547/ 2568/2572/2990
MEGANE	X (b)	01/96	Workshop Repair Manual 312	2507/2547/2568/ 2733	X (d)	01/96	Workshop Repair Manual 312	2507/2547/ 2572/2568/ 2733/2990
LAGUNA	X (a)	09/95	2474	2507/2568	X (d)	11/95	2474	2507/2568/ 2572/2990
SAFRANE	X (a)	10/95	2474	2507/2568/2572/ 2990	-	-	-	-
ESPACE (J63)	X (a)	09/95	2474	2507/2568/2572	-	-	-	-
TRAFIC	X (a)	01/96	2474	2507/2572/2784/ 2990	-	-	-	-
MASTER (XD0)	-	-	-	-	X (b)	10/97	Workshop Repair Manual 323	2990
SPECIAL NOTES	↓				↓			
CODE CARD	no				no			
FAULT FINDING TOOL	yes				yes			
IDENTIFICATION	(a) no. 39 / (b) no. 45				(d) no. 38 / (b) no. 56			
M E R A *	10 s**				10 s			
RED WARNING LIGHT	yes				yes			
MANUAL CODE	(a) electric door lock button or fault finding tool/ (b) central door locking				(d) code button or fault finding tool/ (b) fault finding tool			
PROGRAMMING	yes				yes			
RESYNCHRONISING REMOTE CONTROLS	yes (with code)				no			
MARKING	(a) 7 characters: 1st = P, V or R (b) 5 characters: 1st = S				8 characters: 1st = (d) Y/(b) E or A			

ENGINE IMMOBILISER

Summary table

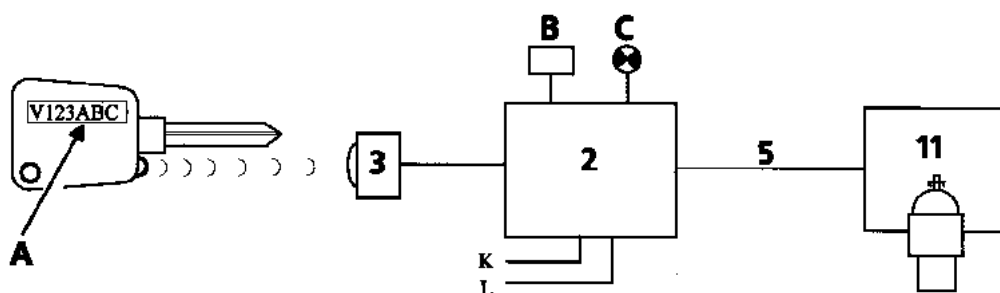
82A

TROUBLESHOOTING	↓	↓
<p>PROCEDURE IN EVENT OF ENGINE IMMOBILISER SYSTEM FAILURE</p> <p>(remote control or key head, infrared receiver or antenna/transponder ring or decoder unit)</p>	<p>The customer does not have the code card.</p> <p>The procedure for entering the code is in the instructions.</p> <p>The code must be entered by the repair agent. Do not inform the customer of the code.</p>	<p>The customer does not have the code card.</p> <p>(d) The procedure for entering the code is in the instructions (except MEGANE without electric door lock button).</p> <p>The code is entered by the repair agent. The customer is not informed of the code (except MEGANE without electric door lock button).</p> <p>(b) The procedure for entering the code is not in the instructions (code entry by fault finding tool only).</p> <p>The code must be entered by the repair agent. Do not inform the customer of the code.</p>

* Automatic start after switching the ignition off.

** 1 minute for the UK and Belgium.

Infrared remote control with rolling code



PRN8210

A Example of marking

or P123ABC
or R123ABC
or S12AB

B Electric door lock button (central door locking)

C Red engine immobiliser warning light

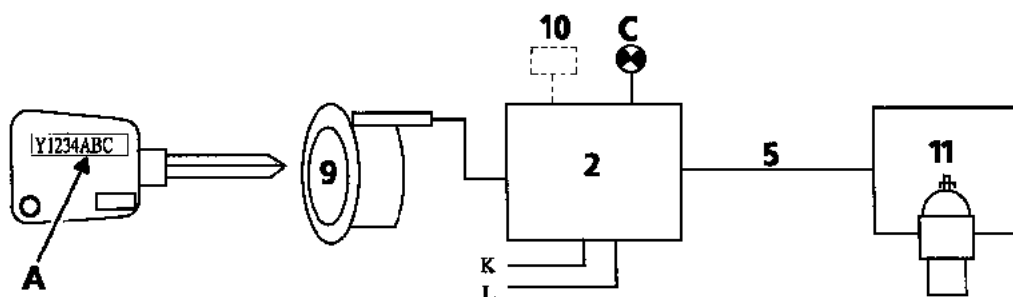
2 Decoder unit

3 Infrared receiver

5 Coded line

11 Coded solenoid valve

KEY recognition



PRN8211

A Example of marking

C Red engine immobiliser warning light

2 Decoder unit

5 Coded line

9 Antenna/transponder ring

10 Code button

11 Coded solenoid valve

ENGINE IMMOBILISER

Summary table

82A

INFRARED REMOTE CONTROL AND KEY ENGINE IMMOBILISER SYSTEMS WITH ROLLING CODE FOR PETROL/DIESEL ENGINES (7 keys)								
VEHICLES	2 th Generation KEY box and infrared remote control separated (V2)				2 nd Generation single unit (dual-functional) (V2) or decoder unit			
	fitted	from	note	additional notes	fitted	from	note	additional notes
TWINGO	-	-	-	-	X (b)	12/99	3361	3429/3546/3560
CLIO II	-	-	-	-	X (b)	03/98	Workshop Repair Manual 337	2065/3018/ 3243/3248/ 3391/3532
KANGOO	-	-	-	-	X (b)	10/97	Workshop Repair Manual 325	3112/3118/ 3391/3546/3560
LAGUNA	-	-	-	-	X (a)	01/97	2725	2958
SAFRANE	X	09/96	2624	2728	X (a)	01/97	2725	2878/2958
ESPACE (JE0)	X	09/96	MR315	2754	X (a)	01/97	2754	3028/3057/ 3101/3441/3623
MASTER (XD0)	-	-	-	-	X (b)	10/97	Workshop Repair Manual 323	3083/3061/ 3118/3546/3560
SPECIAL NOTES	↓				↓			
CODE CARD	no				no			
FAULT FINDING TOOL	yes				yes			
IDENTIFICATION	KEY decoder unit no. 38/infrared remote control no. 39				no. 56			
M E R A *	10 s				10 s			
RED WARNING LIGHT	yes				yes			
MANUAL CODE	Electric door lock button or fault finding tool				(a) electric door lock button or fault finding tool / (b) fault finding tool			
PROGRAMMING	yes				yes			
RESYNCHRONISING REMOTE CONTROLS	Infrared remote control: yes (with code or short-cut) KEY: no				Infrared remote control: yes (short-cut) KEY: no			
MARKING	8 characters: 1st = Z				8 characters: 1st = (a) Z / (b) E or A			
TROUBLESHOOTING	↓				↓			
PROCEDURE IN EVENT OF ENGINE IMMOBILISER SYSTEM FAILURE (key head, antenna/transponder ring or decoder unit).	The customer does not have the code card. The procedure for entering the code is in the instructions. The code must be entered by the repair agent. Do not inform the customer of the code. WARNING On the first vehicles (without resynchronising shortcuts), the security code is different from the synchronising code.				The customer does not have the code card. (a) The procedure for entering the code is in the instructions. The code must be entered by the repair agent. Do not inform the customer of the code. (b) The procedure for entering the code is not in the instructions (code entry by XR25 only). The code must be entered by the repair agent. Do not inform the customer of the code.			

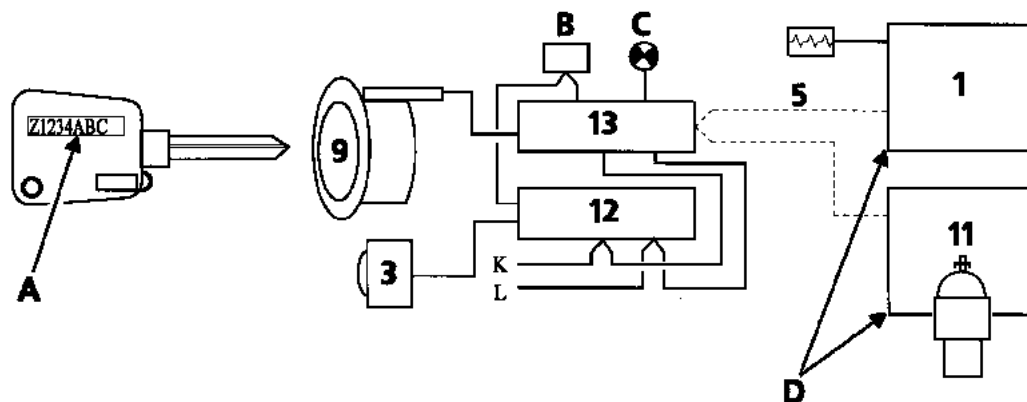
* Automatic start after switching the ignition off

ENGINE IMMOBILISER

Summary table

82A

Separate KEY/infrared remote control decoder units

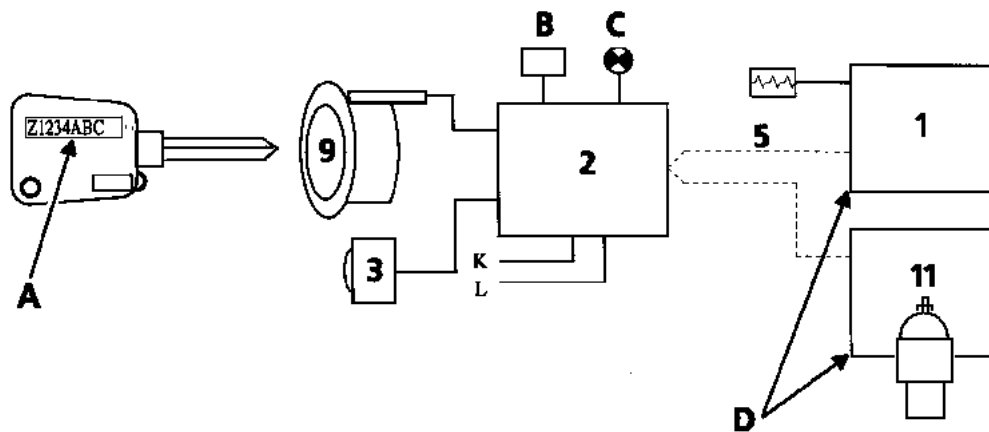


PRN8212

- A Example of marking
- B Electric door lock button (central door locking)
- C Red engine immobiliser warning light
- D Injection computer (1) or the coded solenoid valve (11).

- 1 Injection computer
- 3 Infrared receiver
- 5 Coded line
- 9 Antenna/transponder ring
- 11 Coded solenoid valve
- 12 Infrared remote control decoder
- 13 KEY decoder

Dual-function unit, single decoder unit, multi-timer unit* or BII**



PRN8213

- A Example of marking
- B Electric door lock button (central door locking)
- C Red engine immobiliser warning light
- D Injection computer (1) or the coded solenoid valve (11).

- 1 Injection computer
- 2 KEY/infrared remote control decoder unit
- 3 Infrared or radio frequency remote control receiver
- 5 Coded line
- 9 Antenna/transponder ring
- 11 Coded solenoid valve

* Multi-timer unit

** Intelligent connection unit

NOTE: On some Twingos, the remote control receiver is integrated in the antenna/transponder ring (C). It functions in the same way as the key recognition engine immobiliser system. See Technical Note 3361A.

ENGINE IMMOBILISER

Summary table

82A

	CODED IMMOBILISERS WITH KEY RECOGNITION SYSTEM (V2)		
VEHICLES	from	note	additional notes
MEGANE	09/98	3060	3080/3088/3089/3156/3228/3355/3464/3668
AVANTIME	10/02	Workshop Repair Manual 350 / Workshop Repair Manual 352	-
SPECIAL NOTES	↓		
CODE CARD	no		
FAULT FINDING TOOL	yes		
IDENTIFICATION	64		
M E R A *	10 s		
RED WARNING LIGHT	yes		
MANUAL CODE	Fault finding tool		
PROGRAMMING	yes		
RESYNCHRONISING REMOTE CONTROLS	Remote control: yes KEY: no		
MARKING	None		
TROUBLESHOOTING	↓		
PROCEDURE IN EVENT OF ENGINE IMMOBILISER SYSTEM FAILURE (key head, antenna/transponder ring or decoder unit).	The security code no longer exists but has been replaced by a repair code allocated to the vehicle for life during manufacture. This repair code is required in after-sales in order to: <ul style="list-style-type: none"> - add or replace a key, - de-register one or more keys, - replace a UCH or a decoder unit. 		

* Automatic start after switching the ignition off.

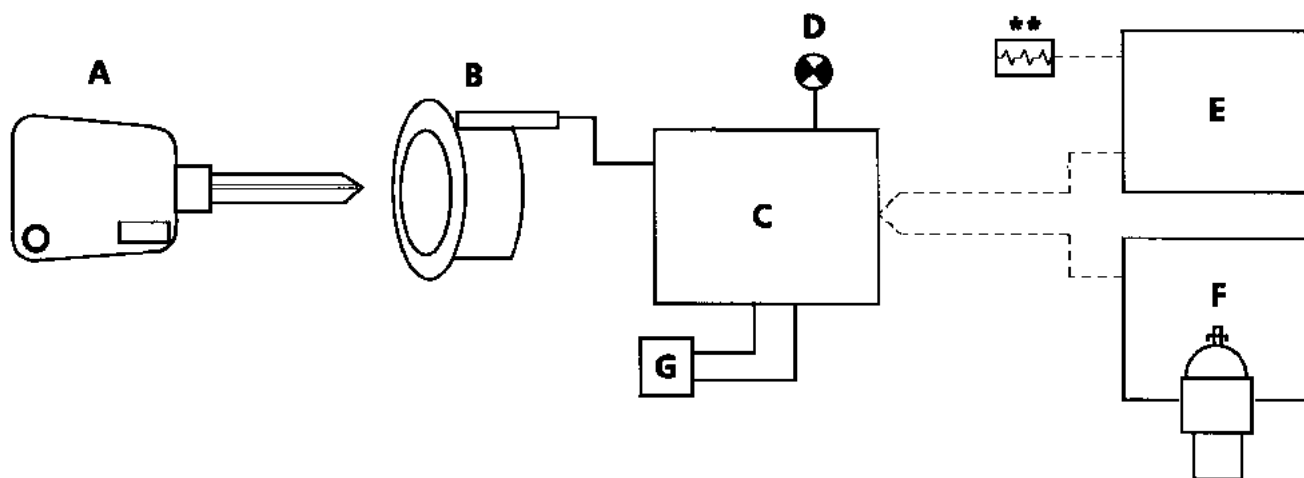
WARNING

A complete set (decoder unit or UCH and key heads) cannot all be replaced at the same time, as the parts are sold uncoded.

ENGINE IMMOBILISER

Summary table

82A



15357R

- A** Engine immobiliser key with or without remote control
- B** Engine immobiliser antenna/transponder ring
- C** Decoder unit or UCH (according to equipment)
- D** Red engine immobiliser warning light
- E** Injection computer (petrol or direct diesel injection)
- F** Diesel coded solenoid valve (without direct diesel injection)
- G** Diagnostic socket

** This warning light is not operational on all vehicles (see Technical Notes) **Wiring diagram**).

ENGINE IMMOBILISER

Summary table

82A

CODED ENGINE IMMOBILISER SYSTEMS WITH KEY/CARD RECOGNITION SYSTEM (V3)			
VEHICLES	from	note	additional notes
LAGUNA II	01/00	Workshop Repair Manual 339 / Workshop Repair Manual 341	-
TRAFIC II	06/01	Workshop Repair Manual 342 / 344	-
CLIO II	06/01	Workshop Repair Manual 345/347/348	3561/3681
TWINGO (vehicles equipped with a UCH)	01/02	-	3594
KANGOO (multiplexed vehicles)	06/02	-	3629/3641/3643
KANGOO (phase II)	02/02	-	3732 (Provisional Technical Note)
MEGANE II	10/02	Workshop Repair Manual 364 / Workshop Repair Manual 366	-
SCENIC II	06/03	Workshop Repair Manual 370 / Workshop Repair Manual 372	-
VEL SATIS	02/02	Workshop Repair Manual 353 / Workshop Repair Manual 355	-
ESPACE IV	10/02	Workshop Repair Manual 361 / Workshop Repair Manual 363	-
MASTER (phase II)	06/03	-	3756
MASTER Propulsion (Mascott)	02/03	Workshop Repair Manual 356	-
SPECIAL NOTES	↓		
CODE CARD	no		
FAULT FINDING TOOL	yes		
IDENTIFICATION	-		
M E R A *	10 s		
RED WARNING LIGHT	yes		
MANUAL CODE	Fault finding tool		
PROGRAMMING	yes		
RESYNCHRONISING REMOTE CONTROLS	no		
MARKING	None		
TROUBLESHOOTING	↓		
PROCEDURE IN EVENT OF ENGINE IMMOBILISER SYSTEM FAILURE (card, card reader, electric steering column lock, UCH).	<p>The security code no longer exists but has been replaced by a repair code allocated to the vehicle for life during manufacture.</p> <p>This repair code is required in after-sales in order to:</p> <ul style="list-style-type: none"> ● adding or replacing RENAULT Cards or keys, ● deallocating one or more RENAULT Cards or keys, ● replace a UCH. 		

* Automatic start after switching the ignition off.

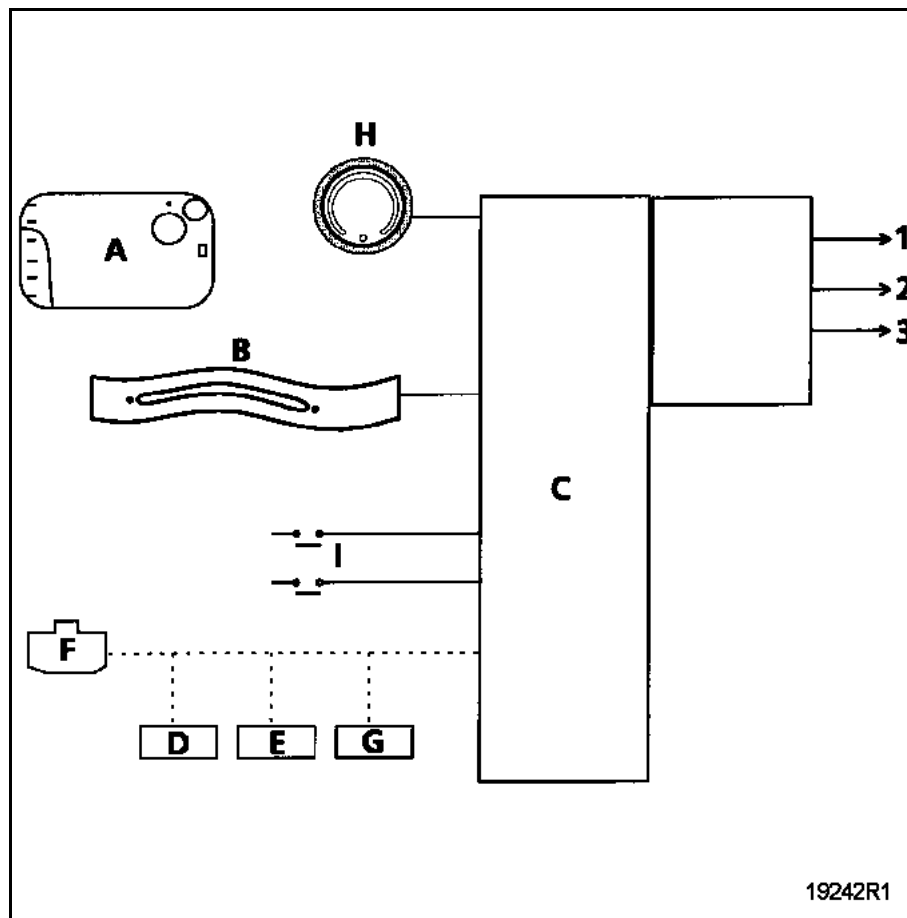
ENGINE IMMOBILISER

Summary table

82A

IMMOBILISER WITH KEY/CARD RECOGNITION SYSTEM (V3)

Example: LAGUNA II



- A RENAULT Card
- B RENAULT Card reader containing the engine immobiliser receiver
- C UCH and fuses and relays box
- D Red engine immobiliser warning light (instrument panel)
- E Injection computer (petrol or diesel)
- F Electric steering column lock
- G Diagnostic socket
- H Starter push pressure button
- I Clutch pedal and gearbox neutral position sensor

----- Multiplex connection
 — Wire connection

- 1 Position + accessories (servitude)
- 2 Position + after ignition
- 3 Starter motor supply

ENGINE IMMOBILISER

Summary table

82A

SUMMARY OF TECHNICAL NOTES

Number	Contents
1923	Infrared remote controlled engine immobiliser with alarm
1939	This note has been cancelled and replaced by Workshop Repair Manual 291 (Renault 21 discontinued)
1952	Infrared remote controlled engine immobiliser with alarm
2136	This note deals with special notes of Lagunas fitted with a coded solenoid valve
2171	This note has been cancelled and replaced by Workshop Repair Manual 293 (Renault 19 discontinued)
2197	This note contains information on special notes of the engine immobiliser system (unlocking of doors and starting authorisation controlled by infrared remote control)
2238	Engine immobiliser development, automatic start after 15 min
2300	This note contains information on special notes on the infrared remote controlled engine immobiliser with rolling code fitted on the Safrane
2320	This note has been cancelled and replaced by Workshop Repair Manual 293 (Renault 19 discontinued)
2324	This technical note contains information on the infrared remote control engine immobiliser system 1 st and 2 nd generations on the Laguna
2330	This note contains information on Twingo engine immobiliser systems <ul style="list-style-type: none"> – Infrared remote controlled engine immobiliser system – Coded KEY immobiliser system
2338	This note contains information on special notes on the infrared remote controlled engine immobiliser with rolling code which is being fitted to the Espace range
2376	The infrared remote controlled system with rolling code and the coded KEY engine immobiliser system are both fully explained in this note
2377	This note contains the fault finding charts for the infrared remote controlled engine immobiliser system with rolling code and the coded KEY recognition system fitted on the Twingo range
2378	This note has been cancelled and replaced by Workshop Repair Manual 293 (Renault 19 discontinued)
2379	This note contains the fault finding charts for the infrared remote controlled engine immobiliser system with rolling code fitted on the Safrane range
2407	This note contains information on the infrared remote control engine immobiliser system 1 st and 2 nd generations, plus fault finding
2463	This note completes Technical Note 2338A from March 1995. It contains the fault finding charts used for Espace owner customer complaints about engine starting faults, confirmed by the red engine immobiliser warning light located on the courtesy light console.
2474	This note contains information on the 2 nd generation Bosch pump diesel engine immobiliser system <ul style="list-style-type: none"> – Infrared remote controlled engine immobiliser system – Coded KEY immobiliser system
2489	Infrared remote control engine immobiliser rolling code 1 st generation for the Trafic

ENGINE IMMOBILISER

Summary table

82A

SUMMARY OF TECHNICAL NOTES

Number	Content
2497	This note contains information on the Bosch and Lucas petrol and diesel pump engine immobiliser systems for petrol and diesel engines
2507	This note is an erratum for note 2474 and Workshop Repair Manual 312
2517	This note deals with coded KEY immobiliser systems – 1 st generation – 2 nd generation
2547	This note deals with special notes on diesel Lucas injection pumps fitted with a coded solenoid valve
2568	Methods of replacing electronics casing and coded solenoid valve assemblies fitted to the Bosch and Lucas injection pumps
2572	Unreliable security code or resynchronising not possible
2624	This note contains special notes on 2 nd generation coded KEY immobiliser systems for the phase II Safrane
2725	This note has been cancelled and replaced by note 2958A
2728	This Technical Note is a rectification of note 2624A
2733	This note contains information on Mégane engine immobiliser system developments: withdrawal of security code entry button on vehicles with coded KEY immobiliser systems
2751	Bottom of the range Twingos can now be fitted with a new control bar with 12 indicator lights.
2754	This note deals with coded KEY and infrared remote control engine immobiliser systems fitted on the new Espace (JE0X)
2784	This note has been cancelled and replaced by note 2914A
2878	Development of single decoder unit: Safranés are being fitted with new decoder units which can operate with either infrared transmitters or remote control
2901	Removal and refitting method for the load potentiometer advance solenoid valve and new shielding of the Lucas injection pump (DPCN) coded solenoid valves
2910	In order to improve this function, all vehicles with Valéo remote control for door locking are now to be fitted with an infrared transmitter with continuous transmission.
2914	This note contains information on the development of decoder units on 1 st and 2 nd generation infrared remote controlled engine immobiliser systems with rolling code (V1 and V2))
2958	General methods for coded KEY and infrared remote control engine immobiliser systems and relevant fault finding procedures
2965	Modification of multi-timer unit on the Clio II
2990	Removal of solenoid valves on Bosch and Lucas diesel injection pumps

ENGINE IMMOBILISER

Summary table

82A

SUMMARY OF TECHNICAL NOTES

Number	Content
3018	Engine immobiliser fault finding erratum note
3028	Special notes on the BII unit (Espace JE0)
3089	Radio frequency remote control for Méganes sold in Japan
3156	CODED KEY engine immobiliser: the security code no longer exists but has been replaced by a repair code allocated to the vehicle for life during manufacture
3228	Radio frequency remote control and automatic door locking on Méganes
3243	This note contains information on special notes on radio frequency remote control fitted on vehicles sold in Japan (Clio II)
3248	Radio frequency remote control on the Clio II
3315	New procedure for issuing engine immobiliser and radio codes
3355	2 nd generation UCH and key head. The Mégane range is being fitted with new generation UCHs and key heads (internal development of the immobiliser function)
3361	Phase II Twingos will from now on be fitted with an electric central door locking when driving system and new dual-function key heads
3391	From now on, the Kangoo and Clio II will be fitted with a system for locking doors when driving. The engine immobiliser and radio frequency remote control functions stay the same
3429	Twingo radio frequency receiver integrated in the starter ring
3441	Special notes of the phase I' Espace (JE0X)
3464	Engine immobiliser integrated in UCH with CLIP fault finding tool (V14 update)
3474	Summary of engine immobiliser systems
3532	Fault finding of the multi-timer unit (Clio)
3546	Fault finding engine immobiliser (Twingo/Kangoo/Master/Mascott)
3560	Fault finding of the multi-timer unit (Clio) and decoder unit (Twingo/Kangoo/Master): programming procedures
3561	Run a fault finding test on the UCH (Clio)
3594	Run a fault finding test on the UCH (Twingo)
3623	Special notes on fault finding (Espace JE0)
3629	Special notes for multiplex vehicles (Kangoo)
3641	Fault finding on multiplex vehicles: engine immobiliser (Kangoo)
3643	Fault finding on multiplex vehicles: connection unit (Kangoo)
3668	Fault finding configurations and UCH programming (Megane)
3681	Special notes on Clio V6 phase II
3732	Electrical special notes on Kangoo phase II (provisional note)
3756	Master phase II Special Notes

ENGINE IMMOBILISER

Summary table

82A

Workshop Repair Manuals	Vehicle
291	Renault 21 discontinued
293	Renault 19 discontinued
307	Laguna
312	Mégane
315	Espace
323	Master
325	Kangoo
337	Clio II
339-341	Laguna II
342-344	Trafic II
345-347	Clio II phase II
348	Clio II fitted with L7X engine
350-352	Avantime
353-355	Vel Satis
356	Mascott
361-363	Espace IV
364-366	Mégane II
370-372	Scénic II