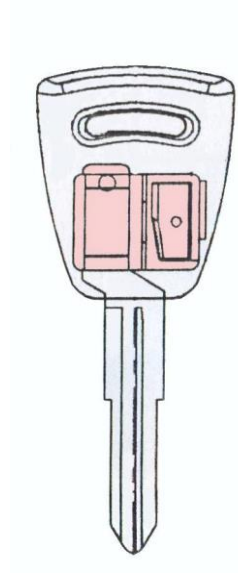
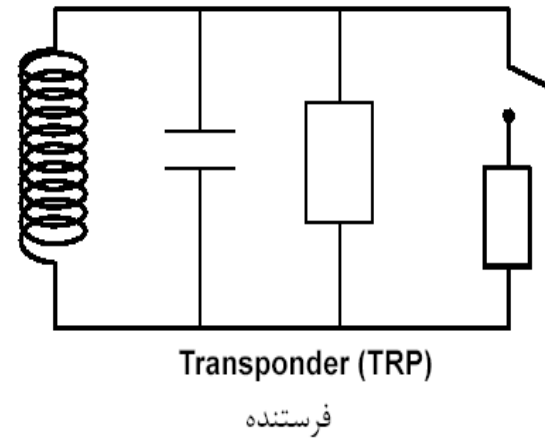
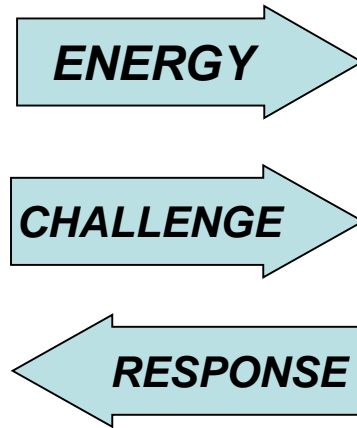
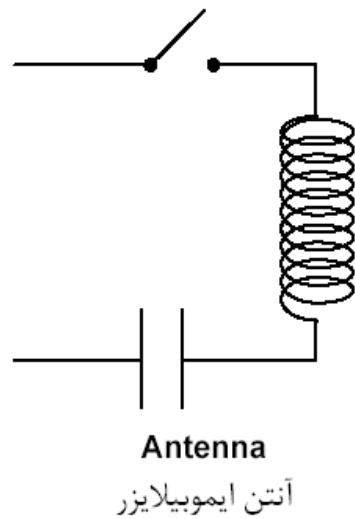


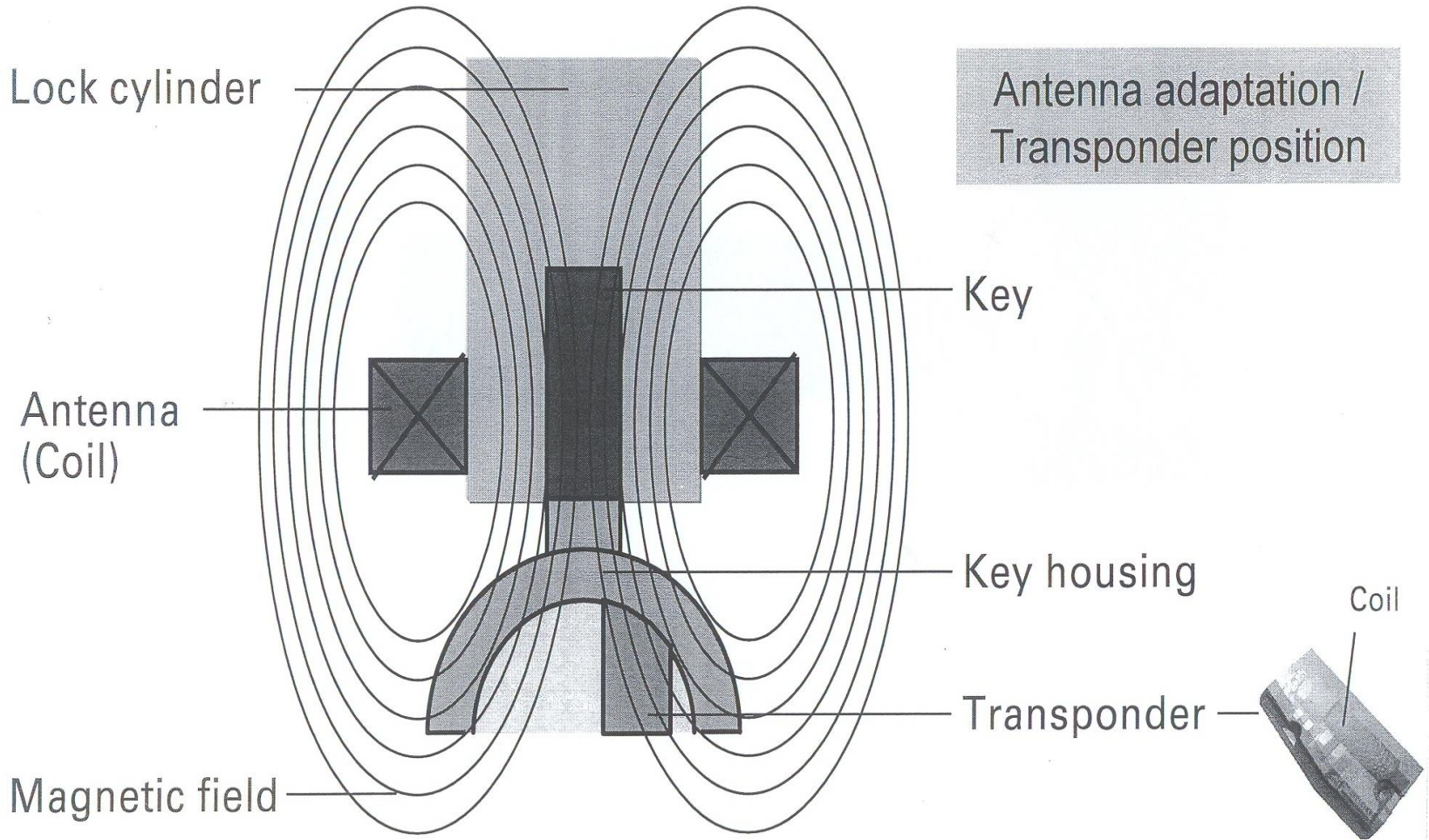
IMMOBILIZER

Pride

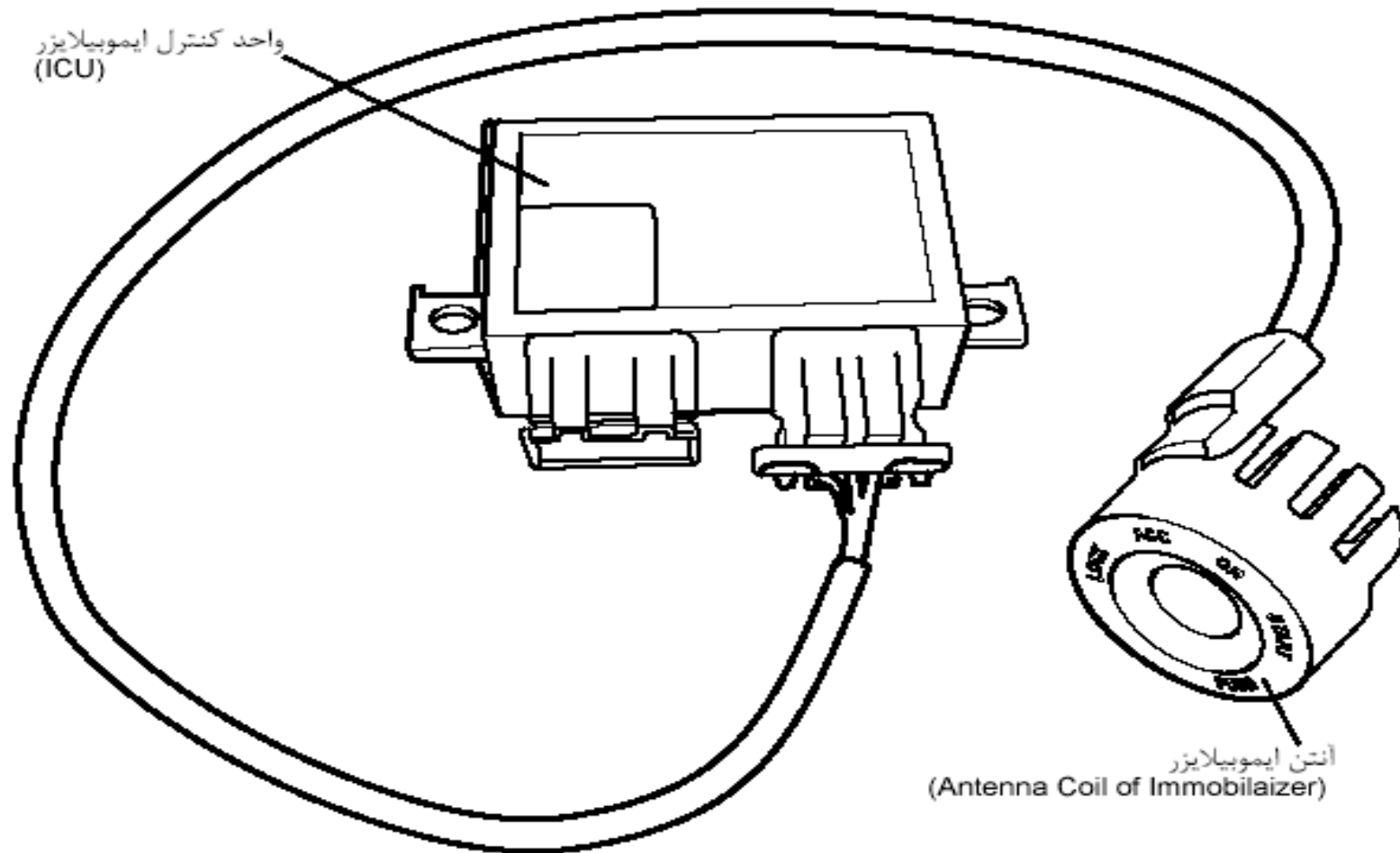
Operation Immobilizer System:



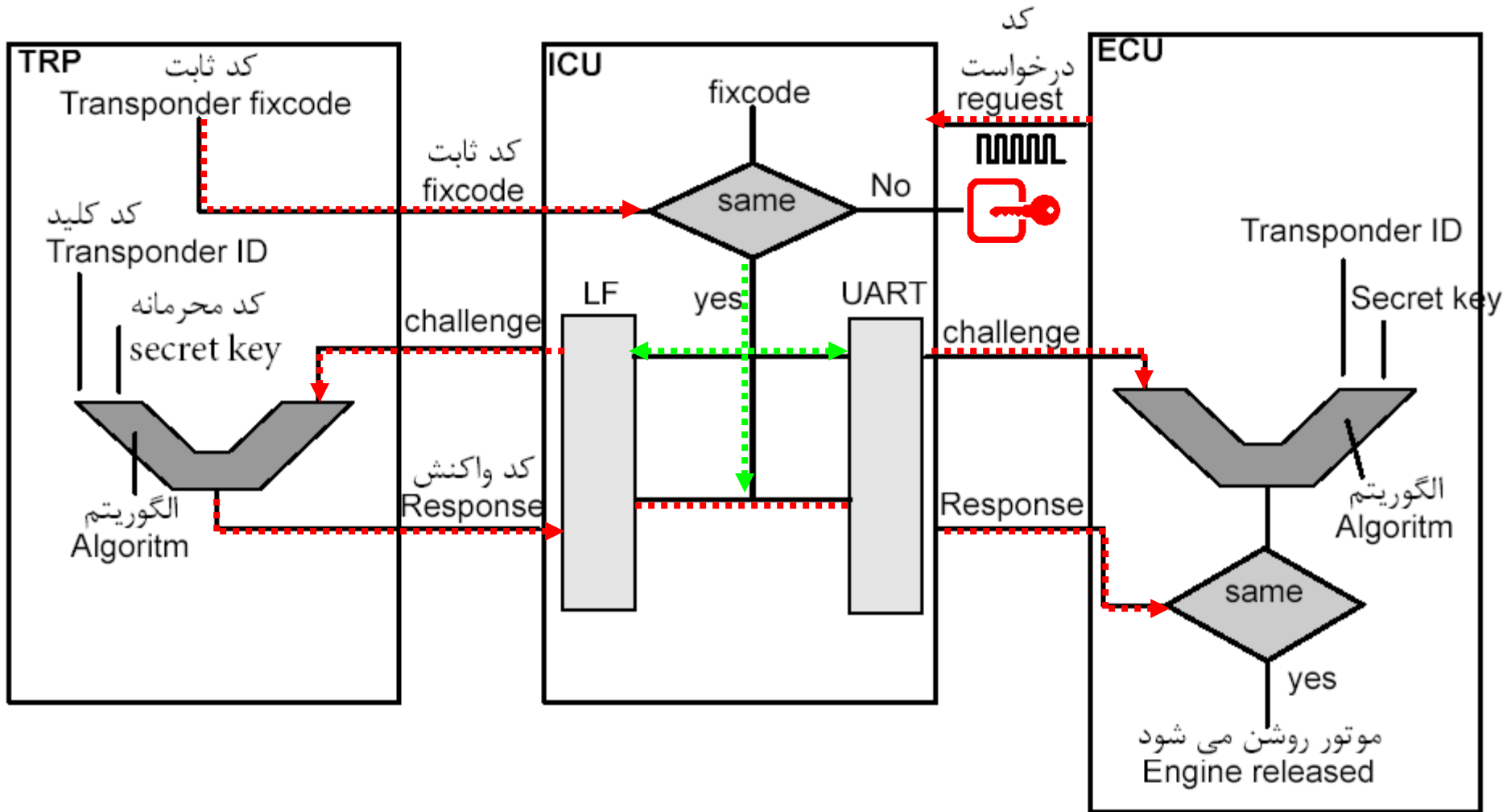
Operation Immobilizer System:



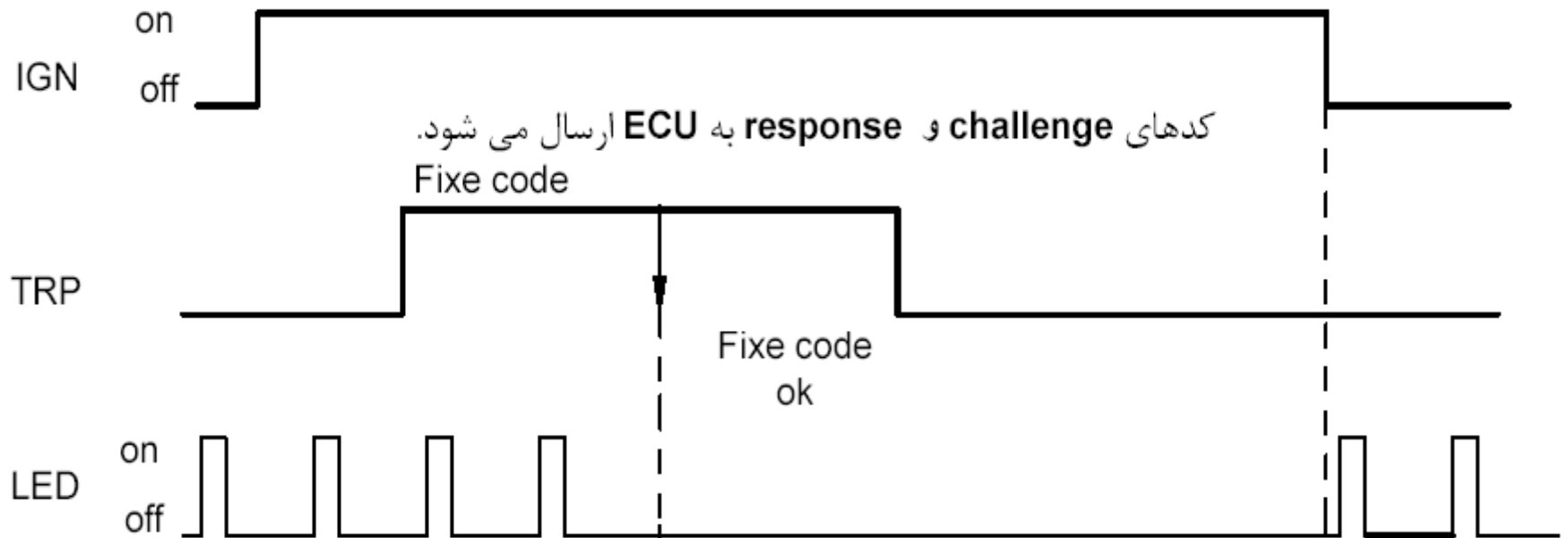
Operation Immobilizer System:



MAIN FUNCTIONS OF IMMOBILIZER



MAIN FUNCTIONS OF IMMOBILIZER



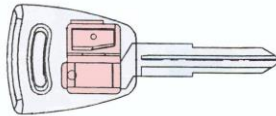


DIAG

ACCESS CODE

TRP

TRANSPONDER ID
TRANSPONDER FIX CODE
SECRET KEY



ICU

TRANSPONDER FIX CODE
SECRET KEY
ACCESS CODE



ECU

TRANSPONDER ID
SECRET KEY
ACCESS CODE

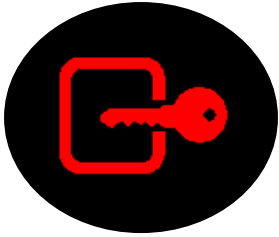


SECRET KEY کد
برروی TRP برنامه ریزی می شود.

FIX CODE کدهای
و ACCESS CODE
برروی ICU برنامه ریزی می شود.

SECRET KEY کد
بر اساس الگوریتمی در ICU تولید
و برروی قطعات دیگر برنامه ریزی
می شود.

TRANSPONDER ID کدهای
و ACCESS CODE
و SECRET KEY
برروی ECU برنامه ریزی می شود.



Introduce Immobilizer System



VALEO SYSTEM

SIEMENS VDO

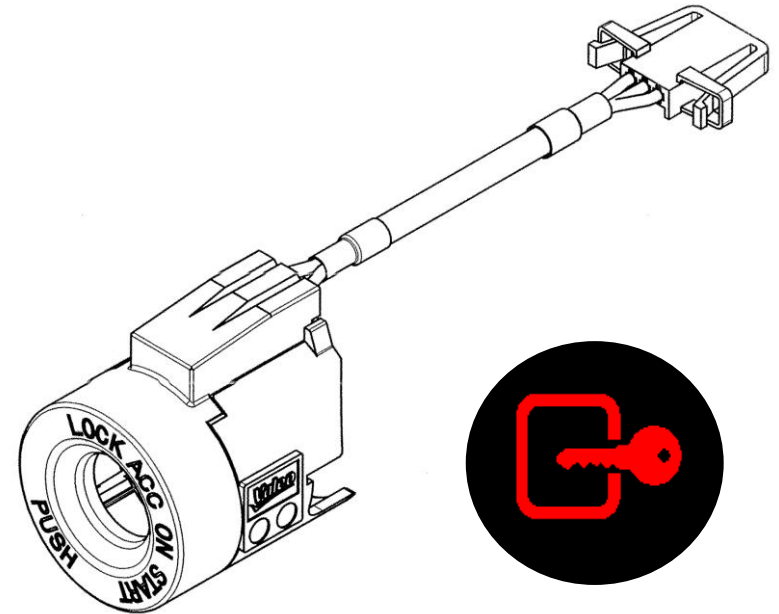
SIEMENS SYSTEM

NOTE:

GARANTY

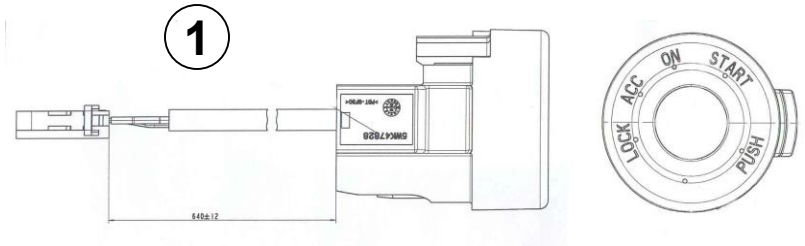
Component

- 1- ANTENNA COIL OF IMMOBILIZER
- 2- TRANSPONDER
- 3- IMMOBILIZER CONTROL UNIT (ICU)
- 4- ELECTRONIC CONTROL UNIT (ECU)
- 5- ACCESS CODE

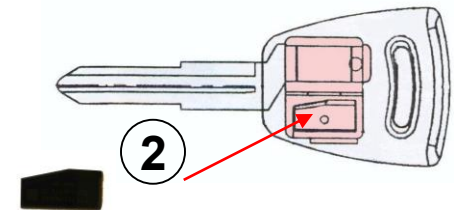


5

4

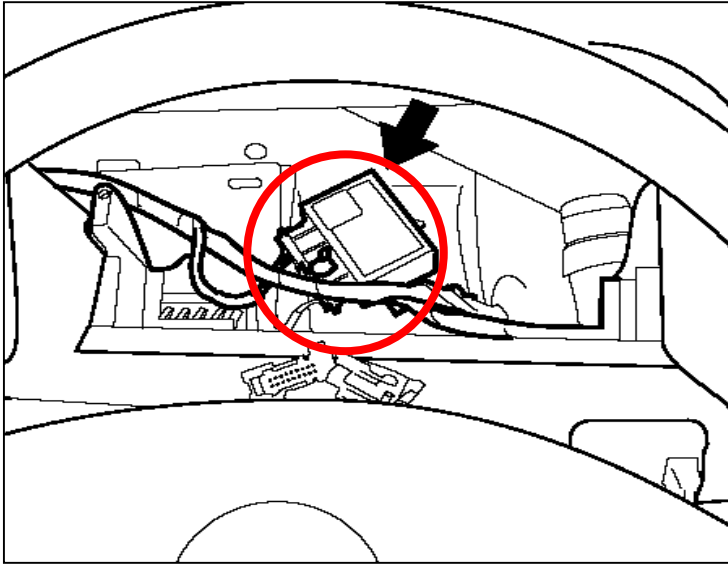


3

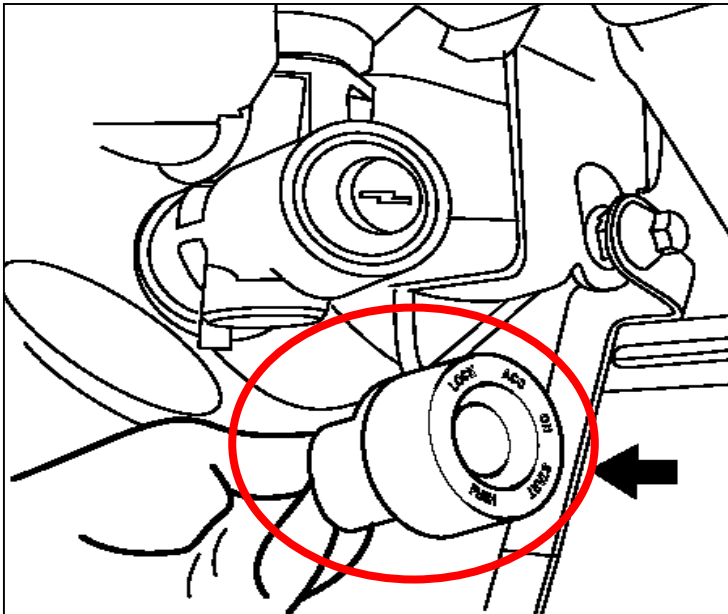


ELECTRONIC CHIP

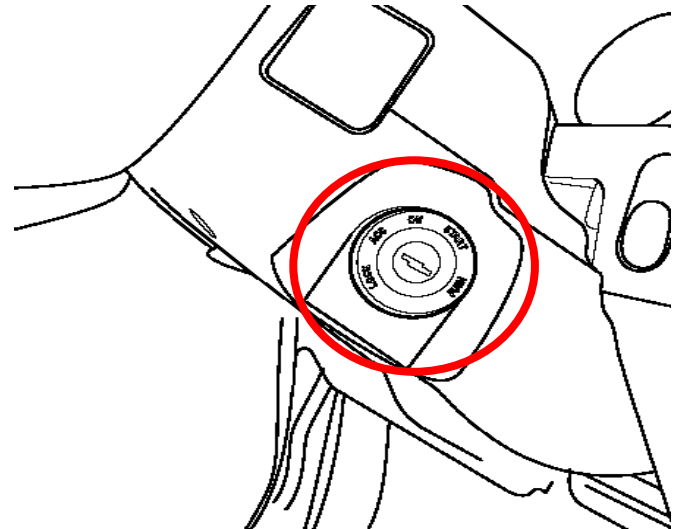




Position of The ICU In Pride

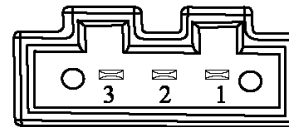
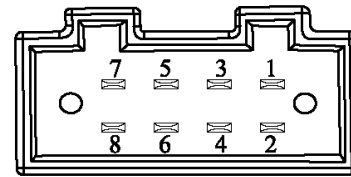


Position Of The Transponder in Pride





Spec. Connector Socket:



شماره پین ICU	توضیحات	به پین شماره
B1	مثبت باطری	---
B2	منفی GND	---
B3	منفی چراغ ایموبیلایزر	۲ کانکتور مشکی صفحه کیلومتر شمار
B4	(در حالت ACC)	B 29 (ECU)
B5	ECU (R- LINE)	A6 (ECU)
B6	---	---
B7	DIAG CONECTOR	پایه ۱۱ کانکتور عیب یاب
B8	ECU (W-LINE)	B56 (ECU)
A1	COIL OF ANTTENA	---
A2	COIL OF ANTTENA	---
A3	GND	---

IMMOBILIZER DTC :

B3060: UNPROGRAMED TRANSPONDER

B3061: DISTURBED OR NO CHALLENGE

B3055: NO TRANSPONDER MODULATOR

B3056: NO TRANSPONDER FIX CODE PROGRAMMED

B3057: NO SECURITY CODE PROGRAMMED

B3059: NO REQUEST FROM ECU RECEIVE

B3045: LED LINE CIRCUIT SHORT TO GND

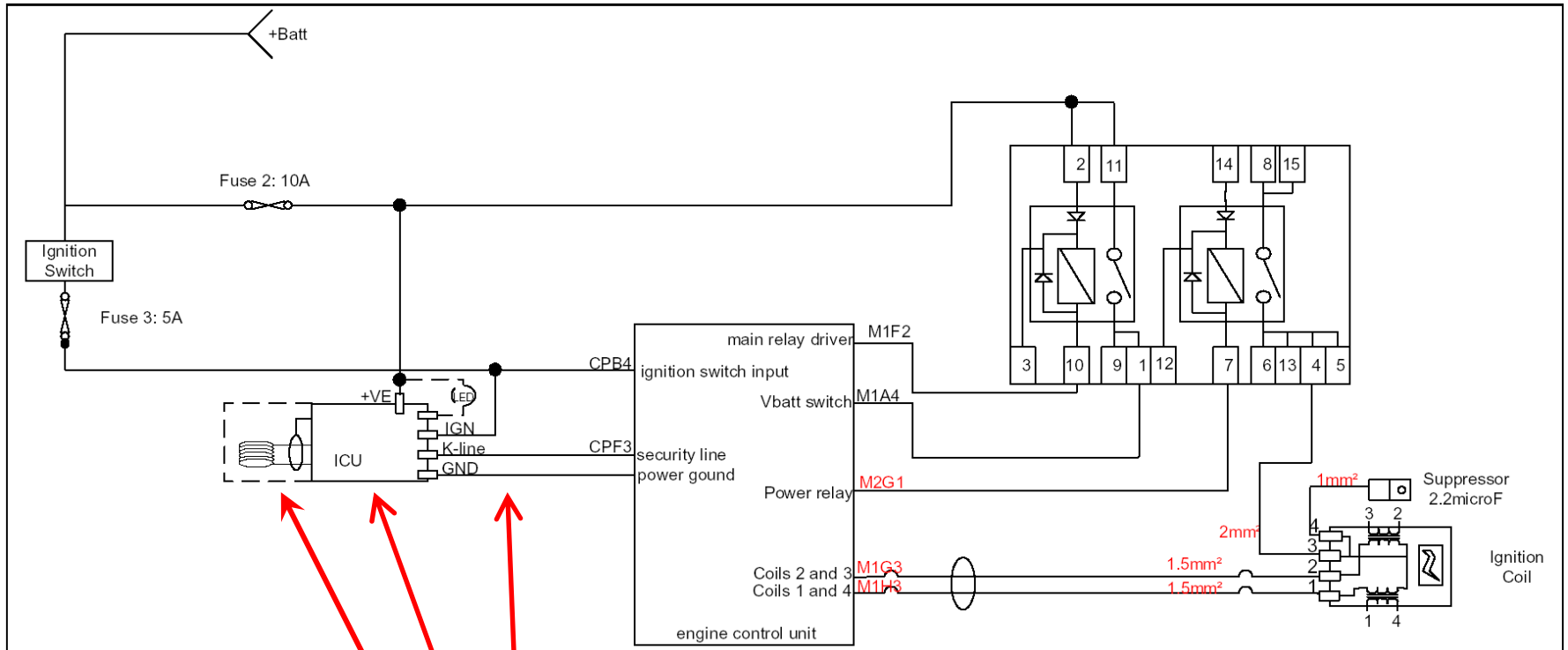
B3048: LED LINE SHORT CIRCUIT TO BATTERY

B3040: COMMUNICATION ERROR ON W-LINE , ECM DOESN'T ANSWER ON CHALLENGE / RESPONSE REQUESTS.

B3042: W-LINE SHORTE CIRCUIT TO GROUND

B3043: W-LINE SHORT CIRCUIT TO BATTERY

Electrical Circuit



DTC OF IMMO:

U0167 : ECU – ICU communication troubles

P1641 : Immobilizer Control Unit internal failure

P1640 : Antenna efficiency

WORKSHOPE

Working with Diagnostic Tools

SIEMENS VDO

<i>Number of Fault code entered</i>	<i>ECU Locked Time before enter right code</i>
<i>1</i>	<i>10S</i>
<i>2</i>	<i>10S</i>
<i>3</i>	<i>10MIN</i>
<i>4</i>	<i>20MIN</i>
<i>5</i>	<i>40MIN</i>
<i>6</i>	<i>80MIN</i>
<i>7</i>	<i>160MIN</i>
<i>8</i>	<i>320MIN</i>
<i>9</i>	<i>640MIN</i>
<i>10 or more</i>	<i>1280MIN</i>

**** If you entered wrong code to Immobilizer system, system is locked according the timetable.***

NO	ECU	ICU	TRP	EXPECT	DTC	NO	ECU	ICU	TRP	EXPECT	DTC		
1	LEARNT	LEARNT	LEARNT	ENGINE RUN		27	NEUTRAL	INVALID	LEARNT	ENGINE LOCK	P1656 P1661		
2			INVALID		28	INVALID							
3			VIRGIN		29	VIRGIN							
4			NOTP		30	NOTP							
5		INVALID	LEARNT		31	NONE			P1656 P1662				
6			INVALID		32	INVALID							
7			VIRGIN		33	VIRGIN							
8			NOTP		34	NOTP		ENGINE LOCK					
9		NONE		35	INVALID								
10		VIRGIN	INVALID		36	NEUTTRAL			VIRGIN				
11			VIRGIN		37	VIRGIN							
12			NOTP		38	NOTP							
13		NEUTTRAL	INVALID		39	INVALID			LEARNT		P1656 P1661		
14			VIRGIN		40				INVALID				
15			NOTP		41				NOTP				
16	VIRGIN	INVALID	LEARNT		42	NO IMMO ECU	VIRGIN		INVALID				
17			INVALID		43				VIRGIN				
18			VIRGIN		44				VIRGIN				
19			NOTP		45				NOTP				
20		NONE		46	NEUTTRAL		VIRGIN						
21		VIRGIN	INVALID		47		NOTP						
22			VIRGIN		48		NONE		ENGINE RUN				
23			NOTP		:LEARNT :NEUTRAL :VIRGIN :INVALID :NONE با هم همخوانی ندارند از سیستم جدا می باشد								
24		INVALID											
25		VIRGIN											
26	NOTP												

Learning in
SIMMENS
by Diagnostic Tools

Diag Menu.

F1 – DAEWOO.

F2 – Saipa Group.

F3 – Iran khodro Group.

F4 – Volkswagen.

F5 – NISSAN & RENAULT Group.

F6 – OBD Scan Tools.

F7 – HYUNDAI Diagnostic Program.

F8 – Conventional Engine Analyzer.

F9 – Exhaust Gas analyzer. (4Gas , 5 Gas)

F10– Connect To RAYAN KHODRO Via Modem.

F11 Upgrade Program.

F12– Restore Program Backup.

Shift F1 – User 's Manuals.

Shift F11 –Make Program Backup.

Shift F10 – Make a Report Floppy.

Shift F12 – Restart Windows XP

Diag Menu.

F1 – Pride Siemens & Johnson control.

F2 – CITROEN (Xantia) 1.8L & 2.0L

F3 – Rio (KIA)

Diag Menu.

Car Select Menu:

F1 - DIAGNOESTIC

F2 - Combustible Meter

F3 - Volt Meter + Live Scope

F4 - Resistor , Capacitor Meter

F6 - Instrument Self

F10 - Calibration

Select your choice:

Diag Menu.

Car Select Menu:

- F1 Pride (Siemens)
- F2 Pride (Jonson control)
- F3 Pride (New Siemens)**

Select your choice:

Diag Menu.

Online / Offline

- F1 Engine (Siemens , New ECU) (V 1.05)
- F2 Engine Immobilizer (Siemens)**
- F3 Review Restored Data

Select your choice:

Diag Menu.

Main Menu

- F1 - Computer Identification
- F2 - Parameter Measurement
- F3 - Fault Codes
- F4 - Fault Codes Clear
- F5 - Key Learning

Select your choice:

Diag Menu.

Main Menu

- F1 - Computer Identification
- F2 - Parameter Measurement
- F3 - Fault Codes
- F4 - Fault Codes Clear
- F5 - Key Learning

Do you want to save information in file (for future)? ([Y]=Yes)

Select your choice:

Diag Menu.

Main Menu

- F1 - Computer Identification
- F2 - Parameter Measurement
- F3 - Fault Codes
- F4 - Fault Codes Clear
- F5 - Key Learning**

Select your choice:

Diag Menu.

Key Learning

Required Card Number:

Select your choice:

Diag Menu.

Key Learning

IG KEY : ON
TRANSPONDER : DETECTED
CUSTOMIZED TRANSPONDER : DETECTED
KEYPTO TRANSPONDER : DETECTED

CONDITION : OK
PRESS ANY KEY . . .

Select your choice:

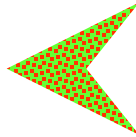
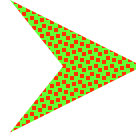
WORKSHOPE

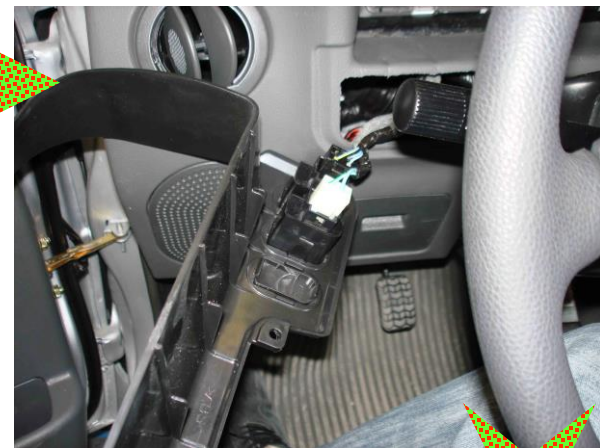
Removing and Refitting of **SIMENSE** ***Immobilizer System***

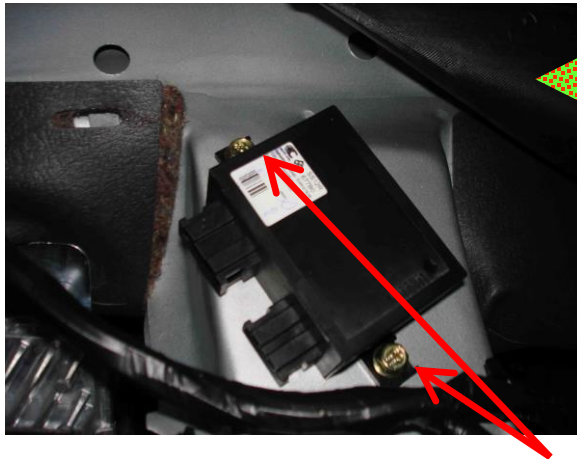
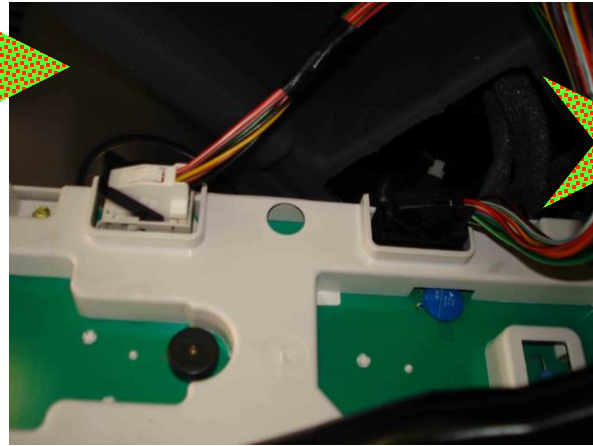


*Removing
the
ICU
Internal computer unit*

SIEMENS VDO



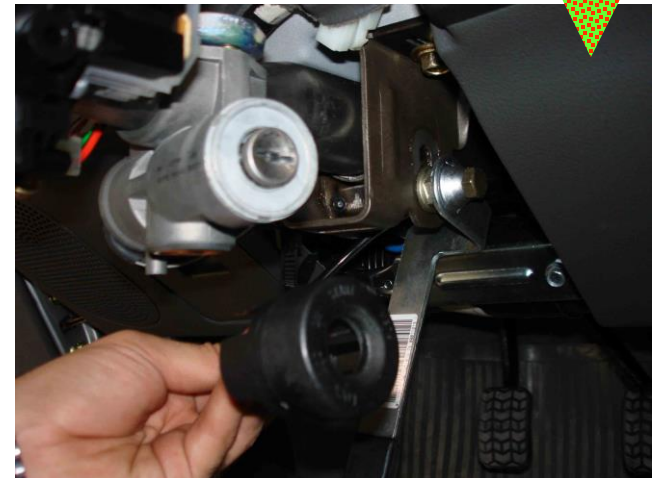




Removing the Transponder

SIEMENS VDO





*Removing
the
ENGINE ECU*



