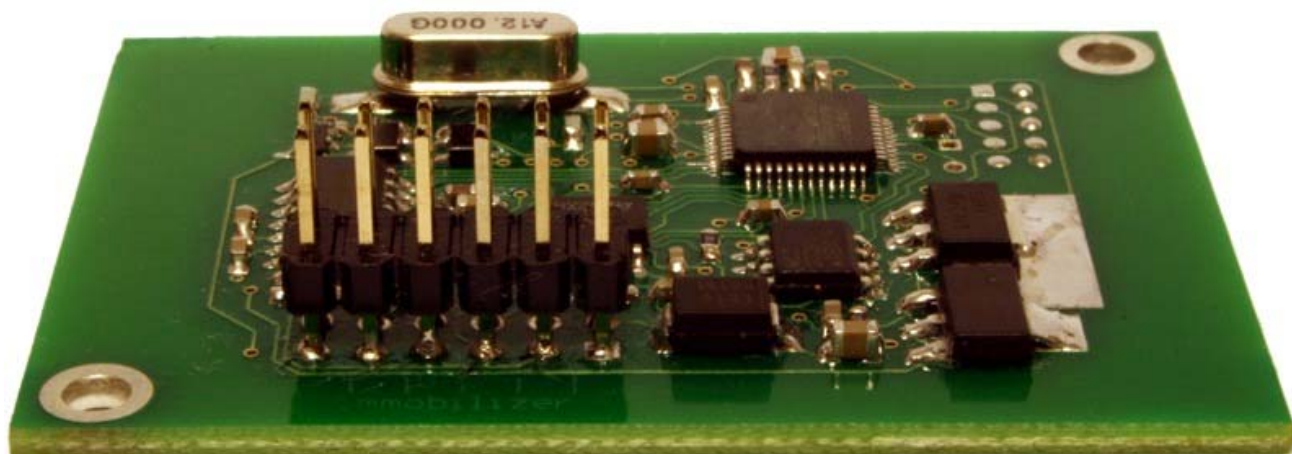


# **Universal IMMO VAG immobilizer/emulator**

User's manual



# Introduction

From year 1995 in Audi-VW (VAG) cars is used engine immobilizer. The VAG group immobilizer system consists of an immobilizer ECU which controls the recognition of keys and the Engine Management ECU system. Immobilizer is activated when the ignition key is removed and, together with the engine control unit, largely prevents unauthorized starting of the engine. The system uses a transmitter and receiver unit in the ignition key (transponder). Whenever an attempt is made to start the engine, it transmits a new code to the car's electronics. The immobilizing is only cancelled and car motor electronic receives permission to start engine if the key sends a right authorization code.

The Immo emulator-immobilizer can successfully be used in cases as:

- Missing keys (with transponder, infrared transmitter);
- Electronic defect in the Immobilizer unit – because of an electrical or logical defect (as a result of sparking, dampness, change of the ECU), electronic or mechanical defect in the transponder(s), etc.
- Changing motor of the car

## VAG immobilizer types and description

VAG to year 2004 use 3 immobilizer types named IMMO1, IMMO2 and IMMO3.

Our module can emulate IMMO1 and IMMO2

models supported:

A4/S4/Avant 1995-1999

A6/S6/Avant 1995-1997

A8/S8/Avant 1994-1999

Emulator can be used in other vw-audi-seat-skoda models to disable immo function

VW Golf III to year 2000

Passat B4-B5 to year 2000

Sharan 1996 - 2001

T4,T5 to year 2000

all Seat and Skoda models up to year 2001

**Our device is fully compatible to original IMMO**

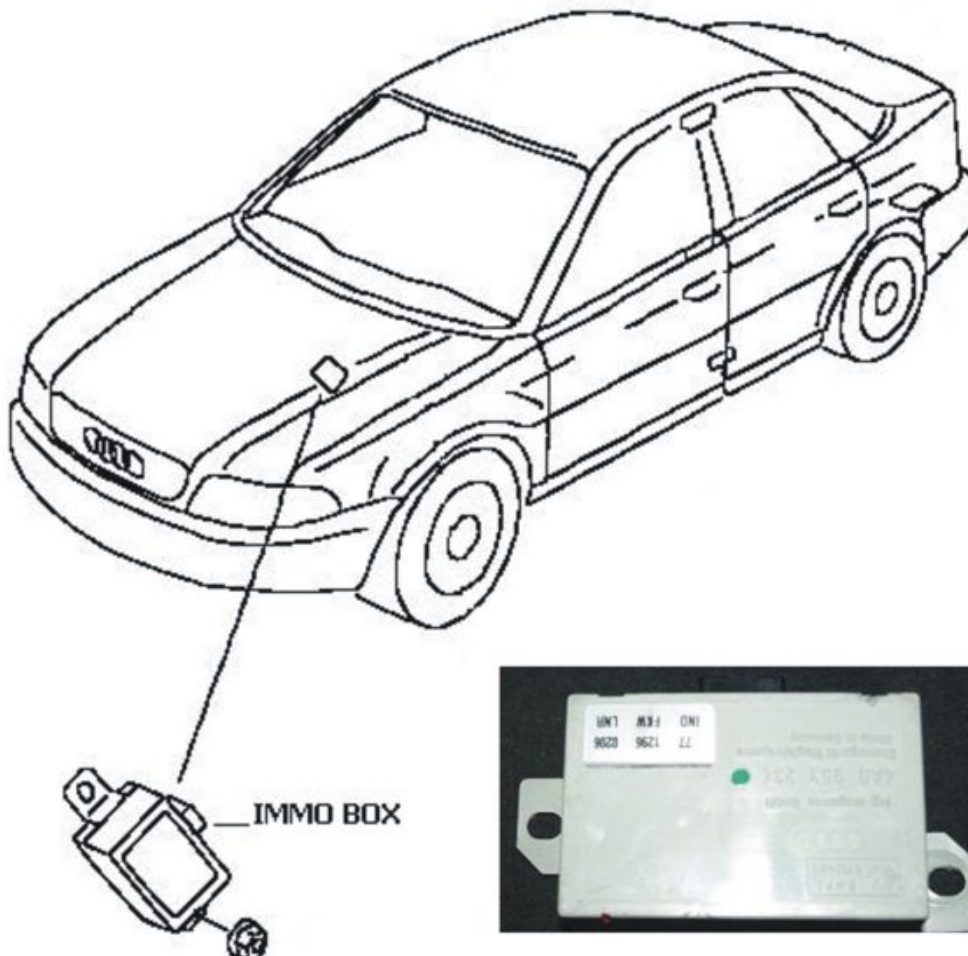
**It can work like original immobilizer with transponder or like IMMO emulator with any key.**

1. Key identifies function
2. VAG diagnostic protocol kwp1281 support
3. Engine blocking if key not valid inserted

Original IMMO Box (Anti-Theft) must be replaced if Car`s engine starts and stops immediately. After engine is stop you should see IMMO warning lamp flashing on dash panel insert



This warning lamp indicates that engine is blocked by immobilizer and engine start sequence must be repeat again if you have this problem time at time is better to replace your original IMMO BOX by our Emulator to solve this problem you can install emulator to car yourself and there is no need any special tools or skills





After emulator is installed to car switch ignition on/off with all valid keys you have keys will be programmed in automatically

### **Installation instructions:**

Installation of the immo emulator-immobilizer is quick and easy procedure.

It is several ways to install it:

1. Models with immo box. To install the device you need to either remove the original immo box, or embed the immo emulator into it, for which you need to disconnect the data link between the ECU and the original immobilizer. For cars with separated immobilizer box, short W and K lines and remove immobilizer box.
2. For cars with dashboard immobilizer. For models without immo box you need to disconnect the data link between the ECU and the Dashboard, or it is also possible to place immo emulator in (or rear of) the Dashboard or in the ECU. For cars with dashboard immobilizer,



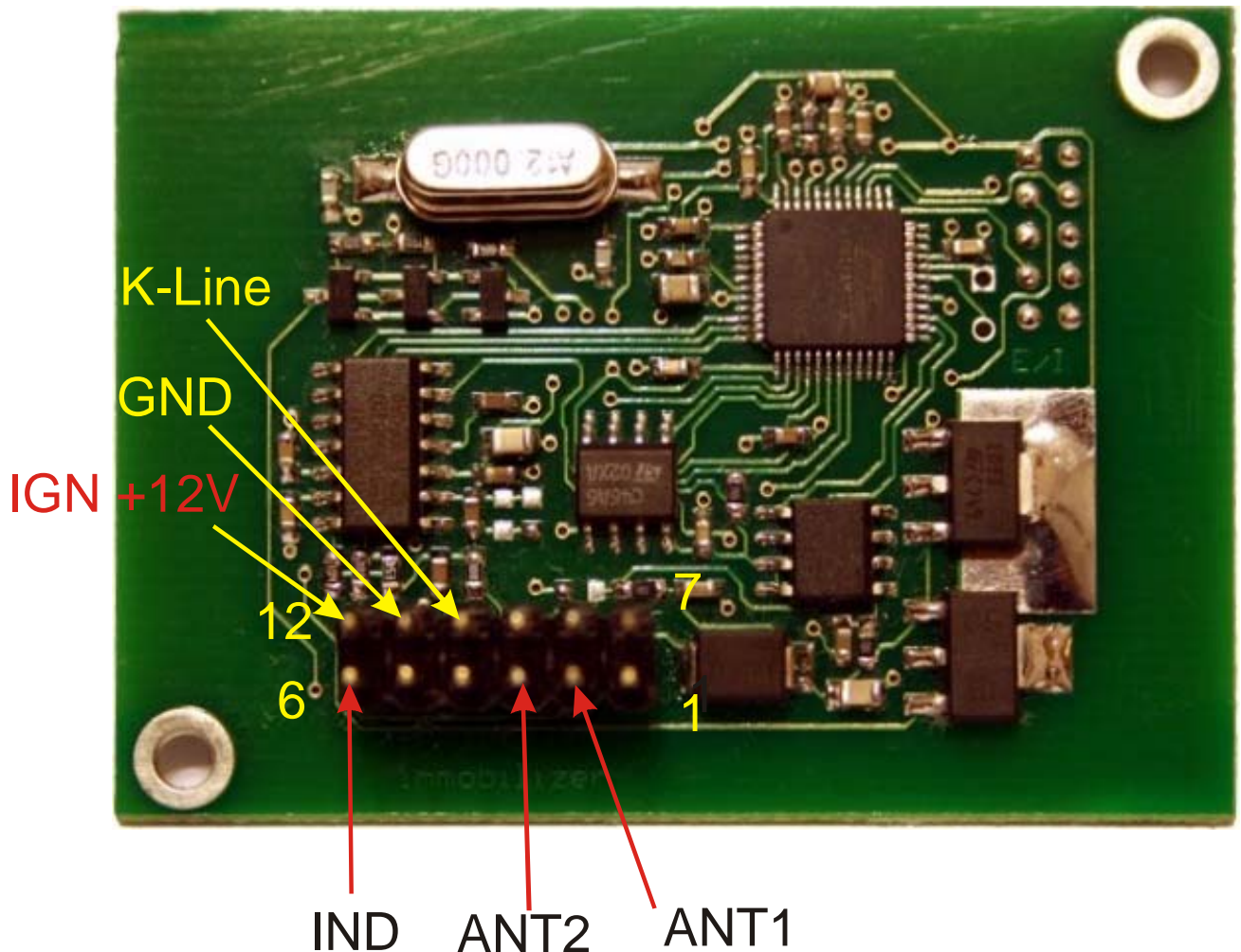
cut W line from dashboard. The disconnected data line has to be connected to immo emulator. Connect Power. Following steps for example VW B5, Golf IV, Beate, Audi A2, A3, A4, A6, TT:

- Remove Dashboard.
- Find Green and Blue Connectors on it
- Pinouts:
 

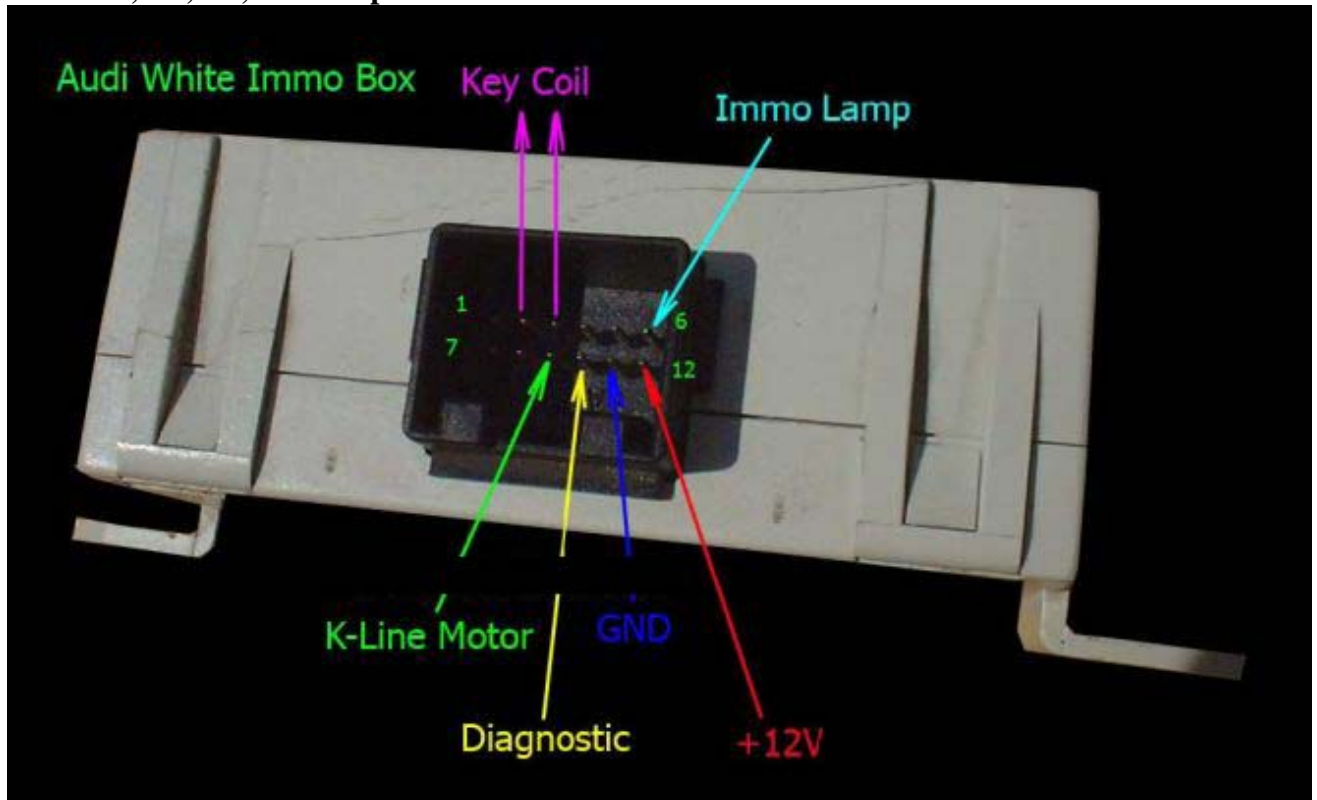
GND	- Dashboard Blue connector	pin 24
K	- Dashboard Blue connector	pin 25
W (Kline)	- Dashboard Green connector	pin 5
IGN +12V	- Dashboard Blue connector	pin 1
- Cut W line (Dashboard Green connector pin 5)
- Connect IMMO emulator-immobilizer:
 

IMMO black	- GND
IMMO red	- IGN +12V
IMMO green	- (Kline) W (W line signal to computer)

### Pinouts and diagrams:



## Audi 100, A6, A4, A8 box pinout:

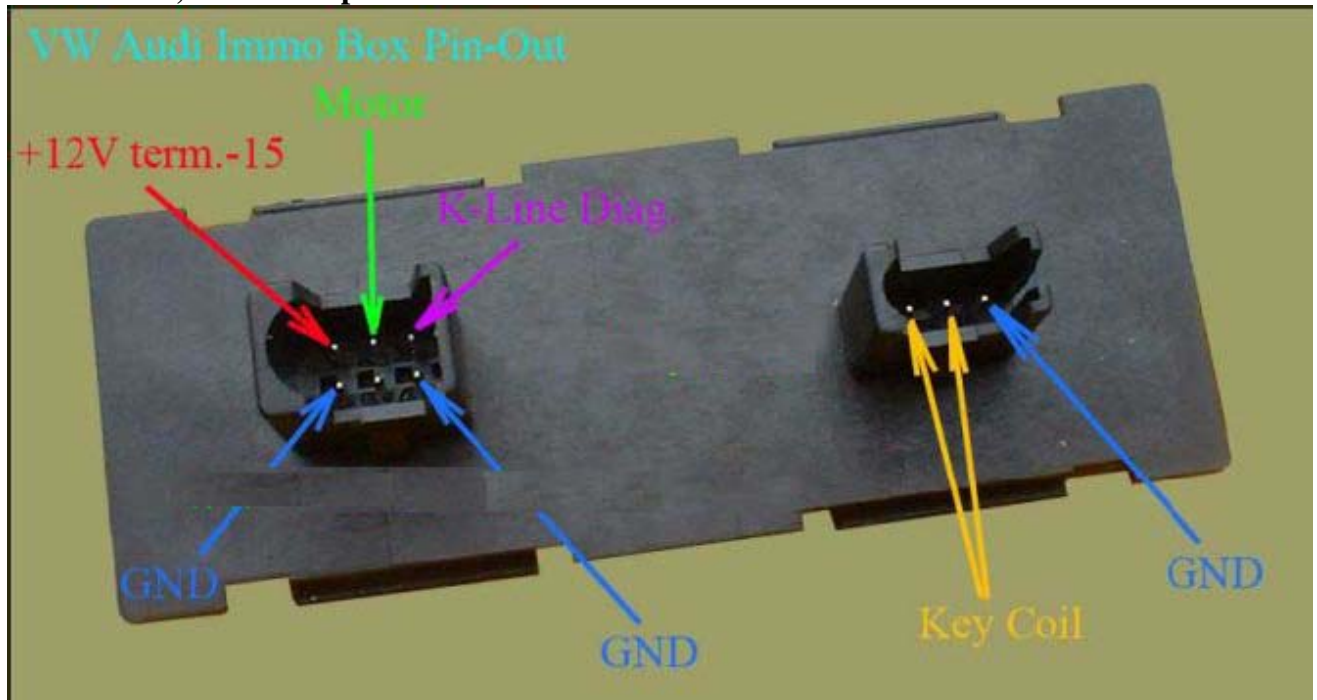


XS2	
JUNGTIS_IMMO	
1	
2	ANT1
3	ANT2
4	
5	
6	IND
7	
8	
9	
10	K-LINE
11	GND
12	IGN +12V

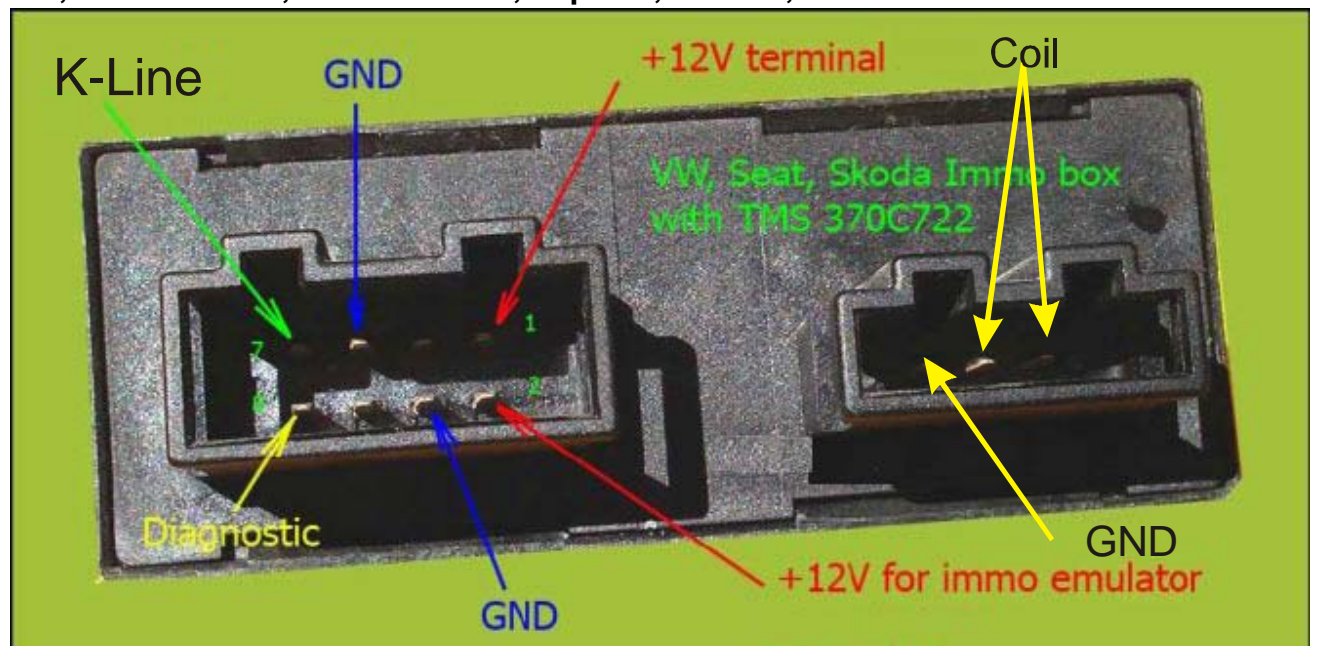
## VW B5, Golf IV, Beate, Audi A2, A3, A4, A6, TT dashboard pinouts:

GND - Dashboard Blue connector pin 24  
 K - Dashboard Blue connector pin 25  
 W (Kline) - Dashboard Green connector pin 5  
 IGN +12V - Dashboard Blue connector pin 1

**VW Golf III, Passat B4 pinuots:**



**VW, Seat & Skoda, VW Sharan 98, Lupo 98, Polo 98, T4:**



BAT +12	pin1
IGN +12V	pin2
GND	pin4
GND	pin5
LA	pin6
K-Line	pin7
Diagnostic (W)	pin8

VW LT 35 pinuots:

GND	pin 1
BAT +12V	pin 3
K-Line	pin 6
IGN	pin 7
W	pin 8