

PGF 7941 Reset Extended

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I. Introduction

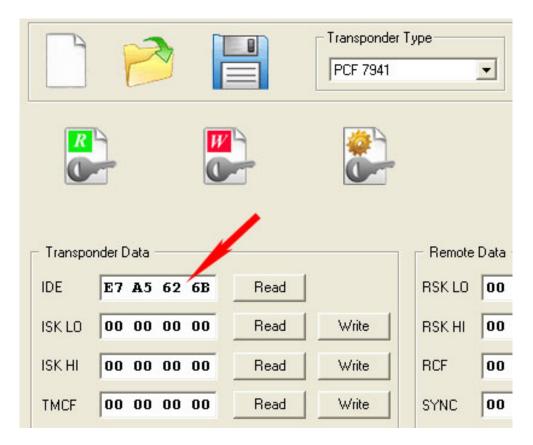
This ImmoHPX module for Orange-5 (O5) programmer is intended to restore factory settings in transponders PCF7941 used in several types of remote keys. The used remote keys are locked with unknown password and are useless for the further using. The module restores the default password and a key can be used as a new one.

The transponder functions (to start engine) are the same on all brands, thus it is possible to restore it on any PCF7941 of any brand.

The module provides two functions: RESET and Write ID.

The **RESET** function restores default settings.

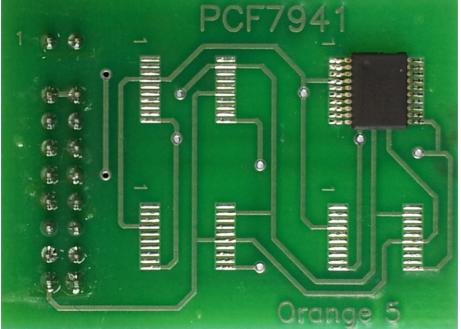
The Write ID function allows to change the serial number of a transponder that is the Page0 :



The special adapter "PCF7941" should be used. The layout of the adapter provides the four soldering places, using only one slot at a time, this allows using of the adapter for a long time.

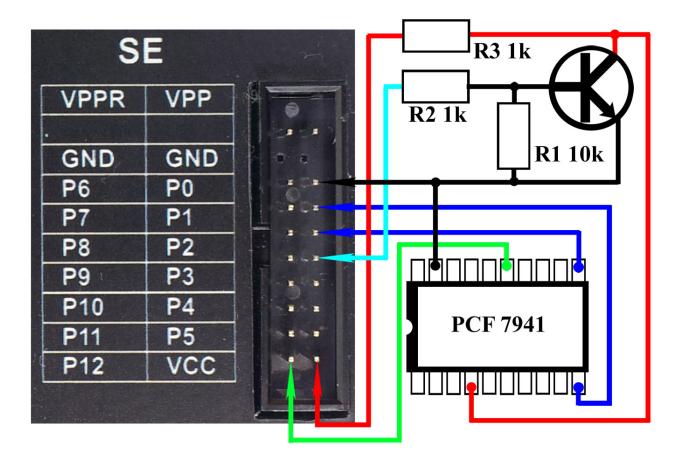
II. Adapter and Pin out





In case of missing the adapter it is possible to make connections manually according to the following scheme:

3



III. RESET

This feature resets PCF7941 and stores several different types of remote functions. It means that it is possible to make compatible transponder from any PCF7941.

- 1. Click "Select Type" and choose "3-O5 immo".
- 2. The left window: "PCF"
- 3. The right window: "PCF7941v2 Reset "

Select Type		×
View Groups	Configuration 3-05 ImmoHPLv10	•
Group [38]	Chip [2]	
MC68HC705X32 EPROM SsangYong PCF Alfa Romeo Audi BMW Chevrolet Chery Chrysler Citroen DAF Dodge Fiat	PCF7941 Reset PCF7941∨2 Reset	4612x8 4612x8
	ОК	Cancel

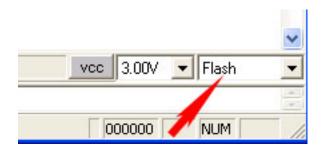
4. Click "File Open" and load appropriate type *.bin file. Files can be found at ...orange5/HPL/O5IMMO/PCF7941 Reset Files/...

Example Land Rover Discovery 3:

Open			? 🗙
Look in: 🔎	PCF7941 Reset Files	• • •	.
Chrysler Citroen Land Rove	er		
File name:	[Open
Files of type:	All Supported Files	•	Cancel
	Cpen as read-only		/

Open			? 🗙
Look in: 🔎	Land Rover	💌 🗢 🖻 📑 🔳	•
Discovery) Vogue1.bi			
E Voguer.Di			
File name:	Discovery3.bin		Open
Files of type:	All Supported Files	•	Cancel
	C Open as read-only		

5. Ensure the "FLASH" area selected in the right bottom corner:



6. Click "RESET" button:

🕶 Disc	ove	ery	3.1	oin	- (Ora	ng	e5											
File Buf	ffer	De	/ice	То	ols	Op	tions	6 T	ype	Re	cent	tН	lelp						
🗅 📂			3	B						ð	ŧŧŧ	.	1]				RESET Write ID
	00	01	02	03	04	05	06	07	08	09	0A	0B	00	OD	0E	0F	0123456789ABCDEF		^
00000	F4	B9	51	8F	10	68	3E	19	0A	26	23	E2	A2	90	39	59	Ф№QŲ.h>&#вўђ9Ү</td><td></td><td></td></tr><tr><td>00010</td><td>10</td><td>0A</td><td>39</td><td>0A</td><td>18</td><td>35</td><td>2B</td><td>0B</td><td>30</td><td>24</td><td>ΘA</td><td>22</td><td>8B</td><td>2B</td><td>B9</td><td>2E</td><td>95+.0\$."<+№.</td><td></td><td></td></tr><tr><td>00020</td><td>0F</td><td>74</td><td>FE</td><td>AO</td><td>6B</td><td>9E</td><td>24</td><td>02</td><td>1B</td><td>28</td><td>28</td><td>2B</td><td>80</td><td>02</td><td>4E</td><td>22</td><td>.tю kħ\$((+Ђ.N"</td><td>-</td><td>_</td></tr><tr><td>00020</td><td>DE</td><td>CP</td><td>91</td><td>00</td><td>20</td><td>00</td><td>24</td><td>22</td><td>91</td><td>25</td><td>22</td><td>02</td><td>22</td><td>FF</td><td>22</td><td>62</td><td>ak' Q H"'INC "with</td><td></td><td></td></tr></tbody></table>		

After RESET finishes the PCF7941 has status of a new unused transponder and may be used for programming to a car. The default crypto key is 4D494B52 : 4F4E.

IV. Write ID

This feature is not compatible for using on implemented types of keys. Random or different value than required by particular type of vehicle causes remote functions failure. The feature may be applied to any locked PCF7941. It restores default settings and changes the page0 of a transponder.

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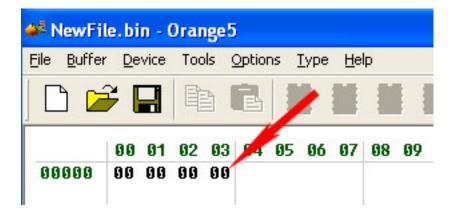
- 1. Click "Select Type" and choose "3-O5 immo".
- 2. The left window: "PCF"
- 3. The right window: "PCF7941 Reset"

Select T	ype					
Groups	•	Configurati	on 3.05	Immo		•
Group	[27]		Chip	[1]		
PCF Alfa Ron Audi BMW Chery Chrysler Citroen Dodge Fiat Ford Gilera Honda Jeep	neo		PCF794	l Reset		4612x8
					OK	Cancel

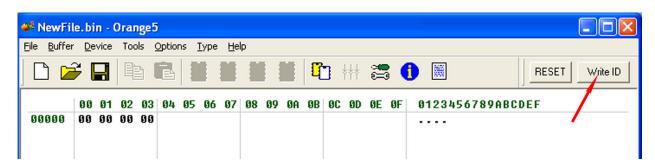
4. Ensure the "ID" area selected in the right bottom corner:

VCC 3.00V 💌 ID	-
	-
000003 🖊 NUM	- //

5. Type necessary value of ID (4 bytes):



6. Click "Write ID" button:



*Note

There is a standard that requires certain value at the LSB of ID depending of the transponder type. The PCF7941 is marked with value "6" in the high nibble of LSB of ID, for example A4 8B C0 6B. The module can write any values, but it should be taken into account that some immobilizers check this value.

V. Supported Types

Chrysler 1. Bladed 315MHz ASK





2. FOBIK 434MHz ASK



Citroen 1. DS4 433Mhz



Land Rover 1. Land Rover Discovery 3, Range Rover Sport 433.92MHz



2. Vogue 433.92MHz



Smart 1. Smart 315MHz FSK

