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Software scanner for Ford, Mazda, Lincoln, Mercury vehicles

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How to check blank PATS key

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How to check blank PATS key

📄 by **FORScan** » Sat Jul 18, 2015 2:43 am

This is a complementory article, so please read the base one first:

http://forscan.org/forum/viewtopic.php?f=6&t=83

A lot of complaints to PATS programming function are related to incorrect blank keys used (not working or not compatible transponder). This article describes how to check a blank key using FORScan.

0. Insert the blank key in the ignition lock.

1. Detect the module that contains PATS. It is easy: go to Service tab and look what module contains PATS programming function. Depending on the vehicle, it may be PCM, PATS, IC, HEC etc.

FORScan
Site Admin

Posts: 2748
Joined: Fri Jun 13, 2014 2:21 am
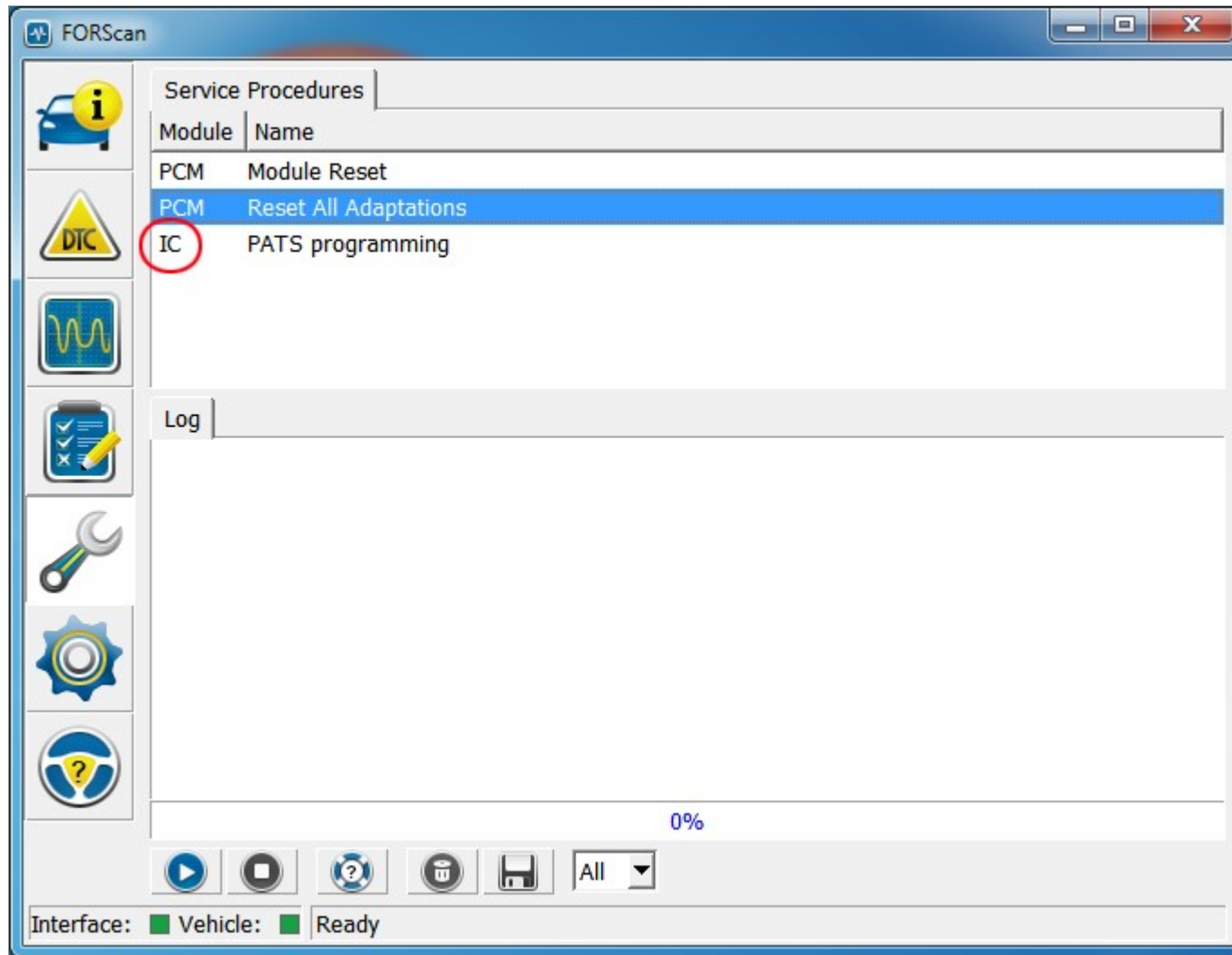
PATS_module_en.png (58.28 KiB) Viewed 100449 times

2. Read DTC. For newer vehicles with CAN bus ((Focus Mk2...) it is OK to just read DTC for PATS module in Errors section. For older vehicles (Focus Mk1, Mondeo Mk3...) running the PATS module self-test in Tests section may be necessary

3. Analyze returned DTC codes:

3.1. If the test returns B1601 code (B10D7:51 for new PATS), it means the blank key is OK and can be programmed for this vehicle.

3.2. If the test returns B1600 code(B10D7:87 for new PATS), it means the blank key is not recognized by PATS and can

NOT be programmed for this vehicle.

3.3. If the test returns B1602 code (sometimes simulatenously with B1600, B1601) (B10D7:8F for new PATS), it means PATS is unable to stably read the key transponder. That's possible with clones. You may try to shift the transponder to another place of the key fob. If it doesn't help, it may be good idea to replace the transponder. Programming such keys in FORScan v2.2.8 and older may look successful (FORScan says key programmed successfully), but in fact the key is not added to the PATS memory (key counter is not increased) and Errors section may display code like B2431 - Transponder Programming Failed.

3.4. If the test returns another code (non of B1601...B1602, but related to PATS), it is recommended to contact support.

3.5. If test executed successfully, but no any of B1600, B1601 codes are returned, it means the key is programmed for this PCM already.

Note 2017-01-03: users' experience says that B1601 code is not a guarantee of a flawless work. We already have several complaints (all for domestic market cars) when high quality but non-OEM keys produced B1601 code but cannot be programmed. In all cases replacing non-OEM key with OEM one fixed the issue. So please: (i) ask seller for money back warranty in case of non-working key and (II) do not use Erase Keys function until you are sure the new key can be successfully programmed (remember, engine will not start in case of PATS memory has less than 2 learned keys).

Note 2017-10-31: New PATS have other codes:
B10D7:51 instead of B1601 (PATS key is read OK but not added to the PATS memory yet)
B10D7:87 instead of B1600 (blank key is not recognized by PATS)
B10D7:8F instead of B1602 (PATS is unable to stably read the key transponder)

Re: How to check blank PATS key
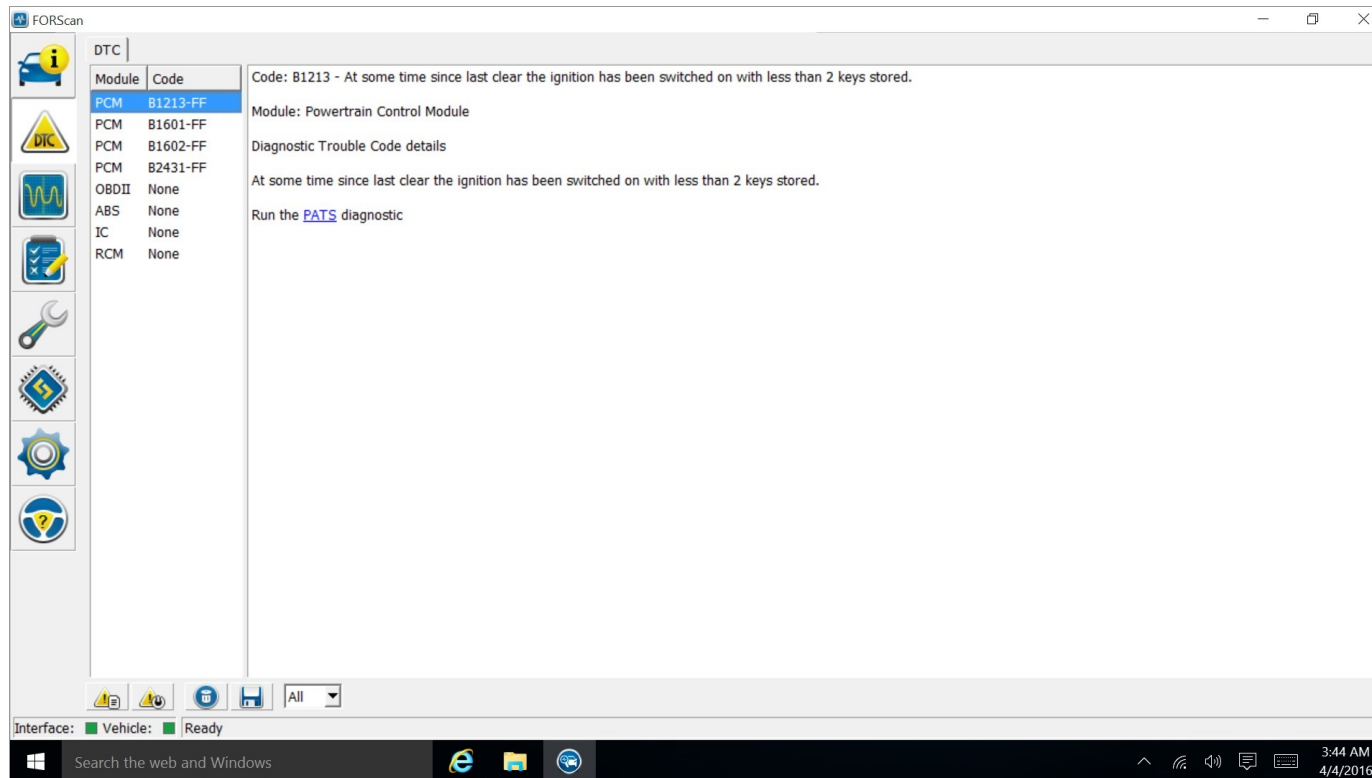
by **mustnged** » Mon Apr 04, 2016 10:50 am

mustnged

Posts: 2
Joined: Sat Apr 02, 2016 8:32 pm
Vehicle: 2004 Ford Explorer 4.6 v8

forscan.jpg (188.97 KiB) Viewed 94642 times

please help me. I had two working keys, decided to experiment with the Forscan Pats programming feature, now none of my keys are working
I only had one original key. I bought two blanks off ebay

http://www.ebay.com/itm/171866085789?_t ... EBIDX%3AIT

Forscan is not returning the B1600 so I'm assuming these ebay keys work. My original key is stamped ""S" but the new keys are 'SA'. I understand S is 40 bit, SA is 80 bit but supposed to be backward compatible. But when I try to program it, the forscan software says the counter did not increase from 1 programmed key to 2 programmed keys. The original key programs successfully. What do I do please help.

Last edited by mustnged on Mon Apr 04, 2016 4:35 pm, edited 1 time in total.

Re: How to check blank PATS key

by **mustnged** » Mon Apr 04, 2016 4:35 pm

mustnged

Posts: 2
Joined: Sat Apr 02, 2016 8:32 pm
Vehicle: 2004 Ford Explorer 4.6 v8

problem solved. just got back from the ford dealer. Paid them to get a new key made. The ebay ones do not work as the first two needed. The ebay ones only work after two oem keys exist. You need a Strattech brand key. It doesn't matter if they are S (40 bit) or SA (80 bit). Just as long as the brand is Strattech.

Re: How to check blank PATS key

AdrianM
Posts: 2
Joined: Sat May 21, 2016 10:17 am
Vehicle: Ford Focus 1.8 TDCI 2004

by **AdrianM** » Thu May 26, 2016 8:45 am

Good info on there matey.
I am in a similar position, only have 1 key for my Mk1 Focus, and looking to get another (Ford from the scrappies) key programmed.

I did go to a locksmith, and they told me it would be £50 - which I cant afford.....lol. Yes it is that bad.

Anyway, I'll see if I can get the PATS section to work, I only tried it once and it came up with an error - not licensed or something.

Re: How to check blank PATS key

Revolter
Posts: 5
Joined: Mon Jul 25, 2016 8:06 am
Vehicle: 2013 c-max

by **Revolter** » Mon Aug 08, 2016 6:42 pm

Anyone knows how to add second smart proximity key to car that have only one existing proximity key ? There is no manual key in my car.

The Ford manual explaining process but the requirements is to have TWO already paired existing keys present, unfortunately I have only ONE. I got the second key used second hand and trying to pair it to my car. Dealer wants $150~250 for this 😡

Re: How to check blank PATS key

Revolter
Posts: 5
Joined: Mon Jul 25, 2016 8:06 am
Vehicle: 2013 c-max

by **Revolter** » Sat Aug 13, 2016 6:11 pm

I have IDS, FORSCan and VCX adapter.

Trying to figure out how to program smart proximity key... if you know please share some of wisdom 😬

the car is C-Max

Re: How to check blank PATS key

king kong
Posts: 8
Joined: Mon Oct 26, 2015 3:35 pm

by **king kong** » Sat Oct 22, 2016 8:20 pm

Re: How to check blank PATS key

🔖 by **king kong** » Thu Oct 27, 2016 3:48 pm

> 66 **king kong wrote:**
> Hi . Can anyone tell me if it works to programm key Transit connect 2004 ?

Tried today an it works very well .Thanks 10x Forscan !!!

Re: How to check blank PATS key

🔖 by **jblueguy** » Sun Jan 29, 2017 3:47 pm

> 66 **FORScan wrote:**
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I tested my keys and got codes B10D7:05-48 and B10D7:51-08. Do you know what these codes mean?

Re: How to check blank PATS key

by **BigBrosMo** » Tue Feb 28, 2017 5:04 pm

> 66 **jblueguy wrote:**
>
> I tested my keys and got codes B10D7:05-48 and B10D7:51-08. Do you know what these codes mean?

I have the same issue. When I try to program the key it runs for 12 minutes and then, just when it looks like everything is fine... it fails. Checking the key gives the same B10D7 codes. What do they mean? Key should work, it was from a reputable seller.

BigBrosMo

Posts: 1
Joined: Mon Feb 27, 2017 4:58 pm
Vehicle: 2011 F150 XL, 3.7L V6

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