

# FORScan forum

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## How to use PATS Module Initialization function

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## How to use PATS Module Initialization function (#p4962)

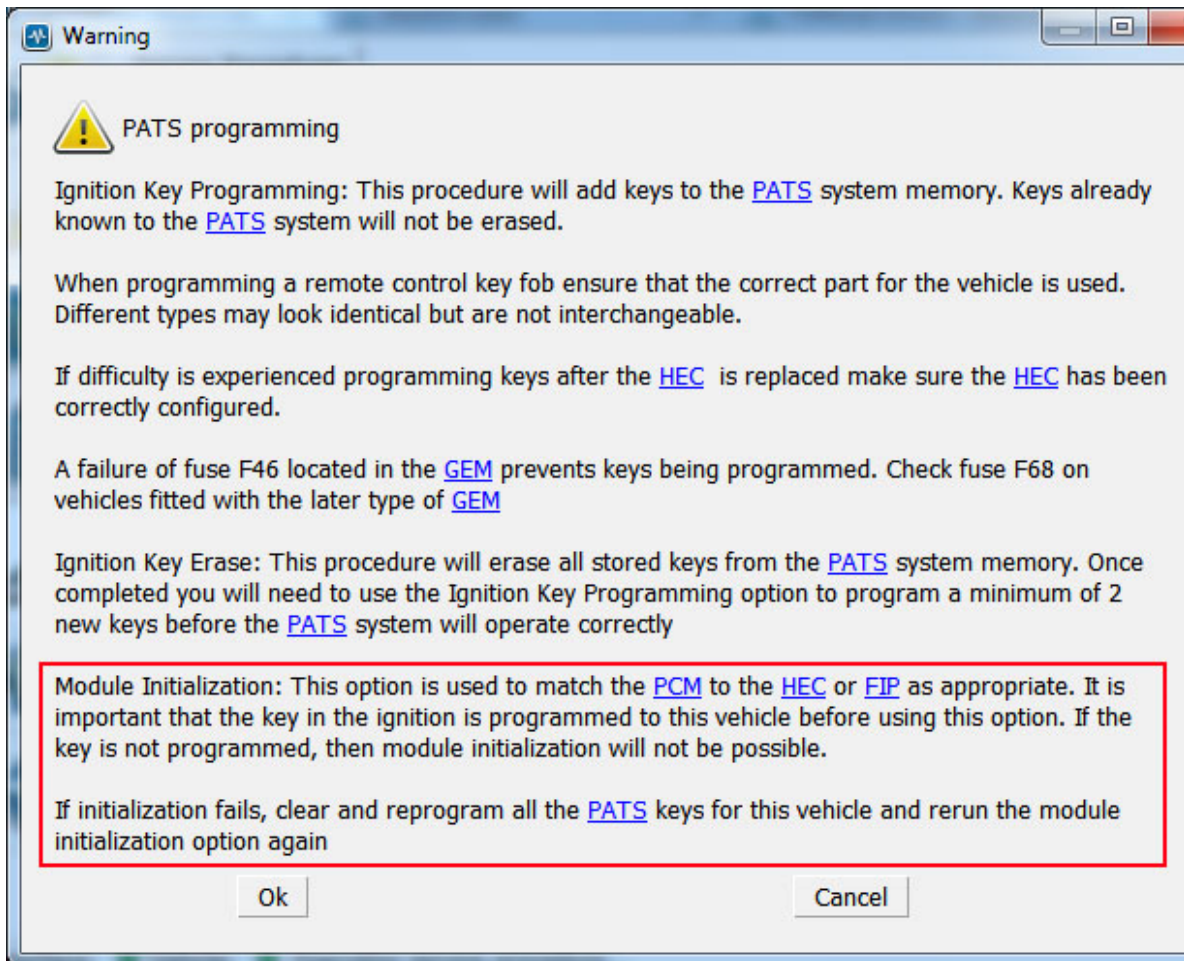
e | #FORScan#A#7xq#P d | #64/#5348#4=75#ip #

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

[viewtopic.php?f=6&t=83](http://forscan.org/forum/viewtopic.php?f=6&t=83) (<http://forscan.org/forum/viewtopic.php?f=6&t=83>)

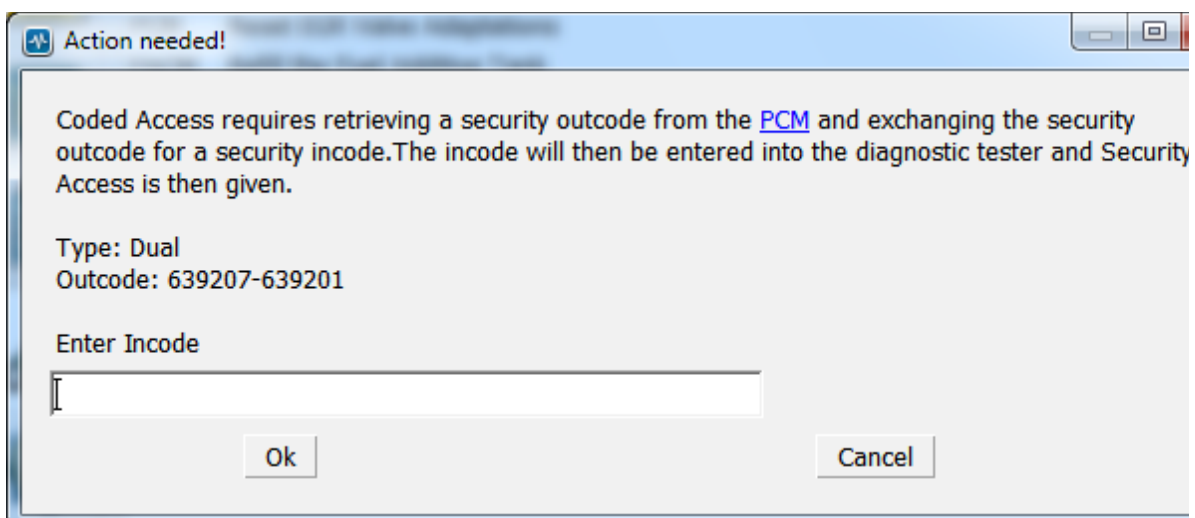
PATS programming menu in FORScan has several functions, for some models the Module Initialization option is available. This is quite important option so we have decided to create a dedicated article to discuss it.

In many cases PATS system is distributed, it means more than one module is involved in the protection. Module Initialization function is designed to synchronize (match) these modules with each other. It should not be used during simple key programming (except AU models). The inialization logic is model-specific, so it is always recommended to read information FORScan provides before start of the procedure (same informaion is always available using Help item in the PATS programming menu):



PATS\_module\_initialization.jpg (187.73 KiB) Viewed 1318 times

Another specific thing is that in some cases so-called Dual access to PATS may be required instead of Single access. Obtaining outcode/incode is identical with Single access, except that Dual type is displayed by FORScan and have to be specified in Outcode/Incode calculator.



PATS\_dual1.png (26.44 KiB) Viewed 1313 times

**PATS login calculator (v1)**



Outcode type:

Outcode value:

Incode value:

PATS\_dual2.png (25.1 KiB) Viewed 1313 times

Let's review most common use cases:

#### *1. Mondeo Mk3/Focus Mk1/Transit with Duratorq DI engines*

In these models the Module Initialization function must be used if FIP (high pressure fuel pump) and/or PCM module is replaced. Most common usage - initialize when new fuel pump is installed. Duratorq TDCI engines of the same models have no Module Initialization functions

If PCM module or both FIP + PCM are replaced, the following sequence of actions should be performed:

- i. Erase all keys (Single coded or timed access have to be obtained)
- ii. Program at least 2 new keys
- iii. Do module initialization

If only FIP module is replaced, then steps (i) and (ii) are not necessary and only step (iii) have to be executed.

#### *2. Focus Mk2/CMax*

Module initialization function is used here when instrument cluster (HEC or IC) and/or PCM module is replaced.

If HEC/IC or both HEC/IC + PCM are replaced, the following sequence of actions should be performed:

- i. Erase all keys (Single coded or timed access have to be obtained)
- ii. Program at least 2 new keys
- iii. Do module initialization (Dual coded access may be required)

If only PCM is replaced, the steps (i) and (ii) are not necessary, and only step (iii) have to

be executed.

### 3. Models for US market (1998-2010)

Module initialization logic here depends on the model, so follow FORScan instructions and acknowledge the Help info as mentioned above. Also, timed access to PATS is used for these models in majority of cases. Coded access is almost never used, so there is no problem with outcode/incode.

### 4. Models for AU market (1999-2006)

These models have no dedicated functions for erase and program keys. Programming is performed as a whole - keys are erased, then programmed. Module initialization is a part of this process and called automatically. Module initialization can be called separately to match BEM and PCM, for example if the match was lost for some reason or programming procedure somehow failed before the initialization was completed. Coded access is also not used here, similar to US market models.

Wrs

## Re: How to use PATS Module Initialization function (#p5903)

e | #alan71 # #wxh#Dxj #4 /#5 3 4 8 #1 =8 3 #lp #

I have tried several times to program pats! But to no avail. It will allow the erase and 1st key but will not allow 2nd key to be programmed. Vehicle will not start without 2nd key. Keys are OEM, so I know that is not the issue, please help!

Wrs

## Re: How to use PATS Module Initialization function (#p5921)

e | #FORScan # #z hg#Dxj #5 /#5 3 4 8 #1 =7 3 #sp #

### alan71 wrote:

I have tried several times to program pats! But to no avail. It will allow the erase and 1st key but will not allow 2nd key to be programmed. Vehicle will not start without 2nd key. Keys are OEM, so I know that is not the issue, please help!

Already answered here:

[viewtopic.php?f=5&t=1580&start=10#p5905](http://forscan.org/forum/viewtopic.php?f=5&t=1580&start=10#p5905) (<http://forscan.org/forum/viewtopic.php?f=5&t=1580&start=10#p5905>)

If you experience any problems, please address to support (PM or email) and provide internal FORScan logs for detailed problem analysis.

Wrs

G lvsd | #srvw#lurp #suhylrxv=# All posts ▼ #Vrw# | # Post time ▼ Ascending ▼ Go

Srvw#l#hsd |

6 #srvw# #Sdjh#1 #r i#1

Uhwuq#r #G l#jqrwlfv#lqg#P dlqwhqdqfh#xvlgj #IR UVfdq

Mxp s#wr=#

## Who is online

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Srzhuhg#e|#ksEE^ #lruxp #Vriwz duh# #ksEE#Jurxs#