

Online-calculator

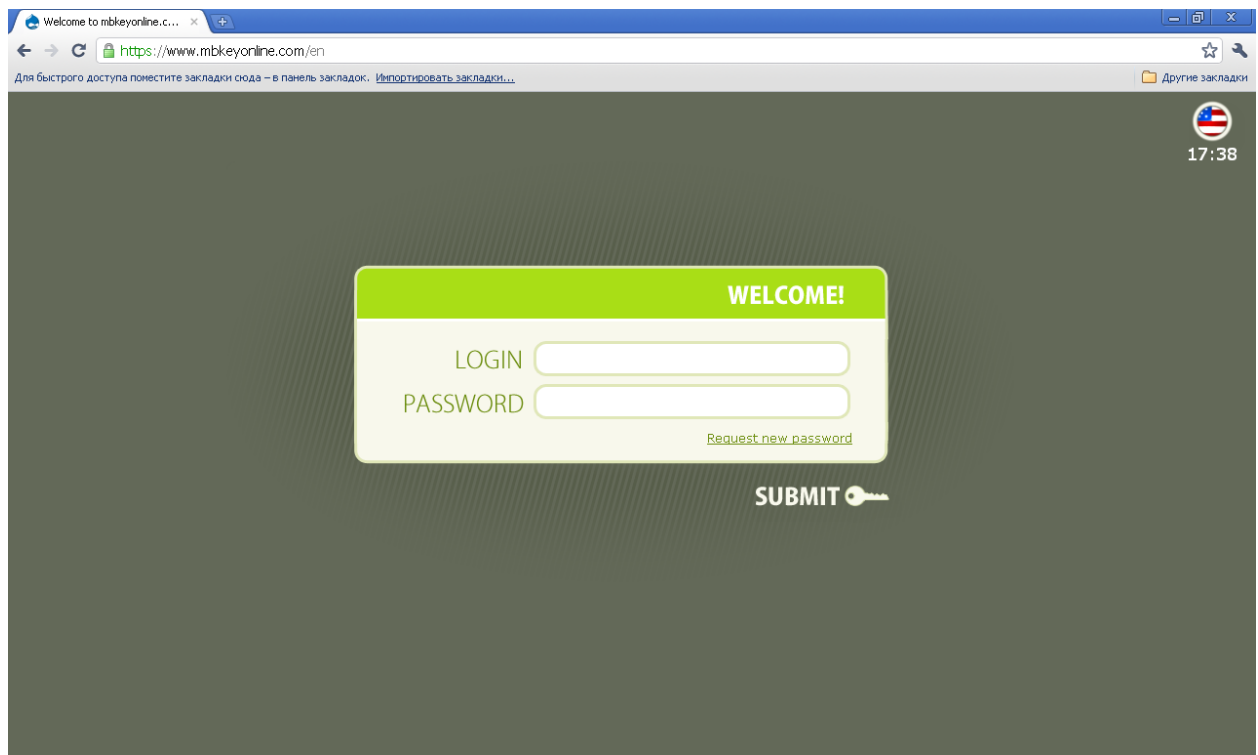
www.mbkeyonline.com

MANUAL.

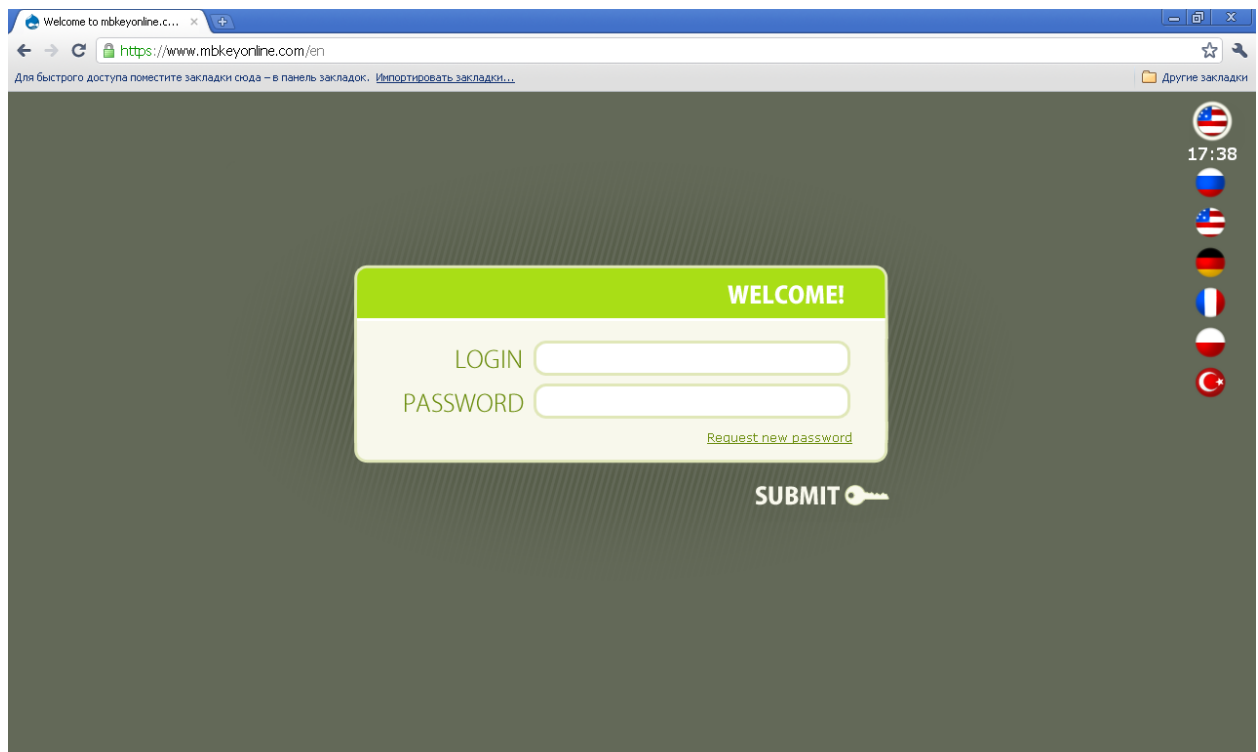
This user manual helps you to program keys into the Mercedes Benz – from on-line generation to key writing.

Open web page: <https://www.mbkeyonline.com>

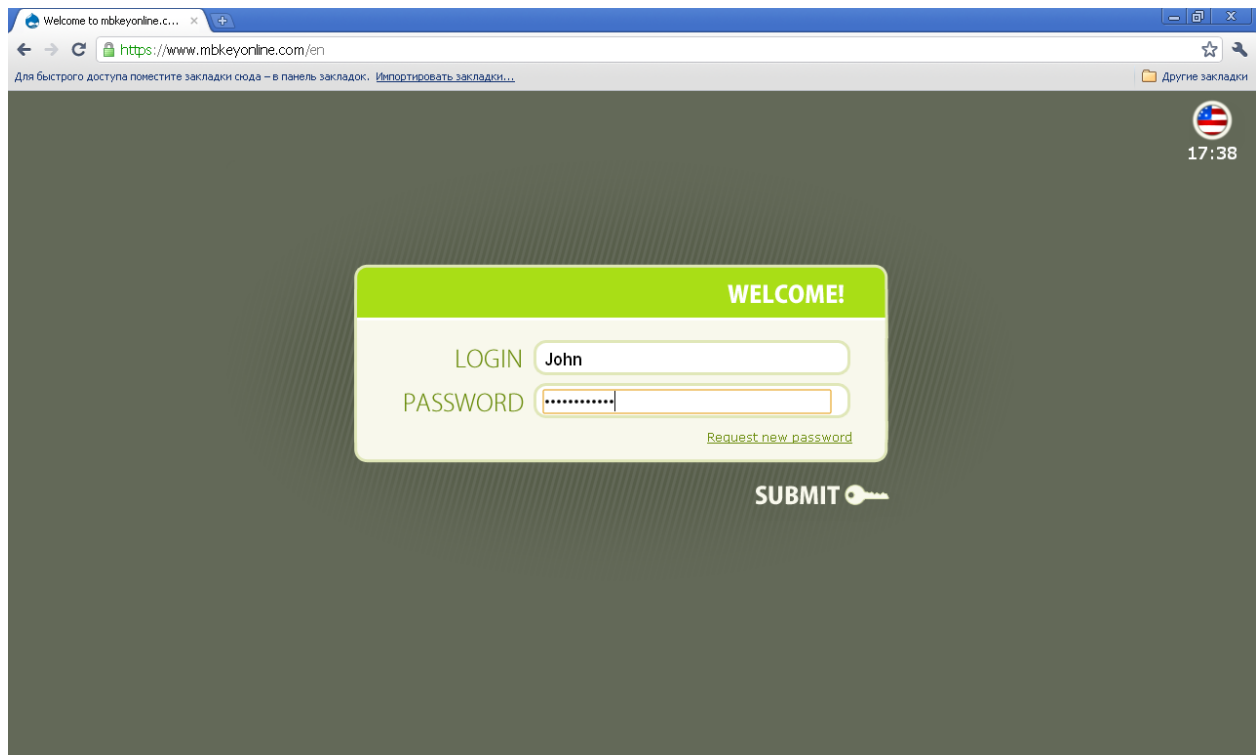
Internet connection is required.



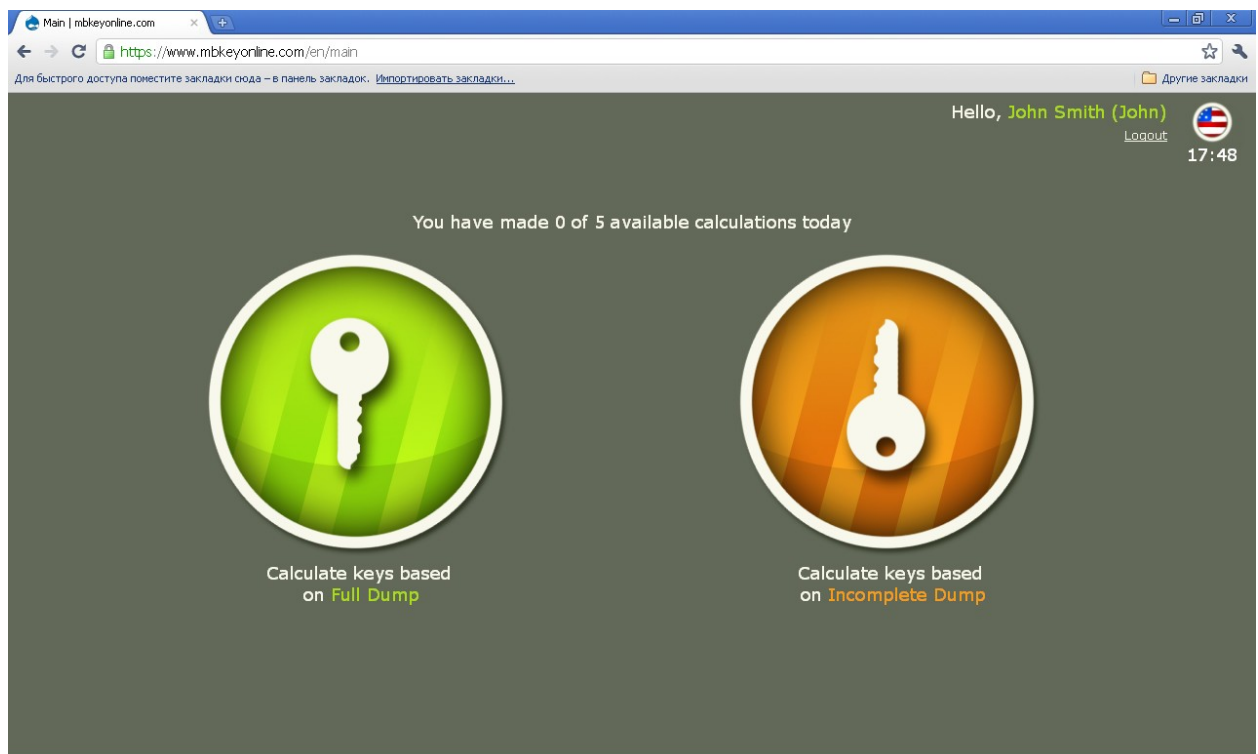
Language of the web page will be selected automatically depending on your location. You can choose the language you need from the list – click flag symbol on the right top corner.



Provide login and password you have received from us into according lines.

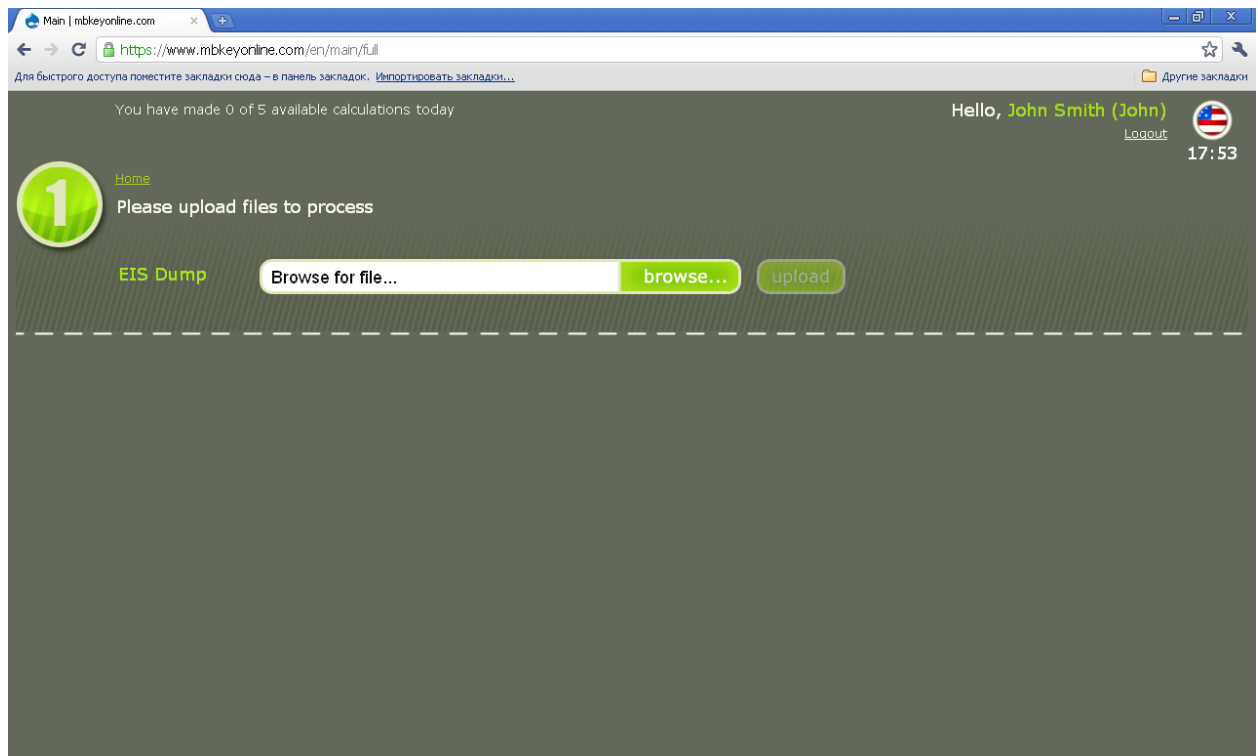


Press SUBMIT button



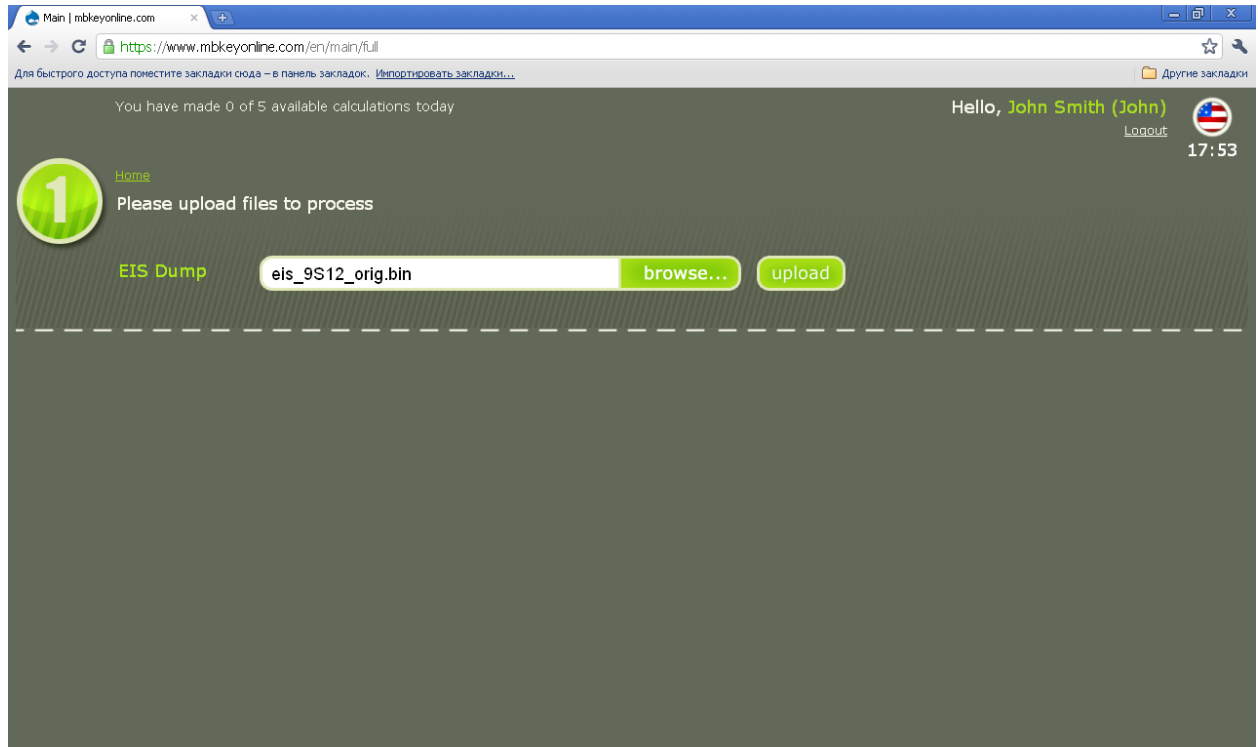
Every registered user can calculate up to 5 EZS dumps a day. You see the quantity of used tokens on the top of window.

Press «Calculate keys based on Full Dump» button and next page will be opened.

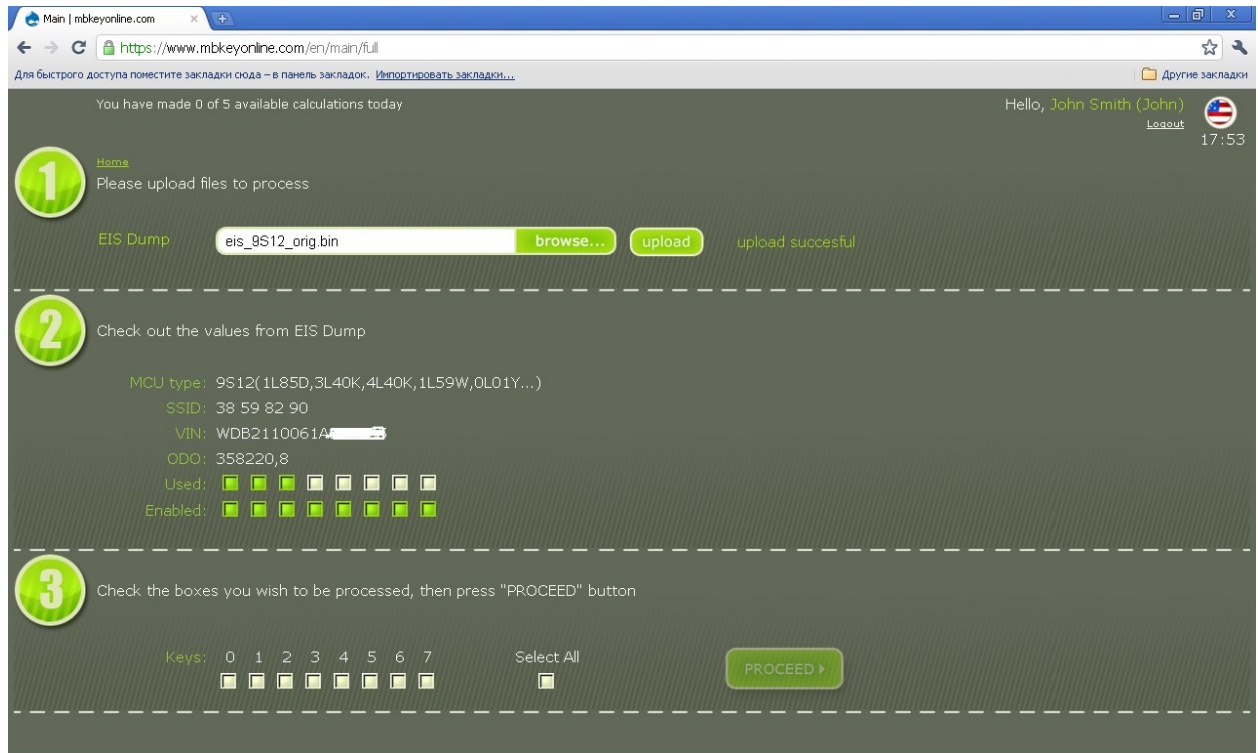


You have to upload Motorola EEPROM data from EZS: external CPU HC05 from old type EZS, CPU HC08 with key data, CPU 912 or 9s12. No need to select exactly CPU type. The software detects it itself.

Press “Browse” button, show the directing to CPU EEPROM file. The Upload button will be active if you did everything right.

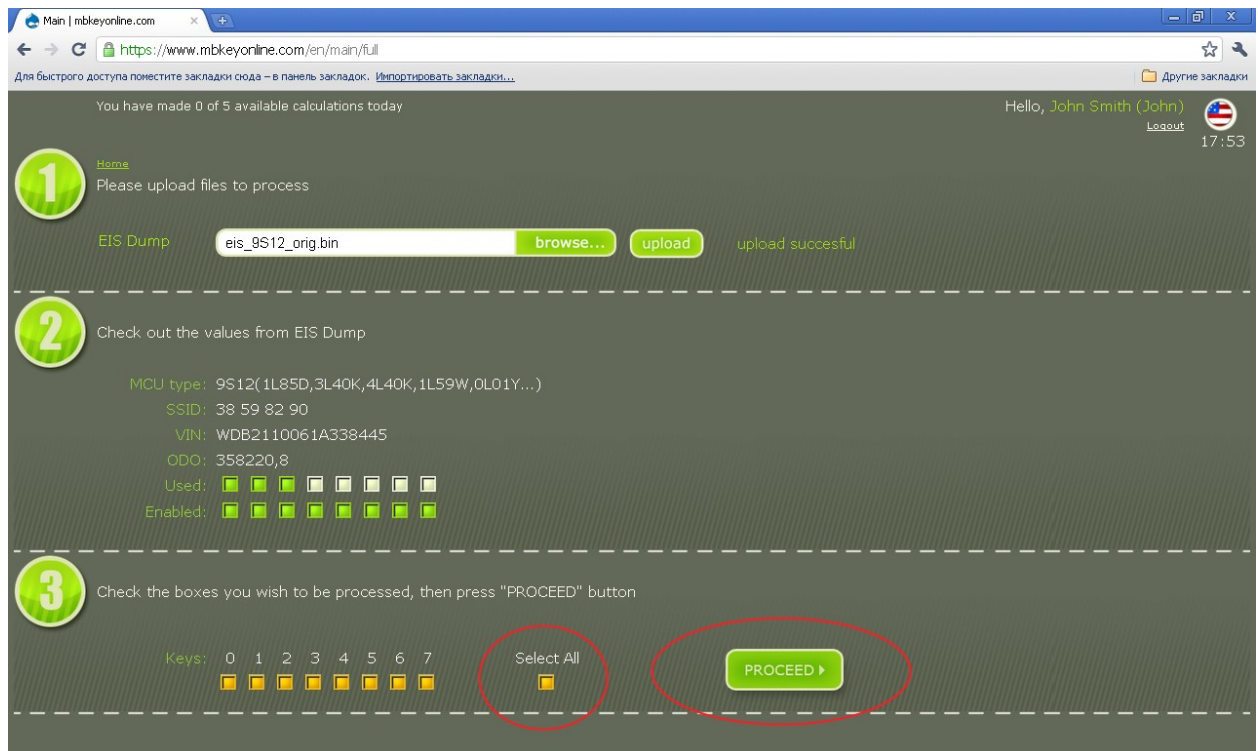


Press "UPLOAD" button. After that file will be loaded to the server for calculation.

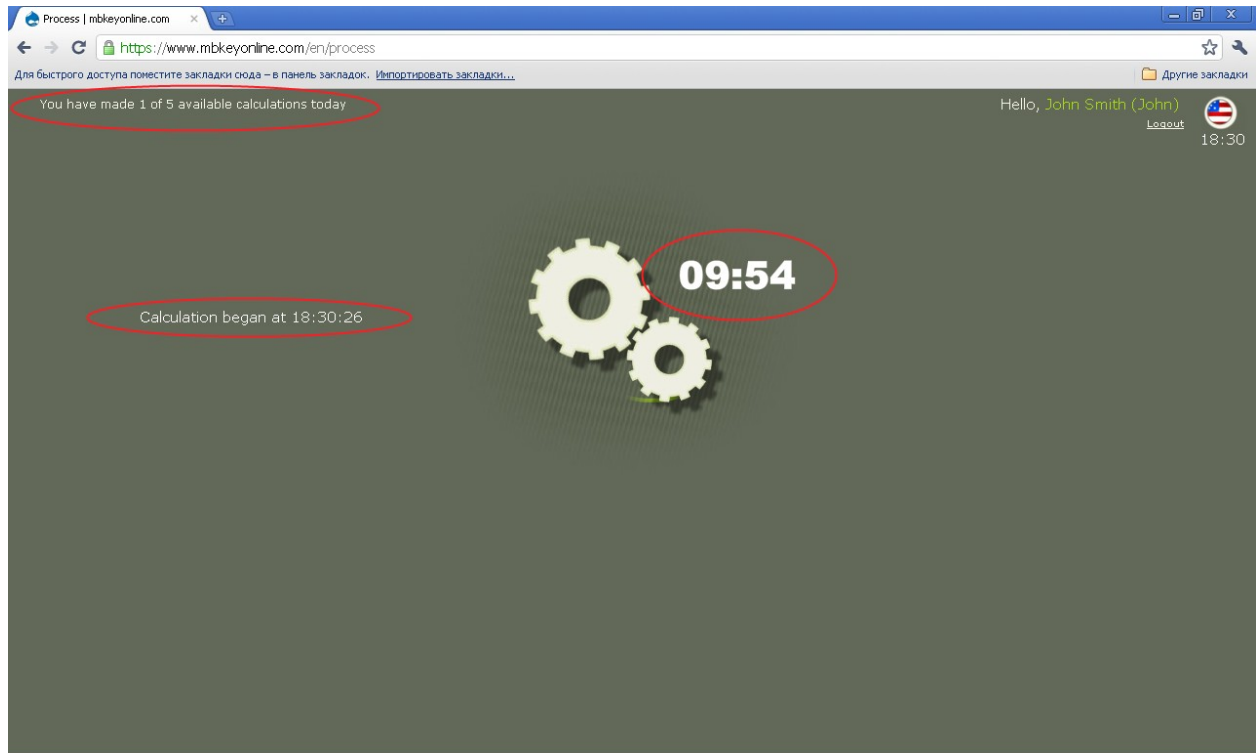


On this sample web page we uploaded MOTOROLA CPU 9S12 EEPROM file. You will see CPU type (check if it's right type), SSID of EZS, VIN and odometer volume. There are three active (Used) keys with numbers from 00 to 02. USED KEY means this key started this car at least one time. All keys in this sample are enabled for generation. If there are some keys disabled (locked) they painted by red.

Select key numbers you would like to generate. Let's generate all keys (full keys set) for this sample, for example if all keys are lost by customer. Mark Select All by tick, then press "Proceed" button.

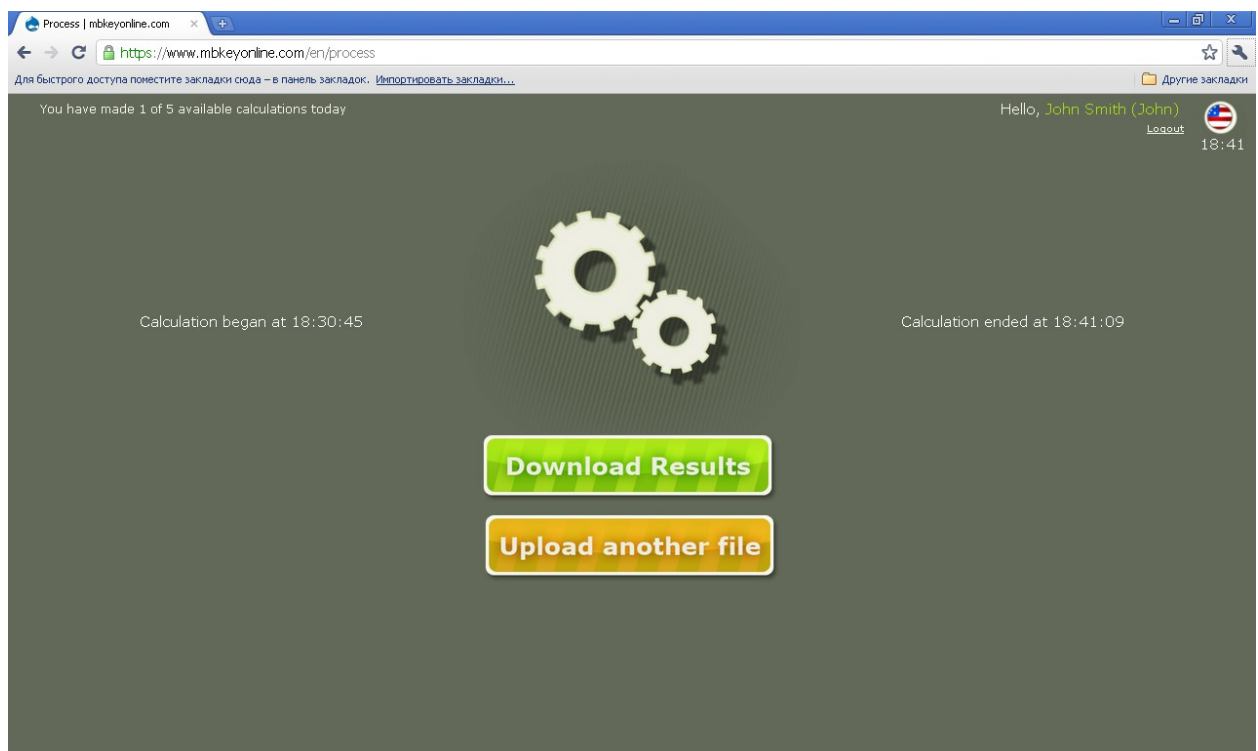


The generation process has started now.



At the left top corner you will see the limit of available calculation item today. At the central part of screen you can see time of starting and appr. time of finishing this calculation session (from 10:00 minutes to 0:00).

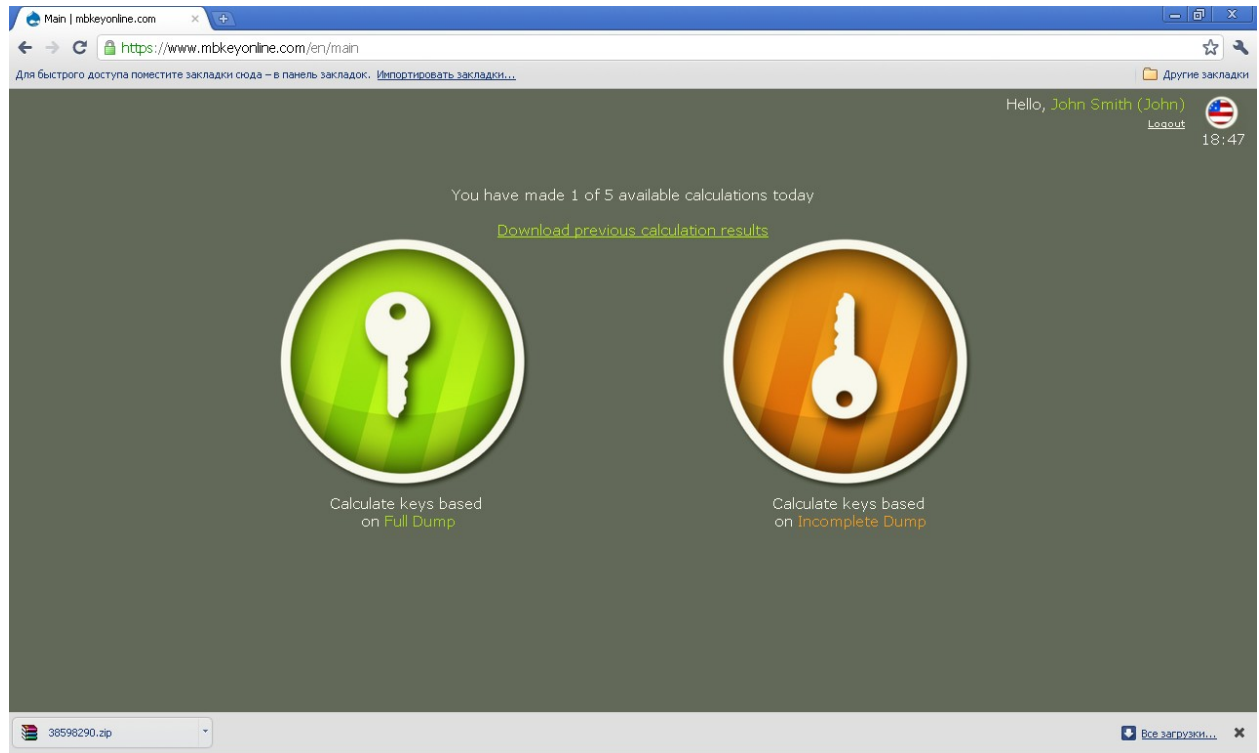
After finishing of calculation you have the following results:



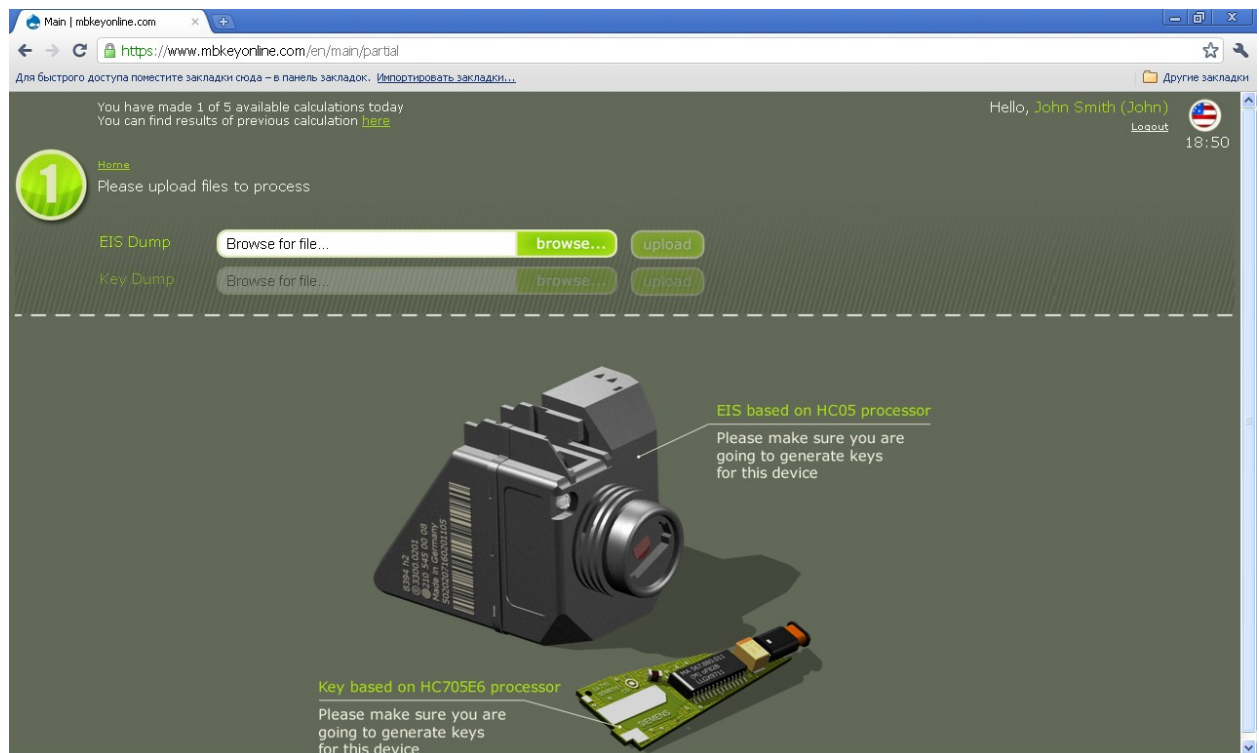
Press “**Download Result**” button to get keys files to your PC. Press “**Upload another file**” to upload next EZS dump for calculation.

Keys files will be sent by e-mail to your e-mail address (which you provide to registration form). It doesn't depend if you download files yourself by pressing Download Results button. E-mail results will be sent automatically.

Save results and go to main page.



Press "Calculate keys based on Incomplete Dump" button:

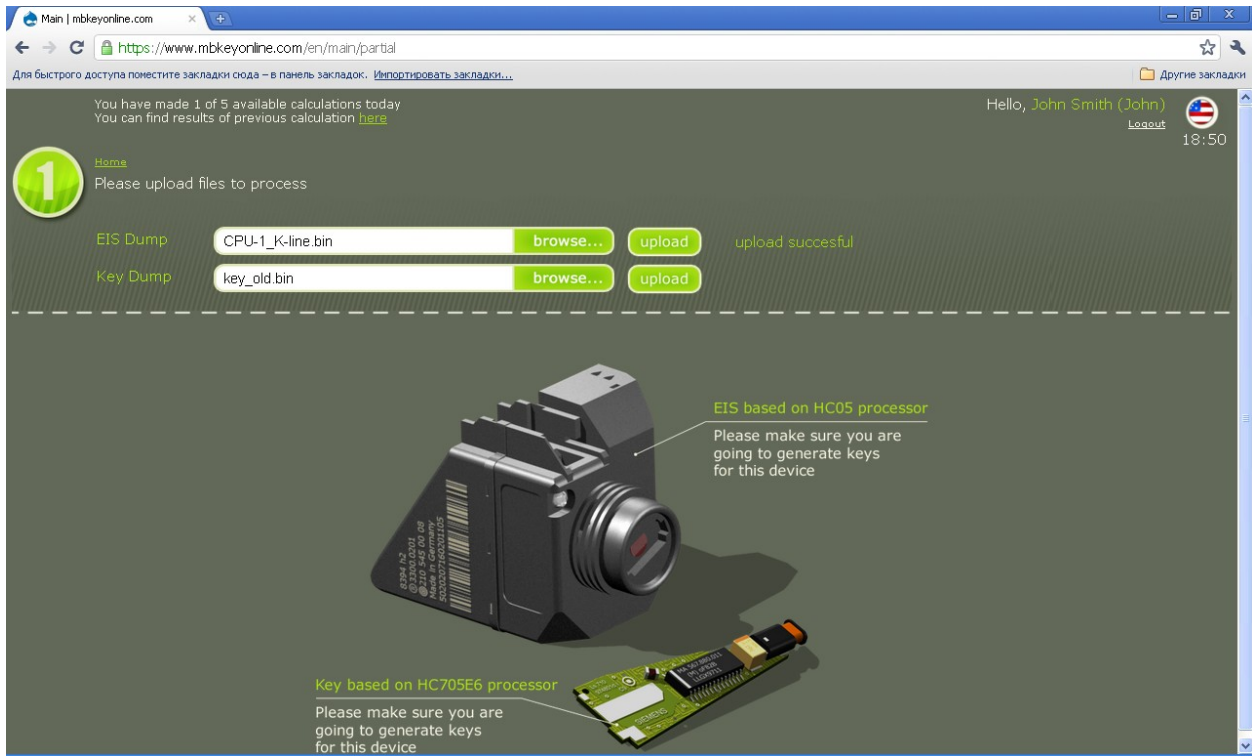


If you going to work with old type EZS (like in picture) based on two Motorola CPU HC05 series and you have at least one key (old type, Motorola HC705E6 based) from exactly this car you can read CPU1 eeprom by K-line (diagnostic connector) without taking it off. It's better to do it with our MB KEYPROG 2 or MB KEY RESTORER.

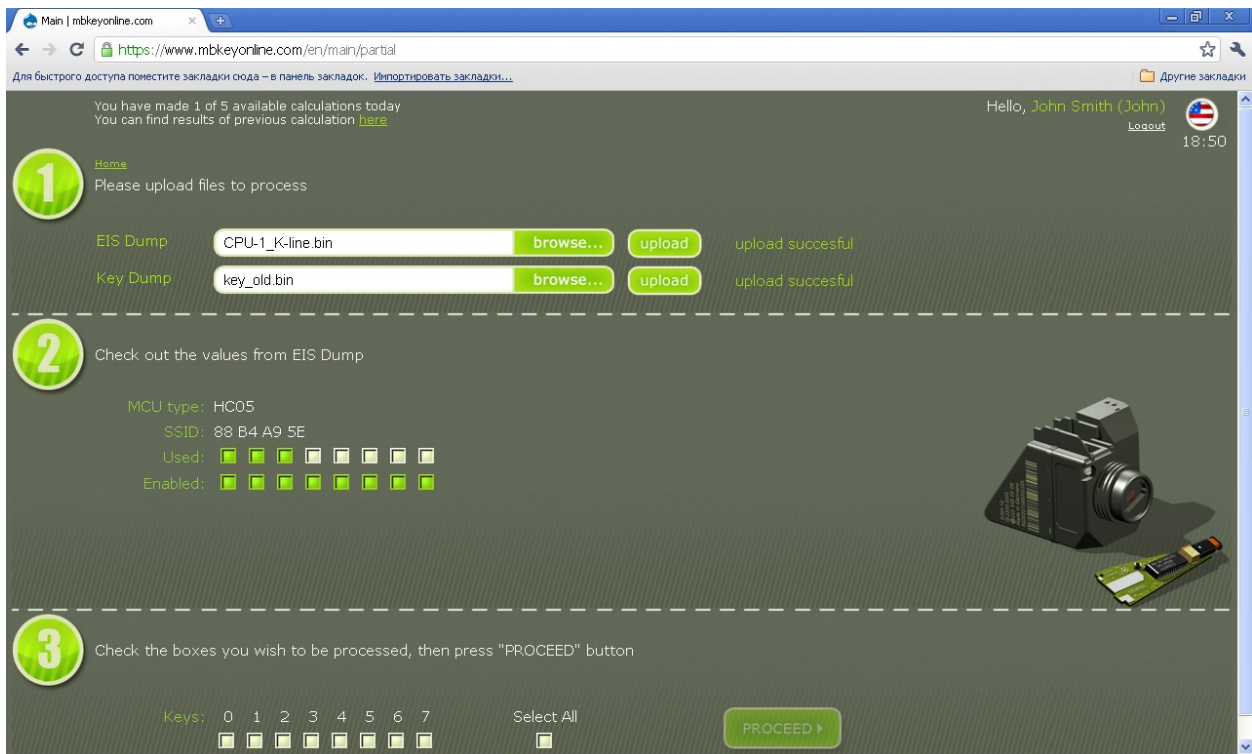
See reading instructions in user manuals of those devices.

Such dump (you have read via K-line) is not complete. Some data information in this dump has changed to "00 00" volume. To get this missed data you have to read EEPROM from key's Motorola HC705E6. You can use our EEPROM Programmer to read it.

Upload CPU1 eeprom, then upload key eeprom:

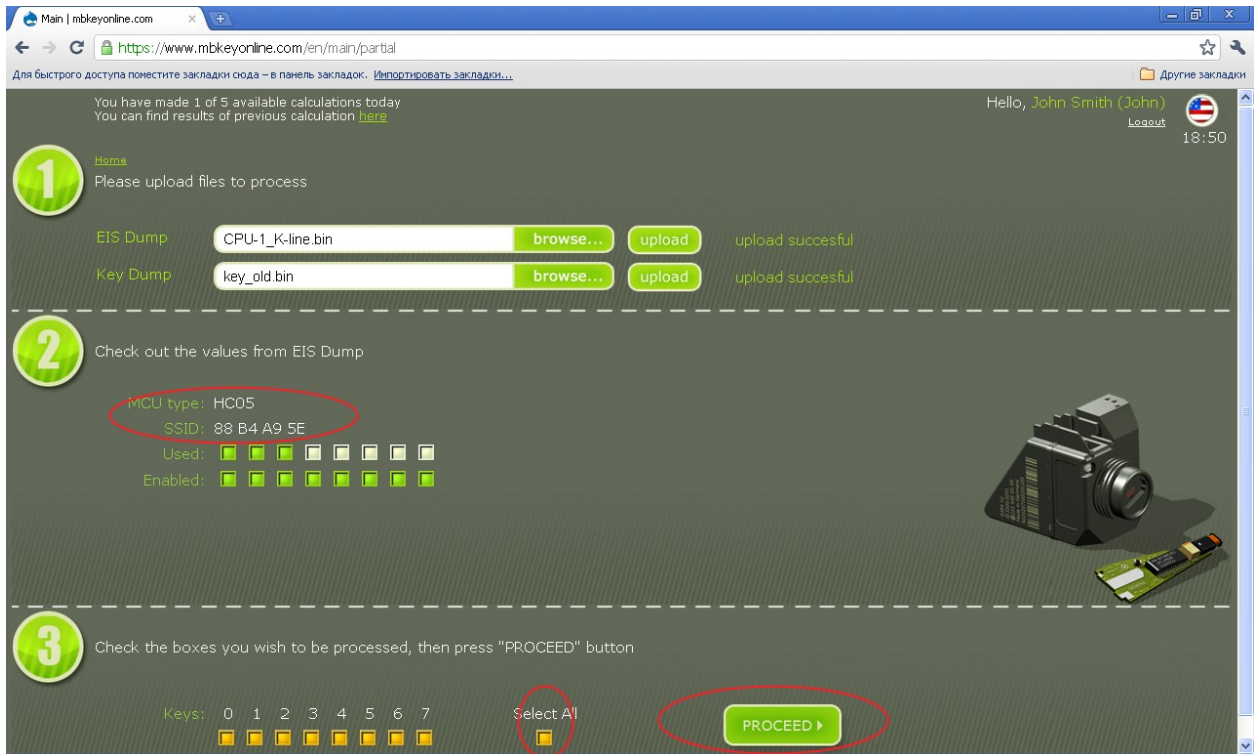


Next screen:

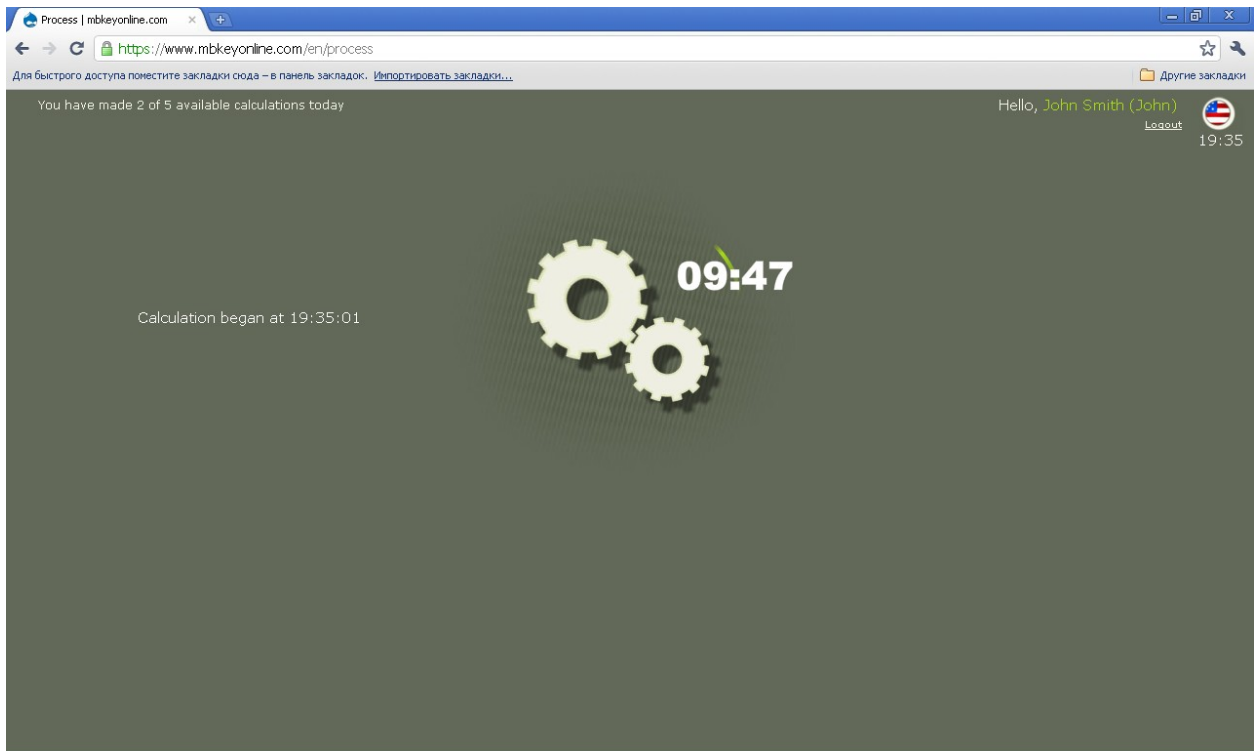


For this old type Motorola CPU you can see only name of type (HC05) and SSID after uploading. There are three active (Used) keys – numbers from 00 to 02. “USED KEY” means that with this key they started this car at least one time. You can see that all 8 keys are available for calculation (Enabled). If this EZS has locked keys (disabled) their positions painted by red.

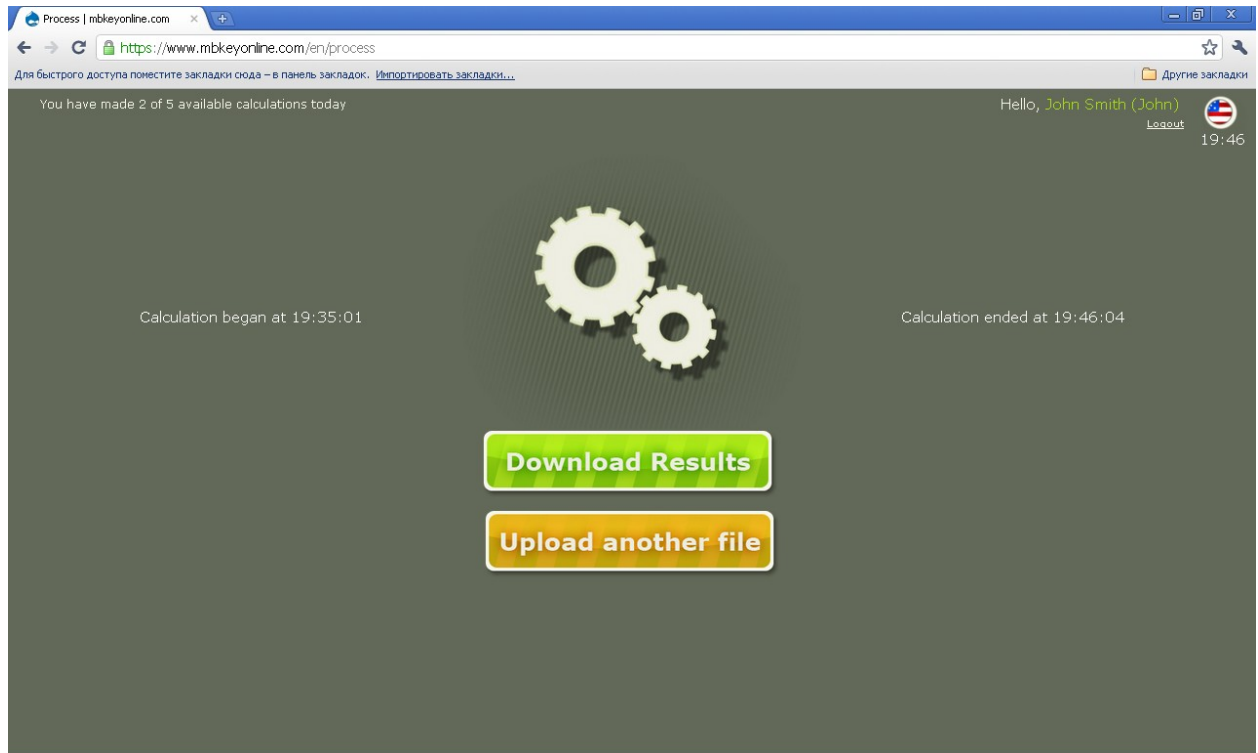
For this sample lets calculate all 8 keys – from 00 to 07. Click on Select All window and then press “PROCEED” button.



Keys calculation has started:



After finishing you can see the following screen:



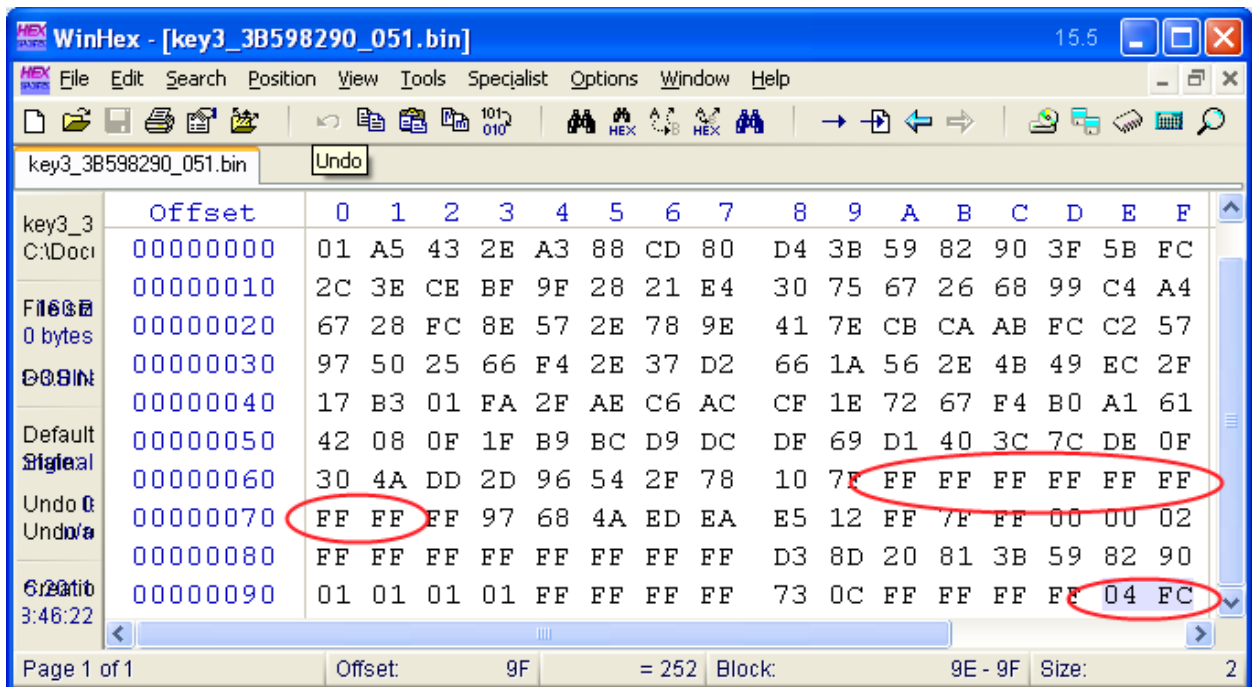
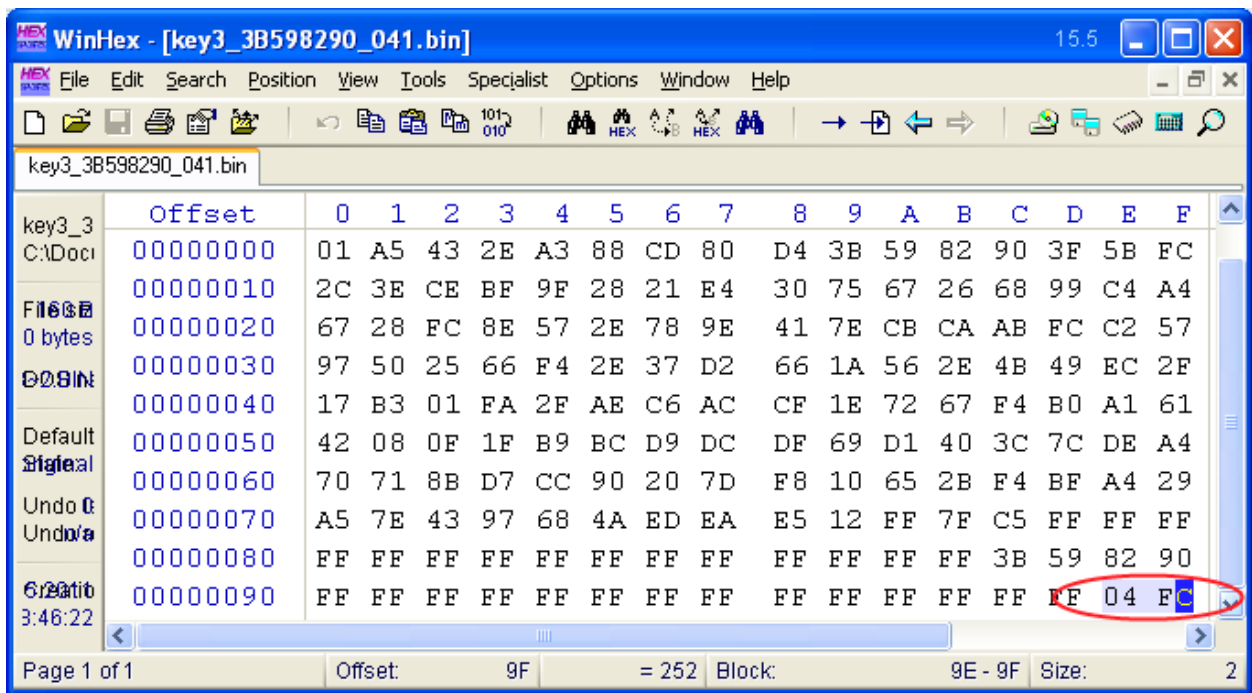
That's all important moments for on-line key calculation.

You can use any programmers for key writing.

Important note:

Do Activate key after writing if you work with old type EZS, based on Motorola HC05 CPU. You should to do it before you insert the key in EZS. Status of the key must be changed to 14 EC or 15 EB.

Let's describe key writing for our first sample (9S12). You can write the key with our "NEC KEY PROGRAMMER".



Dump with extension _011 (variant 1) has Status bytes – 04 FC – at the beginning.

Dump with extension _041 (variant 2) has Status bytes – 04 FC – at the end.

Dump with extension _051 (variant 3) has Status bytes – 04 FC – at the end but you can see FF FF area additionally in lines 060 and 070.

For detection of variant of CPU HC705E6 (big old type plastic key) read second line on the surface of CPU.

Last three digits must be like in samples:

variant 1 - MA 567 880 **011**

variant 2 - MA 567 880 **021**, MA 567 880 **041**, 656 167 20 70

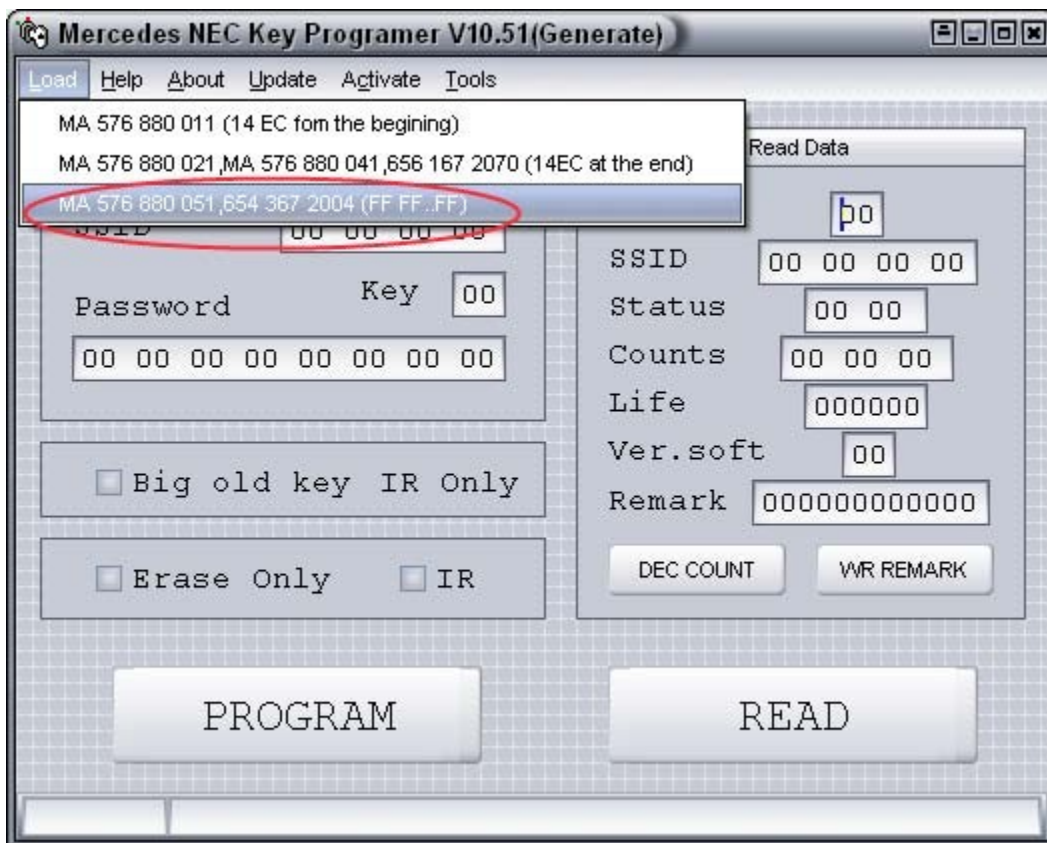
variant 3 - MA 567 880 **051**, 654 367 2004

If you even couldn't find exactly coincidence in maskset you have to read original data eeprom and compare it with variant samples.

So you should to write the key with the same file variant like original eeprom has.

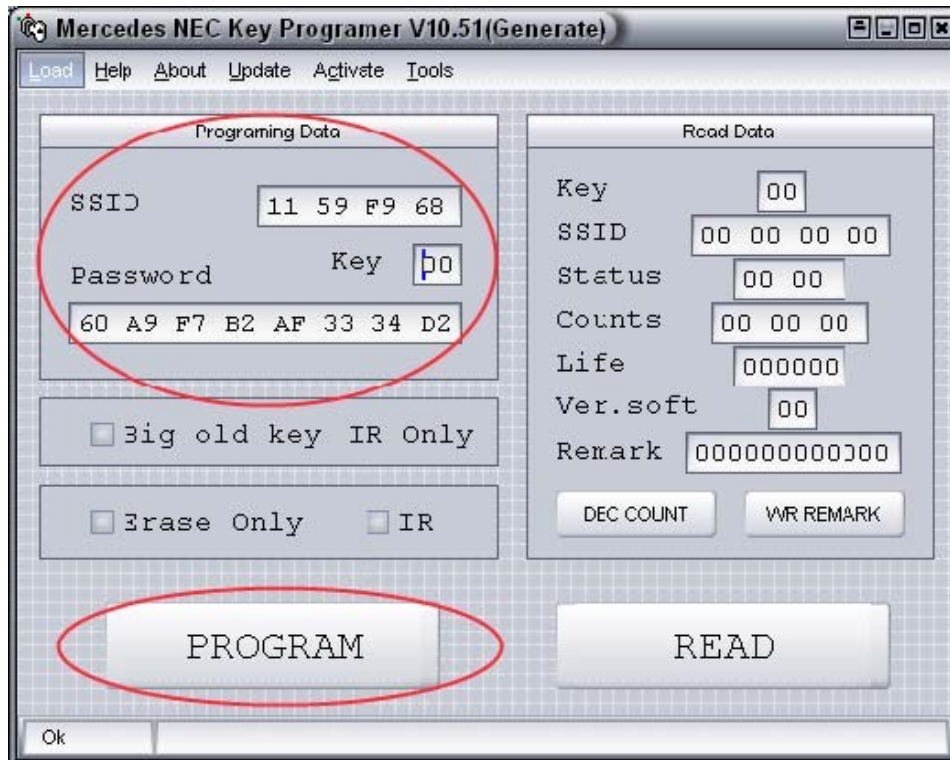
NEC CPU programming via PCB.

- a. Take off NEC CPU from the key board
- b. Solder it on to the PCB board, insert it in NEC PCB adapter and connect to MB Keyprog-2 adapter
- c. delete all ticks in the software windows
- d. Press LOAD bookmark. Choose key variant you need, upload key eeprom file.



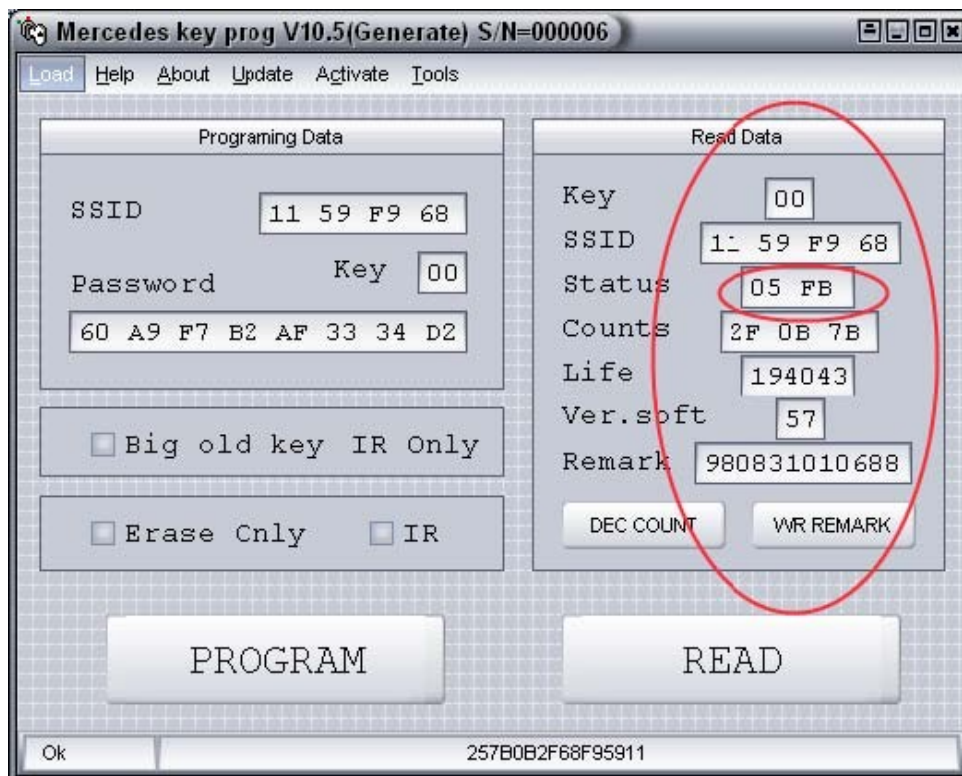
If you choose key variant 3 you should to upload exactly third variant. Key will not work if you choose wrong version.

After uploading you can see following screen:

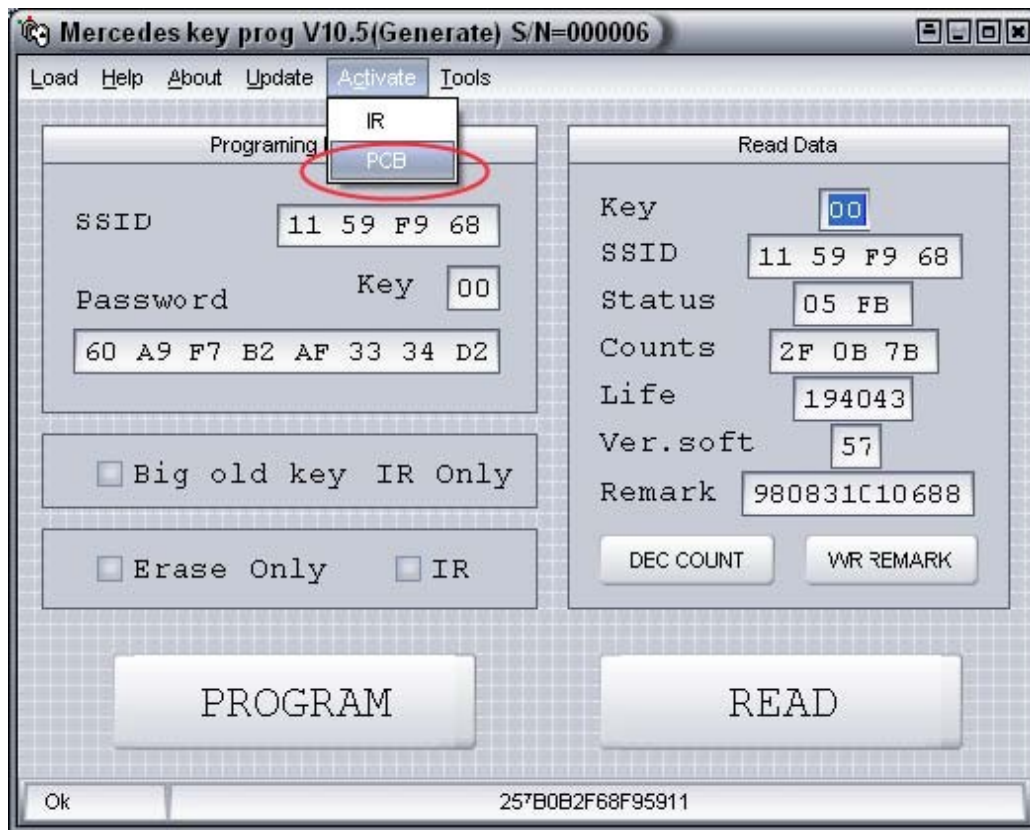


Some information like SSID, key number and password will be read in according lines of Programming Data window. Later you can compare results before and after writing.

- d. Press PROGRAM button. Progress bar will grown and "OK" message appeared.
- e. Press READ button for testing:



Status **05 FB**, this key is not activated yet. If you need to activate it before inserting in to EZS (only for old type EZS based on HC05 CPU) press Activate bookmark and choose type of work: IR (via Infra Red port, if you already put CPU back on the key board) or PCB (if CPU still on adapter board).



Press READ button and check key Status:

