



# Immobiliser Calculator

Cardiag Inc.

# News and Updates

2008.03.03 - Version 1.2.5 is released: added pin codes by dump for General Motors various models (REC - 95040, Radio Blaupunkt CD30/CD30 MP3 - 95640); Suzuki Swift, Grand Vitara, SX-4 and other new models with DENSO ECU (ECU - 93C56); various types of Renault Megane II / Scenic II (UCH - MC86H-C912DG256); PSA various models (Keyboard - HC11F1, ECU - 95160). Added list of default pin codes for some of the new Suzuki models. Update of autodetection masks for GM models (BCM - 93C66); Mitsubishi models (Immo - 24C01); VAG models (various units); Fiat models (various units); PSA models (ECU - 95080). Update of data files for KIA 2008 models with SMARTRA-3 ICM by VIN (february 2008). Update of ICC shell - added \*.dat to default file extensions list for raw binary files. Update of help files, new pictures of various electronic modules supported by ICC, additional information.

2008.02.12 - Version 1.2.4 is released: added pin codes by VIN for KIA 2008 models includes special military models with SMARTRA-3 ICM (more than 110,000 of VINs are available in this update). Pin codes by dump for PSA various models (BSI - 95128, 95160). Update of data files for KIA 2008 models with SMARTRA-3 ICM by VIN. Update of autodetection masks for PSA models (ECU - 93C56). Added support of 5 digits SKC for VAG models. Now ICC supports 3 types of VAG SKC - 4 digit (01234), 5 digit (012345) and 7 digit (1234567). Update of help files, new pictures of various electronic modules supported by ICC, additional information. Help file now available in Adobe PDF format also.

2008.01.20 - Version 1.2.3 is released: added pin codes by dump for KIA and Hyundai models with SMARTRa ICM (ECU - 95080, 95P08); KIA and Hyundai models with TEXTON ICM (Immo - 93C46); PSA various models (BSI - HC05B16, 95160); GM various models (ECU - 95640). Update of autodetection masks for Mitsubishi models with HITAG-2 keys (Immo - 24C01); KIA and Hyundai models (ECU - 95040). Update of help files, new pictures of various electronic modules supported by ICC, additional information. Changes in software protection - minor speed improvement of ICC and ICC Tool. Bugfix of ICC shell - fixed problems with displaying of correct help page via F1 key under Windows 98/NT. Added \*.eep to default file extensions list for raw binary files; added \*.sre to default file extensions list for Motorola S-Record files. Now are possible to use WinHelp file instead of HtmlHelp - put "winhelp=1" into ICC.ini or just rename or delete ICC.chm. Now are possibly to disable balloon tool tips - put "tooltips=0" into ICC.ini and you will never see them again. Update of ICC Dongle Tool - added support of configuration file. Added sample of configuration file - ICC.ini with descriptions of parameters.

2008.01.04 - Version 1.2.2 is released: added pin codes by dump for Fiat, Peugeot, Citroen various models with Siemens immobilizer (Immo - MC68HC05E6); Fiat Grande Punto and GM models based on SCCS platform (BSI - 93C86); VAG various models with new type of immo box (Immo - 93C46); Land Rover Freelander, Discovery (BCU - MC68HC11P2); Opel Corsa C, Tigra B and familiar models (Dash - NEC 780828); PSA various models (ECU - 95P08, 95160). Update of autodetection masks for Fiat Panda (BSI - MC9S12DG128). Update of ICC shell - for Land Rover models now are showing two codes (if require), first one for using with diagnostic equipment and second one to enter by driver's door key; all long pin codes, serial numbers and descriptions of error messages are showing now in balloon tooltips, just place a cursor on edit box; Minor speed improvement. Update of help files, new pictures of various electronic modules supported by ICC, additional information.

2007.12.21 - Version 1.2.1 is released: added pin codes by dump for VAG 2006+ models, such as Skoda Roomster, Superb, Fabia, Seat Ibiza, VW Polo (Dash - 93C86); Peugeot, Citroen, Fiat, Lancia various models with TEXTON CPH (CPH - 95040, 93C66). Update of autodetection masks for Volvo models (Immo - 93C46). Update of ICC dongle algorithms for Peugeot, Citroen, Fiat, Lancia models by dump of Texton CPH; speed improvement of Mazda ISN2PIN algorithm - maximum time for calculating of pin code is reduced two times for standard module. Update of ICC Tool for checking of new installed modules. Update of help files, new pictures of various electronic modules supported by ICC, additional information.

2007.12.17 - We would like to inform you that since april 2007 was added great number of solutions to ICC. Such as Honda and Acura by VIN, Mazda by ISN, various models by dump includes crypted Audi, Renault, Dacia, Iveco, Alfa Romeo, Fiat, Lancia, Peugeot, Citroen and others. Now our Immo Code Calculator is one step above than eight months ago. We would like to say thanks to all of our customers and we are wish you Merry Christmas and Happy New Year! That's not all, till end of december we will release new solutions for various cars includes VAG 2007 models with crypted 93C86 in dashboards. And we are going to change price of ICC - from 1 january 2008 price will be €875.00 EUR includes six months of free updates and worldwide shipping. Price for distributors will stay the same.

2007.12.14 - Version 1.2.0 is released: added pin codes by dump for Opel Vectra C, Corsa C, Astra H and familiar models (BCM - 93C66, HC912DG128, REC - 95040, Dash - 93C66, ECU - 95160, 95320); VAG various models (Dash - 24C17, HC912DG128); Alfa Romeo, Fiat, Lancia various models (Immo - HC908, 93C46, ECU - 93C46); Jaguar S-Type (ECU - 24C08); PSA various models (BSI - HC05B16); Chrysler Pacifica, Town & Country, Voyager, Dodge Caravan and familiar models (Immo - 95040). Update of autodetection masks for PSA models (BSI - HC05B16); Alfa Romeo, Iveco models (Immo - 93C56, ECU - 24C16); VAG models (Dash - HC912DG128, 93C56). Update of ICC Dongle Tool for checking of optional extra fast Mazda ISN2PIN module. Update of ICC Dongle algorithms - Mazda ISN2PIN standard module 25% faster now and XA module 50% faster. Changes in software protection - major speed improvement of ICC Shell and fixes of wrong conversion of S19 / EEF / HEX to BIN caused by error in code morpher algorithm; More stable work of ICC Shell and ICC Dongle Tool in Win'98. Update of help files, new pictures of various electronic modules supported by ICC, additional information.

2007.12.07 - Version 1.1.9 is released: added pin codes by ISN (immobilizer serial number) for Mazda 626, Xedos, Demio, MPV, Miata and others with Lucas immobilizer. Pin codes by dump for Renault Magnum, Premium and familiar models (Immo - 93C46). Passwords by dump for BMW models (EWS2/3, various versions - HC11EA9). Update of autodetection masks for Alfa Romeo, Lancia models (Immo - 93C46); GM models (BCM - 93C66); Mitsubishi models (Immo - 24C01). Update of ICC dongle algorithms for Mazda models by ISN. Update of ICC Dongle Tool for checking of new installed modules. Improvement of EEF / S19 conversion algorithms for files with image base different from 0x0000. Bugfix of ICC Shell, fixed some problems under Windows NT/98. Update of help files, new pictures of various electronic modules supported by ICC, additional information. Update of ICC dongle drivers for Windows 98 / NT / XP / Vista 32 and 64-bit.

2007.11.23 - Version 1.1.8 is released: added passwords by dump for Mercedes Benz W211, W220, W906 and others (EIS - HC912DC128A). Pin codes by dump for Volkswagen Gol, Pointer, Parati and familiar models with KOSTAL immobilizer (Immo - 93C56); Peugeot and Citroen various models (BSI - 95128); Fiat Punto 85 and familiar models (ECU - HC11F1); Isuzu Bighorn / Trooper, Holden Jackaroo / Monterey, Opel Monterey, Vauxhall Monterey, Chevrolet Trooper and familiar models (Immo - 93C66); Land Rover Discovery and familiar models (BCU - 68HC11PH8). Update of autodetection masks for Renault models (Immo - 93C46); Chrysler, Dodge, Jeep, Plymouth models (Immo - various types); Mazda models (ECU - 24C01); Mitsubishi models (Immo - 24C01); General Motors models (various units); Isuzu models (Immo - 93C46); Suzuki models (Immo - TMS370); Iveco, Alfa Romeo models (Immo - 93C56). Minor bugfixes of ICC Shell interface; HEX / S19 / EEF to BIN conversion subroutines (in some cases after converting binary file had a wrong size). Update of help files, new pictures of various electronic modules supported by ICC, additional information.

2007.11.14 - Version 1.1.7 is released: added PCM codes by VIN for Honda and Acura vehicles. Pin codes by dump for various models of Peugeot and Citroen (BSI, 3 types - 95128, 912DG128A). Update of list with default pin codes for Mitsubishi Diamante, Eclipse, Montero Sport. Update of autodetection masks for Chrysler, Dodge, Jeep, Plymouth models (Immo - 95080, 68HC908AZ32); Fiat Seicento / Ducato, Citroen Jumper / Relay, Peugeot Boxer and others (Immo - 93C56); VAG various models (ECU - 95040, 95320); Kia and Hyundai various models with SMARTRa ICM (ECU - 95040); BMW models (EWS III - 68HC11EA9). Update of help files - added secret codes for Honda and Acura models, additional information. Update of ICC dongle algorithms for Honda and Acura models by VIN. Update of ICC Dongle Tool for checking of new installed modules.

2007.10.28 - Version 1.1.6 is released: added pin codes by dump for Opel / Vauxhall / Chevrolet Meriva, Corsa C, Holden Barina and familiar models (BCM - 93C66); PSA various models (BSI, 8 types - 95040, 95128, 95160, 95256); Fiat Ulysse, Multipla and familiar models (BSI - 912DG128; Immo - HC908AZ32); VAG various models (Dash - 68HC912D60, 68HC912DG128); Chrysler Pacifica and familiar models (Immo - 95080); Mitsubishi Outlander and familiar models (Immo - 24C01). Update of autodetection masks for VAG models (Immo Box - 93C56, ECU - 95080); PSA models (various units). Update of list with default pin codes for Mitsubishi Eclipse, Galant, L400, Pinin, Shogun, Sigma, Space Wagon, Magnum, Endeavor, Lancer Evolution. Showing of BCM serial number when calculating codes for Nissan and Infinity models by dump from BCM - 93C66. Update of help files, new pictures of various electronic modules supported by ICC, minor corrections.

2007.10.07 - Version 1.1.5 is released: added pin codes by dump for Mazda 323, 626, MX-5 and familiar models (ECU - 93C56, two types); VAG various models (Immo - 24C02; ECU - 95320); Renault Megane / Scenic various types (Immo - HC05B16, three types); PSA various models (BSI - 95128, 912DG128); Fiat Panda II and familiar models (BSI - 912DG128); Iveco various models (ECU - 24C16). Update of autodetection masks for PSA models (ECU - 95160); Iveco models (Immo - 93C56); Fiat, Alfa Romeo, Lancia models (BSI - 912DG128); Renault, Dacia models (Immo - 93C46). Update of help files, new pictures of various electronic modules supported by ICC, corrections. Minor update of ICC Dongle Tool. Minor changes in software protection - problem when ICC software was not able to run on some systems is fixed.

2007.09.14 - Version 1.1.4 is released: added pin codes by dump for Renault Megane II, Scenic II with 12 digits codes (UCH - 68HC912DG256); Lancia Kappa, Alfa Romeo 145 / 146 / 155 / 164 / GTV / Spider, Fiat Coupe / Croma and familiar models (Immo - 93C46). Minor improvement of autodetection masks for Alfa Romeo models. Update of help files, new pictures of various electronic modules supported by ICC, additional information and minor corrections. Update of ICC Dongle algorithms for Renault / Dacia by dump of EEPROM from UCH for models with 12 digits codes. Update of ICC Dongle Tool for checking of new installed modules.

2007.09.09 - Version 1.1.3 is released: added pin codes by dump for Renault Megane, Scenic with 8 digits codes (UCH - HC05B6/16/32); Iveco Daily, Truck (Immo - 93C56); Lancia Delta and familiar models (Immo - 93C46); Fiat Seicento, Doblo, Stilo, Punto and others (ECU - 95080, 95160); Peugeot 407, Citroen C5 and familiar models (BSI - 95128, 95256); VAG various models (Dash - HC912D60). Minor improvement of autodetection masks for PSA, Fiat, Mitsubishi, BMW, Opel, Isuzu, Rover models by dump. Support of Motorola S-Record (\*.s19) file format for pin codes by dump. Update of help files, added new pictures of various electronic modules supported by ICC. Update of ICC Dongle algorithms for Alfa Romeo / Iveco, Renault / Dacia by dump of EEPROM. Update of ICC Dongle Tool for checking of new installed modules.

2007.08.18 - Version 1.1.2 is released: added decryption of VIN (for information purpose only) from EWS dump when calculating keys password for BMW models. Pin codes by dump for KIA and Hyundai models with SMARTRA ICU (ECU - 95040); various models of Opel (ECU - MC68HC11F1). Update of autodetection masks for pin codes by dump for various models of Skoda (ECU - 95040). Update of list with default pin codes for Mitsubishi models, added Montero before 2004. Help file with examples of code calculation and pictures of electronic modules. Update of ICC Dongle Tool for using help files via "F1" key.

2007.08.06 - Version 1.1.1 is released: added pin codes by dump for Fiat Tempra, Marea, Punto, Bravo, Palio, Tipo, Cinquecento, Siena, Ducato II and other models (Immo - 93C46, HC05E6; ECU - 24C02, 95C08, HC11F1); Alfa Romeo 146 / 156, Lancia Lybra (ECU - 24C04, ST95P08); Citroen Jumper II / Relay II, Peugeot Boxer II and familiar models (ECU - 95P08); Iveco Daily and familiar models (ECU - 95640). Update of ICC Dongle algorithms for Fiat, Iveco, PSA II-III and others by dump of EEPROM. Update of ICC Dongle Tool for checking of new installed modules. Bugfix of autodetection masks for Fiat / PSA II-III models by dump.

2007.08.02 - Version 1.1.0 is released: added pin codes by dump for Renault Kangoo, Master, Clio Mk2 Phase1 (Immo - 93C46); various modifications of Citroen Xsara Picasso / C5, Peugeot 307 / 406 / 407 / 1007 (BSI - 95160, 95128; ECU - 95080); various models of Opel and Vauxhall (ECU - 95320); various models of VAG (ECU - 95080, 95160, 95320); keys password for various models of BMW with EWS 2/3 (EWS - 68HC11EA9). Update of autodetection masks for Chrysler, Dodge, Plymouth, Jeep models (Immo - 68HC908AZ32); Isuzu Rodeo, Opel Frontera (Immo - 93C46, 2 types); Fiat Punto, Ducato 2, Citroen Relay 2 / Jumper, Peugeot Boxer 2 (Immo - 93C56, 93C66); Audi various models (Immo - 93C56). Bugfix of pin codes by dump for Fiat Punto 2 and familiar models (Immo - 93C66); Peugeot 307 and various models with keypad immobilizer (BSI - 95160, Keyboard - 93C46). Update of ICC Dongle algorithms for Renault Megane, Kangoo, Master, Clio by dump; VAG - 724 Secret Key Code Converter. Support of various file formats, such as - E2P file format used by PonyProg (\*.e2p), Intel 8-bit HEX file format used by many programming devices (\*.hex), ASCII HEX file format (\*.txt), ETL EEF file format used in ETSmart (\*.eef). Minor bugfix of ICC Dongle Tool.

2007.07.05 - Version 1.0.9 is released: added pin codes by dump for Renault Twingo, Espace, Megane (Immo - 93C46, HC705B16); various modifications of Fiat Punto, Doblo, Ducato3 and familiar models (BSI - 93LC66, 95C160); VW LT35, Golf4, Passat B5 and other models (Immo - HC705, ECU - 95080, Dash - HC711KG2); Alfa Romeo 156 and familiar models (Immo - 93C56); various modifications of Citroen C3, Jumper3, Relay3 (BSI - 95C160); Opel Frontera and familiar models (Immo - 93C46, ECU - 24C04); various models of Peugeot with keypad immobilizer, Boxer3 (Keyboard - 93C46, two types; BSI - 95C160); Volvo 850 and familiar models (Immo - 93C46). Minor update of autodetection masks for pin codes by dump for Mazda (Immo - 68HC705), VAG models (Dash - 93C66, HC711KG4), Peugeot (Keyboard - HC705). Update of list with default pin codes for Mitsubishi vehicles (Space Star before 2004 year).

2007.06.15 - Version 1.0.8 is released: added Pin codes by dump for various models of VAG with Immo-2 and Immo-3 (VDO Dash - 93C66, 93C86); various modifications of Peugeot 206, 406, 607 and Citroen Berlingo (BSI, ECU); Rover 25, 216, 220, 420 and familiar models (BCM - 93LC66; Immo - HC705B8, HC705B16); Fiat Bravo (Immo - HC705E6); Jeep Grand Cherokee and familiar models (Immo - 24C02). Bugfix of code by dump from Keypad for Peugeot 406, 605 and familiar models. Minor update of Chrysler, Dodge, Plymouth, Mitsubishi autodetection masks for codes by dump. Bugfix / update of pin codes by dump for Suzuki Wagon R (Immo - TMS370, ECU - 93C56). ICC Dongle Tool for adding new algorithms, checking of installed modules and swithcing dongle between HID and USB mode.

2007.05.31 - Version 1.0.7 is released: minor bugfix of Audi VDO Decryption subroutine. Pin code by dump for Mazda 121 and familiar models (Immo - Motorola HC705B16); Peugeot 206, 307, 605 / Citroen Berlingo various modifications (BSI, ECU, Keypad); Citroen Jumper, Fiat Ducato and familiar models (Immo Box - 93LC56); Audi various models with Magneti Marelli Dashboard; Skoda Octavia 2 and familiar models (ECU - 93C86); Mitsubishi Lancer, Carisma (Immo Box - 24C01, 93C46). Major improvement of autodetection algorithms for pin codes by dump.

2007.05.22 - Version 1.0.6 is released: minor bugfix of autodetection masks for codes by dump for all supported models; immobilizer codes by dump for various models of VW (Dash - 93C86, ECU - 95040), Nissan & Infinity (BCM - 93C66, ICU NATS4 - TMS370C032), Audi various models (Magneti Marelli Dash - Motorola HC912), Citroen Picasso / Berlingo / C3 / C5 / Saxo (BSI, EDC15, EDC16), Peugeot 206 / 307 / 406 (BSI, ECU), Seat Ibiza and familiar models, Mitsubishi Galant / Pajero and familiar models (Immo Box - 24C01).

2007.05.12 - Version 1.0.5 is released, added PIN Codes by dump of EEPROM for Audi models made after 2001 (VDO Dashboard - 93C86 Crypted), Renault Clio / Laguna (Valeo - 93C46), Renault Laguna II type1 and type2 (Sagem - MC68HC912DG128).

2007.04.27 - Version 1.0.4 is released: added KIA & Hyundai Key Code to Tumbler Code converter; Various models of Opel, Nissan, Infinity, VW, Skoda, Chrysler, Mazda by dump of eeprom.

2007.04.23 - Visitors of Automotive Trade Show in Birmingham can take a look on our Immo Code Calculator on stand of OBD Systems Ltd - #1506. We have no time to be on this show, sorry.

2007.04.18 - Version 1.0.3 is released: added KIA & Hyundai Key Code to Tumbler Code (cut depths) converter, Mitsubishi fixed codes for various models. Fixed crash under Windows NT/2K.

2007.04.11 - Version 1.0.2 is released: added Mitsubishi fixed codes, VW EDC15 / EDC16 logins from dumps. Bugfixed "Error reading file" in some cases.

2007.04.02 - Stock of ICC dongles is programmed and prepared. Advertising campaign is finished. All customers who ordered ICC in time of this campaign will receive sets in few days.

2007.03.22 - Launched home page of ICC. USB dongles will be completely programmed and ready to ship at the beginning of april. You can get a discount by placing your order till march 31.

2007.03.14 - VAG 7 to 4 digits pin code converter is added to ICC. It can recovery 4 digits pin code from crypted 7 digits code using date of issue, dealer no and importer code.

2007.02.28 - First version of ICC is developed. We are start on porting of all immobilizer secret algorithms used in Immo Code Calculator into USB dongle based on smart card chip.

## A brief history

From november of 2006 we are developed three immobilizer pin code calculators - RIC for Renault and Dacia vehicles, NIC for Nissan and Infinity vehicles, KIC for Kia and Hyundai cars. Major part of ICC functions is based on these researches. We are first who developed and integrated multiple lost keys solutions in to one product and now we are investing much more of our resources to stay as leader in this field of automotive engineering.

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