

Kia Reprogramming User Guide

Version 1.0

May 2011

Foreword

This document describes DG Technologies VSI-2534, a SAE J2534 Pass-Thru device, with its primary purpose to program automotive ECUs (Electronic Control Units). It provides module programming for development, end-of-line testing and re-programming. This document shows the general procedures for purchasing, installing and using the OEM programming application with the VSI-2534 Pass-Thru device. Because the procedures are generic in nature, this may not capture every screen or every scenario for each and every vehicle. For any screen, read the directions on the screen and proceed as indicated. Programming is vehicle specific and directions may vary. All documentation is subject to change at any time. Any and all OEM documentation should be read in its entirety along with the vehicle Service Manual prior to programming.

The VSI-2534 is also useful for vehicle diagnostics, development, general design, hardware in-the-loop simulation and anywhere communications with a vehicle network are required.

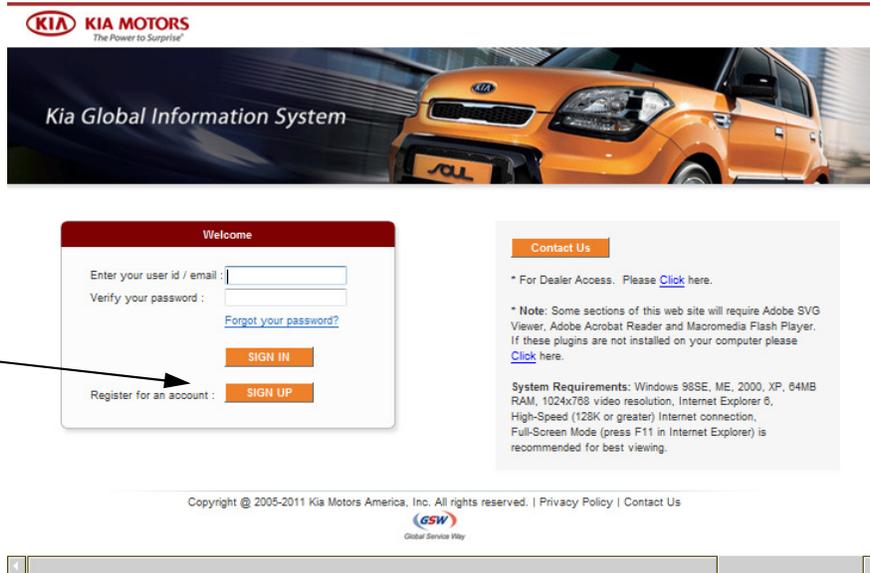
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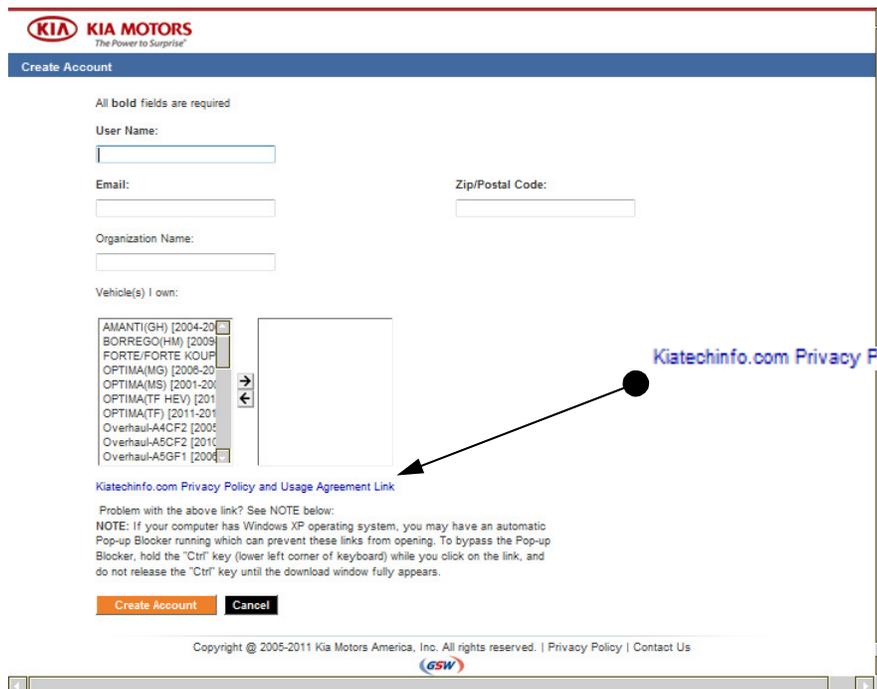
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33604 West Eight Mile Road
Farmington Hills, MI 48335
Phone (248) 888-2000 • Fax (248) 888-9977

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Registration & Installation (pg. 2-7)



- Got to www.Kiatechinfo.com and click on “SIGN UP”.



- Fill out applicable information and click on “HMA Service Privacy Policy and Usage Agreement Link”.

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The screenshot shows a webpage with several sections of service information. A large white box with a black border is overlaid on the page, containing the text:
 I agree to the full extent of the Kiatechinfo.com Privacy Policy and Usage Agreement
 Click to check above box to confirm your agreement
 Below this box, there are several sections of text, including:
 7.B. Service Information and Procedures (Tools & Equipment)
 7.C. Service Information and Procedures (Parts Replacement)
 7.D. Service Information and Procedures (Warnings, Cautions and Notices)
 7.E. Service Information and Procedures (Warrantable Service Responsibilities)
 At the bottom of the page, there is a 'Close' button in an orange box. A black arrow points from the 'Close' button to the instruction below.

- Read through Agreement, click on the “check box” and click on “Close”.

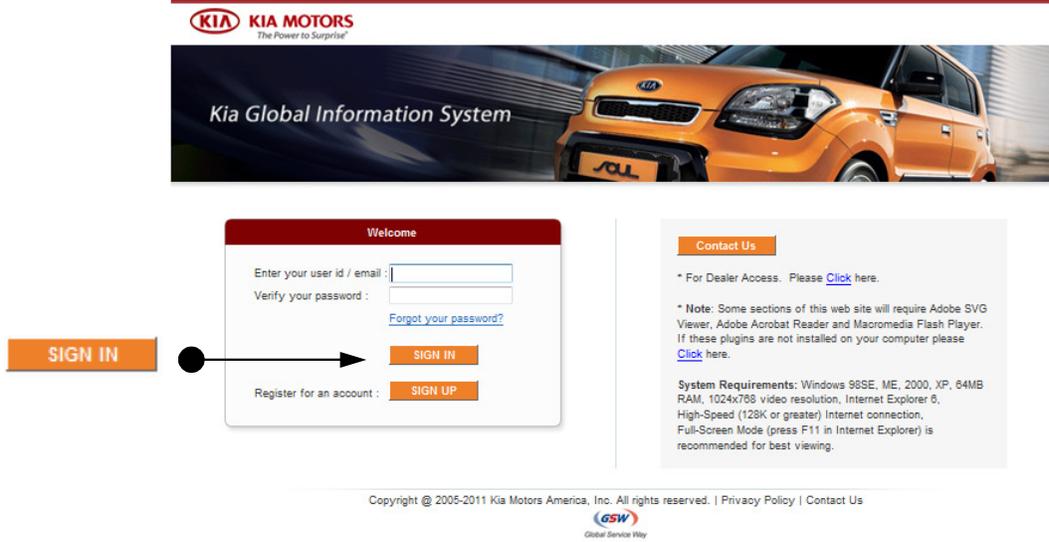
The screenshot shows the 'Create Account' form on the Kia Motors website. The form includes the following fields:
 - User Name:
 - Email:
 - Zip/Postal Code:
 - Organization Name:
 - Vehicle(s) I own: A dropdown menu with options like AMANTI(GH) [2004-2005], BORREGO(HM) [2005], FORTE/FORTE KOUF, OPTIMA(MG) [2005-2006], OPTIMA(MS) [2001-2004], OPTIMA(TF-HEV) [2011], OPTIMA(TF) [2011-2012], Overhaul-A4CF2 [2005], Overhaul-A5CF2 [2010], Overhaul-A5GF1 [2004].
 Below the form, there is a 'Create Account' button in an orange box and a 'Cancel' button. A black arrow points from the 'Create Account' button to the instruction below.

- Fill out required information and then click on “Create Account”.

The screenshot shows the confirmation page after account creation. It features the Kia Motors logo and the text:
 Thank you for registering with Kia Global Information System.
 You will receive an email with your username and password shortly
 Below this text is a 'Back to login page' button in an orange box. A black arrow points from the button to the instruction below.

- Click on “Back to login page”. **Note:** a separate email will be sent with the username and password.

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KIA KIA MOTORS
The Power to Surprise™

Kia Global Information System

Welcome

Enter your user id / email :

Verify your password :

[Forgot your password?](#)

SIGN IN

Register for an account : **SIGN UP**

Contact Us

* For Dealer Access. Please [Click](#) here.

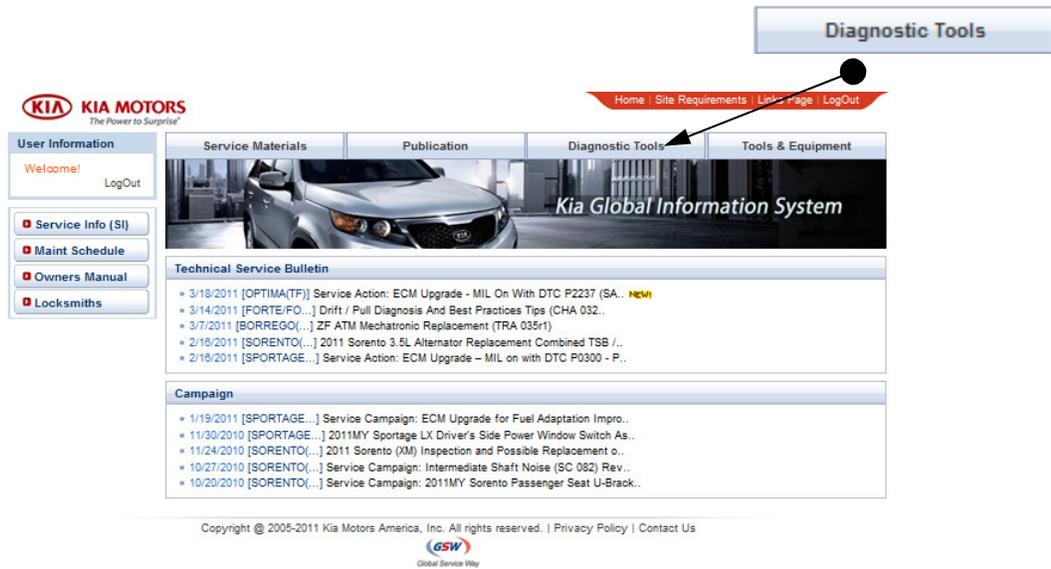
* Note: Some sections of this web site will require Adobe SVG Viewer, Adobe Acrobat Reader and Macromedia Flash Player. If these plugins are not installed on your computer please [Click](#) here.

System Requirements: Windows 98SE, ME, 2000, XP, & 64MB RAM, 1024x768 video resolution, Internet Explorer 8, High-Speed (128K or greater) Internet connection, Full-Screen Mode (press F11 in Internet Explorer) is recommended for best viewing.

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GSW
Global Service Way

- Enter “user id/email” and “password” (from email sent) and click on “SIGN IN”.



KIA KIA MOTORS
The Power to Surprise™

Home | [Site Requirements](#) | [Link Page](#) | [LogOut](#)

User Information

Welcome! [LogOut](#)

[Service Info \(SI\)](#)

[Maint Schedule](#)

[Owners Manual](#)

[Locksmiths](#)

Service Materials | **Publication** | **Diagnostic Tools** | **Tools & Equipment**

Kia Global Information System

Technical Service Bulletin

- 3/18/2011 [OPTIMA(TF)] Service Action: ECM Upgrade - MIL On With DTC P2237 (SA.. [New!](#)
- 3/14/2011 [FORTE/FO...] Drift / Pull Diagnosis And Best Practices Tips (CHA 032..
- 3/7/2011 [BORREGO(...)] ZF ATM Mechatronic Replacement (TRA 035r1)
- 2/16/2011 [SORENTO(...)] 2011 Sorento 3.5L Alternator Replacement Combined TSB /..
- 2/16/2011 [SPORTAGE...] Service Action: ECM Upgrade - MIL on with DTC P0300 - P..

Campaign

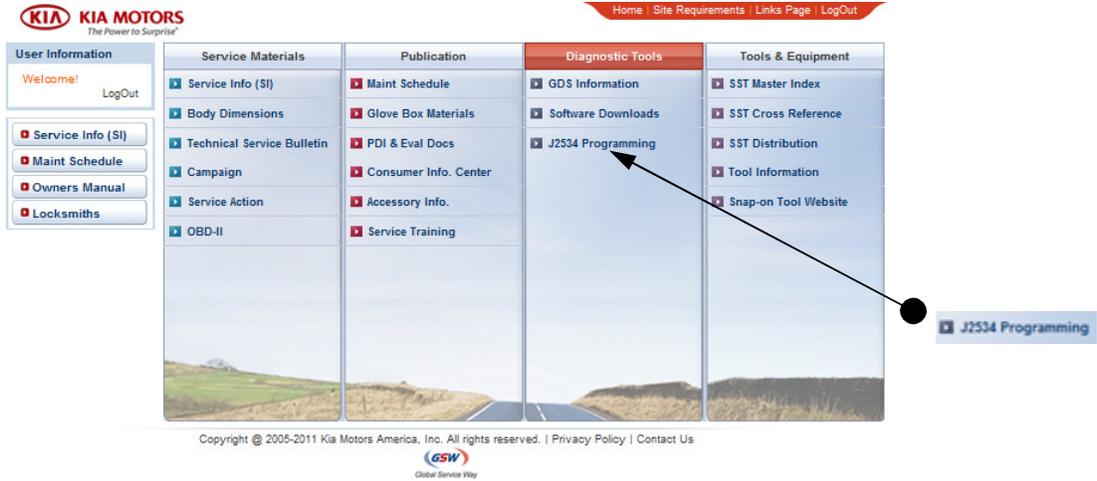
- 1/19/2011 [SPORTAGE...] Service Campaign: ECM Upgrade for Fuel Adaptation Impro..
- 11/30/2010 [SPORTAGE...] 2011MY Sportage LX Driver's Side Power Window Switch As..
- 11/24/2010 [SORENTO(...)] 2011 Sorento (XM) Inspection and Possible Replacement o..
- 10/27/2010 [SORENTO(...)] Service Campaign: Intermediate Shaft Noise (SC 062) Rev..
- 10/20/2010 [SORENTO(...)] Service Campaign: 2011MY Sorento Passenger Seat U-Brack..

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- Hover the mouse over “Diagnostic Tools” ...

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Home | Site Requirements | Links Page | LogOut

User Information
Welcome! LogOut

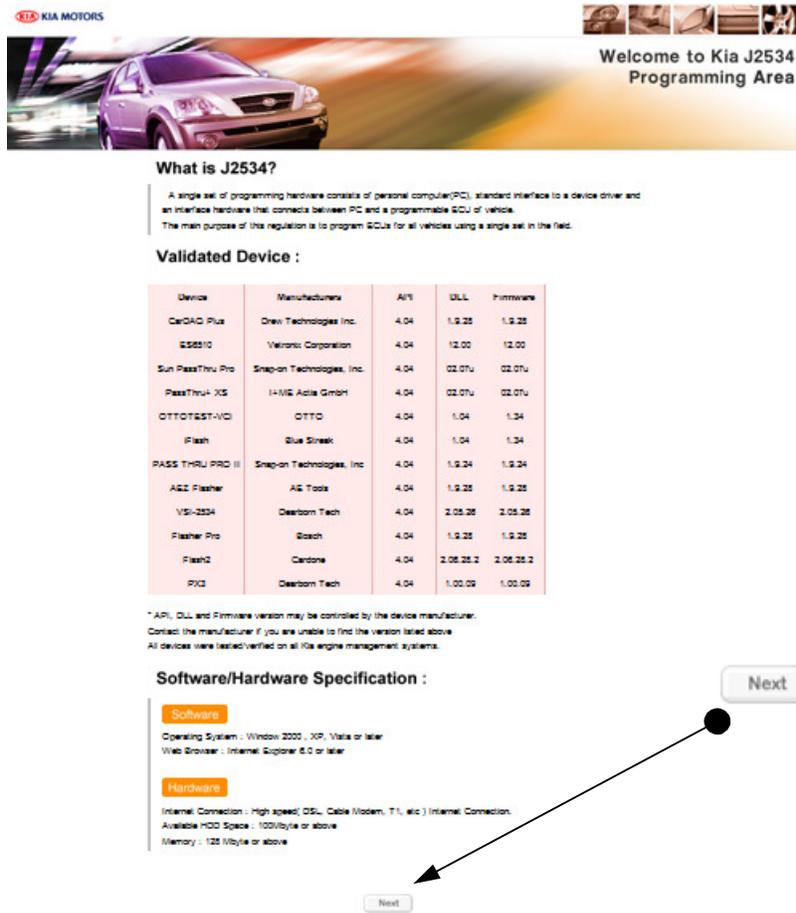
- Service Info (SI)
- Maint Schedule
- Owners Manual
- Locksmiths

Service Materials	Publication	Diagnostic Tools	Tools & Equipment
Service Info (SI)	Maint Schedule	GDS Information	SST Master Index
Body Dimensions	Glove Box Materials	Software Downloads	SST Cross Reference
Technical Service Bulletin	PDI & Eval Docs	J2534 Programming	SST Distribution
Campaign	Consumer Info. Center		Tool Information
Service Action	Accessory Info.		Snap-on Tool Website
OBD-II	Service Training		

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- ...then, click on “J2534 Programming”.



KIA MOTORS

Welcome to Kia J2534 Programming Area

What is J2534?

A single set of programming hardware consists of personal computer(PC), standard interface to a device driver and an interface hardware that connects between PC and a programmable ECU of vehicle. The main purpose of this regulation is to program ECUs for all vehicles using a single set in the field.

Validated Device :

Device	Manufacturers	API	DLL	Firmware
CarDAQ Plus	Orion Technologies Inc.	4.04	1.2.25	1.2.25
SS510	Vericom Corporation	4.04	12.00	12.00
Sun PassThru Pro	Snap-on Technologies, Inc.	4.04	02.01u	02.01u
PassThru- X5	IL-NG Actia GmbH	4.04	02.01u	02.01u
OTTOTEST-VD	OTTO	4.04	1.04	1.34
Flash	Blue Streak	4.04	1.04	1.34
PASS THRU PRO II	Snap-on Technologies, Inc.	4.04	1.2.24	1.2.24
AGE Flasher	AGE Tools	4.04	1.2.25	1.2.25
VSI-2534	Dearborn Tech	4.04	2.05.25	2.05.25
Flasher Pro	Boach	4.04	1.2.25	1.2.25
Flash2	Cardone	4.04	2.05.25.2	2.05.25.2
FX3	Dearborn Tech	4.04	1.00.09	1.00.09

* API, DLL and Firmware version may be controlled by the device manufacturer. Contact the manufacturer if you are unable to find the version listed above. All devices were tested/verified on all Kia engine management systems.

Software/Hardware Specification :

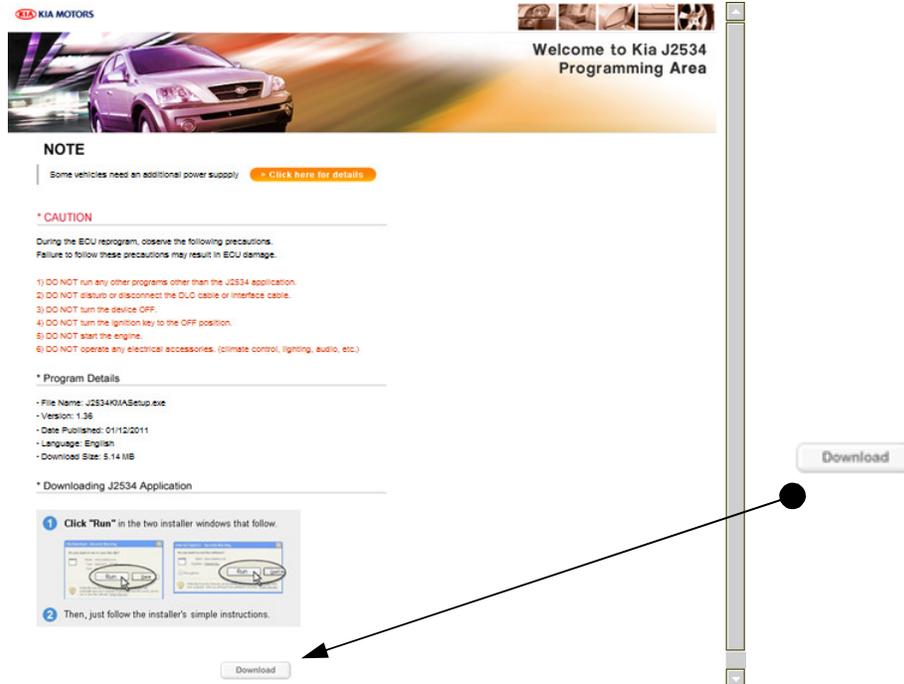
Software
Operating System : Windows 2000, XP, Vista or later
Web Browser : Internet Explorer 6.0 or later

Hardware
Internet Connection : High speed DSL, Cable Modem, T1, etc.) Internet Connection.
Available HDD Space : 100/byte or above
Memory : 128 Mbyte or above

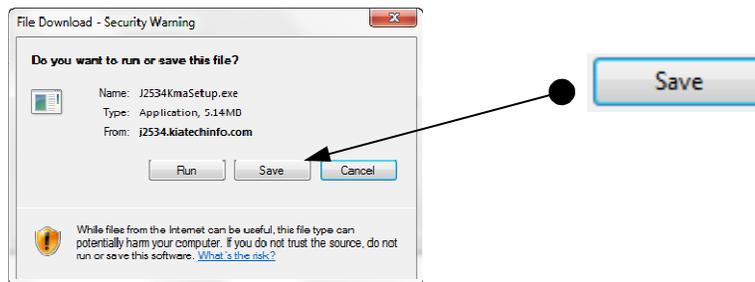
Next

- Scroll to bottom of page and click on “Next”.

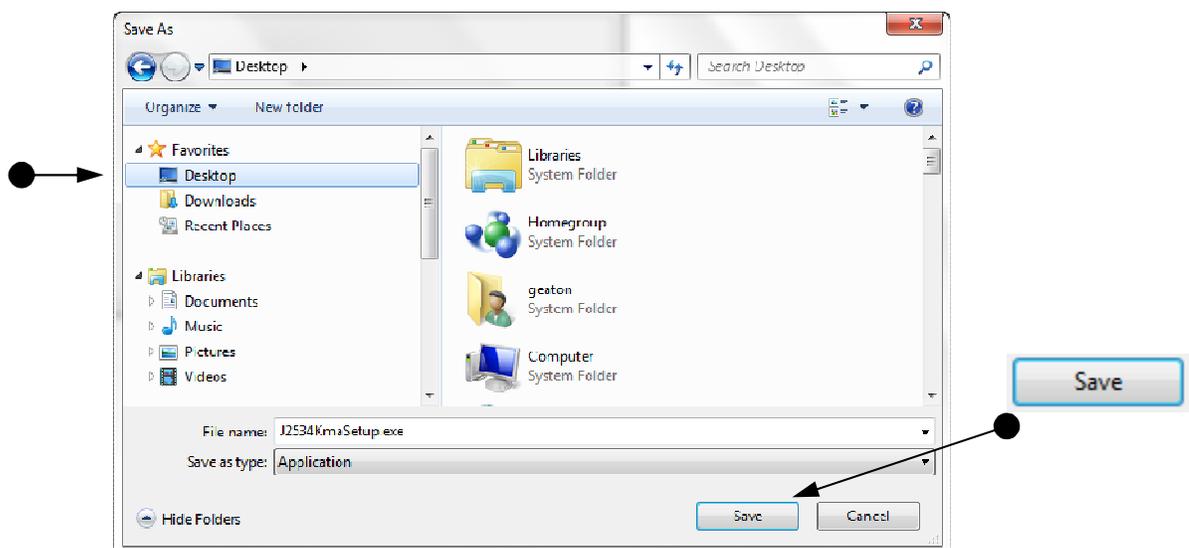
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- Scroll to bottom of page and click on “Download”.

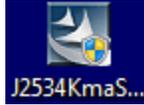


- Click on “Save”.

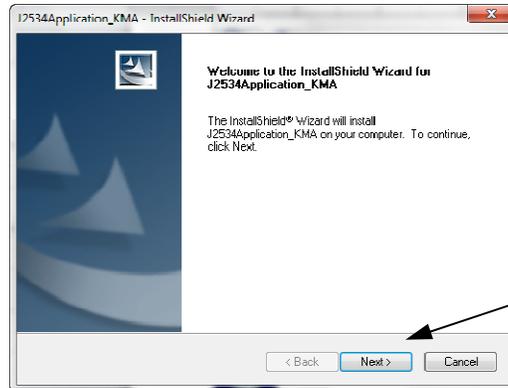


- It is recommended to save the file to the desktop. Click “Save”.

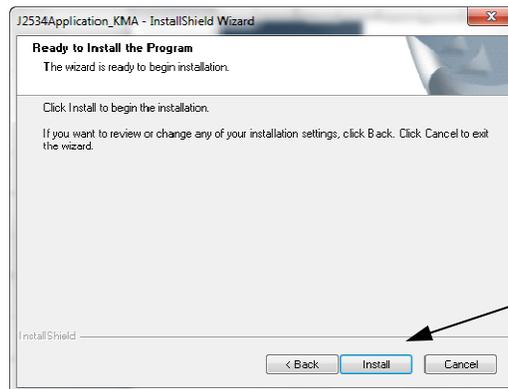
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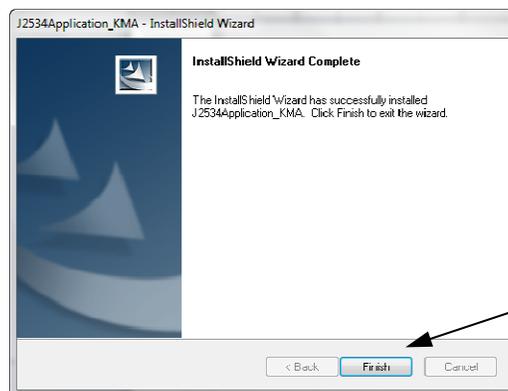
- Locate icon on Desktop and double-click on it.



- Click on "Next".



- Click on "Install".



- Click on "Finish".

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Reprogramming (pg. 8-11)



- Locate icon on Desktop and double-click on it.

NOTE
Some vehicles need an additional power supply [Click here for details](#)

*** CAUTION**
During the ECU reprogram, observe the following precautions.
Failure to follow these precautions may result in ECU damage.

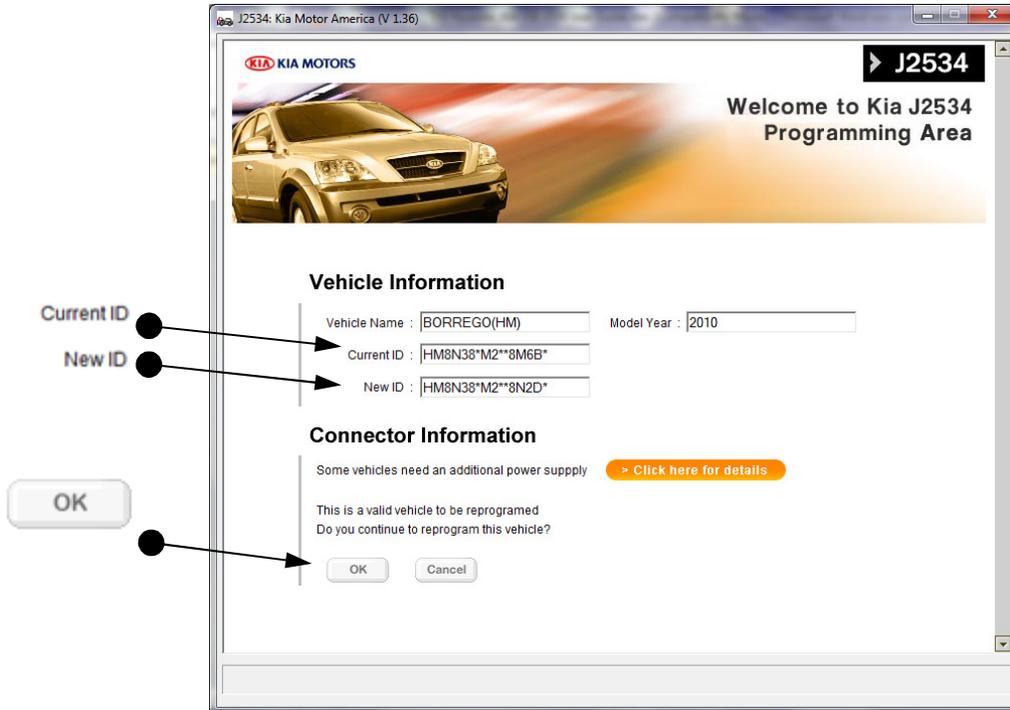
- 1) DO NOT run any other programs other than the J2534 application.
- 2) DO NOT disturb or disconnect the DLC cable or interface cable.
- 3) DO NOT turn the device OFF.
- 4) DO NOT turn the ignition key to the OFF position.
- 5) DO NOT start the engine.
- 6) DO NOT operate any electrical accessories. (climate control, lighting, audio, etc.)
- 7) Click [OK] button to continue (Click [Cancel] button to exit) .

See "Note" below.

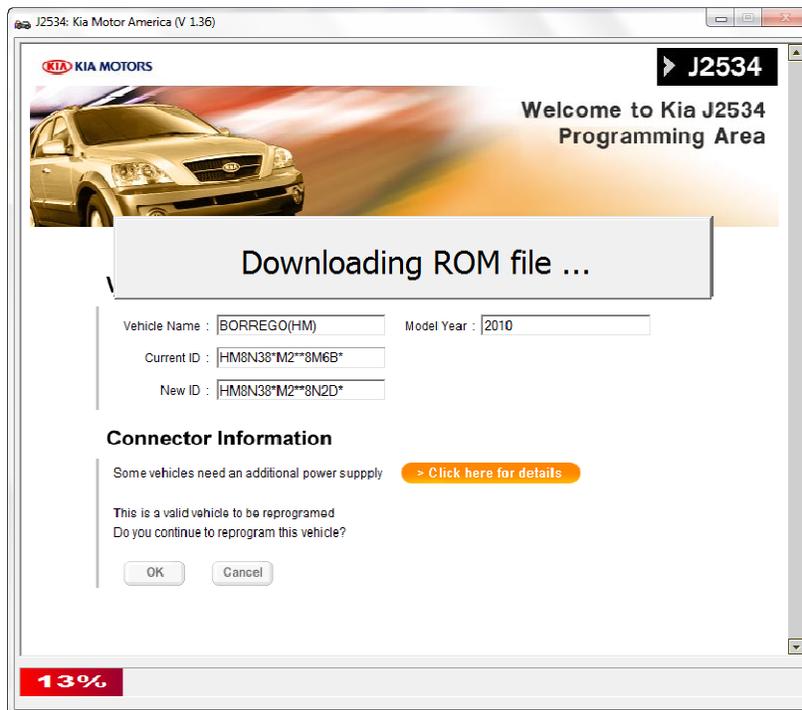
- Read screen carefully and take appropriate action. Note: There are select vehicles that do not have a traditional J1962 connection. Information is provided on this link showing instruction for manual pin connections from the J1962 connector cable provided with the tool to the respective connector on the vehicle. Ensure these connections are secure.



- Be sure VSI-2534 device is securely connected to the vehicle and PC, the ignition switch is "On" and then click "OK".

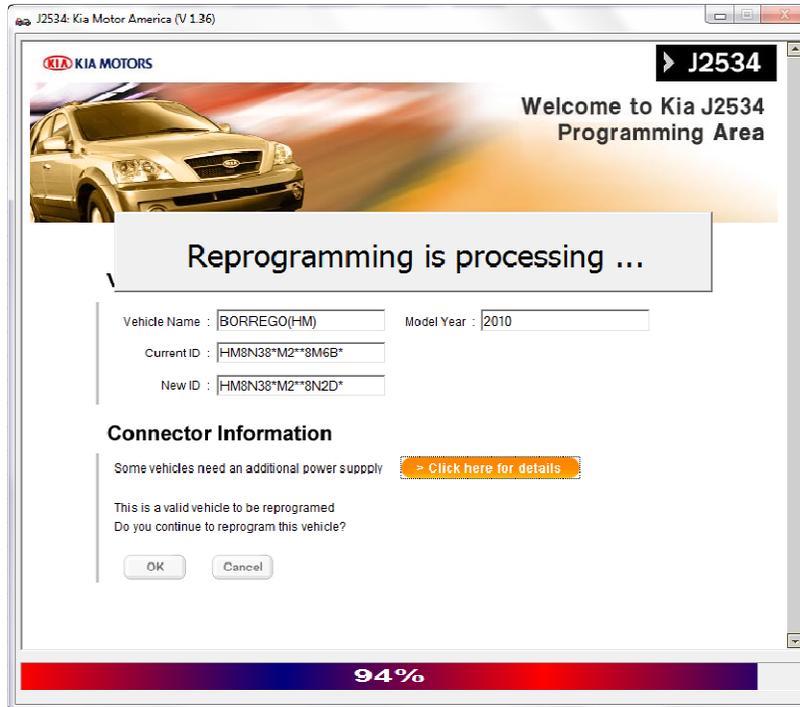


- Vehicle has been identified and information shows a “New ID” is available. Click on “OK” to being the Reprogramming process.

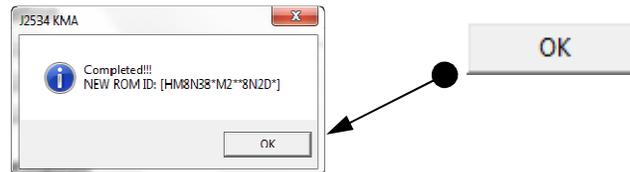


- Downloading ROM file...wait...

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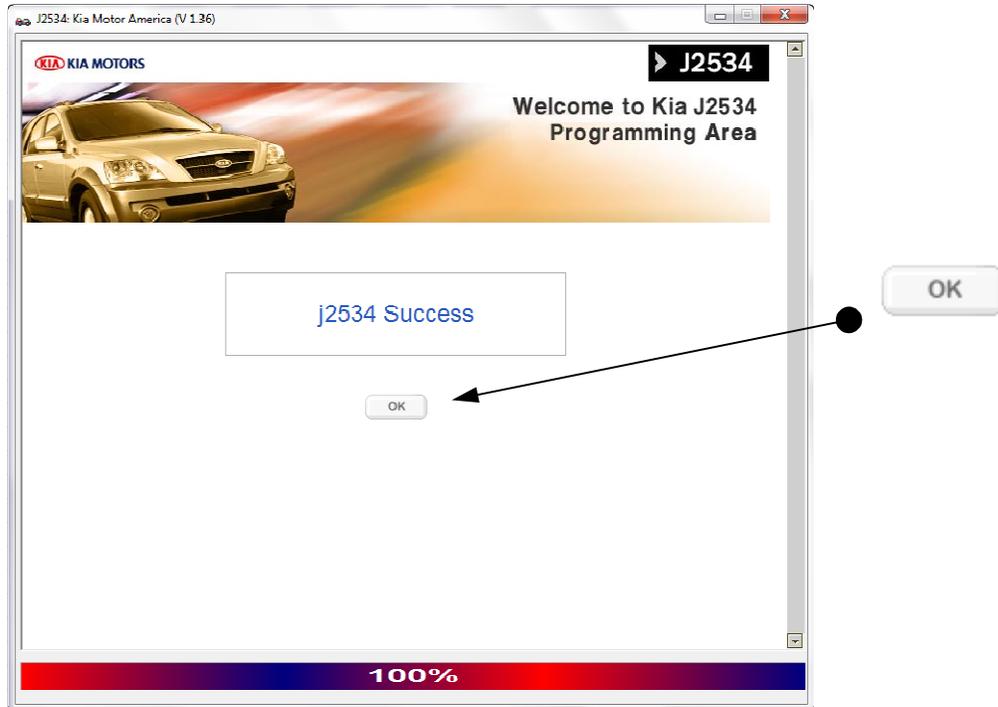
- Reprogramming...wait....



- Programming is complete. New Calibration file shown. Click on “OK” to continue.



- DTC's must be cleared. Click on “OK” to continue.



- Success! Click on “OK” to close out of the programming process.