

# Toyota Reprogramming User Guide

### Version 1.0

### April 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 reprogramming. 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.

## **Table of Contents**

- Registration & Subscription (pg. 2-4)
- CUW / VUW Download & Installation (pg. 5-12
- Toyota Reprogramming (pg. 13-22)

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### Software download and CUW/VUW installation (pg. 5-8)

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- A new "Key" will be displayed. Double-click on the "Key" string, right click and select "copy". Then go back to the "Register Techstream Software" screen.



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• To install the "VUW", go back to the web browser, which should still be open, and under the "TIS" and "Diagnostics" tabs, find the "VUW" install program and click on it.



Click on "Save".



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• Locate this icon on the Desktop and double-click on it.





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**Toyota Programming** 

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C	ear Login 🔒			TIS is available on a su ubscribe button above		ick the		professionals registered with the NASTP Professional Registry, For more inform
	Forgot User Name or Password?		1			1		Professional Registry. For more inform
What Is TIS						Professio	nal Resources	
The Technical Jose	rmation System or TIS is your service supp	and source for all T	ouste and used web	der merketed in North	Amazina TIS			e
	vital information you'll need to effectively							
TIS is available in	three different levels. The table below sun	nmarizes the featu	res of each subscript	on level.		Tec	hstream Lite Kit	
	TIS Library	Standard	Professional	Security		2	🖉 & 🏹 + 🌉 = techstr	ream))
	Service Bulletins		Diagnostic	Professional		Techst	ream Mongoose Your PC	
	Repair Manuals					Softw	vare MFC VIM	
	Wining Diagrams						arvice Information and Diagnostics for your shop!	
	Other Technical Information					Need on in	expensive solution for disgnosing & repairing Toyota, Scion,	and Lexus vehicles?
	Scan Tool / Reprogramming	_	-	_		The NEW T	echstream Lite Kit allows you to use your own PC with Tech	hstream Software.
	Techstream Software			0				>>Learn More Al >>Scantools & Vet
	ECU Calibrations	1		9				
	Security					Find a Deal	ership near you for a full selection of Genuine Parts and Acc	cessories.
	Key Codes			-				
	Key Codes Immobilizer / Smart Reset			0				
	Immobilizer / Smart Reset			a	>>Learn More		woul factory authorized parts and repair at Toyota's new With	olessie Parts website. Or use the locator form to
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• Sign into the Toyota Information System (TIS).

My Account	Recent Tech Tips & Service Bulletins
Welcome parwellel	Toyota/Scion Laxus
I below are the details for your active subscriptions	11/22/2010 T-TT-0060-10: All Models: Adhesive & Sealant Cross Reference Information
Subscription Type Start Date Expiration Date	11/18/2010 S-TT-0017-10: All Models: Adhesive & Sealant Cross Reference Information
Professional Disgnestics 06/30/2010 07/01/2011	11/17/2010 T-SB-0322-10: 09-10 Matrix: Back Door (Rear Hatch) Stay Improvement
right comer of your TIS window.	11/12/2010 T-SB-0314-10: 05-09 Avalon: Intermittent Horn Operation
	11/10/2010 T-TT-0058-10: 2008 - 2011 Sequois: 4WD System Disgnosis
My Documents	11/05/2010 T-TT-0057-10: 2011 Sienna: Overhead Console Removal Helpful Hints
Favorites      Last Visit	11/05/2010 T-SB-0310-10: 09-10 Corolla: Shift Lever Cover Slide Binding Feeling
You do not have any favorite documents.	11/02/2010 T-SB-0297-10: 07-10 Tundra: Rear Differential Housing Oil Baffle Grow//Whine Noise
Technical Assistance	11/01/2010 T-SB-0295-10: '10-'11 Sequoia: Non-Linear Acceleration from a Stop
Check out the all-new technical assistance feature for Toyota. Scion, and Laxua service professionals. Identific Direct-Hit provides	11/01/2010 T-SB-0294-10: 09 Venza (1AR), '10 Camry (2AR): Automatic Transaxle Fluid Leak from Missing Transaxle Plug (U760)
access to the latest quick fix information and offers a technical assistance hotine that guarantees to help you fix the customer's vehicle	10/26/2010 T-TT-0055-10: 2005-2011 Avalon: Rear Sunshade Will Not Retract
Click on the Identifix logo below to access the Identifix Direct-Hit website in a separate browser window.	10/20/2010 T-TT-0054-10: All Models: Best Practices for Brake Fluid
	10/20/2010 T-TT-0053-10: 2010-2011 Seguola,Tacoma,Tundra,LC: Anti-Theft VIN Label Application
DIRECTVIT	10/19/2010 S-TT-0016-10: All Models: Best Practices for Brake Fluid
	10/14/2010 T-TT-0052-10: 2005-2011 Tacoma: 4WD System Diagnosis
What's New in TIS	<pre><ctute come<="" pre=""></ctute></pre>
Vehicle Inquiry Check out this new tab that provides production date and vehicle configuration information as well as relevant service campaign detail	shoving 1 through 15 you has
for the vehicle entered.	
techstream)))	Recent Documents
	Toyota/Scion Lexus Filter ALL
Techstream Lite The NEW Techstream Lite kit allows you to use your own PC with Techstream Software and an	11/23/2010 RM Toyota 2011 Avalon Repair Manual (RM1510U)
inexpensive vehicle interface module.	11/23/2010 CP LSC A0N - Certain 2004-2007 Prius: Electric Hybrid Water Pump Replacement (Technical Instructions
New Electronic Wiring Diagram (EWD) Viewer	11/27/2010 // ISC ADN - Cartain 2004-2007 Delver Flactic Hybrid Water Dumo Papianement (Daslar Letter)



• Click on the "Diagnostics" tab.





Calibrat

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• Click on the "Calibrations" tab.

Home     TIS       O Library     O Diagnostics     O Vehicle Inquiry       ScanTool     Calibrations	( ТОУОТА Нејр Му Ассоилт Logout
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Choose the criteria you would like to search by: Choose the criteria you would like to search by: Division/Model/Year Division: TOYOTA Model: Sienna Year: 2005 Claibration Search Result Calibration Search Result	Toyota ECU Flash Reprogramming Bulletin T-SB-0064-10         New!           A complete guide to reprogramming with TIS Techstream and Techstream Lite.         Note: Some flash reprogramming instances may require the VIN Write procedure after completing the reprogramming event. This procedure can be performed using the VIN Update Wixard (VUM). This software can be downloaded from the Software Downloads section on the ScanTool page.

• Select the method to identify the vehicle and provide the required information, then click on "Search".



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Library	Diagnostics	Vehicle Inquiry			
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Calibration Sea	rch Result	Clear Search	Year / Model / VDS	Market	
30801000 30801100 30801200 30801200 30801300			2005 / Sienna / BA22C 2005 / Sienna / BA23C 2005 / Sienna /		

 Scroll through the listing of available updates. Read and select (click on) the applicable "Document Title".

NGINE "PINGI						September 7, 2006
Calibration dentification	MODEL	MODEL YEAR	DRIVETRAIN	ECM (CPU)	PREVIOUS CALIBRATION ID	NEW CALIBRATION ID
Chart			2WD	Main	30801000 30801100 30801200 30801300 30804000 30806000 30806100	<u>30811000</u>
				Sub	50801000 50801100 50803000	50805000
	Sienna	2004 – 2006	4WD	Main	30802000 30802100 30802200 30802300 30805000 30805000 30807000 30807100	30812000
				Sub	50802000 50802100 50804000	50806000
– 2W	<ul> <li>Calib</li> <li>2W</li> </ul>	ration files disp D = Front Whee D = All Wheel [	el Drive	e Diagnostic	Tester use the follow	ving abbreviations:

 The applicable Technical Service Bulletin (TSB) will open in a new window. Scroll down to the available "New Calibration ID" and click on the appropriate Calibration.





• Click on "Open" to launch the "Calibration Update Wizard (CUW)".

	Vehicle E	CU		
Ca	libration Upo	late Wiza	rd	
	Version 8.10	).1		
This application is designed for	Welcome to Calibration U professional automotive techni		ota, Lexus, and Sci	on vehicles.
NOTE: If you are using a serial mou	se, either plug the diagnostic t mouse and reboot you		COM port or disco	nnect the serial
English 💌		Setup	Next	Cancel
Copyright (C) 2000-2005 TOYOTA MO	TOR CORPORATION. All Rights	Reserved.		
"Next".				



• Select "Generic J2534 Interface" and then "Next".

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•



ĺ	Selibration Update Wizard - Screen S701-06	
	Connect to Vehicle	
, ●	Connect the device as described by the component manufacturer.  Please confirm:  1. J2534 device is connected to PC.  2. J2534 device is connected to the DLC3(J1962) connector.  3. Key ON, Engine OFF  4. Select J2534 device Tool.  Dearborn Group Technology, Inc. VSI-2534  Caution!  Any unsupported device may negatively affect reprogramming performance and potentially damage the ECU. Please see TIS (Technical Information System website at http://techinfo.toyota.com) to confirm that your device and firmware is supported before proceeding with reprogramming.	•
	J2534 Next Cancel	Next

 Turn Key "ON", select "Dearborn Group Technology, Inc. VSI-2534" and click on "Next".

Establishing communication with the vehicle	
Downloading current calibration information from vehicle.	
Please Wait.	
Cancel	

Just wait…

Calibration Update W	izard - Screen S701-09				1
Calibration Sele	ction Confirmation				
ENG & ECT					
Current Calibration:		New Calibration In	formation:		
Current Cal ID	30801200	New Cal ID	30811000		
Current Cal ID	50801100	New Cal ID	50805000		
Current Cal ID		New Cal ID			
,		Issue Date	Aug. 02, 2006		
		Model Name	SIENNA(04-06MY)		
		Model Year	04		
		Engine Type	3MZ-FE		
		Vehicle Type	2WD		
Selected Calib Press NEXT to	ration file is authorized to up continue.	odate this vehicle.			Next
NOTE: Refer the ap	plicable TSB for calibration fi	le information.		-	
		Select New	/ Cal Next	Cancel	

• Review and click on "Next" to continue.

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	Calibration Update Wizard - Screen S701	1-14	
<u>ب</u>	1. Turn Ignition OFF	NOTE: Some vehicles require systems to be disabled before Flash Reprogramming. Please refer to the Specific Service Bulletin for special vehicle preparation instructions required for this update. DTCs may be set during the reprogramming process. Please check for DTCs before reprogramming and note any that are stored. Click the Cancel button to exit CUW and check for DTCs.	Next
	Click "Next" to continue.	Next Cancel	

Turn ignition OFF and click on "Next".



Wait...



• Read information, turn ignition ON and click on "Start".



🐺 CAL1 86% / Calibration U	pdate Wizard - Screen S701-17
Flash Calibration l	Jpdate in Process
	J2534
Estimated Time:	00:22:15
Remaining Time:	00:03:05
CAL 1:	
CAL 2:	
Do not launch or use a Do not disconnect fron	ny other application while reprogramming is in progress. n vehicle.

• Flashing...



• Turn ignition "OFF"... (In this particular Flash event, there are 2 calibrations that need to be Flashed.)

ration Update Wizard - Screen S701-43	
Please wait 10 seconds.	

Wait...

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	Calibration Update Wizard - Screen S70:	I-21		
	Prepare for reprogramming of CAL2			
✓ •	1. Turn Ignition ON (IG ON Ready O	OFF for HV) CAUTION! While reprogramming: 1. Do not disconnect the DLC3 cable from vehicle. 2. Do not turn OFF the IG switch. 3. Do not apply any electrical load to the vehicle.		
	Click "Start" to begin reprogra	mming.		Start
			Start	

• Turn Ignition "ON" and then click on "Start".



• Flashing 2<sup>nd</sup> calibration...

Calibration Update Wizard - Screen S701-22		
Flash Calibration Update Successful		
CAL 1 has been loaded successfully. CAL 2 has been loaded successfully. ON		• 🎢
OFF UN Start 1. Turn Ignition OFF		
Click "Next" to continue.		Next
	Next	

• Turn ignition "OFF" and click on "Next".



Calibration Update Wizard - Screen S701-43	
Please wait 10 seconds.	

• Wait...



• Turn Ignition "ON" and then click on "Start".



Wait…

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Calibr	ration Update Wizard	- Screen S701-26				
	ogramming success se turn IG off.	ful !				
Pleas	se confirm that calib	ration ID has been update	ed as outlined in the specific Se	rvice Bulletin.		
в	Before Update:		After Update:			
	Current Cal ID-1	30801200	Current Cal ID-1	30811000		
	Current Cal ID-2	50801100	Current Cal ID-2	50805000		
(	Current Cal ID-3		Current Cal ID-3			
-						
						Finish
				Print	Finish	
				Fiint		

• "Reprogramming successful!" Click on "Finish".