
Technical Bulletin

Division: Automotive
Category: Technical

Section Title: Transmission
TSB No. TS 02 10111R

SUBJECT: EMISSION SERVICE CAMPAIGN: SQ, REPROGRAMMING OF THE CVT CONTROLLER (TCM).
MODEL(S): KIZASHI (A6B424)
YEAR: 2012

CONDITION: If the battery voltage drops below a certain level during engine cranking within 2 seconds after turning the ignition on, the Transmission Control Module (TCM) will not provide correct control of the CVT fluid line pressure. This condition can result in:

- Very noticeable shock when shifting into “DRIVE” or “REVERSE”
- Limited transmission shifting range
- Disablement of the CVT torque converter lockup clutch
- Possible MIL illumination and storage of a DTC
- Entry in a CVT protection control mode

If the vehicle enters the CVT protection mode due to a rise in CVT fluid temperature, maximum vehicle speed will be limited, to protect the CVT from damage, and the driver will experience slow vehicle acceleration from a standing start.

CAUSE: The CVT controller (TCM) has been programmed with unnecessary control logic.

CORRECTION: DO NOT replace the TCM or CVT transmission! Please reprogram (reflash) the TCM with updated software that has been improved to correct the CVT controller programming. The SEPS database files installed on the PC or laptop being used for reprogramming must be version 2.011.0925 or later.

Technical Service Department
Dealership Circulation – Initial and file:

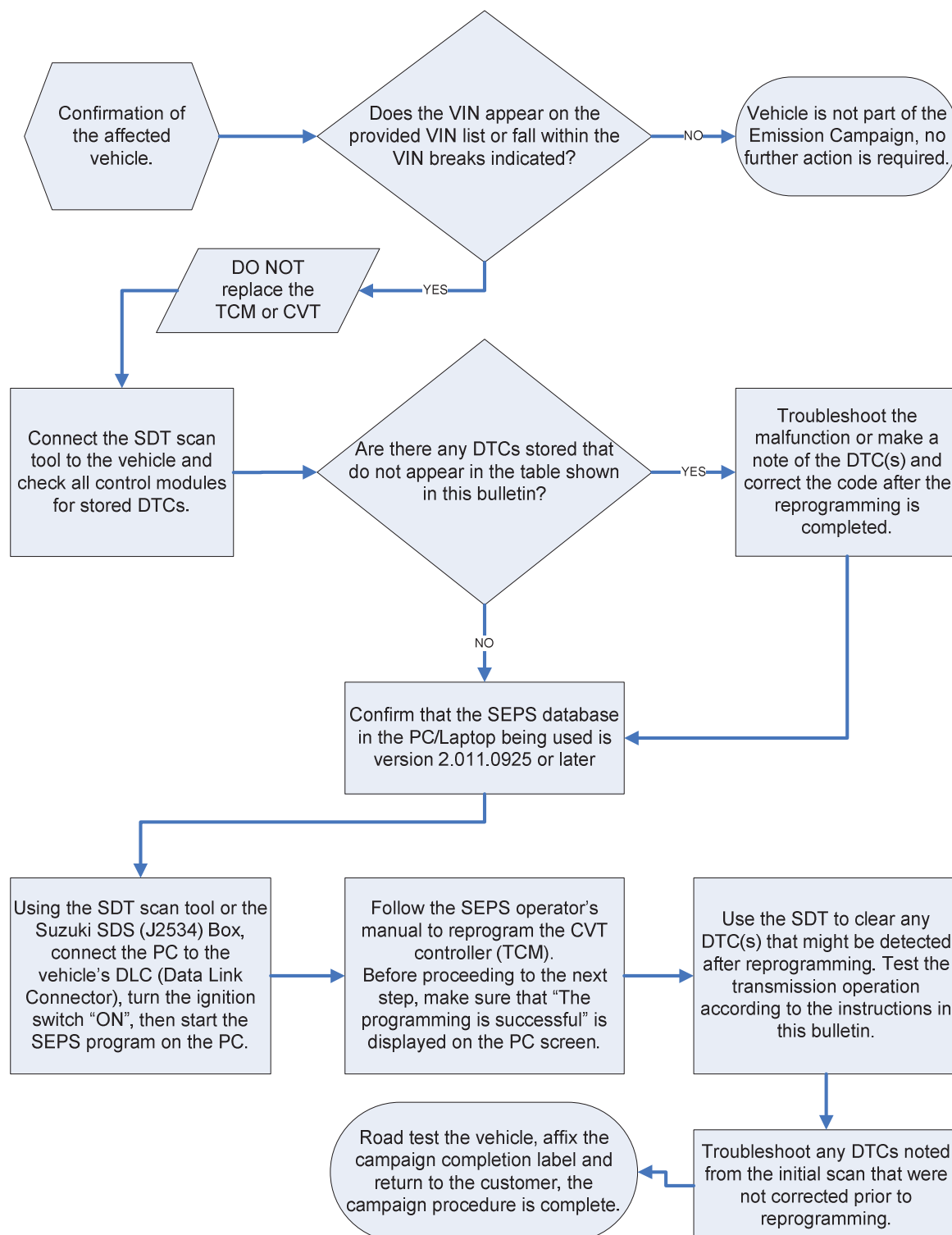
Service Manager	Parts Manager	Service Advisor	Technicians						

Suzuki bulletins are intended for use by professional technicians, NOT a “do-it-yourselfer.” They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, DO NOT assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your authorized Suzuki dealer for information on whether your vehicle may benefit from the information. Suzuki reserves the right to change technical specifications at any time without prior notice.

WARRANTY INFORMATION

Campaign Code	Operation Code	Complaint Code	Defect Code	Labor Time
Please refer to the Campaign Bulletin SC-57R1 for claim submission instructions and labor times.				

WORKFLOW



Model: Kizashi	Section: Transmission	TSB No. TS 02 10111R
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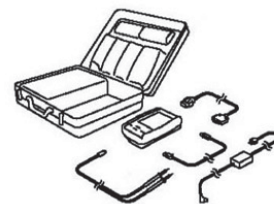
Required Tools

1. PC or Laptop with the SEPS (Suzuki ECU Programming System) software installed and running with database version 2.011.0925 or later.

SDS Kit



SDT Scan Tool



2. J2534 pass-thru device
 - Suzuki SDS Tool Kit (Part number 09910-06520-B)
 - or
 - Suzuki SDT Scan Tool (Part number 95171-00380)

Available on www.SuzukiPitstopPlus.com

ECU Model List (for reprogramming only)

Model	Specification (E33 – US spec)	MY	T/M	Early TCM		Latest TCM *with countermeasure Calibration Data	
				Part No.	Version	Part No.	Version
A6B424	E33	12	2WD CVT	38880-57LB0	0000	38880-57LB1	0001
			4WD CVT	38880-57LC0	0000	38880-57LC1	0001

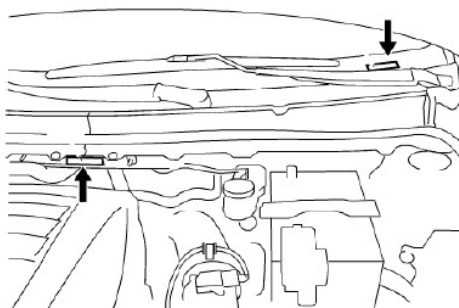
SERVICE ACTION

1. Check the VIN number on the vehicle (see VIN plate location diagram) to the attached VIN list to confirm that it is part of the recall and eligible for reimbursement. If the VIN does not appear in the attached table, stop, this vehicle is not part of the SQ Emission Campaign and not eligible for reprogramming. If the VIN included in the table, continue to the next step.

Vehicle identification number (VIN)

Location: on the cowl top panel in engine room or at the left side of the instrument panel


Kizashi

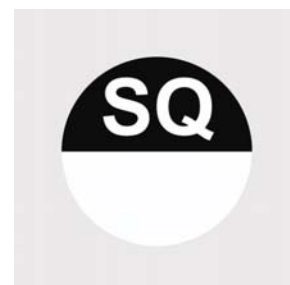


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2. Connect the SDT scan tool to the vehicle and check all controllers for DTCs. Troubleshoot and correct any DTC(s) retrieved, or make a note of those that require further attention to correct these malfunctions after the reprogramming is completed.

Note: Refer to the DTC Table included in this bulletin to identify DTCs that can set under conditions that are common during routine service/repair procedures even though there is no failure. These DTCs do not require additional attention.

3. Clear the DTCs using the SDT.
4. Connect the pass-thru device being used to the USB port of your PC or Laptop.
5. Plug the pass-thru device into the DLC (Data Link Connector) of the vehicle being reprogrammed.
6. Turn the ignition switch to the ON (Run) position leaving the engine OFF.
7. Start the SEPS software program  on your PC, then follow the prompts to select the desired system controller to reprogram and the pass-thru device being used. Once communication has been established between the vehicle controller and the PC, confirm that the proposed system update information matches that listed in the “**ECU Model List**” table included on the previous page of this bulletin. If all the data matches the update requirements continue forward through the software program prompts until the process is complete.
8. Disconnect the pass-thru device from the vehicle.
9. Connect the SDT to the vehicle and check for any DTC(s) which may have been set during the reprogramming process. Again check the DTC table below to for codes that a Technician can expect to find under the conditions of this procedure before clearing the DTC(s).
10. Test the transmission operation by setting the parking brake, starting the engine and with it running at idle speed, make sure there is no shift shock by applying the foot brake and shifting the transmission select lever in the following order: P→R→N→D→N→R→P
11. Troubleshoot any DTC(s) that were previously noted (and not found in the DTC table below) and not corrected prior to completing the reprogramming procedure.
12. Road test the vehicle.
13. Apply the proper campaign label to the upper radiator support in an area where it will be easily seen and identified, and record your Dealer Code in the white portion of the label.
14. The reprogram procedure is complete.



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The following table lists DTCs that are commonly seen during routine testing due to the conditions listed for each code (Remark), and they are not required to be cleared if no other DTCs are stored. If there is doubt concerning any DTC(s) retrieved, record all codes and clear all modules before reprogramming the ECU to be safe and refer to the appropriate service manual to diagnose remaining codes.

<DTC Table>

Model	DTC	Remark
Kizashi (A6B424)	B1504-L Driver Side Sunload Sensor and/or Its Circuit Malfunction	Current DTC is detected in case that sunload sensor is not lit enough by the sun or room light.
	B1505-L Passenger Side Sunload Sensor and/or Its Circuit Malfunction	
	B1691 CAN Invalid Data from Steering Angle Sensor	After reprogramming TCM, history DTC might be detected. There is not any malfunction in Body Electrical Control System.
	B1693 CAN Invalid Data from P/S Control Module	
	B1695 CAN Invalid Data from ESP® Control Module	
	C1122 Engine Speed Signal Malfunction	Current DTC is detected when the engine is not running.

Dealer Code	VIN_NO	Dealer Code	VIN_NO	Dealer Code	VIN_NO
401358	JS2RE9A36C6100021	405434	JS2RF9A13C6100022	412619	JS2RF9A89C6100068
401358	JS2RE9A36C6100066	406031	JS2RF9A33C6100345	412716	JS2RE9A34C6100082
401358	JS2RE9A39C6100160	406260	JS2RF9A30C6100304	412716	JS2RE9A34C6100230
401358	JS2RE9A8XC6100079	409340	JS2RE9A81C6100052	412716	JS2RE9A35C6100060
401366	JS2RE9A33C6100185	409499	JS2RE9A31C6100170	412716	JS2RE9A36C6100228
401366	JS2RE9A36C6100200	409499	JS2RE9A35C6100155	412724	JS2RF9A31C6100165
401366	JS2RE9A67C6100054	409499	JS2RE9A38C6100182	412732	JS2RE9A30C6100113
401366	JS2RE9A80C6100060	409499	JS2RE9A64C6100044	412732	JS2RE9A30C6100225
401374	JS2RE9A31C6100184	409499	JS2RE9A83C6100053	412732	JS2RE9A31C6100220
401374	JS2RE9A34C6100177	409499	JS2RE9A8XC6100048	412732	JS2RE9A32C6100095
401374	JS2RE9A37C6100030	409731	JS2RE9A38C6100179	412732	JS2RE9A33C6100106
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401374	JS2RE9A63C6100021	409731	JS2RE9A89C6100056	412732	JS2RE9A34C6100101
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401374	JS2RF9A62C6100041	409820	JS2RE9A39C6100062	412732	JS2RE9A38C6100148
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405264	JS2RF9A11C6100102	409928	JS2RE9A69C6100041	412732	JS2RF9A10C6100110
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405418	JS2RF9A3XC6100150	412619	JS2RF9A38C6100177	415219	JS2RF9A13C6100036
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Dealer Code	VIN_NO	Dealer Code	VIN_NO	Dealer Code	VIN_NO
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415219	JS2RF9A3XC6100178	419389	JS2RF9A30C6100271	428159	JS2RF9A33C6100250
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Dealer Code	VIN_NO	Dealer Code	VIN_NO	Dealer Code	VIN_NO
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