

Abnormal Noise when Brake Pedal Released

Service Category Brake

Section Brake Control/Dynamic Control System **Market** USA

Toyota Supports
 ASE Certification 

Applicability

| YEAR(S) | MODEL(S) | ADDITIONAL INFORMATION |
|-------------|----------|------------------------|
| 2010 – 2011 | Prius | |

Introduction

Some 2010 Prius and early produced 2011 Prius vehicles may exhibit an abnormal noise when the brake pedal is released. The noise is typically heard when the vehicle is stopped. The ABS Actuator Skid Control Electronic Control Unit (ECU) calibration software has been revised to eliminate this noise.

See attached video below for an example of the abnormal noise.

[Prius Abnormal Brake Noise](#)

Production Change Information

This TSB applies to vehicles produced **BEFORE** the Production Change Effective VINs shown below.

| MODEL | PLANT | PRODUCTION CHANGE EFFECTIVE VIN |
|-------|------------------|---------------------------------|
| Prius | Tsutsumi #1 | JTDKN3DU#B0248672 |
| | Tsutsumi #2 | JTDKN3DU#B1317406 |
| | Toyota Auto Body | JTDKN3DU#B5232759 |

Warranty Information

| OP CODE | DESCRIPTION | TIME | OFF | T1 | T2 |
|---------|---|------|-------------|----|----|
| EL1034 | Reflash Brake Actuator Skid Control ECU | 1.0 | 47050-##### | 91 | 99 |

APPLICABLE WARRANTY

- This repair is covered under the Toyota Comprehensive Warranty. This warranty is in effect for 36 months or 36,000 miles, whichever occurs first, from the vehicle's in-service date.
- Warranty application is limited to occurrence of the specified condition described in this bulletin.

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Calibration Information

| MODEL | MODEL YEAR | WHEEL SIZE* | PREVIOUS CALIBRATION ID | NEW CALIBRATION ID |
|-------|-------------|-------------|--|----------------------------|
| Prius | 2010 – 2011 | 15 inch | F152647103 F152647104 F152647105 F152647106 F152647107 | F152647108 |
| | | 17 inch | F152647123 F152647124 F152647125 F152647126 F152647127 | F152647128 |

* Wheel size information can be found on the certification label, located on the driver's door jamb / B-pillar.

Required Tools & Equipment

| REQUIRED EQUIPMENT | SUPPLIER | PART NUMBER | QTY |
|--|----------|-----------------------------|-----|
| TIS Techstream** or Techstream Lite NOTE: Software version 5.10.029 or later is required. | ADE | TSPKG1 or TSLITEDLR01 | 1 |

NOTE

- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.
- The Diagnostic Tester is NOT recommended for flash reprogramming with this calibration file. Please use TIS Techstream or an approved J2534 interface to perform this update. Visit techinfo.toyota.com for more information regarding J2534 reprogramming.



| SPECIAL SERVICE TOOLS (SST) | PART NUMBER | QTY |
|----------------------------------|-----------------------------|-----|
| GR8 Battery Diagnostic Station** | 00002-MCGR8 | 1 |

NOTE

Additional SSTs may be ordered by calling 1-800-933-8335.

** Essential SST.

Abnormal Noise when Brake Pedal Released

Repair Procedure

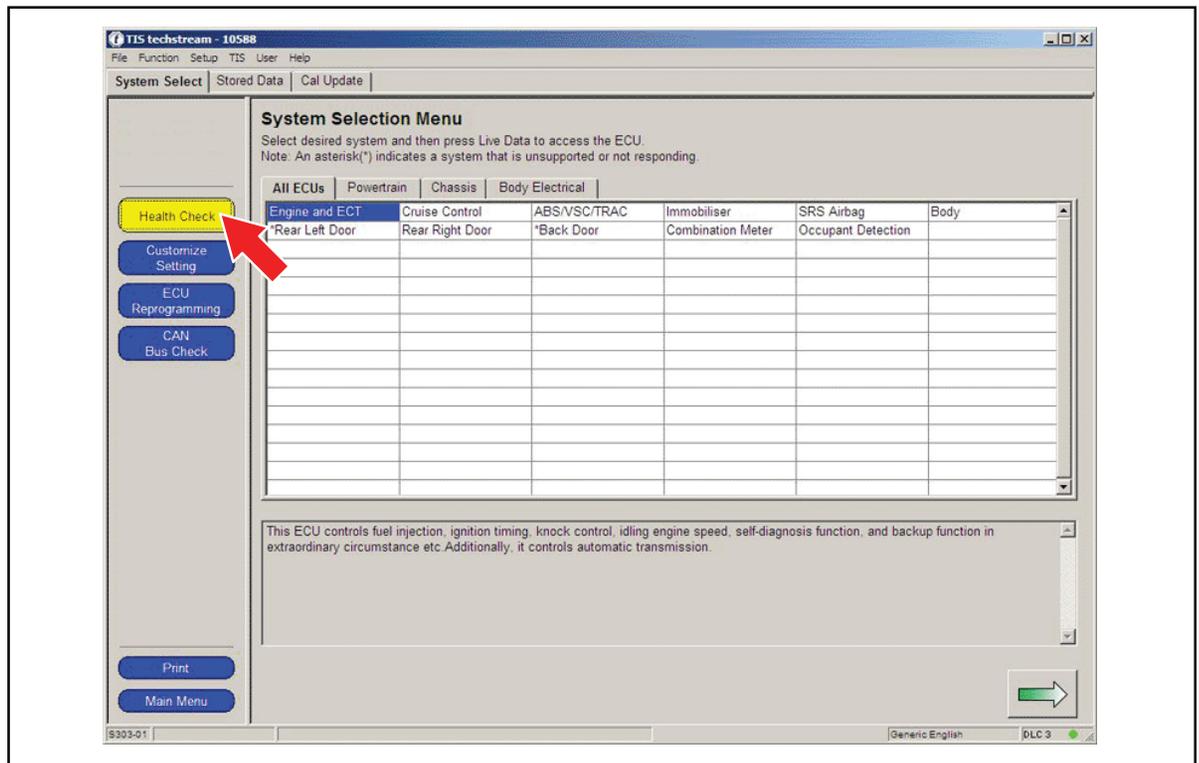
1. Confirm the abnormal (squawk/honk) noise when releasing the brake pedal.
2. Connect the GR8 Battery Diagnostic Station to the vehicle and turn it ON, then select Power Supply Mode.

NOTE

- The GR8 Battery Diagnostic Station **MUST** be used in Power Supply Mode to maintain battery voltage at 13.5 volts while flash reprogramming the vehicle.
- For details on how to use the GR8 Battery Diagnostic Station, refer to the [GR8 Instruction Manual](#) located on the Technical Information System (TIS), *Diagnostics – Tools & Equipment – Battery Diagnostics*.
- If the GR8 Battery Diagnostic Station is unavailable, the PSC Power Supply Charger / Maintainer (MTRPSC550SKT) may be used.

3. Verify the vehicle’s applicability for recalibration.
 - A. Connect Techstream and establish a vehicle connection.
 - B. Click the *Health Check* button on the *System Select* tab (see Figure 1).

Figure 1.

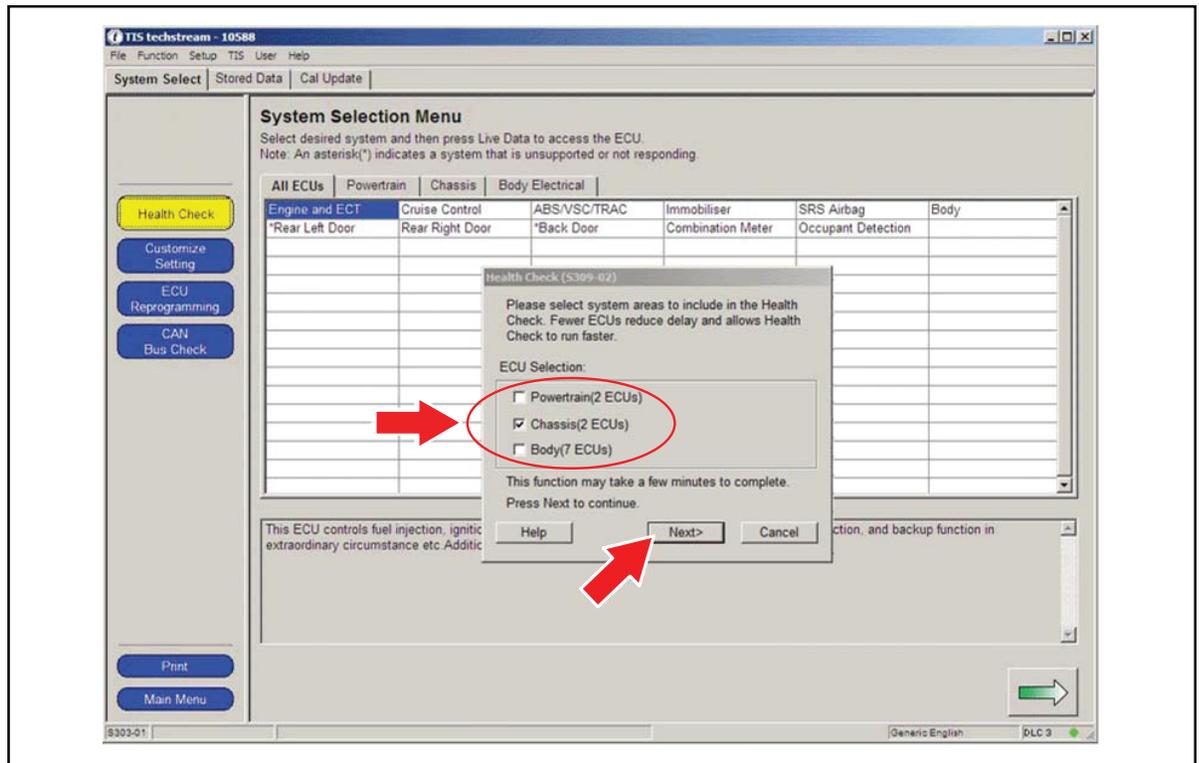


Abnormal Noise when Brake Pedal Released

Repair Procedure (Continued)

C. Choose *Chassis* ECU group in the *Health Check* dialog box.

Figure 2.



D. Click *Next*.

E. Click *Continue* to view *Health Check* results.

Figure 3.



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Repair Procedure (Continued)

- F. Available calibration updates are indicated by a **Yes** link in the *Calibration Update* column. **STOP** before clicking the **Yes** link.

Figure 4.

| Health Check Results | | | | | | | | | |
|----------------------------------|----------------|-------|------|------|------|------|------------|---------------------|--------|
| System | Monitor Status | DTC | Curr | Pend | Hist | Perm | SB | Calibration | Update |
| Advanced Parking Guidance System | - | C168B | | | X | | No | - | |
| Smart Key | - | U0155 | | | X | | No | - | |
| Radar Cruise | - | | | | | | | - | |
| Engine and ECT | Com | | | | | | | 34715100 | No |
| | | | | | | | | A4701000 | No |
| | | | | | | | | 896B34701000 | No |
| Hybrid Control | - | | | | | | | 896B54701000 | No |
| | | | | | | | | 898844701200 | No |
| | | | | | | | | 898844702100 | No |
| | | | | | | | | - | |
| Tire Pressure Monitor | - | | | | | | - | | |
| ABS/VSC/TRAC | - | | | | | | F152647126 | Yes | |
| EMPS | - | | | | | | - | | |
| Lane Keeping Assist | - | | | | | | - | | |
| Occupant Detection | - | | | | | | - | | |
| Air Conditioner | - | | | | | | - | | |
| Combination Meter | - | | | | | | - | | |
| Main Body | - | | | | | | - | | |
| D-Door Motor | - | | | | | | - | | |
| P-Door Motor | - | | | | | | - | | |
| RR-Door Motor | - | | | | | | - | | |
| RL-Door Motor | - | | | | | | - | | |

4. Flash reprogram the ABS Actuator Skid Control Computer.
 - A. Place the car in the "IG-ON" mode (push the Power button twice when the car is OFF – DO **NOT** depress the brake pedal).
 - B. Reflash the ABS Actuator Skid Control Computer with the newly designed software (New Calibration ID), following the procedures outlined in TSB No. [T-SB-0064-10](#), "Techstream ECU Flash Reprogramming Procedure". Please refer to the Calibration Information table in this TSB for the NEW Calibration ID.
 - C. After completing the ABS Actuator Skid Control Computer reflash, disconnect the GR8 Battery Diagnostic Station or PSC Power Supply Charger / Maintainer (MTRPSC550SKT).
5. Using Techstream, check for Diagnostic Trouble Codes (DTCs).

NOTE

If any Pending, Current, and/or History DTCs are set, troubleshoot according to the Repair Manual.

6. Depress the brake pedal while vehicle is stopped to confirm the abnormal noise has been eliminated.