Rev1

April 19, 2013



Rattle Noise from MT Shift Lever

Service

Section

Category Drivetrain

Manual Transmission/Transaxle

Market USA



Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION	
2013	FR-S	Transmission(s): 6MT	

REVISION NOTICE

June 11, 2013 Rev1:

· Production Change Information has been updated.

Any previous printed versions of this bulletin should be discarded.

Introduction

Some 2013 model year FR-S vehicles equipped with a 6-speed manual transmission may exhibit a rattle type noise from the manual transmission shifter between 3,500 – 6,000 rpm. Follow the procedure in this bulletin to address this condition.

Production Change Information

This bulletin applies to vehicles produced **BEFORE** the Production Change Effective VIN shown below.

MODEL	TRANSMISSION	PRODUCTION CHANGE EFFECTIVE VIN
FR-S	6 Speed MT	JF1ZNAA1#D1716932

Parts Information

PART NUMBER		DART NAME	OTY
PREVIOUS	NEW	PART NAME	QTY
SU003-04526			
SU003-00876	SU003-04598	Shift Lever Assembly	1
SU003-04562			3

Rattle Noise from MT Shift Lever

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
332011	R & R Shift Lever Assembly	1.7	SU003-04526 SU003-00876 SU003-04562	91	43

APPLICABLE WARRANTY

- This repair is covered under the Toyota Basic 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.

Repair Procedure

1. Confirm the condition.

Test drive the vehicle to confirm there is a rattle type noise from the floor shift lever assembly between 3,500 – 6,000 rpm.

Refer to the video link below for an example of the rattle noise. Rattle Noise Example

HINT

This noise may occur in any gear position, but is most noticeable in 3rd gear.

Is the rattle noise coming from the shift lever assembly?

- YES Continue to step 2.
- NO This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- 2. Replace the shift lever assembly.

Refer to the Technical Information System (TIS), applicable model and model year Repair Manual:

- 2013 FR-S: Drivetrain – Manual Transmission/Transaxle – "TL70 Manual Transmission/Transaxle: Manual Transmission Assembly: Removal / Installation"
- 3. Confirm the repair.



2013 PRE-DELIVERY SERVICE CHECK SHEET

June 2013 Rev1

		st/	INDED VEHICLE (ON HOIST)		
BEFORE INSPEC	Tenting to the result of the result of the state of the s	OK Adjust/ Repair			
01 Install Short Pin (see	page 2)		01 Remove disc brake anti-corrosion wheel film*		
	e ignition "IG-ON"; place gear selector in reve	roo.	03 Activate Tire Pressure Warning System (TPWS) (see page 2)		
	ger. Unlock doors; release fuel door.		04 Install wheel covers/caps/spare tire wheel covers*		
02 Check warning/indic 03 Check windshield wi 04 Check headlights, in switch, emergency fl	dicator lights, gauges, and horn	000 0	06 Visually check bolts and nuts on chassis and powertrain		
	ter* and power outlets*		ROAD TEST		
07 Check audio/navigat set clock	ride button cover		A complete road test helps assure customer satisfaction. Drive vehicle over a variety of road surfaces and driving conditions. Check for unusual noise and driving performance. Enter Odometer Reading Reading Before Test: Reading After Test:		
WALKAROUND I		ب ب	01 Check cold engine operation		
Start at left front door. Check window and door lock operation (from mast switch, if equipped). Continue around vehicle in a counterclockwise checking each door and window operation, child door locks, seat belts condition, all lights, luggage compartment contents. Finish by checking aim and continue into UNDER HOOD checks.			04 Check clutch or automatic transmission operation		
02 Check door and doo wireless remote con 03 Check that engine s 04 Check that child safe	w operation r lock operation, including each trol/theft deterrent system* tarts with all keys ety door locks are in normal		08 Inspect for squeaks and rattles		
	at belt operation		FINAL INSPECTION AND CLEANING		
Of Check rear defogger/rear view mirror defogger*			01 Remove interior protective covers, unnecessary labels, tags, etc. (Remove just before delivery to customer) 02 Verify floor mat application and install using retaining clips*		
UNDER HOOD			06 Inspect paint finish for scratches, chips, rust, dents,		
02 Check brake and clu 03 Check engine coolar 04 Check windshield wa 05 Check battery state System Analyzer (S	d ATM* fluid levels	0000 000			
The state of the s			page 2)		
* Inspect or install when equipped/required. ** For Scion Series 10 vehicles only. 11 Perform Techstream Health Check					
Completion and retention of this from is required to comply with Toyota's Warranty Policy. We hereby certify that all items on this form have been checked and corrected for proper operation as required. NAME (PLEASE PRINT) NAME (PLEASE PRINT)					
Date	ealer Name		Dealer Code Vehicle Identification Number (Sticker)		

SHORT PIN INSTALLATION

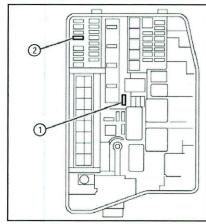
To minimize battery discharge the Short Pin has been removed and is stored in the engine compartment Relay Block. Install the Short Pin and confirm all related DTCs are cleared.

DTC Clearing Procedure

- Connect Techstream.
- 2. Cycle the ignition switch to the "IG-ON" position.
- 3. Using Techstream, check any other codes being output.
- 4. Erase DTCs (B1650 and B1794) and Freeze Frame Data.

NOTE

If any DTCs besides B1650 and B1794 appear, repair the applicable system according to the Repair Manual.



1 Remove This Short Pin 2 Install Short Pin Here

TPWS ACTIVATION & INITIALIZATION

Activation Procedure

- 1. Connect Techstream.
- 2. Cycle the IG switch to the "IG-ON" position and check that the Low Tire Pressure Warning Light blinks for 1 minute and then remains illuminated.
- Press or remove the valve core to reduce the tire inflation pressure rapidly by 6 psi (0.4 kfg/cm², 40 kPA), or more, within 30 seconds.
- 4. Check that the Low Tire Pressure Warning Light goes OFF after all the TPWS sensors are activated.

NOTE

To adjust tire pressure correctly when outside temperature is significantly colder or warmer than shop temperature, follow the procedures outlined in Service Bulletin No. S-SB-0001-02, "Tire Inflation Pressure Compensation and Adjustment."

5. Using Techstream, check for DTCs (C2111-C2114). If no DTCs are stored, continue to Initialization procedure. If these DTCs are stored, repeat step 3.

Initialization Procedure

Refer to the Repair Manual for the Initialization procedure. Please note the spare tire does not have a TPWS sensor.

FRONT LICENSE PLATE & MOUNTING BRACKET INSTALLATION

For states that require a front license plate, please install per this procedure. The bracket and self-tapping screws are stored in the luggage compartment.

Installation Procedure

- 1. Insert the front license plate into the mounting bracket.
- 2. Attach the hooks of the mounting bracket to the upper lip of the air intake and rotate the bracket upwards and hold in place.

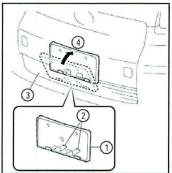
NOTE

The mounting bracket should snap securely onto the bumper cover.

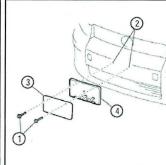
- 4. Align the installation holes on the mounting bracket and front license plate with the dimples on the front bumper.
- 5. Screw in the 2 self-tapping screws directly into the dimples to install the front license plate and mounting bracket.

NOTICE

- Do NOT pre-drill holes into the bumper.
- Do NOT over-tighten the self-tapping screws.



- 1 Mounting Bracket
- 2 Hooks
- 3 Air Intake
- **4 Rotate Bracket**



- 1 Self-tapping Screws
- 2 Dimples
- 3 License Plate
- 4 Mounting Bracket