

# Rear Brake Strut Improvement

Service  
Category Brake

Section Brake System

Market USA

Toyota Supports  
ASE Certification 

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## Applicability

| YEAR(S)     | MODEL(S) | ADDITIONAL INFORMATION |
|-------------|----------|------------------------|
| 2009 – 2011 | Corolla  | WMI(s): 2T1, 5YF       |

### OBSOLETE NOTICE

August 30, 2013: This bulletin is now obsolete. Please see [T-SB-0235-12](#).



# TOYOTA 4RUNNER

## 2014 PRE-DELIVERY SERVICE CHECK SHEET

September 2013 Rev1

| BEFORE INSPECTION                                                                                                                                                                                                                                                                                                                                                          |                          | OK                       | Adjust/Repair |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|---------------|
| 01 Install Short Pin (see page 2)                                                                                                                                                                                                                                                                                                                                          | <input type="checkbox"/> |                          |               |
| 02 Install antenna*                                                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/> |                          |               |
| <b>FUNCTIONAL OPERATION</b>                                                                                                                                                                                                                                                                                                                                                |                          |                          |               |
| Apply parking brake and cycle ignition "IG-ON"; place gear selector in reverse; turn on lights and rear defogger. Unlock doors; release fuel door; release luggage compartment hatch                                                                                                                                                                                       |                          |                          |               |
| 01 Check dome, courtesy, map, and sun visor lights*                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 02 Check warning/indicator lights, gauges, and horn                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 03 Check windshield wipers and washers                                                                                                                                                                                                                                                                                                                                     | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 04 Check headlights, instrument lights, turn signals, emergency flashers, and brake lights                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 05 Check inside/outside rear view mirror operation/adjustment                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 06 Check cigarette lighter* and power outlets                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 07 Check sliding roof*                                                                                                                                                                                                                                                                                                                                                     | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 08 Check audio/navigation*/backup camera* system and set clock                                                                                                                                                                                                                                                                                                             | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 09 Check auto-running boards*                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 10 Install shift-lock override button cover                                                                                                                                                                                                                                                                                                                                | <input type="checkbox"/> | <input type="checkbox"/> |               |
| <b>WALKAROUND INSPECTION</b>                                                                                                                                                                                                                                                                                                                                               |                          |                          |               |
| Start at left front door. Check window and door lock operation (from master power switch, if equipped). Continue around vehicle in a counterclockwise direction checking each door and window operation, child door locks, seat belts, interior condition, all lights, luggage compartment contents. Finish by checking headlight aim and continue into UNDER HOOD checks. |                          |                          |               |
| 01 Check Smart Key System*                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 02 Check door and door lock operation, including each wireless remote control/theft deterrent system*                                                                                                                                                                                                                                                                      | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 03 Check window operation                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 04 Check that engine starts with all keys                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 05 Check that child safety door locks are in normal (unlocked) position                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 06 Check seats and seat belt operation                                                                                                                                                                                                                                                                                                                                     | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 07 Check rear defogger/rear view mirror defogger*                                                                                                                                                                                                                                                                                                                          | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 08 Check side marker, tail, backup, and license plate lights                                                                                                                                                                                                                                                                                                               | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 09 Check luggage compartment light* and trim appearance                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 10 Check jack and tool installation                                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 11 Check headlight aim                                                                                                                                                                                                                                                                                                                                                     | <input type="checkbox"/> | <input type="checkbox"/> |               |
| <b>UNDER HOOD</b>                                                                                                                                                                                                                                                                                                                                                          |                          |                          |               |
| 01 Check engine oil level                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 02 Check brake and power steering fluid levels                                                                                                                                                                                                                                                                                                                             | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 03 Check engine coolant level                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 04 Check windshield washer fluid level                                                                                                                                                                                                                                                                                                                                     | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 05 Check battery state-of-charge using Digital Battery System Analyzer (SOC Reading: _____%)                                                                                                                                                                                                                                                                               | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 06 Inspect for fuel, oil, coolant, and other fluid leaks                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/> | <input type="checkbox"/> |               |
| * Inspect or install when equipped/required.                                                                                                                                                                                                                                                                                                                               |                          |                          |               |
| <b>UNDER VEHICLE (ON HOIST)</b>                                                                                                                                                                                                                                                                                                                                            |                          | OK                       | Adjust/Repair |
| 01 Remove disc brake anti-rust covers/anti-corrosion wheel film*                                                                                                                                                                                                                                                                                                           | <input type="checkbox"/> |                          |               |
| 02 Inspect tires for defects/damage                                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 03 Activate Tire Pressure Warning System (TPWS)                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 04 Install wheel covers/caps/spare tire wheel covers*                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 05 Inspect for fuel, oil, coolant, and other fluid leaks                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 06 Inspect under the vehicle for damage, rust, etc.                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 07 Visually check bolts and nuts on chassis and powertrain for looseness                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 08 Install rubber body plugs*                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/> |                          |               |
| <b>ROAD TEST</b>                                                                                                                                                                                                                                                                                                                                                           |                          |                          |               |
| 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.                                                                                                                                                                                            |                          |                          |               |
| <b>Enter Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                              |                          |                          |               |
| Reading Before Test: _____ Reading After Test: _____                                                                                                                                                                                                                                                                                                                       |                          |                          |               |
| 01 Check cold engine operation                                                                                                                                                                                                                                                                                                                                             | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 02 Check engine operation during warm-up                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 03 Check engine at normal operating temperature                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 04 Check automatic transmission operation                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 05 Check brake and parking brake operation                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 06 Check steering operation and off-center/vehicle pull/flutter                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 07 Inspect for abnormal noise and vibration                                                                                                                                                                                                                                                                                                                                | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 08 Inspect for squeaks and rattles                                                                                                                                                                                                                                                                                                                                         | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 09 Check front and rear* heater and A/C operation                                                                                                                                                                                                                                                                                                                          | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 10 Check cruise control operation*                                                                                                                                                                                                                                                                                                                                         | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 11 Check front seat heater/ventilation operation*                                                                                                                                                                                                                                                                                                                          | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 12 Set/calibrate compass* (see page 2)                                                                                                                                                                                                                                                                                                                                     | <input type="checkbox"/> | <input type="checkbox"/> |               |
| <b>FINAL INSPECTION AND CLEANING</b>                                                                                                                                                                                                                                                                                                                                       |                          |                          |               |
| 01 Remove interior protective covers, unnecessary labels, tags, etc. (Remove just before delivery to customer)                                                                                                                                                                                                                                                             | <input type="checkbox"/> |                          |               |
| 02 Visually inspect all interior parts for installation, damage, fit, dirt, etc.                                                                                                                                                                                                                                                                                           | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 03 Verify floor mat application and install using retaining clips*                                                                                                                                                                                                                                                                                                         | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 04 Verify green light is illuminated on SOS (Safety Connect) button*                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 05 Remove Rappard™ and clear protective bumper film*                                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 06 Wash and clean vehicle                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 07 Inspect paint finish for scratches, chips, rust, dents, damage, etc.                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 08 Install front bumper lower side support (see page 2)                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 09 Install roof rack leg covers and cross bars*                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 10 Inspect exterior body parts for proper installation, damage, rust, etc.                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 11 Place oil change sticker on inside of windshield, top left corner                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/> |                          |               |
| 12 Install front license plate and mounting bracket* (see page 2)                                                                                                                                                                                                                                                                                                          | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 13 Place Owner's Guide & first aid kit portfolio* in glove box                                                                                                                                                                                                                                                                                                             | <input type="checkbox"/> | <input type="checkbox"/> |               |
| 14 Perform Techstream Health Check                                                                                                                                                                                                                                                                                                                                         | <input type="checkbox"/> | <input type="checkbox"/> |               |

Completion and retention of this form is required to comply with Toyota's Warranty Policy.

TECHNICIAN'S SIGNATURE \_\_\_\_\_

SERVICE MANAGER'S SIGNATURE \_\_\_\_\_

NAME (PLEASE PRINT) \_\_\_\_\_

NAME (PLEASE PRINT) \_\_\_\_\_

|      |             |             |                                         |
|------|-------------|-------------|-----------------------------------------|
| Date | Dealer Name | Dealer Code | Vehicle Identification Number (Sticker) |
|------|-------------|-------------|-----------------------------------------|

We hereby certify that all items on this form have been checked and corrected for proper operation as required.

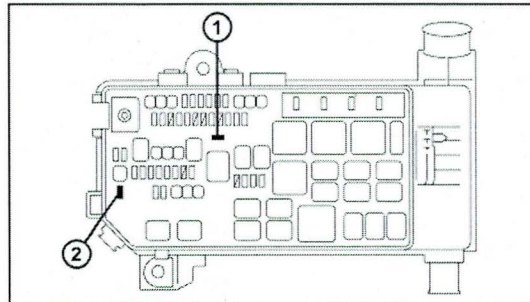
## SHORT PIN INSTALLATION

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 (B1650 & B1794) are cleared.

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

### NOTE

- Removing the Short Pin cuts off the power sources relating to the dome, radio No. 1, and ECU-B fuses.
- The Short Pin does NOT function as a fuse, so only install it in the position shown.
- If the vehicle is stored in the dealership for a long period of time after PDS, disconnect the negative (-) battery terminal to prevent battery discharge. Refer to Service Bulletin No. PG001-06, "Battery Maintenance for In-Stock Vehicles & Pre-Delivery," for battery maintenance information.



1 Short Pin Storage Location  
2 Install Short Pin Here (Original Location)

## COMPASS CALIBRATION

Refer to the Repair Manual for the Calibration procedure for vehicles equipped with a compass in the accessory meter.

### NOTE

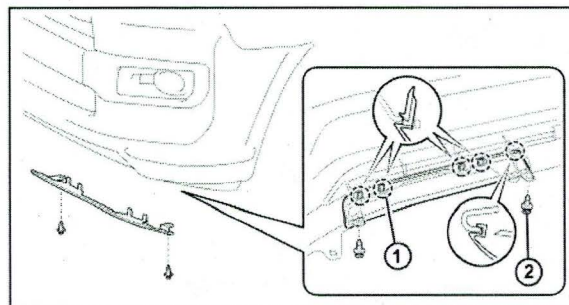
- Do NOT perform calibration of the compass in a place where the Earth's magnetic field is subject to interference (underground parking, under a steel tower, between buildings, roof parking, near a railroad crossing, near a large vehicle, etc.).
- During calibration, do NOT operate electric systems (moon roof, power windows, etc.) as they may interfere with the calibration.

## FRONT BUMPER LOWER SIDE SUPPORT INSTALLATION

The front bumper lower side support set is stored in the luggage compartment to avoid damage during transportation.

1. Attach the 4 claws and guide to each support.
2. Install the left front bumper lower side support to the front bumper by engaging the four claws and inserting the 2 clips.
3. Repeat step 2 for the right side.

1 Claw  
2 Clip



## FRONT LICENSE PLATE AND MOUNTING BRACKET INSTALLATION\*

The front license plate mounting bracket and 2 self tapping screws are loaded in the luggage compartment at the assembly plant.

1. Align the installation holes "A" of the mounting bracket with the dimples on the front bumper cover.
2. Install the 2 self-tapping screws through the mounting bracket and into the front bumper cover at the dimples.

### NOTICE

- Do NOT pre-drill holes into the bumper.
- Do NOT overtighten the self-tapping screws.
- Horizontally install the self-tapping screw to the boss of the bumper cover.

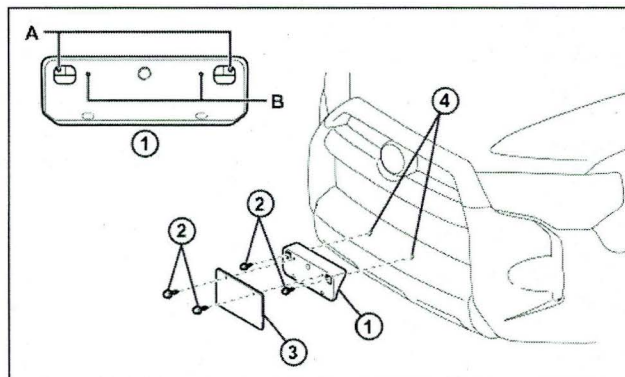
### HINT

- Holes "A" are used for installation of the mounting bracket to the front bumper cover.
- Holes "B" are used for installation of the front license plate to the mounting bracket.

3. Install the front license plate to the mounting bracket using 2 self-tapping screws.

### NOTICE

Do NOT overtighten the self-tapping screws.



1 Mounting Bracket  
2 Self-tapping Screws

3 License Plate  
4 Dimples