Rear Brake Strut Improvement

Service Category  | Brake
Section           | Brake (rear)  | Market  | USA

Applicability

<table>
<thead>
<tr>
<th>YEAR(S)</th>
<th>MODEL(S)</th>
<th>ADDITIONAL INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009 – 2013</td>
<td>Corolla</td>
<td>WMI(s): JTD</td>
</tr>
<tr>
<td>2009 – 2011</td>
<td>Corolla</td>
<td>WMI(s): 2T1, 5YF</td>
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</tbody>
</table>

REVISION NOTICE

July 16, 2014 Rev2:
- Required Tools & Equipment and Repair Procedure sections have been updated.

August 30, 2013 Rev1:
- Applicability has been updated to include 2009 – 2011 model year North American produced Corolla vehicles.
- Repair Procedure has been updated.

Any previous printed versions of this bulletin should be discarded.

SUPERSESSION NOTICE

The information contained in this bulletin supersedes SB No. T-SB-0189-12.
- Applicability has been updated to include 2009 – 2013 model year Japan built Corolla vehicles.
- Repair Procedure has been updated.

Service Bulletin No. T-SB-0189-12 is Obsolete and any printed versions should be discarded. Be sure to review the entire content of this bulletin before proceeding.

Introduction

Some 2009 – 2013 Corolla vehicles may exhibit a condition where, over time, there is a slight, but perceptible increase in brake pedal travel. This condition has no effect on braking performance. Improved rear drum brake adjusters have been developed to improve this condition.
Rear Brake Strut Improvement

Production Change Information

This bulletin applies to:

- 2009 – 2013 model year Japan built Corolla vehicles produced BEFORE the Production Change Effective VIN shown below.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PLANT</th>
<th>PRODUCTION CHANGE EFFECTIVE VIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corolla</td>
<td>All CBU</td>
<td>JTDBU4EE#DJ109475</td>
</tr>
</tbody>
</table>

- 2009 – 2011 model year North American built Corolla vehicles produced BEFORE the Production Change Effective VINs shown below.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PLANT</th>
<th>PRODUCTION CHANGE EFFECTIVE VIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corolla</td>
<td>TMMMC</td>
<td>2TIBU4EE#BC707539</td>
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<tr>
<td></td>
<td>TMMMS</td>
<td>5YFBU4EE#BP001039</td>
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</table>

Warranty Information

<table>
<thead>
<tr>
<th>OP CODE</th>
<th>DESCRIPTION</th>
<th>TIME</th>
<th>OFP</th>
<th>T1</th>
<th>T2</th>
</tr>
</thead>
<tbody>
<tr>
<td>BR1204</td>
<td>R &amp; R Drum Brake Strut Kit</td>
<td>1.4</td>
<td>04943-02070 04943-52030</td>
<td>4B</td>
<td>41</td>
</tr>
</tbody>
</table>

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.

Parts Information

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PART NAME</th>
<th>QTY</th>
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</thead>
<tbody>
<tr>
<td>04943-02070</td>
<td>04943-02080 Strut Kit, Rear Drum Brake</td>
<td>1</td>
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<tr>
<td>04943-52030</td>
<td>04943-12040 Strut Kit, Rear Drum Brake</td>
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</table>

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Required Tools & Equipment

<table>
<thead>
<tr>
<th>SPECIAL SERVICE TOOLS (SST)</th>
<th>PART NUMBER</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shoe Hold Down Spring Driver</td>
<td>09718-00010</td>
<td>1</td>
</tr>
<tr>
<td>Spring Tension Tool</td>
<td>09921-00010</td>
<td>1</td>
</tr>
<tr>
<td>Plastic Pry Tool Set*</td>
<td>00002-06020-01</td>
<td>1</td>
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</table>

<table>
<thead>
<tr>
<th>REQUIRED MATERIAL</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Temperature Grease</td>
<td>As Needed</td>
</tr>
</tbody>
</table>

* Essential SST.

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

Repair Procedure

1. Test drive the vehicle and confirm the condition.
2. Remove the rear wheels.
3. Remove the rear brake drums.
   A. Disengage the parking brake.
   B. Remove the rear drum.

**NOTE**
If the rear drum cannot be removed easily, complete steps 4 and 5, otherwise, continue to step 6.
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Repair Procedure (Continued)

4. Remove the shoe adjusting hole plug and insert a screwdriver through the hole into the backing plate, and hold the automatic adjust lever away from the adjuster.

5. Using another screwdriver, compress the brake shoe by turning the adjusting bolt.

6. Remove the brake shoe (forward leading).

A. Using the Spring Tension Tool, separate the shoe return spring from the rear brake shoe.

SST: 09921-00010

NOTICE
Be cautious NOT to damage the wheel cylinder boot with the Spring Tension Tool or the return spring during this process.
Repair Procedure (Continued)

B. Using the Shoe Hold Down Spring Driver, remove the 2 shoe hold down spring cups, shoe hold down spring, pin, and the rear brake shoe.
SST: 09718-00010

C. Remove the tension spring to the front brake shoe and rear brake shoe.
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Repair Procedure (Continued)

7. Remove the rear brake strut set.

A. Remove the shoe return spring from the rear brake shoe and remove the rear brake shoe strut set.

B. Using needle-nose pliers, separate the parking brake cable.
Rear Brake Strut Improvement

Repair Procedure (Continued)

8. Remove the forward leading rear brake shoes from the backing plate.

**NOTE**
Since the old brake shoes are being reused, there is no need to remove the parking brake lever from the brake shoe.

9. Install the rear brake shoes with the NEW strut set.

A. Apply high temperature grease to the surface of the backing plate that contacts the forward leading brake shoe as indicated.

B. Using needle-nose pliers, install the parking brake cable to the rear brake parking brake shoe lever assembly.
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Repair Procedure (Continued)

C. Using the Shoe Hold Down Spring Driver, install the rear brake shoe, pin, and hold down spring cup.
   SST: 09718-00010

D. Apply high temperature grease to the NEW adjustment bolt (strut set).
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Repair Procedure (Continued)

E. Install the rear brake strut set assembly with tension spring.

10. Install the rear brake shoe (forward leading).

A. Using the Spring Tension Tool, install the rear brake shoe, pin, hold down spring, and shoe hold down spring cup.

SST: 09921-00010
Rear Brake Strut Improvement

Repair Procedure (Continued)

B. Using needle-nose pliers, install the tension spring to the rear brake shoe.

C. Using the Spring Tension Tool, install the shoe return spring to the rear brake shoe.

SST: 09921-00010

NOTICE
Be cautious NOT to damage the wheel cylinder boot with the Spring Tension Tool or the return spring during this process.
Rear Brake Strut Improvement

Repair Procedure (Continued)

11. Inspect the rear brake drum.
   A. Inspect that each part is installed properly as shown in the illustration.

   Figure 16.

   NOTICE
   There should be NO oil or grease on the shoes or drum.
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Repair Procedure (Continued)

B. Measure the brake drum inner diameter and the diameter of the brake shoes. Check that the difference between the diameters is equal to the specified shoe clearance.

Shoe Clearance: 0.4 mm (0.0157 in.)

C. Install the rear brake drum(s).
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Repair Procedure (Continued)

12. Adjust parking brake lever travel.

A. Remove the upper console box assembly.
   Using a plastic pry tool, disengage the 6 clips and 2 guides, and remove the upper console panel sub-assembly.

B. Completely release the parking brake lever.
C. Loosen the lock nut and the adjusting nut to completely release the cable.

D. Operate the brake lever 3 to 5 times with the engine stopped.

E. Turn the adjusting nut until the parking brake lever travel is corrected to within the specified range.
   Parking Brake Lever Travel: 5 to 8 clicks at 200 N (20 kgf, 45 lbf)

F. Using a wrench or an equivalent tool, hold the adjusting nut and tighten the lock nut.
   Torque: 6 N*m (61 kgf*cm, 53 in*lbf)

G. Operate the parking brake lever 3 to 4 times, and check the parking brake lever travel.

H. Check for any rear brake drag and adjust as needed.
Rear Brake Strut Improvement

Repair Procedure (Continued)

I. Install the upper console box assembly by engaging the 6 clips and 2 guides.

13. Install the rear wheels and torque to specification.
   Torque: 103 N·m (1050 kgf·cm, 76 ft·lbf)

14. Test drive the vehicle and confirm proper brake operation and pedal feel.