



HYUNDAI

NEW THINKING.
NEW POSSIBILITIES.

Technical Service Bulletin

GROUP

CAMPAIGN

NUMBER

14-01-026-1

DATE

DECEMBER 2014

MODEL(S)

SONATA (LFA)

SUBJECT: SONATA FRONT BRAKE CALIPER INSPECTION AND REPAIR
(RECALL CAMPAIGN 120)

THIS TSB IS BEING UPDATED TO REVISE THE AFFECTED VIN UNIVERSE.

★ IMPORTANT

*** Dealer Stock and Retail Vehicles ***

As required by federal law, dealers must not deliver new vehicles for sale or for lease to customers until all open recalls have been performed. Dealers must also perform all open recalls on used vehicles, demo and rental vehicles prior to placing them into customer use and whenever an affected vehicle is in the shop for any maintenance or repair.

When a vehicle arrives at the service department, access Hyundai Motor America's "Warranty Vehicle Information" screen via WEBDCS to identify open Campaigns.

Description: A manufacturing process error may have affected the brake caliper's cast alloy on certain 2015 Sonatas. A fracture of the brake caliper assembly could result in a reduction in braking effectiveness and an increase in stopping distances, increasing the risk of a crash. This bulletin describes the procedure to inspect and if necessary, replace the left and right front brake caliper assemblies on certain 2015 model year Sonata (LF) vehicles.



Applicable Vehicles: Certain 2015 Sonata (LF) vehicles.

Circulate To: General Manager, Service Manager, Parts Manager, Warranty Manager, Service Advisors, Technicians, Body Shop Manager, Fleet Repair

Parts Information:

Part Name	Part Number	Qty.
Front Left Brake Caliper Kit	58180-C1A10	1
Front Right Brake Caliper Kit	58190-C1A10	1
DOT 4 Brake Fluid	00232-19053	As needed
Copper Washer	17512-10000	2 required per caliper replaced

Warranty Information:

-Op. Code	Operation	Op. Time
40CA05I0	BRAKE CALIPER INSPECTION ONLY	0.3 M/H
40CA05R0	INSPECTION & REPLACE LH CALIPER ONLY	0.8 M/H
40CA05R1	INSPECTION & REPLACE RH CALIPER ONLY	0.8 M/H
40CA05R2	INSPECTION & REPLACE BOTH LH/RH CALIPERS	1.0 M/H

NOTE: Submit Claim on Campaign Claim Entry Screen

NOTE: Part number 00232-19053 (DOT 4 brake fluid) will be reimbursed on campaign claim.

NOTICE

Removed brake calipers will be subject to WTC parts return request.

Service Procedure:

1. Remove both front wheel assemblies for caliper inspection.

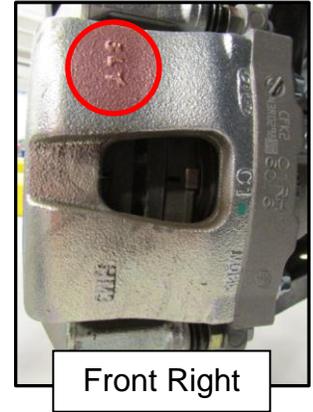
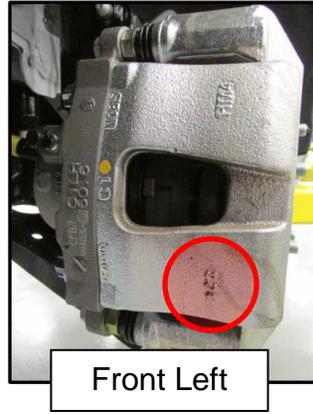
NOTICE

**Tightening torque: 65.1~79.6 lb-ft
(88.3~107.9 Nm, 9.0~11.0 kgf.m)**



2. Inspect front left and right calipers to verify lot code.

- If the lot code is **'4CB'**, the caliper(s) must be replaced. Proceed with the rest of the service procedure.
- If the lot code is **not '4CB'**, the caliper(s) do not require replacement. Re-install the front wheel assembly/assemblies to complete the service procedure.



NOTICE

When viewing the caliper from the front of the vehicle looking towards the rear, the lot code is located on the bottom for the left side, and the top for the right side, as seen in the pictures above.

NOTICE

Some calipers may have lot codes with 4 digits. Any caliper with a lot code that has '4CB' in the first 3 digits requires replacement.



LOT CODE IS GOOD - DO NOT REPLACE



LOT CODE 4CB IS BAD - REPLACE



3. Remove brake line from caliper.

CAUTION

There are 2 copper washers on the brake line bolt that must be replaced when installing new caliper(s).

NOTICE

If any brake fluid is spilled, immediately clean the spill by generously flushing water over the area.

NOTICE

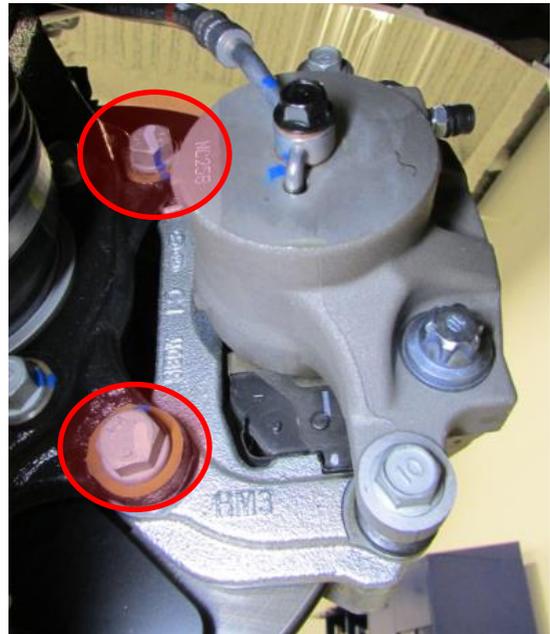
Tightening torque: 18.1~21.7 lb-ft
(24.5~29.4 Nm, 2.5~3.0 kgf.m)



4. Remove caliper mounting bolts.

NOTICE

Tightening torque: 57.9~72.3 lb-ft
(78.5~98.1 Nm, 8.0~10.0 kgf.m)



5. Remove caliper assembly from axle assembly.

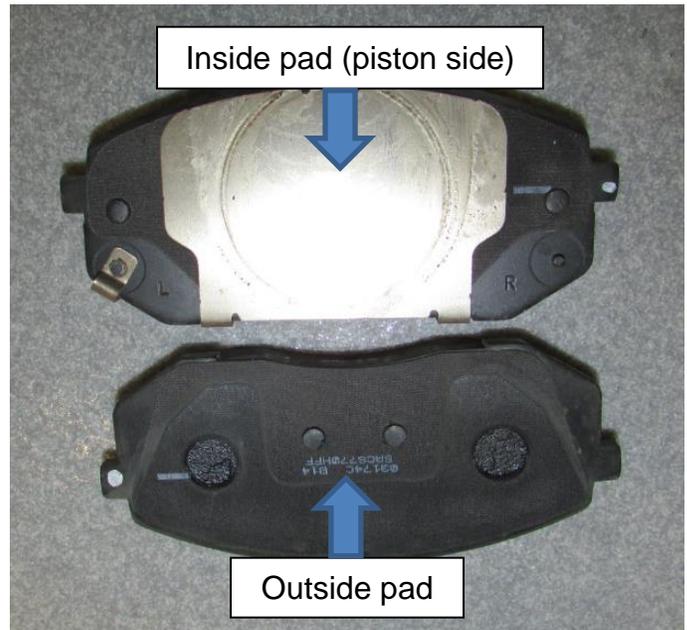


6. Remove the brake pads from the removed caliper, and install them into the new caliper.

NOTICE

Install the brake pad with the shim plate so it faces the caliper piston (inside position).

Install the brake pad without the shim plate on the opposite side (outside position).



7. Install the new caliper and reassemble axle assembly in reverse order of removal.

WARNING

Failure to install both copper washers may result in a leak.

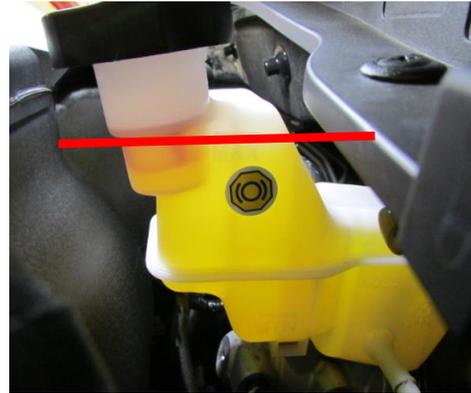
Be sure to use new washers on the brake line during re-assembly.



- 8. Ensure the brake fluid reservoir is filled to the MAX line.

NOTICE

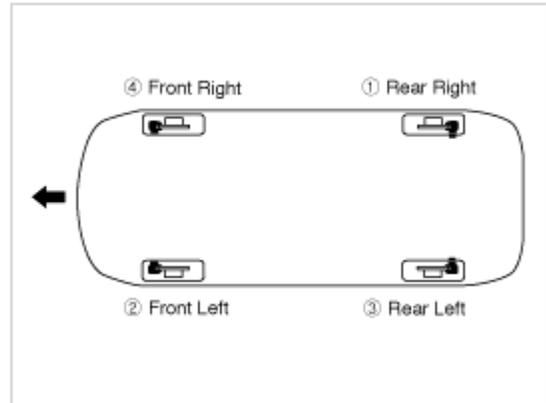
If any brake fluid is spilled, immediately clean the spill by generously flushing water over the area.



- 9. Bleed the brake lines at the caliper bleeders until no air bubbles appear in the fluid in the correct bleeding order:
 1. Rear Right
 2. Front Left
 3. Rear Left
 4. Front Right

NOTICE

If any brake fluid is spilled, immediately clean the spill by generously flushing water over the area.



WARNING

DO NOT allow the brake fluid level to drop below the MIN line on the brake fluid reservoir.

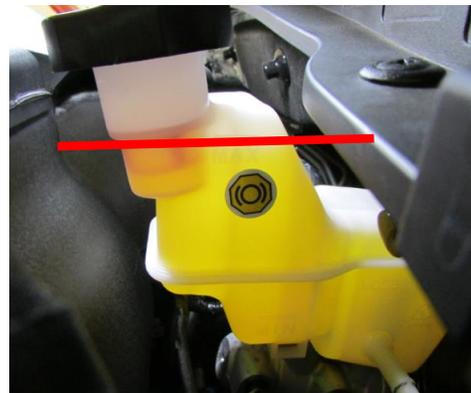
- 10. Re-install wheels, and fill brake fluid reservoir to the MAX line.

NOTICE

Tightening torque: 65.1~79.6 lb-ft (88.3~107.9 Nm, 9.0~11.0 kgfm)

NOTICE

If any brake fluid is spilled, immediately clean the spill by generously flushing water over the area.



- 11. Test drive vehicle to ensure proper brake operation.