



Technical Service Bulletin

GROUP RECALL	NUMBER 22-01-001H
DATE JANUARY 2022	MODEL(S) Accent (HC)

SUBJECT: BRAKE MASTER CYLINDER REPLACEMENT (RECALL 213)

★ IMPORTANT

*** Retail Vehicles ***

As required by federal law, dealer must not deliver new vehicle 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 the "Vehicle Information" screen via WEBDCS to identify open Campaigns.


Description: This bulletin describes the procedure to replace the brake master cylinder on certain 21MY Accent (HC) models. The brake master cylinder in the subject vehicles may have been produced with sharp edges on one of the master cylinder's secondary inner cup seal seats, resulting in premature wear of the inner cup seal. Worn inner cup seals could reduce hydraulic pressure applied by the master cylinder resulting in reduced braking function at the wheels. The driver may experience longer brake pedal travel, change in pedal feel, and extended stopping distance, increasing the risk of a crash.



Applicable Vehicles:

Certain 2021 MY Accent (HC) produced between **September 29, 2020** and **July 01, 2021**.

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MODEL	PART NUMBER	PART DESCRIPTION	PHOTO	REMARKS
ACCENT (HC)	58510-H9260QQH	Brake Master Cylinder, Reservoir Assembly		-
	00232-19053	DOT 4 Brake Fluid (12 FL.OZ., 355ML)		Requires approximately 2 ¼ bottles (27 FL.OZ.) of brake fluid per vehicle

Warranty Information:

MODEL	OP CODE	OPERATION	OP TIME	CAUSAL PART	NATURE CODE	CAUSE CODE
ACCENT (HC)	211M18R0	Brake Master Cylinder Replacement	1.5 M/H	58510-H9260QQH	D73	ZZ3

NOTE 1: Submit claim on Campaign Claim Entry screen.

NOTE 2: If a part is found in need of replacement while performing the repair for this TSB and the affected part is still under warranty, submit a separate claim using the same repair order. If the affected part is out of warranty, submit a Prior Approval request for goodwill consideration prior to performing the work.

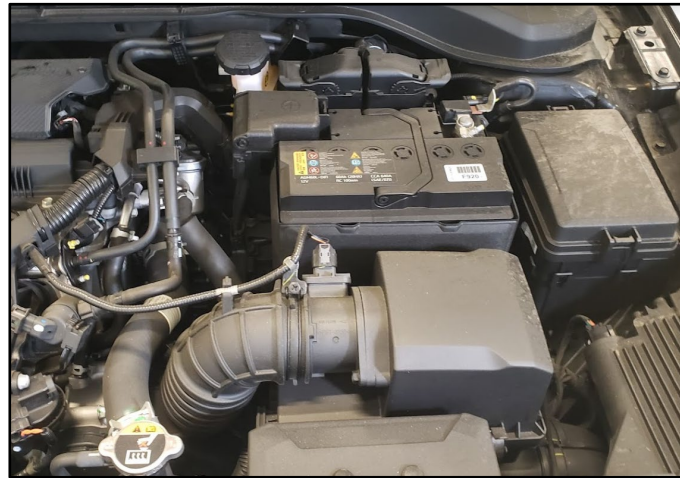
NOTE 3: Three (3) bottles of brake fluid will be reimbursed under labor op 211M18R0.

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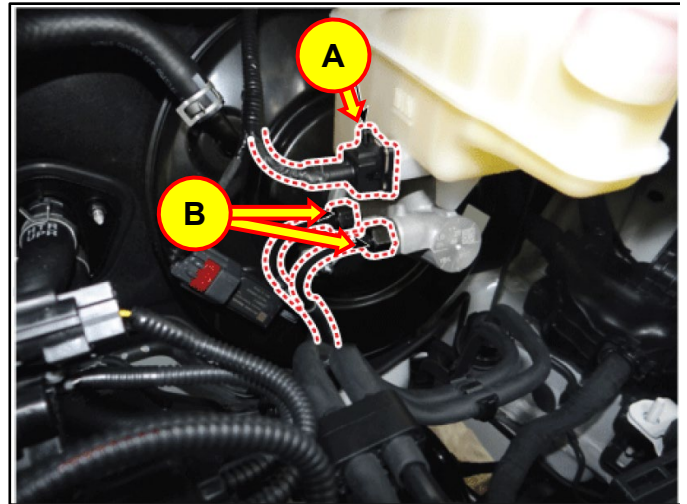
Service Procedure:

1. Record the customer's radio presets.
2. Remove Air Cleaner Assembly, Battery, and Engine Control Module.

Refer to the applicable sections of the shop manual for removal and reinstallation.



3. Remove the brake fluid from the master cylinder reservoir.
4. Disconnect the brake fluid level switch connector (A) and disconnect the brake tube (B) from the master cylinder by loosening the tube flare nut.



Brake Tube Flare Nut Torque

lb-ft	• 9.4-12.3
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kgf.m	• 1.3-1.7
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N.m	• 13.7-16.7
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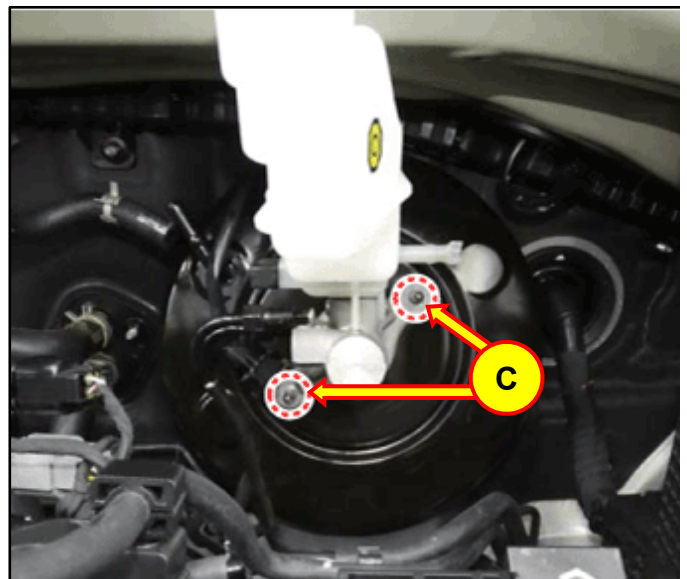
5. Remove the master cylinder and reservoir assembly from the brake booster after loosening the mounting nuts (C).

Master Cylinder Mounting Nut Torque

lb-ft	• 9.4-12.3
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kgf.m	• 1.3-1.7
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N.m	• 12.7-16.7
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6. Reinstall the removed parts in reverse order of removal.

7. Fill the master cylinder reservoir to the MAX (upper) level line.
8. Continue with the brake bleeding procedures below.

CAUTION

- Do not reuse drained fluid.
- Always use genuine DOT4 brake fluid. Using non-genuine DOT4 brake fluid can cause corrosion and decrease the life of the brake system.
- Verify dirt or other foreign matter does not contaminate the brake fluid.
- Do not spill brake fluid onto the vehicle. This may lead to paint damage. If brake fluid contacts any paint surface, wash the surface off immediately with water.
- The reservoir on the master cylinder must be at the MAX (upper) level mark at the start of bleeding procedure and checked after bleeding each brake caliper. Add fluid as required.

Brake Bleeding Procedure:

1. After reassembly, bleed the brake system.

Use a hose placed in a partially filled container of brake fluid to catch brake fluid from the system.



2. Start with the rear right brake. Attach the clear hose to the brake bleed screw.

Have an assistant slowly pump the brake pedal several times and then fully hold the brake pedal down.

While the brake pedal is held down, open the brake bleed screw for a couple of seconds, then tighten the bleed screw.



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3. Repeat two to three times until air bubbles are no longer present in the tube.

Brake Bleed Screw Tightening Torque

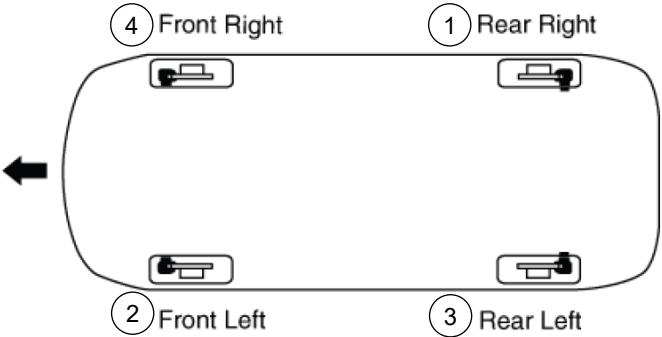
lb-ft • 5.1-9.4

kgf.m • 0.7-1.3

N.m • 6.9-12.7

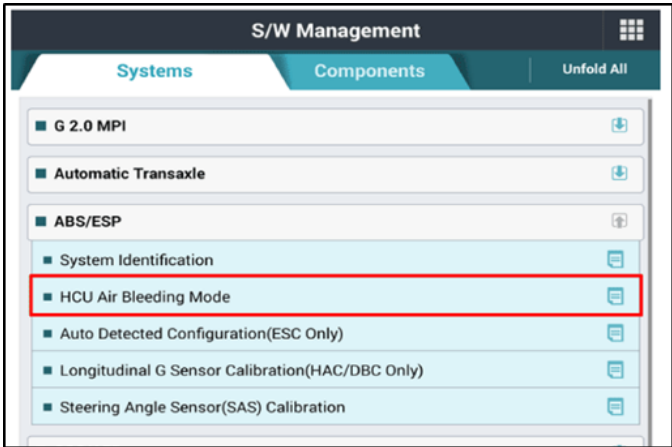
4. **Always maintain proper brake fluid level in the reservoir.**

After completing the procedure at the rear right position, repeat the procedure in the sequence shown until air bubbles no longer appear in the fluid.



5. Refill the master cylinder reservoir to the MAX (upper) level line.
6. Connect the GDS-M to the vehicle, and then select 'HCU Air Bleeding Mode'.

System → ABS/ESP → HCU Air Bleeding Mode



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7. Return to the rear right caliper. Attach the clear hose to the brake bleed screw.

Inform the assistant to select the rear right button to activate the HECU.

Once the HECU has activated, the assistant should press and release the brake pedal repeatedly at regular intervals.

When the activation stops, the assistant should hold the brake pedal down.

Open the brake bleed screw for a couple of seconds, then tighten the bleed screw.

The HECU will activate again. Follow the procedure above.

NOTICE

Disregard the bleeding sequence as noted in the GDS-M. Please follow the sequence in this TSB.

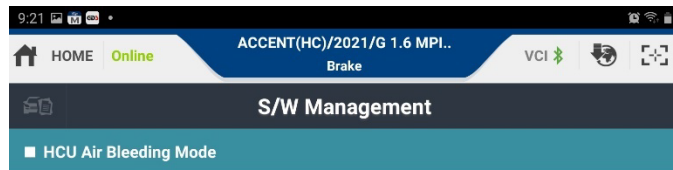
8. **Always maintain proper brake fluid level in the reservoir.**

After completing the procedure at the rear right position, repeat the procedure in the sequence shown until air bubbles no longer appear in the fluid.

9. Refill the master cylinder reservoir to the MAX (upper) level line.

10. Restore the customer's radio presets, check that the brakes are operating properly, and clear any DTC.

11. The service procedure is now complete.



[HCU Air Bleeding Mode]

Please proceed sequentially as follows:
FL (Front Left) -> FR (Front Right) -> RL (Right Left) -> RR (Rear Right)

Disregard the GDS-M bleeding sequence

Repeated operation with a same caliper is not permitted due to the risk of system overload.

If extra work is required, it should be performed 10 minutes later after completing 4 wheels operations.

⚠ [CAUTION]

Be careful to unlock a corresponding caliper bleed port because it may cause vehicle fuse disconnection.

[C1] button : FL air bleeding

[C2] button : FR air bleeding

[C3] button : RL air bleeding

[C4] button : RR air bleeding

[Cancel] button : Turn off

