

# Service Information

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Category <b>P</b>	<b>Repair Guidance</b>	Ref. No. R052/16 <b>C</b>	Page 1 of 6
Coverage <input type="checkbox"/> Distributor only <input checked="" type="checkbox"/> Please inform your dealers		Date Issued June 20, 2016	
Please convey this information to your <input checked="" type="checkbox"/> Warranty Dept. <input checked="" type="checkbox"/> Parts Dept. <input checked="" type="checkbox"/> Training Dept. <input checked="" type="checkbox"/> Field Rep.	<input type="checkbox"/> Director <input checked="" type="checkbox"/> General Manager	Date Revised February 24, 2017	
Applicable Model  CX-5 (KE) with Electric Parking Brake (EPB)	Applicable Countries or Specifications  Worldwide		

**REVISED**

## Revision Note:

- This revised Service Information is to advise of the new repair procedure of replacing the affected caliper(s) with (a) modified one(s).
- Do not use the previous repair procedure of replacing the electric parking brake control module with a modified one any longer as which is not effective enough to solve this concern.
- Revisions are noted in red.

## Subject: Noise from REAR BRAKE/Trace of Rear Brake Dragging

### DESCRIPTION

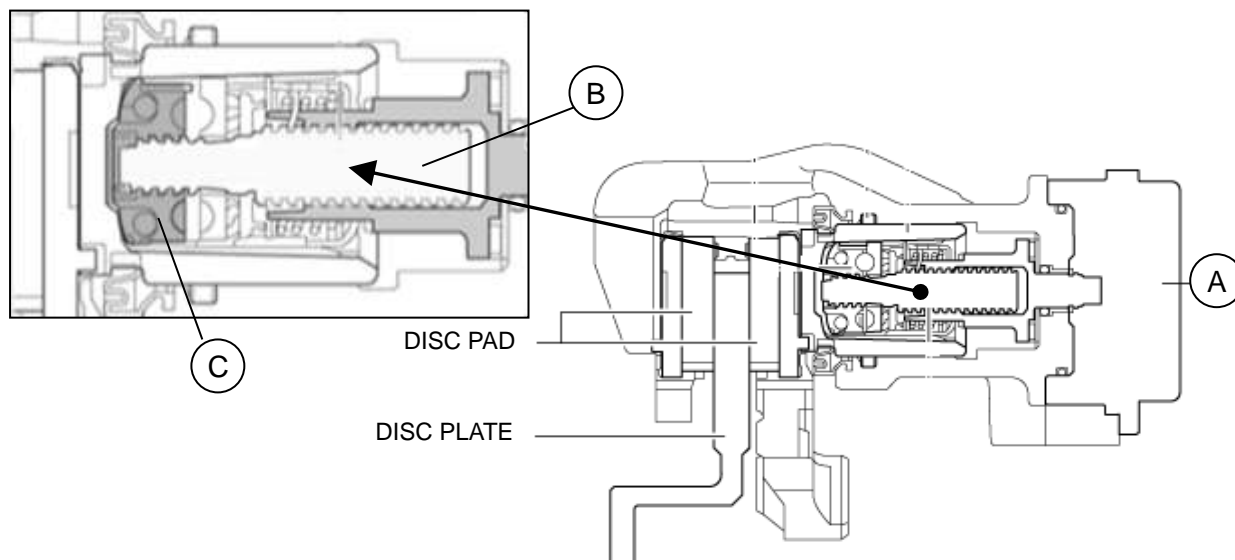
Some vehicles with the electric parking brake (EPB) may exhibit the rear brake dragging resulting in brake noise and the outer disc pad abnormally worn out. **Or the vehicle may roll momentarily when starting from a standstill with the EPB applied. (The EPB is not automatically released for both wheels at the same time.)**

### CAUSE

**This concern is caused by the EPB being not completely released.**

**The EPB control module judges that the parking brake is completely released when the current value flown to the motor (A) drops to the threshold, namely when the rotating torque of the spindle (B) drops.**

**Due to insufficient accuracy of the screw threads of the ball and ramp (C), the spindle (B) may idle momentarily during the EPB release operation causing the spindle rotating torque (the current value to the motor) to drop to the threshold before completely releasing the parking brake.**



## MASS PRODUCTION CHANGE

The ball and ramp has been modified to improve the accuracy of screw threads.

## SUBJECT VIN RANGE & DATE OF MODIFICATION

### CX-5

Spec.	VIN Range		Date of Modification
Australia	JM0 KE **** **	300001 - 399047	September 9, 2016
GENERAL (R.H.D.)	JM6 KE **** **		
GENERAL (L.H.D.)	JM8 KE **** **		
ISRAEL	JMZ KE **** **		
EUROPE	JMZ KE **** **	400001 - 531527	
US (2016 MY) MEXICO (2016 – 2017 MY)	JM3 KE **** **	600015 - 866136	From Parts shipment on September 10, 2016
CHINA (China build)	LVR*****	150040 - TBD	

## REPAIR PROCEDURE

When you receive a customer complaint on this concern, use the following diagnosis and repair procedures.

### DIAGNOSIS PROCEDURE

- Verify that the EPB is automatically released at both wheels at the same time when starting the vehicle from a standstill with the EPB ON.
  - Depress the brake pedal firmly.
  - Turn on the EPB switch.
  - Start the vehicle slowly from a standstill and check if the vehicle rolls to one side.
    - If the vehicle rolls for more than 0.2 second, the caliper, at the side the vehicle rolls to, is defective. Go to REPAIR PROCEDURE.
    - If the vehicle does not roll, the EPB is automatically released correctly at this moment. Go to next step.

**NOTE:** If the EPB is not released for the both wheels at the same time, the vehicle rolls at the vehicle start up to the side (A) that the EPB is released late/incorrectly. See the figures below.

The vehicle starts without rolling.



In this case, the right side EPB (A) is released late/incorrect so the vehicle rolls to the right.



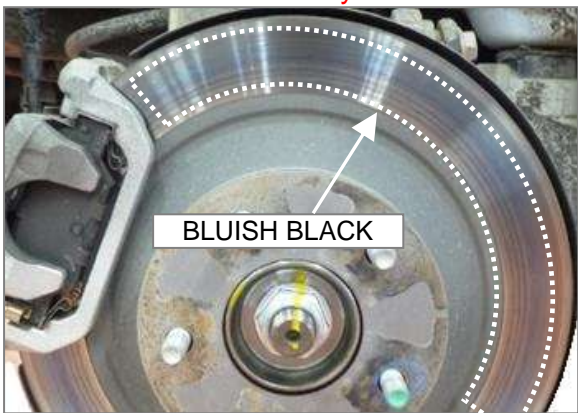
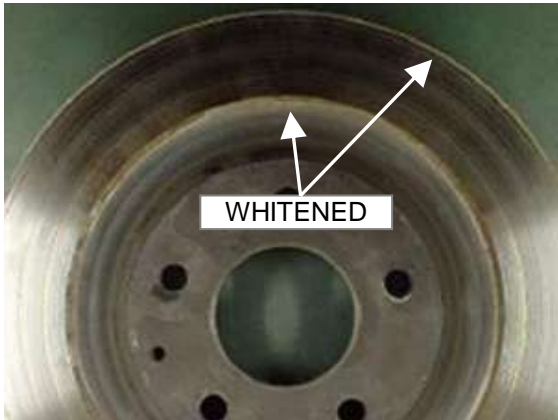
- Drive the vehicle at low speeds and check if the rear brake dragging noise is heard.
  - If YES, the caliper at the side having the noise is defective. Go to REPAIR PROCEDURE.

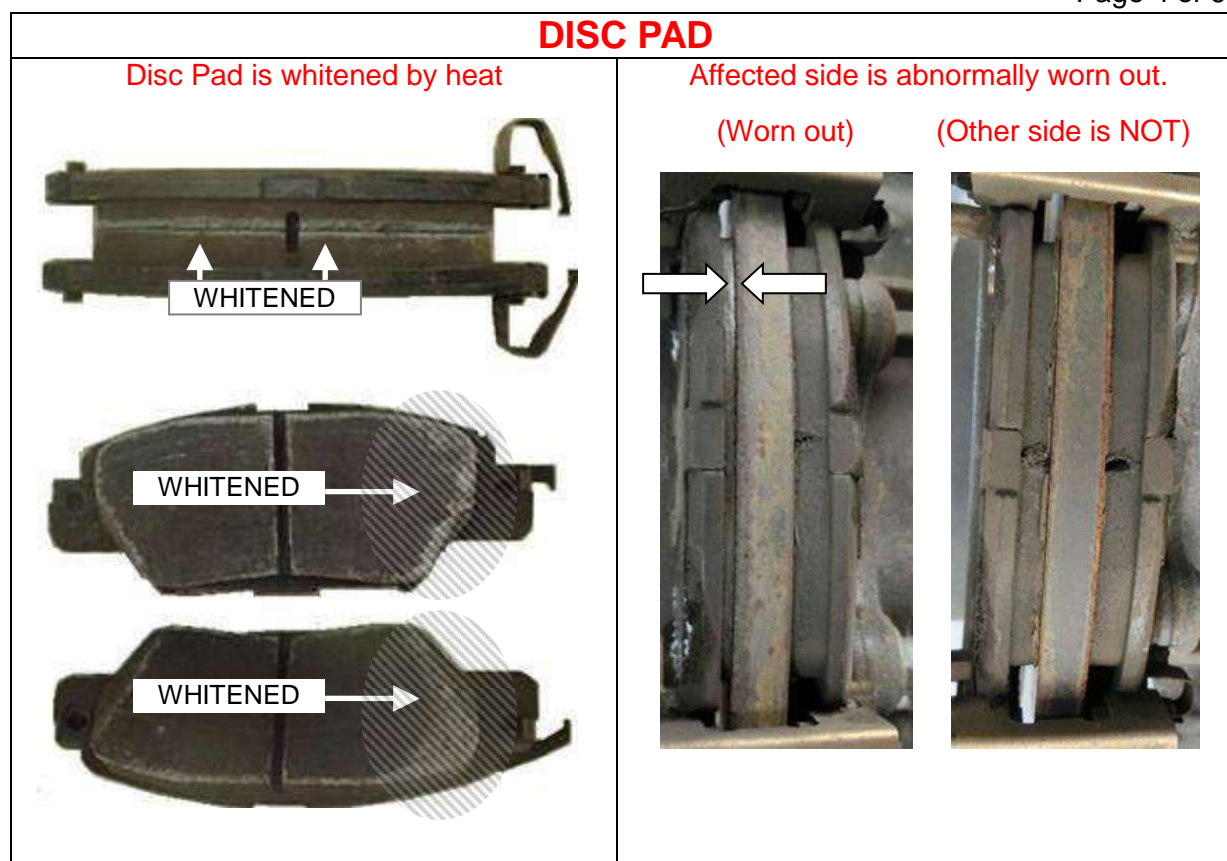
**NOTE:** If it is difficult to detect from which side the noise comes, lift up the vehicle and turn the wheels to verify.
  - If NO, go to next step.
- Verify that the disc plates rotate by hands when the EPB is OFF.
  - Lift up the vehicle and remove the rear tires.
  - Depress the brake pedal firmly and turn ON the EPB switch.
  - Release the brake pedal and turn OFF the EPB.

- ④ Verify that that disc plates rotate by hands as shown in figure.
- If the disc plate does not rotate, the affected side caliper is defective. Go to REPAIR PROCEDURE.
  - If the both disc plates rotate smooth, go to next step.



- 4) Check the disc plates and disc pads for damage/discoloration by brake dragging.
- If one or more of conditions specified below is/are found, it indicates brake dragging and the affected side caliper is defective. Go to REPAIR PROCEDURE.
  - If the disc plates and pads are in normal condition, the problem does not exist. This Service Information is not applicable.

DISC PLATE	
<p>Area contacting disc pad is discolored to bluish black by heat</p>  <p>BLUISH BLACK</p>	<p>Area not contacting disc pad is whitened by heat.</p>  <p>WHITENED</p>



### REPAIR PROCEDURE

If the caliper has been found to be defective by the diagnosis procedure, replace the affected side caliper(s) with a modified one(s) according to the workshop manual “REAR BRAKE (DISC) REMOVAL/INSTALLATION” and “ELECTRIC PARKING BRAKE MOTOR GEAR UNIT REMOVAL/INSTALLATION”.

**NOTE:** If the disc plate(s)/disc pad are damaged, inspect and replace the affected side(s) as necessary according to the workshop manual “REAR BRAKE (DISC) REMOVAL/INSTALLATION” and “DISC PAD (REAR) REPLACEMENT”.

### PARTS INFORMATION

#### **CX-5**

Part Number	Part Name	Q'ty	Remark
KAY0-26-61XA	CALIPER (R)	1	
KAY0-26-71XA	CALIPER (L)	1	
9956-21-000	GASKET	2 or 4	<b>R</b>
KAY0-26-44Z	SEAL KIT, MOTOR	1 or 2	<b>R</b>
KAY0-26-48Z	PAD SUB SET,	0 or 1	Replace if necessary.
K011-26-251B	PLATE, DISC	0, 1 or 2	Replace affected side(s) if damaged.

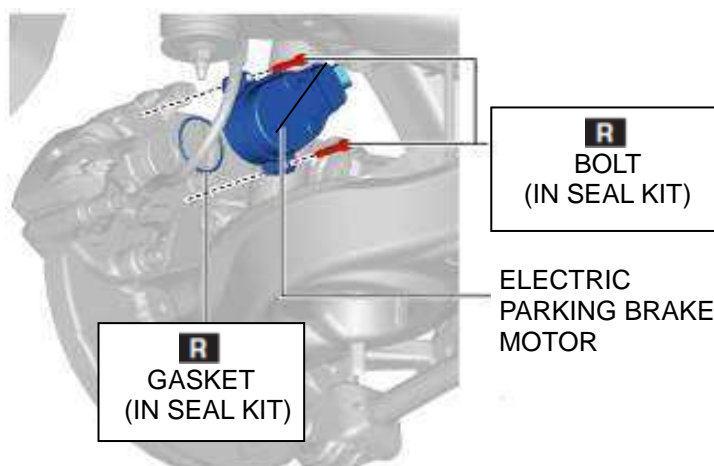
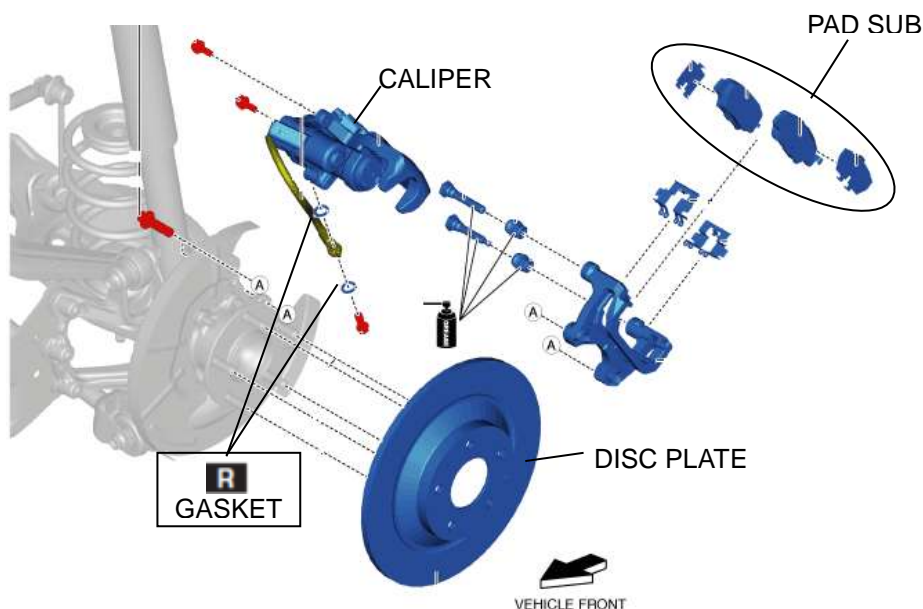
**NOTE:** Part numbers of caliper have not been changed by this modification. Distinguish the modified one from old one using the 3-digit lot number (Production Date) stamped on the caliper. Calipers with the lot number (production date) of 697 (2016/09/07) and higher are modified.

**6 9 7 = 2016/09/07**

↑     ↑     ↑  
 Date:     7 = 7  
 Month:    9 = September  
 Year:     6 = 2016



PARTS LOCATION (Sample: CX-5)





## WARRANTY INFORMATION

Assembly group	P – Braking System
Subassembly group	P06 - PARKING BRAKE
Symptom Code	40 (Brakes drag)
Damage Code	9W (Internal failure)
Causal Part No.	KAY0-26-71X* or KAY0-26-61X* (Caliper)
Qty.	1
Operation Numbers and Labor Hours	See the SRT Table below
Period Covered	Normal Warranty Period
Prior Approval	For CALIPER replacement: NO
	For PAD SUB SET and PLATE, DISC replacement: Warrantable within 20,000 km / 12 months in service hereafter <b>Prior Approval</b> required

### SRT TABLE

(Select one which is applicable to the actual repair from the table.)

Operation (Replaced parts)			Operation No.	Labor Hours	
CALIPER	DISC PLATE	PAD		CX-5 & CX-9 w/o iSTOP	CX-5 w/ iSTOP
Replace one side	Not replace	Not replace	XXN1RARX	0.8	0.9
Replace both sides	Not replace	Not replace	XXN1RBRX	1.0	1.0
Replace one side	Replace one side	Replace	XXN1RCRX	0.9	1.0
Replace both sides	Replace one side	Replace	XXN1RDRX	1.1	1.2
Replace both sides	Replace both sides	Replace	XXN1RERX	1.2	1.3

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