



Service Bulletin

American Honda Motor Co., Inc.

SAFETY RECALL

2013 CBR500R/RA CB500F/FA CB500X/XA ROCKER ARM SHAFT RETAINING BOLT REPLACEMENT

American Honda Motor Co., Inc. is conducting a SAFETY RECALL of affected 2013 CBR500R/RA, CB500F/FA, and CB500X/XA motorcycles. Honda has determined that an improper surface finish on the rocker arm shaft retaining bolts can allow them to loosen and fall out while riding.

Safety Consequence

A loose bolt could lead to an oil leak or engine stall which increases the risk of a crash.

CUSTOMER NOTIFICATION

American Honda is sending a letter to owners of all affected 2013 CBR500R/RA, CB500F/FA, and CB500X/XA motorcycles, informing them that their motorcycle is being recalled for a safety-related defect. The customer will be made aware of the safety risk and advised to have a Honda dealer replace the rocker arm shaft retaining bolts and sealing washers.

For your reference, a copy of the Customer Letter is reproduced on page 4 of this Service Bulletin.

AFFECTED UNITS

2013 CBR500R

MLHPC441*D5000002 thru MLHPC441*D5003719

2013 CBR500RA (ABS)

MLHPC440*D5000001 thru MLHPC440*D5000868

2013 CB500F

MLHPC451*D5000001 thru MLHPC451*D5000762

2013 CB500FA (ABS)

MLHPC450*D5000001 thru MLHPC450*D5000191

2013 CB500X

MLHPC461*D5000002 thru MLHPC461*D5001265

2013 CB500XA (ABS)

MLHPC460*D5000001 thru MLHPC460*D5000151

(*) denotes check digit

DEALER INVENTORY

According to federal law, any affected units in your new or used inventory cannot be sold or leased until they are repaired.

Refer to the REPAIR VERIFICATION and REPAIR PROCEDURE sections of this Service Bulletin.

REPAIR VERIFICATION

Before you begin the repair procedure, check if the repair has been performed on the unit. See the IDENTIFICATION section of this Service Bulletin for more details.

- If there is a punch mark – No further action is necessary.
- If there is no punch mark – The unit has not been repaired, and you must proceed with the REPAIR PROCEDURE section of this Service Bulletin.

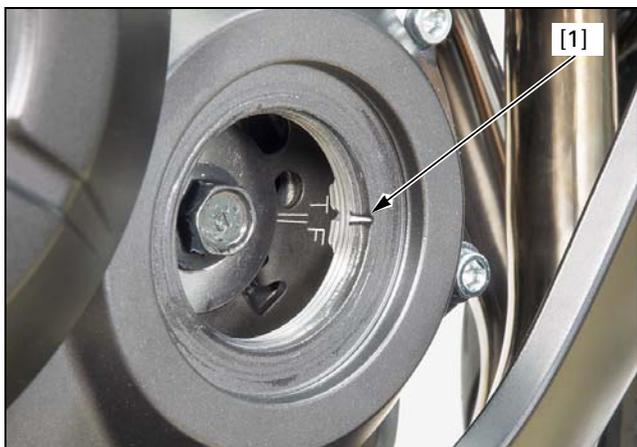
NOTE: Your *eResponsibility Report* or *Unit Information* on **IN** can also provide helpful campaign information. However, the identification mark on the unit itself is the best indication of campaign repair verification.

If you have any questions about repair verification, please contact your DSM or TechLine at (800) 421-1900 or through TechLine Connect on **IN**.

REPAIR PROCEDURE

1. Remove the crankshaft inspection cap. Rotate the crankshaft clockwise and align the “T- mark” with the notch on the case cover [1].

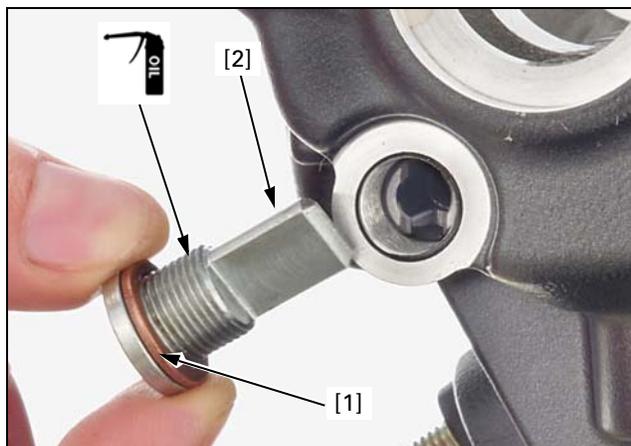
CBR500R/RA ONLY: Using the appropriate Service Manual, refer to page 2-8 and remove the left Middle Cowl.



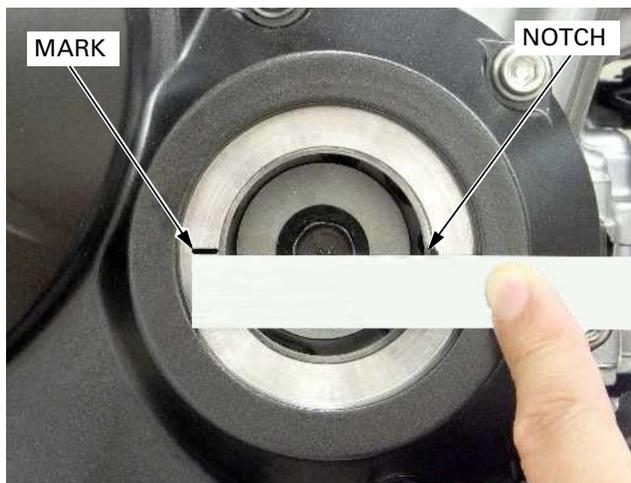
2. Using a 6 mm hex wrench, initially loosen the exhaust rocker shaft retaining bolt one turn.

- If the retaining bolt can be further loosened using only your fingers, GO TO STEP 3.
 - If the bolt cannot be loosened with your fingers, ROTATE THE CRANKSHAFT 360° and go to Step 3.
3. Remove the retaining bolt and sealing washer.
 - Verify there is no valve pressure against the rocker arm shaft by rotating it with a flatblade screwdriver using light finger pressure.
 4. Install a new sealing washer [1] to the new camshaft rocker retaining bolt [2] and apply clean engine oil to the threads and washer. Install the new bolt and tighten to the specified torque.

Torque: 16 N-m (1.6 kgf-m, 12 lbf-ft)



5. Mark the inner portion of the crankcase cover directly opposite from the notch using a ruler or straight edge as shown below.



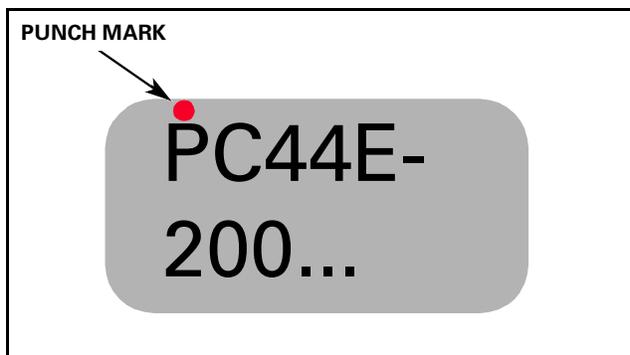
6. Slowly rotate the crankshaft clockwise 180° and align the “T-mark” with the mark opposite the notch.
7. Repeat Steps 3 and 4 for the intake rocker arm shaft retaining bolt.
8. Coat the new 45 mm O-ring with clean engine oil and install it into to the groove in the crankshaft inspection cap. Apply grease to the threads of the hole cap and install it. Tighten to the specified torque.

Torque: 18 N·m (1.8 kgf·m, 13 lbf·ft)

9. **CBR500R/RA ONLY:** Refer to the Service Manual and install the left Middle Cowl.

IDENTIFICATION

After you have completed the REPAIR PROCEDURE, apply a punch mark above the first character of the ENGINE NUMBER located on the right crankcase. See the following illustration for placement.



CLAIM INFORMATION

This Safety Recall will be in effect until all affected units have been repaired according to this Service Bulletin, regardless of the date of purchase.

Normal warranty claim submission requirements apply. After completing the Service Bulletin repair procedure, submit one warranty claim per unit with the following information:

WARRANTY CLAIM TEMPLATES

2013 CB500F/FA/X/XA

Template: JD7A

Flat Rate Time: 0.4 hour

2013 CBR500R/RA

Template: JD7B

Flat Rate Time: 0.7 hour

PARTS INFORMATION

REQUIRED PARTS

Sealing Bolt Set Kit (1)

06120-MGZ-306

NOTE: The kit includes two retaining bolts, two washers, and one 45 mm O-ring.

TEXT OF CUSTOMER LETTER

TEXT OF THE CUSTOMER LETTER IS FORTHCOMING