

How to Service the Makita Jack Hammer HM1203C 2010

Replace all the relevant service kit parts in a Makita Jack Hammer HM1203C 2010.

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INTRODUCTION

Use this guide to service the Makita Jack Hammer HM1203C 2010. This includes replacing seals, grease, and motor brushes.

Wherever there's grease, make sure to clean it off and replace it with new grease. The recommended grease is Makita 181490-7.

Throughout this guide, the service kit parts will be referred to by their part description in the service kit, i.e. "O-ring 23".



TOOLS:

- Phillips #2 Screwdriver (1)
- Probe and Pick Set (1)
- Flathead Screwdriver (1)
- Snap Ring Pliers (1)
- 4 mm Hex Key (1)
- 6 mm Hex Key (1)
- Pin Punch (1)
- Hammer (1)
- 5 mm Hex Key (1)



PARTS:

- Makita Carbon Brush Set CB175 (1)
- Makita Cap 424165-8 (1)
- Makita Ring 262148-8 (1)
- Makita Ring 262149-6 (1)
- Makita O Ring 23, Hr5001C 213394-6 (2)
- Makita O-Ring 213499-2 (1)
- Makita O-Ring 213149-9 (1)
- Makita O-Ring 213079-4 (1)
- Makita X-Ring 213980-3 (1)
- Makita Fluoride Ring 28, Hr5001C 213431-6 (1)

Step 1 — Remove the motor cover



- Make sure the hammer is disconnected from power before beginning any repair.
 - Use a Phillips #2 screwdriver to remove the three screws securing the motor cover.

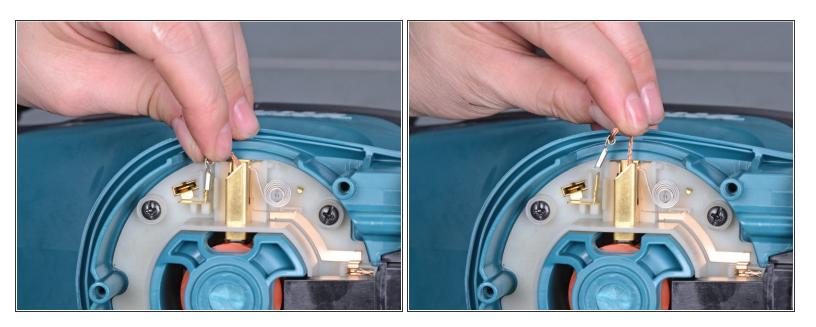
Step 2





Remove the motor cover.

Step 3 — Remove the brushes



Pull the brush connector straight off of its spade to disconnect the brush.

Step 4



• Use a pick or small flathead screwdriver to pull the brush retaining spring off of the brush.



- Lift the brush out of its motor housing while holding the retaining spring out of the way.
- Repeat the last three steps to remove the second brush.

Step 6 — Remove the side handle



 Unscrew the knob securing the side handle.





- Remove the bolt securing the side handle.
- Remove the side handle.

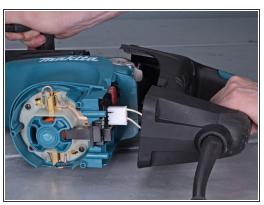
Step 8 — Remove the handle assembly



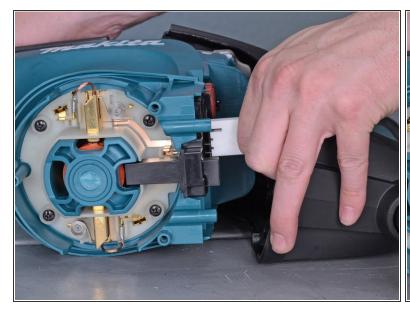
 Use a Phillips #2 screwdriver to remove the six screws securing the handle assembly.

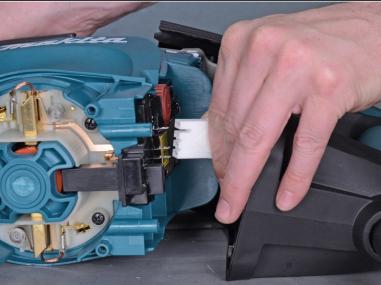






Pull the handle assembly away from the hammer, but do not completely remove it yet. It's still
connected to the hammer by a power cable.





- Pull the power connector straight off of its plug.
- Remove the handle assembly.

Step 11 — Disassemble the front end







- Use a small pry bar or flathead screwdriver to pry the rubber front cap off of the hammer.
- (i) This can be replaced as part of a service kit.





- Use a pair of snap ring pliers to expand the snap ring on the front of the hammer.
- Remove the snap ring.

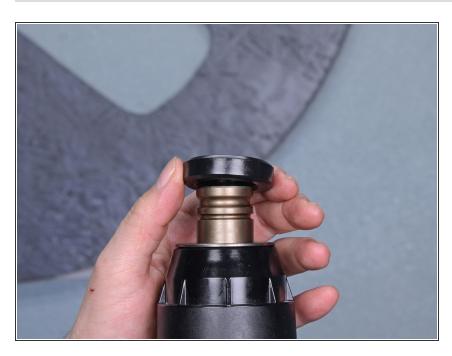


 Remove the washer on the front of the hammer.

Step 14



 Lift the front cover off of the front of the hammer.



• Lift the rubber ring off of the front of the hammer.

Step 16



Remove the inner front cover.







 Compress the spring and hold it down while you pull the two retainers out of their slots and remove them.





- Remove the spring guide.
- Remove the spring.

Step 19 — Remove the barrel





Remove the front barrel cover.

Step 20



 Remove the 4 mm hex bolt securing the barrel cover.





Lift the barrel cover straight up and remove it.





- Use a pair of snap ring pliers to expand the snap ring securing the bolt holder.
- Remove the snap ring.





Lift the washer off of the bolt holder and remove it.

Step 24



 Remove four 6 mm hex bolts securing the barrel.





Lift the barrel straight up and remove it.

Step 26 — Remove the rubber ring 39







Use an angled pick to pull the washer and rubber ring 39 out of the barrel.



- Remove the rubber ring 39.
- This can be replaced as part of a service kit.

Step 28 — Remove the bolt holder



 Lift the upper-most rubber ring straight up and remove it from the bolt holder.



 Lift the upper-most washer straight up and off of the bolt holder.

Step 30





 Grasp the bolt holder, rubber ring 24, and the two metal sleeves below it, and lift it off of the cylinder.

Step 31 — Remove rubber ring 24





Separate the rubber ring 24 and the two metal sleeves from the bolt holder.





- Separate the rubber ring 24 from the two metal sleeves.
- Remove the rubber ring 24.
 - (i) This can be replaced as part of a service kit.

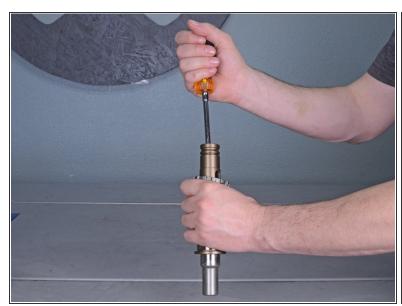
Step 33 — Remove the O-ring 35.5





- Use an angled pick to lift the O-ring 35.5 out of its groove on the bolt holder.
- Remove the O-ring 35.5.
- (i) This can be replaced as part of a service kit.

Step 34 — Remove the bolt





- Use a long punch, long flathead screwdriver, or a thin, long bar to push the bolt out of the bolt holder.
- Remove the bolt.
- During reassembly, make sure all the seals on the bolt stay seated properly while you slide the bolt back into the holder.

Step 35 — Remove the X-ring 21





- Use an angled pick to pry the X-ring 21 out of its groove in the bolt.
- Remove the X-ring 21.
- (i) This can be replaced as part of a service kit.

Step 36 — Remove the fluoride ring 28





- Use an angled pick to pry the fluoride ring 28 out of its groove in the bolt.
- Remove the fluoride ring 28.
- (i) This can be replaced as part of a service kit.

Step 37 — Remove the O-ring 23





- Use an angled pick to pry the O-ring 23 out of its groove in the bolt.
- Remove the O-ring 23.
- (i) This can be replaced as part of a service kit.

Step 38 — Remove the cylinder





- Lift the cylinder straight out of the aluminum housing.
- During reassembly, the cylinder will have to slide over the piston, which is sitting in the bottom of the aluminum housing. Make sure the piston is centered and pointing straight up so that it slides all the way into the cylinder.

Step 39 — Remove the striker





- Pull the striker out of the cylinder.
 - (i) You may need to shake the cylinder until the striker slides out of the bottom of the cylinder.
- During reassembly, install the cylinder first, then push the striker in through the top, as seen in the second photo. Make sure the cylinder is seated all the way down into the housing before inserting the striker.

Step 40 — Remove the striker O-ring 31.5





- Use a pick to pry the striker O-ring 31.5 out of its groove on the striker.
- Remove the striker O-ring 31.5.
- (i) This can be replaced as part of a service kit.

Step 41 — Remove the housing

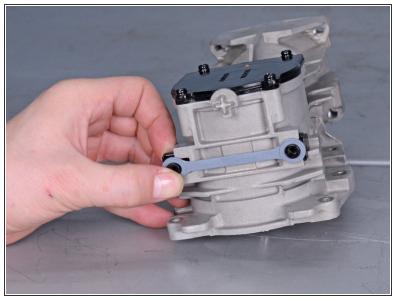


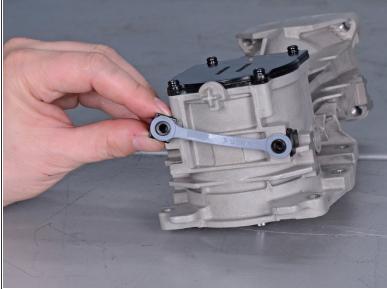
 Use a 5 mm hex key to remove the six screws securing the aluminum housing.



 Separate the aluminum housing from the rest of the hammer.

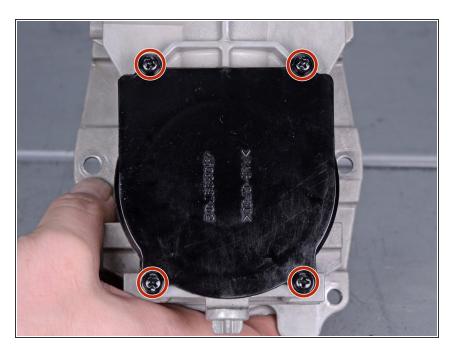
Step 43





• Slide the fix guides and the rubber plate out of their slots on the housing and remove them.

Step 44 — Remove the piston



 Use a Phillips #2 screwdriver to remove the four screws securing the piston cover.

Step 45



Remove the piston cover.





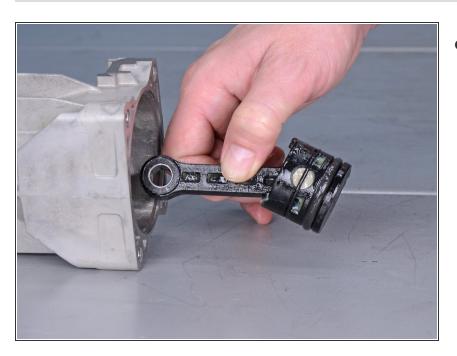
- Rotate the crank shaft and the connecting rod so that the rod is vertical and the end is at the very bottom of the housing.
 - in the next steps.







- Use an arbor press and a custom punch to carefully press the crank shaft, bearing, and gear assembly out of the housing.
- If you don't have access to a press or custom tool, use a punch and a hammer to tap the crank shaft until the whole crank shaft, bearing, and gear assembly starts to slide out.
 - (i) It may also be necessary to use a smaller punch to tap on the edges of the bearing through the small holes in the aluminum housing on either side of the crank shaft.
- During reassembly, make sure the bearing and gear are lined up with the hole in the aluminum housing before pressing them back in. Make sure the shaft is lined up with the cutout before reinstalling the assembly.



 Pull the connecting rod and the piston out of the housing.

Step 49 — Remove the piston O-ring 31.5





- Use a pick to pry the piston O-ring 31.5 out of its groove in the piston.
- Remove the piston O-ring 31.5.
- (i) This can be replaced as part of a service kit.

Step 50 — Remove the O-ring 35







- Use a pick to pry the O-ring 35 out of its groove in the piston.
- Remove the O-ring 35.
- (i) This can be replaced as part of a service kit.

To reassemble your device, follow these instructions in reverse order.