Honda 600 points breaker plate refurbishing.

Bill Colford

Introduction

First, the shaft of the breaker plate, (the bright colored side of the two plates) wears.

This wear causes the points to lose the necessary gap .016 to maintain good spark to the spark plugs.

This brief instruction gives a fix for the wear to the center shaft.

Tools necessary to complete the task are:

1 small plastic bag.
1 breaker plate with some wear, but not to much.
Some .001 stainless steel shim stock, about 3X4 inches.
A "C" clip expanding tool
A small file to de-bur the top edge of the shaft.
1 single edge razor blade
Bearing grease
A spray can of carburetor cleaner
Clean cloth
And about a half hour to do the work

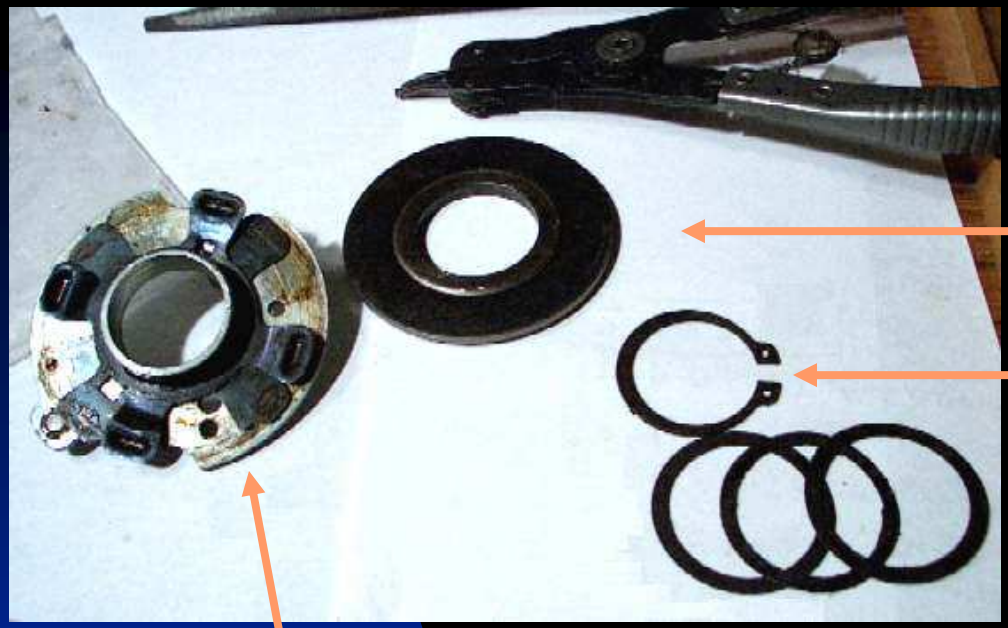
Topics of Discussion

1. Start by placing the breaker plate assembly in the small plastic bag and remove the "C" clip. (Note: the bag is necessary to catch the small ball bearings which will be otherwise lost.)

2. Remove the spring washers (while keeping the assembly in the plastic bag)

3. Remove the dark colored plate (make sure the ball bearings stay in the plastic bag) Some de-burring may have to be done with the file along the upper edge where the "C" clip sets just under.

4. Ensure all 4 of the ball bearings are in plastic bag and remove the assembly from the bag and clean everything.



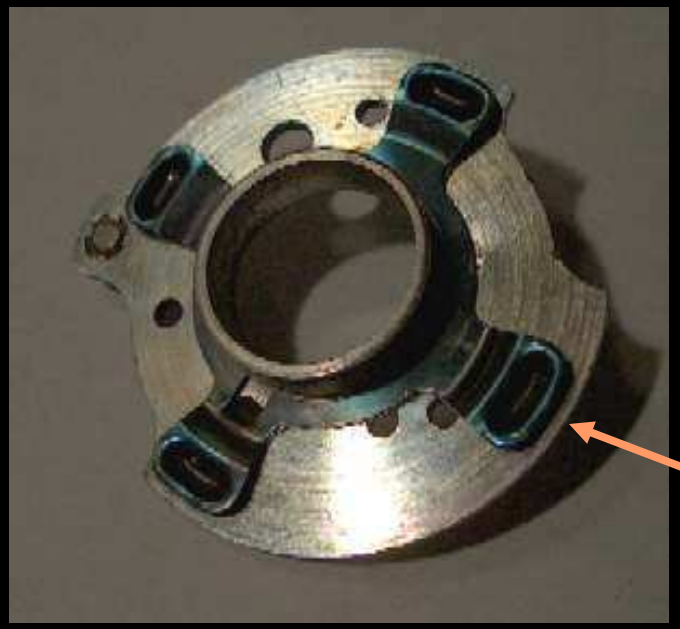
Dark Colored plate

"C" Clip

2 flat washers, 1 spring washer

Bright colored plate with shaft, also shown are the two 4 sided bearing races. The flat 4 sided part of the race is always under the cupped part.

5. Reassembly:



6. **Start with the flat 4 sided part of the bearing race, then place the cupped 4 sided part of the race making sure the tang rests in the smaller of the two larger holes in the bright colored plate. See picture above.**

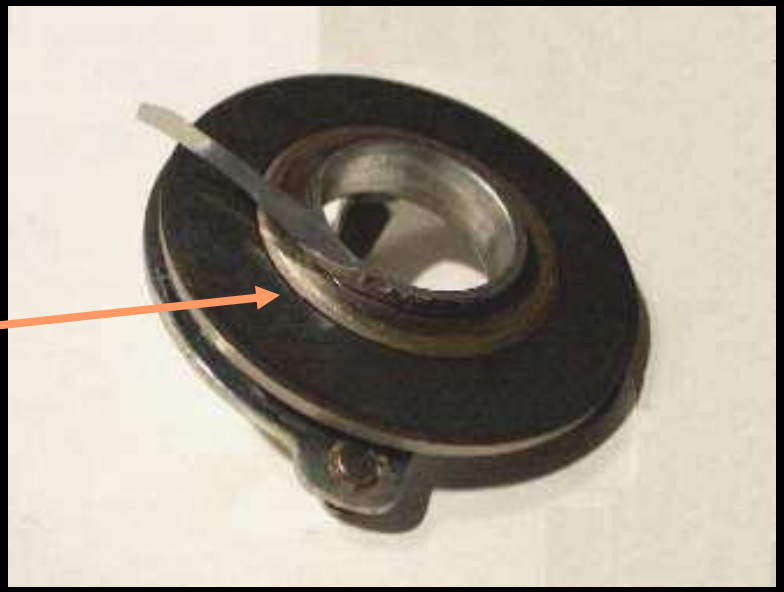
7. **Now put just a dab of bearing grease at one end in each of the cups and place a ball bearing in the grease in each cup.**

8. Next, place the dark colored plate (have the smoothest of the center plate to the out side. Now check to see how much side play there is between the dark colored plate and the center shaft. This is where the .001 stainless shim sheet will go.

9. Cut about 1/4 to 3/8 wide and 3 inches long strip of the stainless shim sheet.

10. Now work the shim sheet between the shaft and plate. You want to slide in at least one full circle of the shaft, this is to ensure equal distance on both sides (Note: on some very warn breaker plates do more than one time around the shaft). Turn the dark plate to help slide the shim into place. There will be at least half the width of the shim above the plate, this is ok, as it is turned down to assist in keeping it in place.

Trim here with the razor



11. Once you have all the shim in place, use a razor blade to trim the excess and fold the shim stock above the dark plate over onto the plate (do not cut it off).

12. Place 1 flat washer then the spring washer and 1 flat washer followed by the C Clip. Ensure the "C" clip is in the groove, it may take some tapping to get it in. Now there should be no side play in the plate and it should turn smoothly. If it is a bit tight, work it back and forth a bit and it will loosen up.

Now turn it over and attach the points, and condenser, make sure none of the screws you use are to long. The screws should not touch the dark plate, if they do the plate will not turn for the advance.

Finished