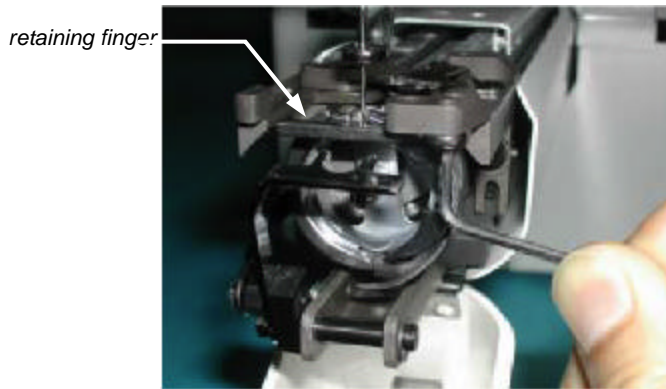


# TECHTIPS

## For HAPPY HCS Voyager

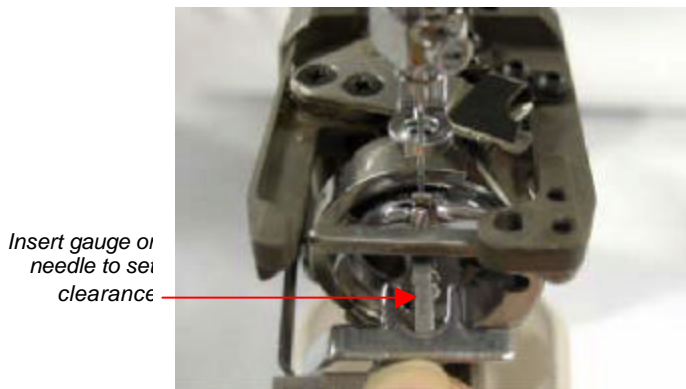
### Rotary Hook Area: Adjustment of Retaining Finger

The **retaining finger** is a metal bar approx. 1.5" in length with a small stub along its inside center. The center stub serves to hold the bobbin case in place as the rotary hook spins around it. The retaining finger rarely comes out of adjustment on its own and mis-alignment is more often after work has been done in the hook/bobbin area. A mis-aligned retaining finger can cause the bobbin case to slip and rotate out of place, or prevent stitches from forming at all. Follow these directions for correct adjustment. Beforehand, use the offset screwdriver that came with your toolkit to remove the **needle plate**.



**2. Open the rotary hook door and loosen the set screw** just enough to allow the retaining finger to move. Use a 2mm hex wrench.

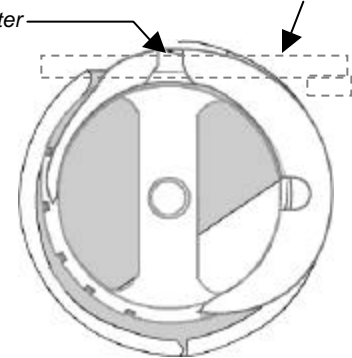
**1. Temporarily insert the forward screw** for the needle plate to ensure enough clearance for this screw as the retaining finger is adjusted.



**Front View**

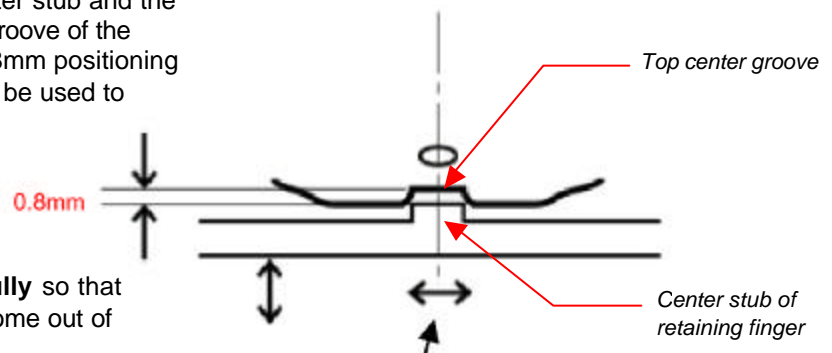
Top-center groove

Retaining finger lays across and forward of upper rotary hook here.



**3. Adjust the retaining finger** as shown to (1) Center the stub in-line with the needle center, and to (2) set clearance to 0.8mm between the back of the center stub and the front edge of the top-center groove of the rotary hook assembly. A 0.8mm positioning gauge or a 75/11 needle can be used to help set this tolerance.

**Top View**



**4. Tighten set screw carefully** so that retaining finger does not come out of adjustment.