

The position finger bracket in Fig1 is what locks the bobbin case in place.

On the right side of the bobbin case there are 2 brackets, and 2 screws. The clearance on these between the bracket and bobbin case is approximately .016. You can use an automotive feeler gauge to adjust. Loosen the two screws, place the feeler gauge between the bracket and bobbin case. Slide the bottom bracket over until contact is made with the feeler gauge, snug the two screws. A little free play should be noticed, per the .016 clearance adjustment. The top bracket, still on the left, should have approximately .016 to .020 clearances. The main function of the top bracket is to help prevent the case from popping up and forward during the sewing cycle, course all the brackets play a part in this, but this is the key bracket.

Installing the bobbin case, the position finger on the left, reverse the direction when locking into place.

Apollo Type System:

I do not have an actual Touch & Sew machine with this system, but the removal is the same. Shown below is from a Singer Stylist 513 machine.

1. Using the flat blade screwdriver, turn the bracket as shown in figure 1, green arrow, counter clockwise. Note, it does not unscrew, just merely pivots. Turn it far enough to clear the bobbin case
2. Lift the bobbin case out of the hook system. It just floats on the hook, and should life out with no problem

