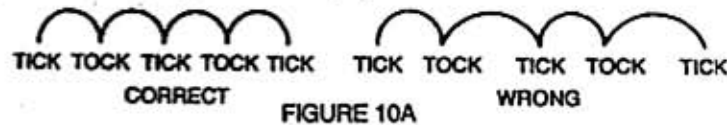


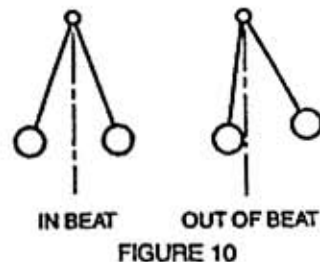
ADJUSTING MANUAL BEAT CLOCK

Our clocks are equipped with either an automatic or manual beat. Automatic beat does not require adjusting; its operation is covered under "starting automatic beat clocks".

The normal operation for any pendulum clock with the pendulum swinging is an evenly spaced sound.



If your clock is out of beat the pendulum will swing unevenly or even stop. It will also sound uneven. (See fig. 10A)



If this condition exists check the following:

1. Is the clock plumb?
2. Is the suspension spring twisted, bent or broken? If it is, it should be replaced.
3. Are the hands caught or rubbing?
4. Always make sure that the pendulum guide rides in the center of the verge tail slot, not touching the front or back.

After you have checked the above four and found them OK or fixed as necessary, you adjust the beat as follows:

1. Remove pendulum.
2. Move the crutch to the left and right. (See fig. 10 & 11)
The pendulum swing distance should be equal on both sides of the resistance point.
3. Move the crutch (See fig. 11) to the resistance point closest to the centerline.



FIGURE 11

- At the stop point apply additional pressure, this will force the crutch to slip and therefore the beat to change.
4. Check for equal distance from center line. Repeat step three as necessary, this is a trial & error adjustment.
5. Hang pendulum and listen to the TICK-TOCK. Repeat steps if necessary.