Oiling Instructions

Your clock is a precision instrument, but will remain so only with regular upkeep. This movement comes pre-oiled from the factory and will need to be cleaned and oiled on a regular basis. It's recommended the clock movement be thoroughly cleaned every 3-5 years and oiled every 1-2 years. Movements not maintained will require costly repair work.

NEVER USE SEWING MACHINE OIL OR SPRAY LUBRICANTS.

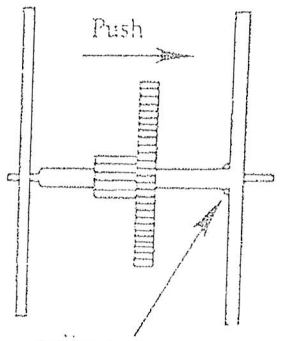
Your movement will need to be removed from the case for oiling. Examine it carefully for any signs of wear. Worn bushings, bent or deformed shafts, broken gear teeth and other obvious problems should be repaired by a qualified technician.
To oil your movement, place it on a flat surface and lean it back so the oil will go into the movement. Using the long needle oiler, a drop or two of oil into each of the gears pivot points. Make sure the oil stays in each of the oil wells. Don't allow the oil to run down the plate of the movement. If this happens, wipe it off with a lint free cloth and re-oil. Any oil that runs down the plate will take the remaining oil with it and you will have a dry pivot. When a pivot point is concealed from the outside of the plates, it will be necessary to reach that point from the inside.
Your clock movement is well made and sturdy, but in all handling be careful to avoid causing any damage.

Remember:

. Oil once per year.
. Use a recommended lubricant, we recommend Etsyntha Clock 859.

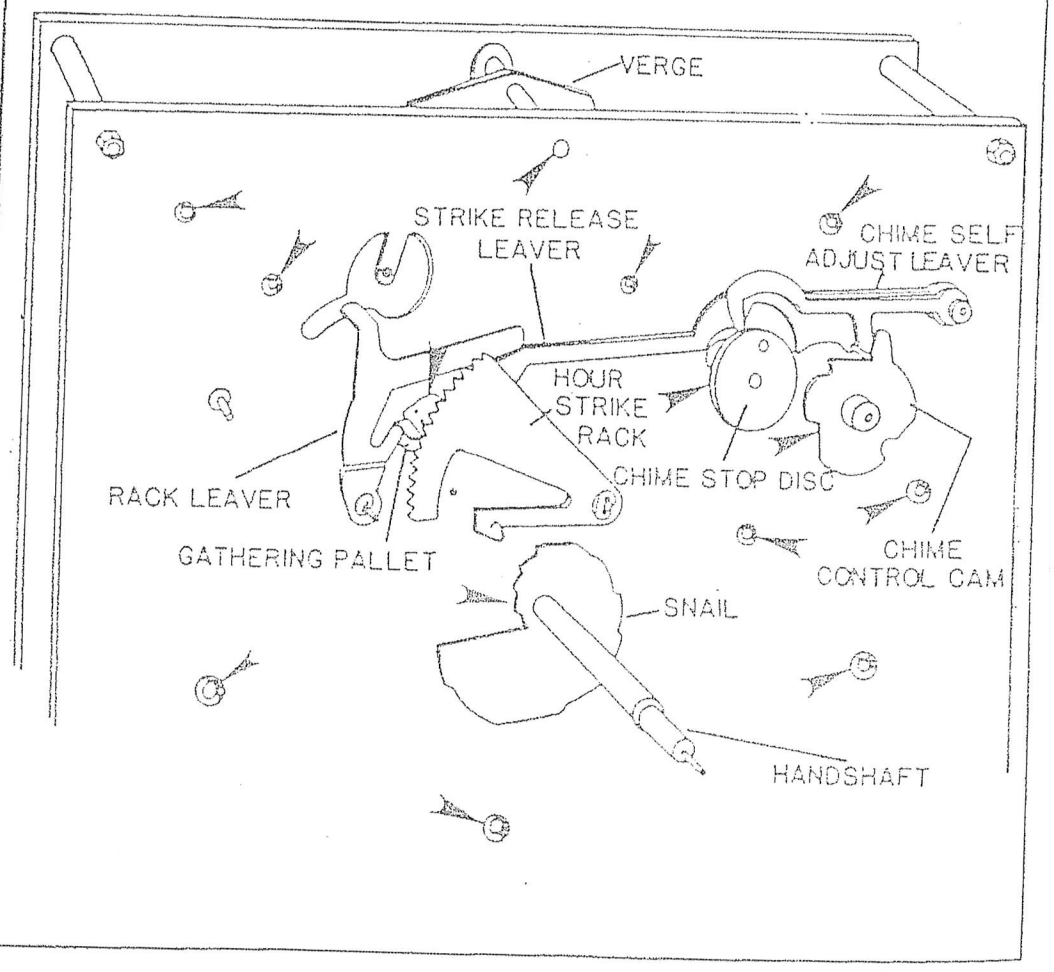
. Keep oil sealed at all times when not in use.
. Clean the tip of the oiler often.
. Place one drop of oil in all "oil sinks" of pivot holes.
. Place a "smear" of oil at all points where metal meets and rubs against metal.
A smear of oil is much a smaller amount than a drop.
. Too much oil is detrimental to the mechanism because:
    a. Oil attracts dirt. Lots of oil attracts lots of dirt. Oil and dirt together form a grinding compound which will cause wear to bearing surfaces.
    b. If there is so much oil that it runs out of the oil sink, all of the oil will be drawn away from the bearing surface, leaving the bearing surface dry. A dry bearing will wear very quickly.
. Too little oil is detrimental to the mechanism because it will quickly dry into a gummy substance which will retard and eventually stop the clock.

Fig. 16



(exagerated for illustration purposes)

Fig. 17



Cleaning Your Mechanical Works

Your mechanical works should be cleaned every 3-5 years depending on the climate in which you live. If you live in a dry, arid climate you will want to clean your works every 3 years and oil yearly.

To clean your works you will need a good grade of mineral spirits, a lint free cloth and a narrow, stiff bristled brush. Something like a stencil brush.

Remove the works from the clock case and set it on a towel on a table. Dip the brush into a small amount of the mineral spirits and clean the front and back plates, especially the pivot points. Wipe the brush on the cloth as it gets dirty. Then, clean the inside of the works. Brush away the old oil and dirt particles from pivot points on the inside. Also, clean the teeth of all the gears.

Once you are done, wipe down with a lint free cloth and use a hair dryer on low to dry the mineral spirits. Now you can oil the works. We recommend synthetic clock oil.