

Other parts will be injured by the accumulation of dust, but in no other part will it be so quickly fatal to good and easy work.

SECTION 32. The type bar shield (147 Z), which covers the type bars under the front of the carriage, can be removed by pulling it toward you. To replace it, lay it squarely on the centre of the top plate in front, and secure it in place by a gentle push backward.

### **Oiling, When and How.**

SECTION 33. Never use any but the very best oil (such as that used for clocks and watches) upon the typewriter. Porpoise-head oil seems to meet the requirements better than any other.

Never put on oil without afterward wiping off all the surplus that can be found outside the actual spot where friction can be caused, as it cannot do any good toward lubricating, but only catches the dust, and forms a gum that will prevent the machine from running lightly.

The top rods (2 Z, 3 Z, 118½ Z), upon which the carriage runs, and by which it is guided, ought to be cleaned every day by wiping with a cloth slightly saturated with oil, but only the slightest trace of oil should be left upon the surface.

The pinion-wheel shaft and escapement wheel should be oiled occasionally, by putting a drop of oil in each of the two oil holes which will be found in the top of the pinion-wheel stand (147½ Z, Figure 3).

Oil, when needed upon any other part of the machine, can be supplied best by dipping the end of a broom straw or the point of a pin into the oil, and then touching the spot to be oiled with it.

If at any time the teeth of the escapement wheel and the points of the dogs get dry and begin to wear, apply a little oil to the teeth of the escapement wheel. Two or three drops will be sufficient for all the teeth.

At intervals of about two months the type bar bearings should be oiled very lightly with a splint or broom straw.

The bearings of the spool shafts and the long ribbon movement shaft also need occasional oiling.

The joints of the carriage oscillator (158 C) will need occasional oiling; the upper joints can easily be oiled at the top, and the lower ones can be oiled through the oil holes made through their inner sides for that purpose.

Remembering these instructions, any of the wearing surfaces of the machine may be oiled, if necessary. BE VERY CAREFUL NOT TO PUT ON TOO MUCH OIL. WIPE OFF ALL THE SURPLUS. NEVER USE ANY BUT THE VERY BEST.