

## Special Hints for Schools

1. **Cleaning and Oiling** should be done once or twice weekly if machine is moderately used. Do not over oil.  
After oiling, thread machine and do a little sewing on a waste piece of absorbent material to remove any surplus oil.  
Use only Singer oil which is specially prepared and supplied in tins bearing the Singer red "S." Household oils are not suitable and clog the works.
2. **Needles.** Use only Singer needles from Singer shops or authorised representatives, packed in red "S" wrappers. The eye in Singer needles is specially finished to prevent cutting thread. Other makes are often of inferior quality, become blunt, break easily and prevent effective working of machine.
3. **When sewing,** do not try to help the feeding of the work by pulling the material. The machine feeds without any assistance.
4. **Before removing work,** see that take-up lever is at its highest point; then move material back and to the left and cut threads, leaving ends a few inches long under presser foot.
5. **Material puckering.** Tensions probably too tight. Stitches may be too long, especially if sewing on fine material.
6. **Stitches looping.** Usually the result of top or bottom tension being too loose (see Instruction Book). Make sure upper and lower threading are correct.
7. **Thread breaking.** Machine may be incorrectly threaded, tensions too tight, needle incorrectly set, bent or blunt.
8. **Missing stitches.** Needle not accurately set, bent or blunt, or needle may be too fine for the thread used.
9. When in doubt and before you blame the machine, consult the Instruction Book or Singer Manual prepared for School use.
10. **Needles and Thread.** Choose your thread according to your material, and your needle according to your thread. Coarse work—coarse thread—coarse needle. Fine work—fine thread—fine needle. Cotton on cotton material. Silk on silk. Use Singer needles in Singer machines with Singer thread.

## Relative Sizes of Needles and Threads

N.B.—Ask at Singer shop for 15 × 1 Needles of the size you require.

SIZES OF NEEDLES	CLASS OF WORK TO SEW	SIZES OF COTTON, LINEN OR SILK
9	Very thin Muslin, Cambric, Linen, etc.	100 to 150 Cotton, 30 Silk
11	Very fine Calicoes, Muslins, Linens, Shirtings, Fine Silk Goods, etc.	80 to 100 Cotton, 24 to 30 Silk
14	Shirtings, Sheetings, Bleached Calicoes, Silk and General Domestic Goods, and all classes of general work.	60 to 80 Cotton, 20 Silk
16	All kinds of heavy Calicoes, Light Woollen Goods, Seaming, Stitching, etc.	40 to 60 Cotton, 16 to 18 Silk
18	Tickings, Woollen Goods, Trousers, Boys' Clothing, Corsets, Cloaks, Mantles, etc.	30 to 40 Cotton, 10 to 12 Silk
19	Heavy Woollens, Tickings, Bags, Heavy Coats, Trousers, etc., Heavy Clothing generally.	24 to 30 Cotton, 60 to 80 Linen
21	Bags, Coarse Cloths, Heavy Goods of any texture.	40 to 60 Linen, or very coarse Cotton

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