

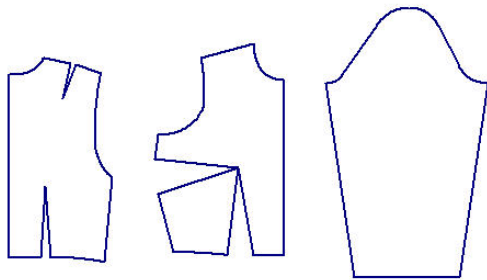
Introduction to Sleeves

Sleeves are both functional and design elements of a garment. As functional elements, sleeves must allow for freedom of movement and comfort and must enhance the overall purpose of the garment. As design elements, sleeves should compliment the bodice to which they are attached.

Sleeve Types

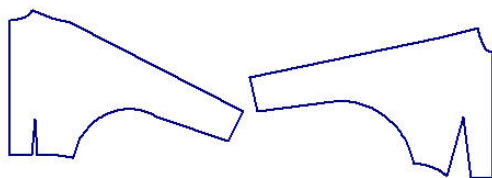
There are three basic types of sleeves - set in, kimono, and raglan.

Set in sleeves are sewn to the bodice armholes. All set in type sleeves must be eased, gathered, darted, or tucked and sewn into the bodice armhole seam. They can be fitted or flared, cut to any length, and their hemlines finished in a variety of ways.



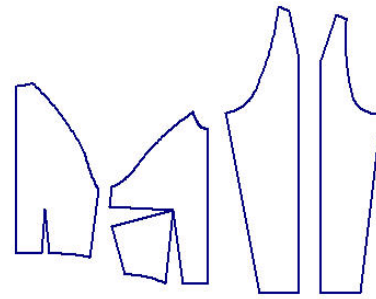
Bodice with Set In Sleeve

Kimono sleeves are cut all in one with the front and back bodice. The kimono sleeve is always cut with a deeper armhole than the set in sleeve. Wrinkles under the arm are inherent to this type of sleeve because of the extra fabric between the bodice and sleeve.



Bodice with Kimono Sleeve

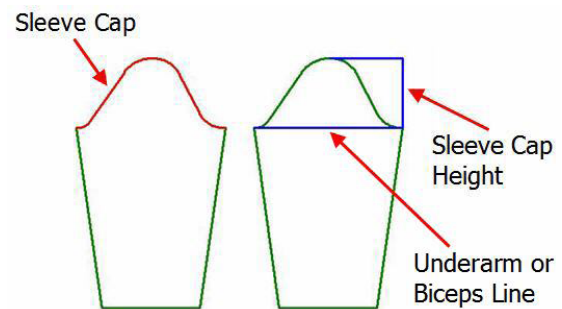
Raglan sleeves have part of the sleeve attached to the bodice. A diagonal seam is formed from the neckline to the underarm. Underarm wrinkles are common in this type of sleeve, as well. Extra ease is added across the chest and the armhole is lowered to increase freedom of movement.



Bodice with Raglan Sleeve

Sleeve Cap Height

The form and function of set in sleeves is dependent upon the shape and height of the sleeve cap and the style of armhole to which the sleeve is sewn. The sleeve cap is the curved top section of the sleeve from the front underarm to the back underarm. The sleeve cap height is that area of the sleeve from the biceps or underarm line to the top of the sleeve cap. The cap height will vary with each armhole and sleeve style. Changes in fullness of the cap seamline and cap height will result in dramatically different sleeve styles.



Sleeve Cap Height

General Principles

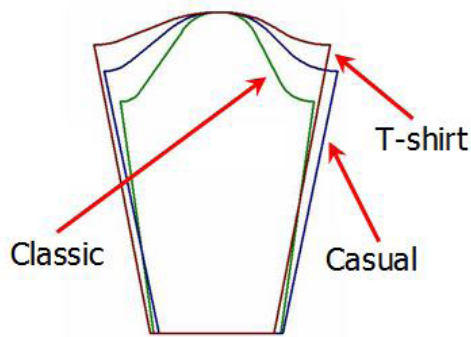
- As the cap height is shortened, the sleeve will stand or jut away from the arm at the hemline if the armhole is not dropped off the shoulder tip.
- As the cap height gets shorter, the underarm line must get longer in order to produce a sleeve cap line that can still be sewn into the bodice armhole with sufficient ease for comfort and movement.
- As the cap height is shortened, a "gusset" is formed at the underarm. This "gusset" is what provides the freedom of movement. It also creates folds at the underarm that are not desirable in more tailored clothing.
- If the sleeve cap height is increased above the standard fitted sleeve, the cap will extend above the normal shoulder line.
- Higher caps with more ease are more difficult to sew. They require ease stitching to mold the cap to

the armhole without puckering. Fabric weight and stiffness will significantly influence the way a sleeve cap is eased into the armhole.

- Jacket and coat sleeves are often redesigned to reduce ease but not restrict movement. The shoulder line is extended past the shoulder point and the shoulder slope is lengthened.

Sleeve Styles

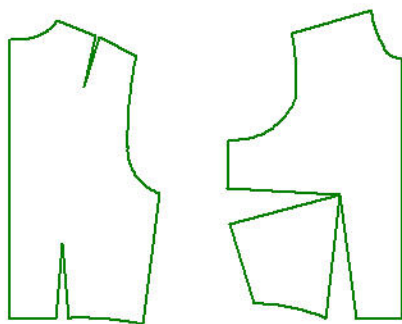
Set in sleeves fall into three main categories - classic, casual, and t-shirt. The sleeve style is mainly determined by the height of the sleeve cap.



Sleeve Styles

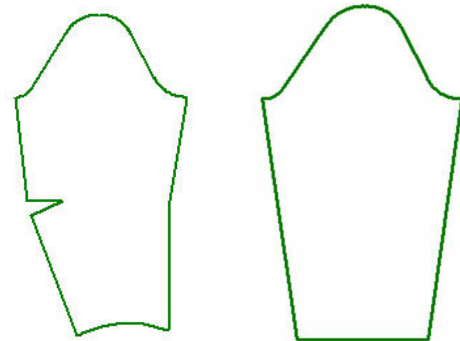
Classic Sleeve

The classic sleeve is the sleeve found in most traditional tailored, fitted styles. It can be drafted with or without an elbow fitting dart. It should be sewn to an armhole where the shoulder point at the armhole ends at the shoulder tip, thus the armhole is not dropped off the shoulder. The classic sleeve is characterized by a high sleeve cap. The higher sleeve cap is much more formal and attractive when movement is not a priority. The armhole depth on the bodice could be raised slightly to provide a bit more freedom of movement without sacrificing aesthetics. The classic sleeve is a trade off between style and mobility.



Classic Bodice

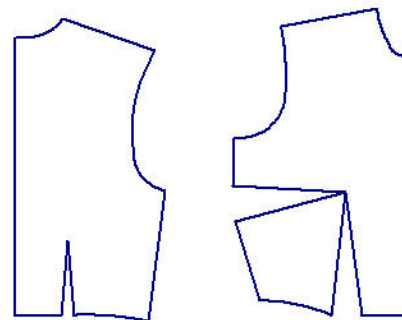
- Cap height for the classic sleeve should be about 5" (12.5 cm) to 6" (15 cm).
- Additional cap ease is needed to go over ball of the arm since the sleeve cap is high and bicep or underarm line is narrower.
- Cap ease should be between 1 1/2" (3.75 cm) to 2" (5 cm).



Classic Sleeves

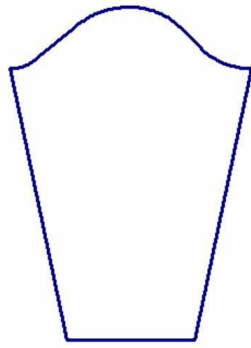
Casual Sleeve

The casual sleeve is a less tailored style. The bodice armhole shoulder point is dropped off the shoulder one half to one inch (1.25 to 2.5 cm). Diagonal wrinkles will form at the armhole as a result; however, greater freedom of movement is possible. The casual styles are a nice compromise between style and mobility and between formal classic styles with little freedom of movement and sloppy t-shirt styles.



Casual Bodice

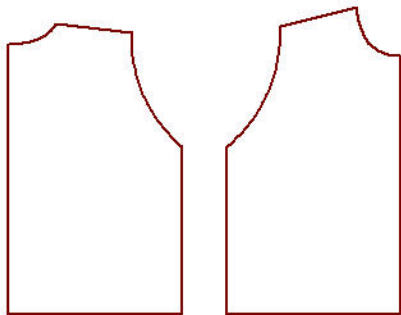
- The cap height should be about 3" (7.5 cm) to 4" (10 cm) with about 1" (2.5 cm) ease.
- The shoulder seam is lengthened one half to one inch (1.25 to 2.5 cm) on the bodice and the shoulder slope is also lengthened to raise the shoulder line slightly.
- The armhole is therefore larger and the sleeve cap is also larger and so less ease is required in cap.



Casual Sleeve

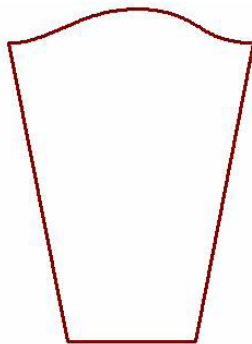
T-Shirt Sleeve

The t-shirt sleeve is a very casual style. The shoulder point on the bodice armscye is typically dropped off the shoulder more than one inch (2.5 cm) and the armhole is a very shallow curve. Diagonal wrinkles will form at the armscye as a result. Greater freedom of movement is possible with this style though.



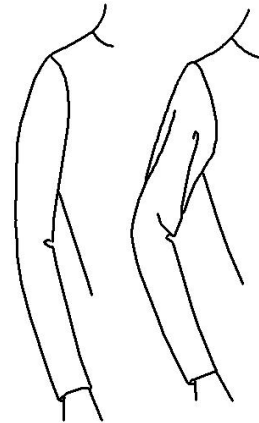
T-Shirt

- The sleeve cap height can be 0" to 2" (5 cm) with 0" to .5" (1.25 cm) ease.
- The shoulder line and shoulder slope are lengthened extensively to drop the armscye off the shoulder.
- The sleeve cap is fat and can be sewn in before the underarm seam is sewn.



T-Shirt Sleeve

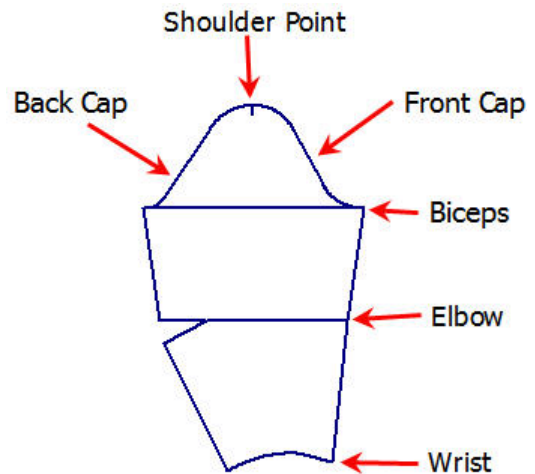
- A gusset is created at the underarm for freedom of movement.



High Sleeve Cap and Low Sleeve Cap

Sleeve Markings

The figure below denotes the sleeve markings that will be used throughout this chapter. For the following lessons, the front sleeve cap will always be on the right side of the sleeve and the back sleeve cap will be on the left side of the sleeve. The top most mid point of the sleeve cap is the shoulder line matching point. The biceps or underarm line is drawn from the back cap at the underarm line to the front cap at the underarm line. The area between the biceps line and the shoulder point is the sleeve cap. The distance is known as the sleeve cap height.



Sleeve Markings

21. Select and delete the objects shown in Figure 4.

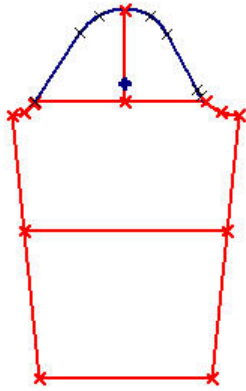


Figure 4. Select and delete objects

22. Choose Arc (AR) and SNAP to point 1a, SNAP to point 1b, and SNAP to point 1c (Fig. 5).

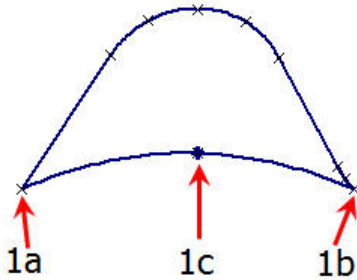


Figure 5. Draw hemline curve

23. Select and delete the standard point.
24. Choose File/Save (FS) to save the final pattern (Fig. 6).

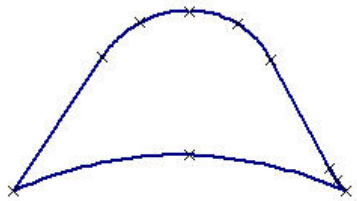


Figure 6. The final pattern

Full Cap Sleeve

1. Choose File/Open (FO) and open the Tapered_Sleeve_Sloper from the Patterns/Sleeves folder.
2. Choose File/Save As and save the file as Full_Cap_Sleeve in the Patterns/Sleeves.
3. Select the front underarm line and choose Locate Points (LP) (Fig. 7).
4. SNAP to point 1a, enter 1 (2.5 cm) for the single point distance and press Apply (Fig. 7).

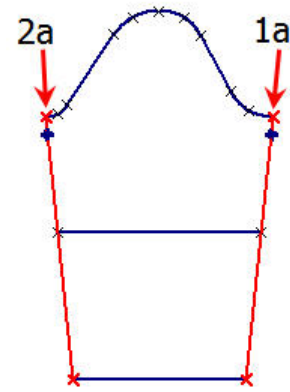


Figure 7. Locate points

5. Select the back underarm line and choose Locate Points (LP) (Fig. 7).
6. SNAP to point 2a, enter 1 (2.5 cm) for the single point distance and press Apply (Fig. 7).
7. Choose Zoom Window (ZW) and drag a zoom window around the sleeve area.
8. Choose Scissors (BR) and CLICK on line 1, the front underarm line (Fig. 8).
9. SNAP twice to point 1a to break the line (Fig. 8).
10. Choose Scissors (BR) and CLICK on line 2, the back underarm line (Fig. 8).
11. SNAP twice to point 2a to break the line (Fig. 8).

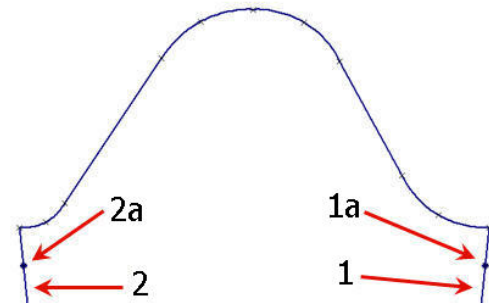


Figure 8. Break front and back underarm lines

12. Select and delete the objects shown in Figure 9 including the standard points placed.

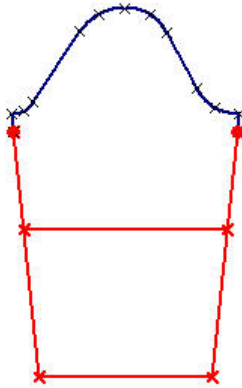


Figure 9. Select and delete objects

13. Choose Arc (AR) and SNAP to point 1a and SNAP to point 1b (Fig. 10).
14. Drag the mouse to middle of the sleeve and shape the hemline curve as desired.
15. CLICK to place point 1c (Fig. 10).

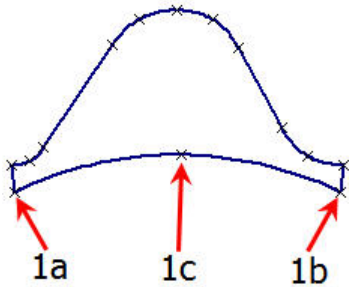


Figure 10. Draw hemline curve

16. Choose File/Save (FS) to save the final pattern (Fig. 11.)

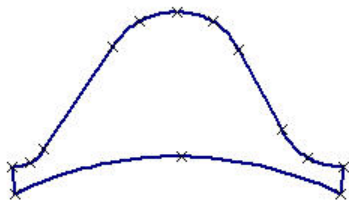


Figure 11. The final pattern
