

A New Way to Fit Sleeves

Draft for the arm, then drape the shoulder

BY JUDITH NEUKAM

long for an haute couture sleeve. That is, I crave a sleeve that is custom-fitted to my arm and shoulder and that works within the garment's armscye.

After years—or a lifetime—of wearing clothes made to fit a standardized consumer, many of us have forgotten what a correct fit is. There are so many different bodies, arms, sizes, and shapes, we shouldn't be critical of a pattern or a ready-to-wear garment that doesn't fit. After all, commercial patterns depend on average dimensions, and nobody is average. We need to learn how to get a pattern to fit well, and then use the results to improve and simplify our sewing.

A good fit is a comfortable arm covering that fits beautifully into a bodice that conforms to the body. Extra wrinkles and baggy or tight areas are all symptoms of an improper fit. Comfort is a must. It doesn't come from making a sleeve bigger—it comes from the right fit. As my friend Kenneth D. King says of fitting, "It's either too big, too small, or the wrong shape." Most of us need to make some changes to a standard pattern to get the shape right.

Multisize patterns are helpful for some aspects of fitting, but blending between sizes isn't the best solution for sleeves. Instead, I'll show you where a sleeve's fit can go wrong, how to measure the body and draft a sleeve, and, finally, how to drape the sleeve cap when attaching it to the bodice on the body. This ensures a truly custom sleeve with an attractive and comfortable fit. Once you've established this sleeve, use it as a template for future garments.

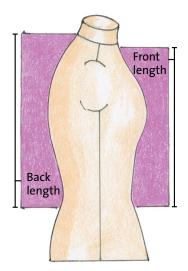
Threads Contributing Editor Judith Neukam advocates a hands-on approach to fitting.

Anatomy and the pattern

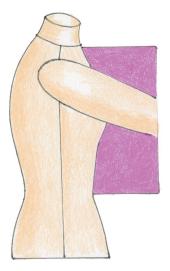
The design and cut of garments and patterns have changed over the decades. They don't always match the reality of the body's shape. It's helpful to consider the arm and torso shape and compare it to how most patterns are drafted.

ARMS AND TORSO

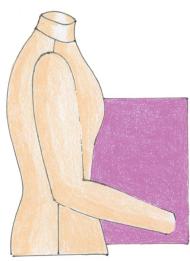
Understanding how the body is shaped and how it moves offers insight into how a sleeve must be shaped to fit properly.



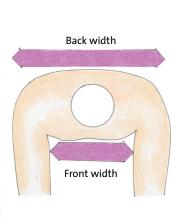
Torso length: The back length is typically 1 inch to 2 inches longer than the front length.



Armhole shape: The armhole is longer and straighter on the back of the arm than in front, because the arm extends forward.



Elbow: The arm bends forward at the elbow; it is rarely straight when hanging naturally.



Torso width: The back is wider than the front between the armholes, when the arms are extended forward.

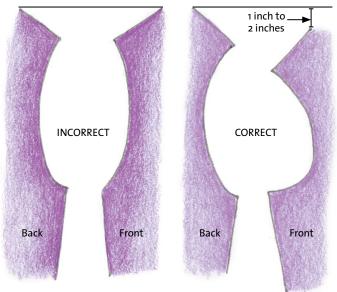
BODICE AND SLEEVE PATTERN SHAPES

Compare correct and incorrect patterns to see how they reflect what we know about the body's shape.

The bodice

Bodice length: The back should be 1 inch to 2 inches longer than

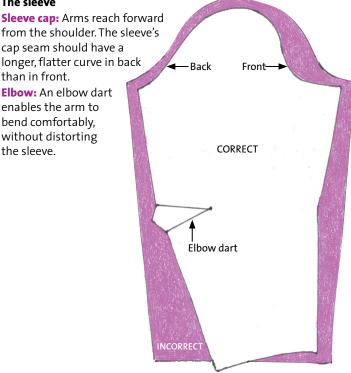
Armhole: The back armhole should be longer and straighter than the front armhole.



The sleeve

the sleeve.

cap seam should have a longer, flatter curve in back than in front. **Elbow:** An elbow dart enables the arm to bend comfortably, without distorting





Draft your working pattern

In my search for better sleeves, the best and easiest solution I've found is to start with a custom draft, based on my arm measurements. A straight sleeve is the starting point. Read "Shape the sleeve," p. 47, to add the needed elbow shaping.

MEASURE THE ARM

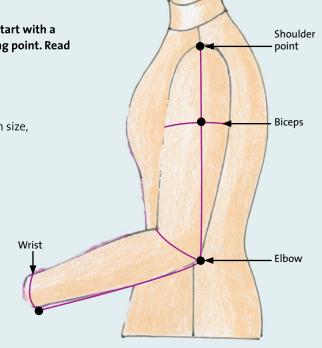
Record the following measurements. If your arms are substantially different in size, measure both.

Circumferences

Wrist, at the prominent wrist bone **Elbow,** with arm bent at 90 degrees **Biceps,** at the underarm level

Lengths

Upper arm, from shoulder point to elbow **Sleeve-cap length,** from shoulder point to biceps level at underarm **Full-arm length,** from shoulder to wrist



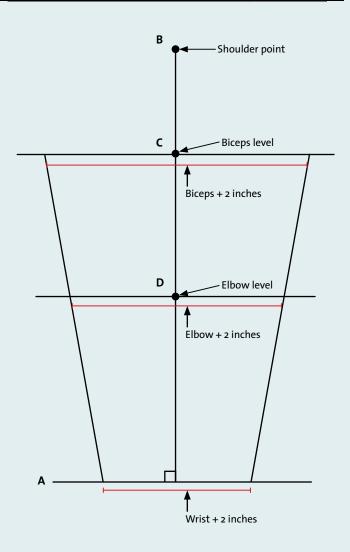
CREATE THE DRAFT

1 Establish the length. On a sheet of paper 4 inches longer than your arm length and wider than your biceps circumference, draw a horizontal line 2 inches above the bottom edge. This line represents the wrist level (A). Draw a perpendicular line, centered on the line, to the top of the page.

2 Mark the lengths on the center line. Measure up from the bottom line and mark the full arm length; this is the shoulder point (B). Measure down from the shoulder point and mark the biceps (C) and elbow (D) levels, respectively.

3 Mark the circumferences. Square horizontal lines at the biceps and elbow level marks. On each side of the center, mark half the biceps/elbow circumference plus 1 inch on the respective lines. Do the same for the wrist circumference on the bottom line.

4 Connect the marks. Connect the marks vertically. This establishes the correct circumference, which includes 2 inches of ease beyond the arm measurement. This is the master sleeve pattern, without seam allowances or a sleeve-cap seamline.

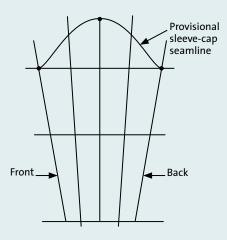


Shape the sleeve

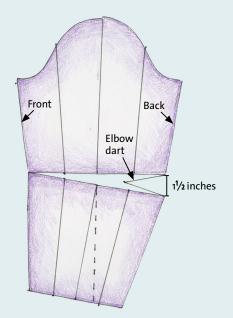
The straight draft is improved with one of these two shaping options. For a one-piece sleeve, add an elbow dart. For jackets and coats, consider creating a two-piece sleeve.

ADD AN ELBOW DART

1 Divide the sleeve vertically. Measure and divide each of the horizontal lines into equal fourths. Connect these points, extending the middle three lines to the top of the paper. Mark one vertical edge "Front" and the other "Back." Sketch a provisional sleeve-cap seamline to connect the underarm and shoulder points.

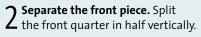


2 Cut at the elbow level. Cut from the back seam to the front, leaving a hinge on the front edge. Spread to open a dart. Spread the back seam 1½ inches, and tape paper in the open wedge. Draw dart legs about 3 inches long from the back edges. Add seam allowances to the vertical seams.

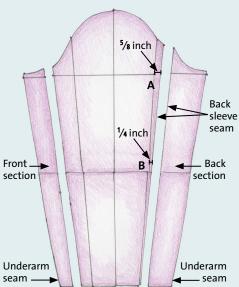


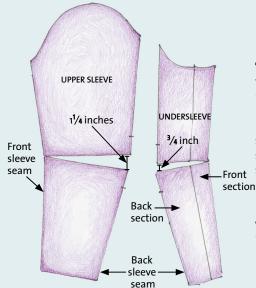
CREATE A TWO-PIECE SLEEVE

1 Separate the back section. Begin with a divided sleeve pattern, as described in step 1 of "Add an elbow dart." Within the back quarter, make a mark on the biceps line 5/8 inch toward the back seam (A). On the elbow line, make a mark 1/4 inch toward the back seam (B). Draw a line connecting these points and extending from the hem edge to the sleeve cap. Cut along this line. Label the new back sleeve seam on each piece.



3 Create the undersleeve section. Align the front and back strips along their underarm seams. Tape the pieces together and label the final piece "Undersleeve." Label the larger section "Upper sleeve."





4 Shape the elbows. On each piece, cut along the elbow line, from the back sleeve seam to the opposite side, leaving a hinge. Spread the upper sleeve 11/4 inches; spread the undersleeve 3/4 inch. The longer upper sleeve seam will be eased to the shorter undersleeve seam when the sleeve is sewn.

5 Complete the pattern. Redraw the newly shaped seamlines. Add seam allowances to all vertical edges.

THE PROVISIONAL SLEEVE-CAP SEAMLINE

The sleeve-cap seamline you sketched in step 1 is only a guide that makes it easier to visualize your work as you add the elbow dart or split the sleeve to create a two-piece pattern. When you proceed to fitting the muslin sleeve, this cap line can be largely ignored.

Simply cut the muslin sleeve with a tall rectangular shape extending above the cap line. Then drape the sleeve cap for a custom fit. The final sleeve-cap seamline will likely differ substantially from this provisional line.

Drape the sleeve cap

For most sewers, the sleeve-cap seamline shape needs refinement, but it's difficult to do on the pattern. Instead of working from a pattern, I developed a version of a tailor's method, in which the sleeve cap is draped on the body for a custom fit. Begin with the pattern you drafted, and fit a muslin test sleeve. Then use this as the basis for a master pattern.

1 Sew the sleeve. Cut the upper and undersleeves, leaving a rectangular extension above the sleeve cap. Sew the two seams.



2 Prepare the armscye. Sew the bodice's shoulder and side seams. On the garment's right side, couch a length of rattail or narrow cording on the armscye seamline. Set the sleeve into the armscye, sewing it only in the undersleeve area. Leave the upper sleeve portion free. Put on the muslin.



3 Pin the shoulder point. Smooth the cap fabric up and over the shoulder; insert a pin through the cording at the shoulder seam to secure it.



Complete the pinning. Continue to pin every 2 inches, smoothing the cap up and over the shoulder. Then place a pin between those pins. Pin only into the cording, and ease the muslin as you go.







Photos: (p. 42) Liam Goodman; all others, Mike Yamin. Illustrations: Judith Neukam

48

5 Draw the armscye seamline. With a marker, draw along the cording to mark the seamline.



6 Add a seam allowance. Remove the muslin, smooth the marked seamline curve, and add a seam allowance outside the seamline.



7 Test the drape. Cut off the excess sleeve-cap fabric to set in the sleeve. Following the new seamline, sew the sleeve into the armhole completely. Then assess and adjust the fit as needed.



The draping process yields a smooth sleeve cap with the right amount of ease.

tip

Create templates. The draped sleeve, in conjunction with a well-fitting armscye, can be applied to other patterns. Make templates by tracing the sleeve cap and the armscye that fit onto poster board. Omit the seam allowances, except the shoulder seam allowance. Use these templates to check and correct commercial patterns, so you start with a better sleeve and armscye fit. Just as all figures require a different crotch curve in pants patterns, they need different armscye curves and sleeve-cap shapes for a sleeve that fits correctly.

