Whitney Down Jacket

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Kit Contents

- Full Size Pattern
- Shell fabric
- Liner fabric
- Premium 800+ fill down
- 36" single pull #3 separating zipper
- 3/4" grosgrain for draft tube anti-snag stiffener
- 3/4" anti-roll elastic for cuffs
- Lycra binding for bottom hem

Naming conventions

Left refers to the left side of the jacket from the point of view of someone wearing the jacket, not someone looking at the wearer. "Right side" and "Left Side" refer to the left and right sides of the front, while 'right-side' and 'wrong-side' (notice the hyphen) refer to the uncalendared and calendared sides of the fabric respectively.
A Closer Look at the Whitney Pattern

This symbol is a notch. Notches are a helpful way to make sure pieces are aligned properly. Here, the collar notch will be lined up with a similar notch on the back's neckline.

Supplemental info like baffle & zipper placements and fill quantities are printed on your pattern; transfer this information to the shell piece.

Seam allowances are included on all pattern pieces. Make sure you accurately sew the given seam allowances or the pieces will not fit properly.

The large arrows indicate the direction of the fabric grain.
Stack cut to produce the following 16 pieces:

Front shell and outer pocket pieces have hand cut-outs, while front liner and inner pocket pieces do not.

Naming Conventions

"wrong-side" refers to the side of your fabric that looks shiny, while "right-side" refers to the side of your fabric that looks dull.

Left and Right refer the wearer’s left and wearer’s right.
Stack cutting

**Sleeves**
Cut 4 Sleeves: 1 right sleeve shell, 1 right sleeve liner, 1 left shell, 1 left sleeve liner
Stack: Pattern printing up, Left Shell & Liner Sleeves right-sides together, Right Shell & Liner Sleeves wrong-sides together
Mark: all quilting lines and compartment fill quantities on right-side of left and right shell sleeves, right/wrong sides of each piece & piece identity (ie: right sleeve shell)

**Collar**
Cut 2 Collars: 1 shell collar, 1 liner collar
Stack: Pattern long straight edge down printing up, Shell and liner wrong-sides together.
Mark: compartment fill quantities on right side of collar shell, right/wrong sides of each piece & piece identity

**Back**
Cut 2 Backs: 1 shell back, 1 liner back
Stack: Pattern up, shell and liner wrong-sides together.
Mark: all quilting lines and compartment fill quantities on right-side back shell, right/wrong sides of each piece & piece identity

**Front**
Cut 4 Pockets and 4 Fronts:
1 right outer pocket, 1 right inner pocket, 1 left outer pocket, 1 left inner pocket
1 right front shell, 1 right front liner, 1 left front shell, 1 left front liner
Stack: Pattern printing up, right pocket pieces wrong-sides together shell fabric on top, left pocket pieces right-sides together shell fabric on top, right liner and shell wrong-sides together shell fabric on top and left shell and liner pieces right-sides together shell fabric on top
Mark: compartment fill quantities on right side of each shell piece, right/wrong sides of each piece & piece identity
**Trim Top Edge of Pocket Inserts**

Prepare Pattern: Fold the pattern at the horizontal line marked "pocket insert cutting line".
Stack: Pattern printing up, right pocket pieces wrong-sides together shell fabric on top, left pocket pieces right-sides together shell fabric on top.

**Trim Draft Tube from Right Front Pieces**

Prepare pattern: Fold the front pattern along the line that says "Fold the pattern along this line to form the right front pattern"
Stack: Pattern printing up, right pocket pieces wrong-sides together shell fabric on top, right shell and right liner wrong-sides together shell fabric on top.

**Remove Hand Cut-Out from Shell and Outer Pocket Insert**

Prepare Pattern: There are two lines on your pattern showing where your hand enters the pocket. The one that's smaller in length is the cutting line, while the longer one is the stitching line. Cut the pattern along the cutting line
Stack: Pattern printing up, right shell and right outer pocket (the one from the liner color fabric) wrong-sides together shell fabric on top, left shell and left outer pocket piece (the one from the liner fabric), right-sides together shell fabric on top.
Mark: Locate the line that says “zipper coil alignment” and transfer that line to the right sides of the left and right shell.
Sear the raw edges of the fabric lightly. All the seams are going to be finished, so don't go crazy here. A very light touch over an alcohol lamp gives excellent results. Convex edges are harder to sear; hold your fingers about six inches apart, shifting down the seam until the convex edge is seared. Be Careful, lightweight nylons are very flammable. Don't start at a corner as these are easily over seared.

Set Up Your Machine

Replace your needle. Fill two bobbins, one with shell colored thread and one with liner colored thread. Load the bobbin case with shell colored thread, and load the top with the spool of shell colored thread. Use 100% polyester thread such as Metrosene or Gutterman and 12 stitches per inch. Use some cut-offs to ensure that your stitch is balanced, and that everything is ready for sewing.
Install pockets

**Attach Left and Right Outer Pocket Inserts to Left and Right Front Shells**

Lay out the front pieces and outer pocket insert, right-sides together with the pocket on top. Sew ¼” from the raw edge of the hand cut-out. Turn the assembly right-side out and flatten carefully with an iron (: 58k, 18 sec @28.8)

**Edge-stitch the hand cut-out.**

Sew in the pocket quilting lines, leaving two inches unsewn near the pocket cut-out so that you can fill the upper pocket chamber later with a minimum of hassle.

Spoiler: Make sure you line up the quilt lines on the right and left front pieces so things are symmetrical when the jacket is zipped up.

**Attach Inner Pocket Insert**

Now pin the pocket inner (the one without the hand cut-out) to the shell and pocket outer along the upper pocket edge. Sew the pocket outer and inner to the shell along the quilting guide from the bottom.

Spoiler: Make sure you line up the quilt lines on the right and left front pieces so things are symmetrical when the jacket is zipped up.
Option: Waist Draw Cord

If you plan on finishing the bottom hem of the Whitney with a draw cord, complete the following two steps:

Optional - Waist Draw Cord Step 1: sew two buttonholes 1/3” long in the front assembly as pictured. Note the placement: within both the bottom hem and side seam allowance.

Optional - Waist Draw Cord Step 2: Install a buttonhole each of the bottom hem/side seam corners within the seam allowance of the back shell piece.
Assemble the Liner and Shell

Switch thread to fabric color on the top and in the bobbin.
Sewing order: 1) Left and Right Front to Back at shoulders 2) Left and Right Sleeves to Armholes 3) Collar to Neckline
Seam Type: two rows straight stitch (1/2” and 3/8”), then overcasting
Orientation: Sew all pieces right-side together so that all seams end up on the wrong side. Orient the back with the ‘back’ half of the sleeve as indicated on the sleeve pattern. Take care with the seam allowances of the collar at the neckline so that when the jacket is zipped that seam lines up on the right and left side of the jacket
Sew left and right fronts to back at the shoulders.

Alignment: right-sides together.

Seam Type: two rows straight, one row overcasting

Sew Collar to Neckline

Alignment: Line up straight edge of collar at draft tube, right-sides together.

Seam Type: two rows straight, one row overcasting
**Spoiler:** Just like you did when you installed the pockets, make sure that the collar seam lines up on the left and right sides of the front.

**Sew Arms to Shoulders**

Alignment: Line up notch in arm with shoulder seam of front/back, right sides together. Make sure ‘front’ side of sleeve as indicated on pattern points towards the front of the jacket

Seam Type: two rows straight, one row overcasting
Install Wrist Elastic in Liner
Measure the distance around your wrist, and then cut a piece of elastic that length. Bar tack the elastic to the wrong side of the liner in two places: at the cuff ½” from the ends of the elastic
Alignment: The elastic should be within the sleeve hem line and parallel to the cuff line.

Prepare Zipper
The zipper you received with your kit is a 36 inch single-pull #3 separating zipper. Because it’s longer than you need, you will need to shorten it to fit the Whitney.
The zipper runs between the stitching lines lines of the collar and front hem, not the raw fabric edge.
Cut off the excess zipper, sear, and then crimp the included zipper stops around the zipper chain. The side of the zipper stop with two prongs is pushed up from the back of the zipper.

Install Left Zipper
Use the "zipper coil alignment" guide line to pin the zipper in place with this alignment: left front right-side up, coils down, zipper tape edge towards the raw fabric edge. The zipper runs between the stitching lines of the collar (as shown here) and the bottom hem stitching line. Note that the top and bottom of the zipper do not end at the raw edge of the fabric.
Sew in the zipper with a line of stitching close to the coils using a zipper foot.
Install No-Snag Strip

Alignment: shell right side down. Pin the grosgrain ribbon draft tube stiffener in place, parallel and about \( \frac{1}{4} \)" from the edge of the zipper tape. Sew in the zipper with two rows of stitching.

Topstitch Left Zipper

Alignment: left shell right-side up. Flip the zipper 180° so that the coils point to the raw fabric edge. Check the top view picture (above) and side view (below) for detail of the flip. Secure the zipper with two rows of stitching \( \frac{1}{4} \)" apart using a zipper foot.

Front view of the way the zipper is flipped
Install Right Zipper

Pin the zipper tape coils down on top of the right-side up right front along the line marked "zipper coil alignment". Stitch the zipper in place using a zipper foot.
Assemble Shell to Liner

a) Stack the shell and liner right sides together, liner on top, then pin the right front hem, zipper edge, collar top, draft tube, and left front hem. Liner will be bigger than shell by ½” along draft tube. Trim to fit.

b) Pin the sleeves together at the cuff. Stretch the elastic while you’re pinning to line up shell and liner.

c) Pin the back hem.

d) Sew seams 1, 2, and 3

e) Turn the shell right-side out
1) Pin the shell to the liner along the neckline, taking care that the two seams are pinned exactly on top of one another. You can do this by passing the pinpoint through each seam. Orient the pin points towards the right zipper to make them easier to remove during sewing. Sew the neckline starting from the zipper on the draft tube side of the front. Stop sewing 2” before you reach the other zipper so there’s an opening through which you’ll stuff down into the collar.

2) Lay out the jacket right side up. Line up, pin, and then sew the overcast and double reinforced shoulder seams and the armhole seam on the left side of the jacket from the shoulder to the back’s armpit. Notice how easy it is to sew this seam because the overcasting and reinforcement stabilizes the fabric.

3) Sew the shoulder seam on the right side the same way, but do not sew the armhole.
Ensure that your machine is set up with shell colored thread on top and liner colored thread in the bobbin.

Optional: if you sewed in buttonholes for the waist draw cord sew in the draw cord channel now.

Sew in the wrist elastic channel. Stretch the elastic as you sew. Use a zipper foot to get the row of stitching close to the elastic but avoid sewing through the elastic.

Sew the liner and the shell together at the 2\textsuperscript{nd} quilting line from the front hem. There’s already a line of stitching there; follow the same line.
Sew the 1\textsuperscript{st} quilting line from the bottom front hem between the inner pocket baffle and liner. Only sew this quilting line between the inner pocket insert (without the hand-cut out) and the liner.
1-2) Start quilting the jacket at the top of the front pieces. Note that you already sewed together the shoulders along the reinforced and overcast seam so do not quilt the tops of the shoulders. Take care not to catch the wrong part of the liner in your stitching, smooth the shell and liner carefully, and use pins to keep things aligned. Zip up the jacket and make sure the quilting lines of the unfinished side line up perfectly with those of the completed side. If the quilting lines don’t line up make the appropriate adjustments.

3-6) Pin the front and back sides together temporarily to make sure the quilting lines you sewed in from the front line up with the guide lines drawn on the back. Made corrections is needed, and then quilt the back.

7) Sew the left side of the back.
Fill the Body to Achieve 1.5” to 1.75” Loft

Stuff Collar and Upper Pocket Compartments

Fill the collar from the shoulder through the small opening left in the neckline. Carefully pin the shell and liner neckline seam and sew to close the collar once and for all. Stop at the zipper; don’t sew the draft tube. Fill the pocket through the small opening you left when sewing the upper outer pocket insert quilting line (the one with the hand cut-out).

Sew Shut the Collar and Upper Pocket Compartment

Make sure it’s filled and lofting the way you want first.
Fill the compartments from the front shoulder down to the front hem.

Pin them closed but leave them unsewn.

Stuff the Back from Shoulder to Hem

Temporarily pin the fronts to the back and put on the jacket. Take careful stock of how the jacket is lofting; make adjustments if necessary. You won't be able to get to the body's upper compartments once you start on the arms.

Pin the seams closed but leave them unsewn.
Sew the body closed as follows:

1) left front arm hole
2) right front arm hole, starting at the shoulder and ending at the arm pit
3) right back arm hole, starting at the shoulder and ending at the arm pit
4) right back
5) right front
6) left front
7) Draft tube (through zipper tape)
Quilt & Stuff the Sleeves to 1” Loft

Quilt the Sleeves

Temporarily pin the arms together starting at the armpit to make sure the quilting guides line up properly.

Quilt the sleeves, starting at the shoulder and ending at the wrist. Sew one side of each arm closed in preparation for stuffing from the other side.

Stuff the Arms

Pin each compartment shut as you stuff from shoulder to cuff. Lay out the jacket and make sure things are lofting as desired before sewing the arms shut.
Final Assembly

French Seam Step 1
The main seam in the jacket is a French seam that runs from the cuff to the hem, right up the arms and down the side. Pin the right side of the jacket shut, starting at the armpit and ending at the cuff at one end and hem at the other. Sew in the first line of stitching with a 3/8" seam allowance.

French Seam Step 2
Trim off 1/4" to leave a 1/8" seam allowance immediately prior to finishing the seam to keep raveling at a minimum.

French Seam Step 3
Turn the jacket inside out and carefully pin the French seams. Sew at ¼” to finish the French seam.
Finishing Touches
Goal: to finish the bottom hem of the jacket, and then to celebrate the completion of the Whitney and a job well done!

Finish your jacket with a nice 1/8" rolled hem (easy and light), the lycra binding included with your kit, or install an elastic draw cord. The elastic draw cord adds about a half-ounce to the carry weight. (: 41k, 12 sec @28.8) Either use a thin rolled hem, or install a bias strip for the inch of raw fabric at the bottom of the draft tube.

Congrats, and have a great time enjoying the outdoors with your new Whitney jacket!