

Klingon Assault Group



Uniform Construction Guide by K'Jett

www.kag.org

Materials for a complete uniform with accessories

- 1 1/2 yards grey vinyl*
- 1 1/2 yards black vinyl
- 1 black 16" separating zipper
- 1 opening clasp for chest belt
- 1/4 yard pewter or silver vinyl**
- 3 yards black chintz welting 3/8" wide***
- 1 yard fur (your choice of color)

* Add 1 more yard for a uniform with a skirt

** If pewter or silver vinyl is unavailable, you can either substitute with cloth or paint the vinyl silver

*** Rolled vinyl may be substituted for black chintz welting, but be warned that it is much harder to sew than the chintz welting

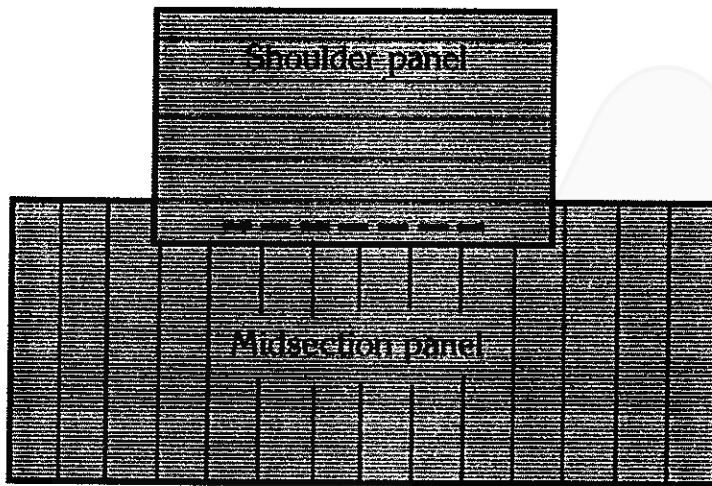
Notes:

1. For a larger person, get 2 yards of grey and black vinyl and an 18"-20" zipper
2. In this list, there is enough vinyl for your accessories, so don't cut it all into strips
3. For marines, substitute brown vinyl for the grey, and gold vinyl for the silver
4. For women, unless you want a male-type uniform, place the zipper on the side, rather than the front. See page #7 for more info on women's uniforms.
5. Before you begin, use the given chart to measure yourself--or rather have someone else measure you for more accuracy. See page #8 for chart.

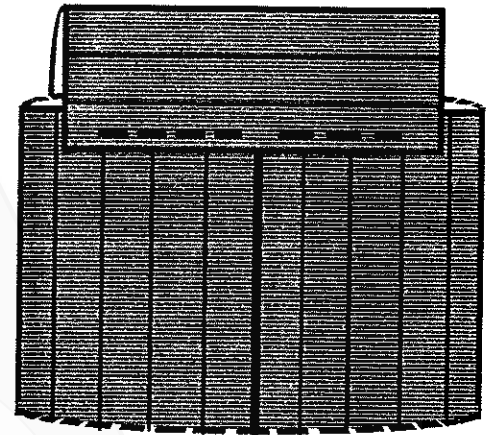
Making panels for any standard uniform:

1. You will be making 2 separate panels of strips for your uniform. One panel will be 6 grey strips and 5 black strips. This is the piece that goes over your shoulder. The other panel is the part of the uniform that goes around your waist. Its size depends on what measurement around you are.
2. Look at the measurement AB, shoulder to shoulder. If you are of average (or so) build, use this measurement plus 3" for the length of your strips. For a much larger person, add 6" for the length. The width of the strips depends on how wide you want them on your uniform, but 3" is a standard width. The black strips are the same length as the grey, but they are 1 1/2" wide. Start with cutting about 20-25 strips of each. You can always cut more if you need them.
3. Take 1 grey strip and one black strip and sew, right sides together straight down the edge. Then fold the black underneath, so both the black and grey are facing you, and sew a hem along the edge, grey side on top.
4. Take another grey strip, lay it across face down on the first 2 strips and sew, keeping the foot of the machine lined up with and touching the hem of the first. Then flip that piece over, and make a second hem, directly opposite the first. Take another black strip, lay it across the grey, and begin step #3 again. You will continue this process until you have 2 panels of the desired length.

When you have completed your 2 panels, it's time to attach them. Attach the back first. Attach the front by folding the shoulder piece and midsection piece in half, then . Don't sew all the way across, just far enough to attach the panels together securely.

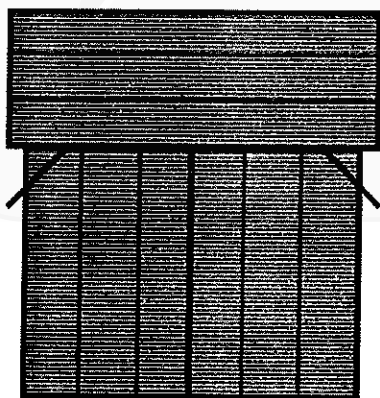


View of the back

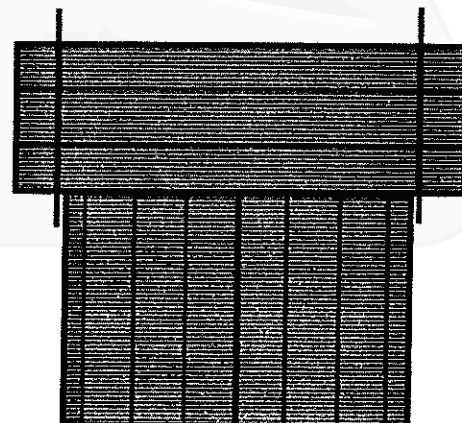


View of the front

After you have the two panels secured together, you should start trimming up the uniform to your liking. First, you need to cut out a triangular piece under the shoulder panel to make room for your arms. Then you straighten out and even up your shoulders. The shoulders should be even along each side, like shown. After you cut out the piece for your arms, be sure to fold the edges down and make a hem. If you neglect this, the stitches will eventually begin to unravel or rip under your arms. I recommend sewing it down two or three times to make it very secure.

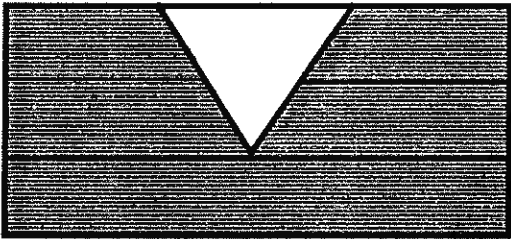


cutting for arms

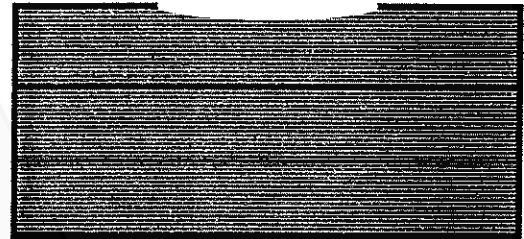


cutting for shoulders

The last cutting on the top of the uniform is the hole for the head. Lay the uniform down, face up. Use measurement "H" from the chart, the one for your collar size, divide it by 2, and you have the width for the hole. You're going to cut a basic "V" shape in the front, and a small arc in the back. Cut the "V" in the front down almost to the top of the bottom strip, and only cut down a tiny bit in the back.



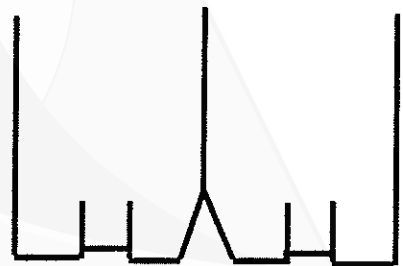
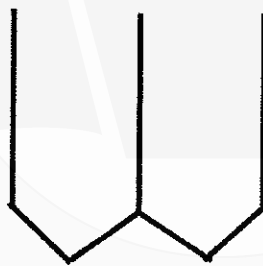
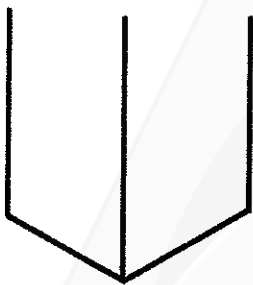
front view



back view

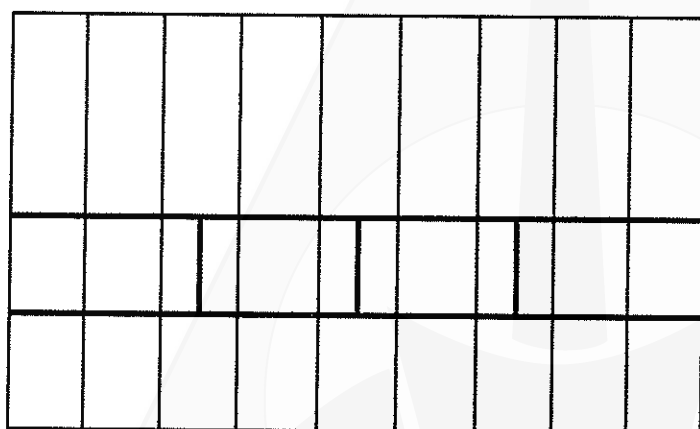
After the hole is cut, you need to add the chintz welting or rolled vinyl around the edge of the hole. I suggest sewing around it twice, so it stays on securely. When taking your uniform on and off, you tend to place a lot of stress here, and it will eventually rip if it is not well-sewn.

When you have finished trimming up the top, you're ready to do the bottom. You can trim the bottom however you want. Several examples are shown below. You can look around at what others do for other ideas on how you want the bottom to look. Both the front and back can be done in any of these ways.



When you've got everything all trimmed up, you can start adding the armor. If you have the pewter/silver vinyl, all you need to do is cut out strips 1 1/4" wide, and varying lengths, rounding off the ends. The idea here is to overlap the armor. A helpful hint is to staple the armor to the uniform the way you want it, sew it all on, then remove the staples. You can pin the vinyl on if you wish, but it tends to cause the armor to shift and buckle when you try to sew it on. If you are using silver cloth, you should cut the armor out of another color of vinyl, then wrap each individual piece of armor with the cloth, either sewing or glueing it in place, then follow the above instructions on putting it on the uniform. If you are going to paint the vinyl, you're on your own. I don't know how that can be accomplished. I have heard that automobile paint works best, but I've never tried it, so I'm not sure. All I can say is to experiment with different paints, finding out which sticks, which won't dry well, etc.

At this point, you may, depending on the size of your waist, want to add some pleats to make the uniform a little more form fitting. If you happen to be female, no matter what your size, you definitely want pleats to emphasize your bust. Let's face it ladies, we're not the same shape as the guys--and isn't it wonderful! To do this, turn the uniform inside out, find out where your waist is in relation to the uniform, and mark two parallel, straight lines along the inside, about 3" apart. Start with the back panels. Find the middle grey strip, or middle two strips, if two strips rather than one happen to fall around the middle, then find the middle of the strip(s). Mark a straight line down between the parallel lines, so you end up with a mark that looks like a capital "I". Pinch it together about 1/4"-3/8" in and pin it. You will be sewing an arc from the top parallel line to the bottom line. It may look awkward at first, but it won't once you put on the uniform. Do as many pleats as necessary until the uniform is form-fitted to your liking, alternating strips on both sides all the way around to the front. When you do a pleat on one side, be sure to do a matching pleat on the other, or the uniform will look a bit off.



marked lines for pleats



pleat

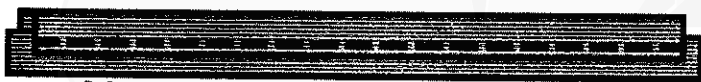
The last thing you will need to sew for your uniform is your chest belt. The clasps I get look like this:



You can try to find this, or use something else, as long as it opens and closes.



step 1



step 2-back view



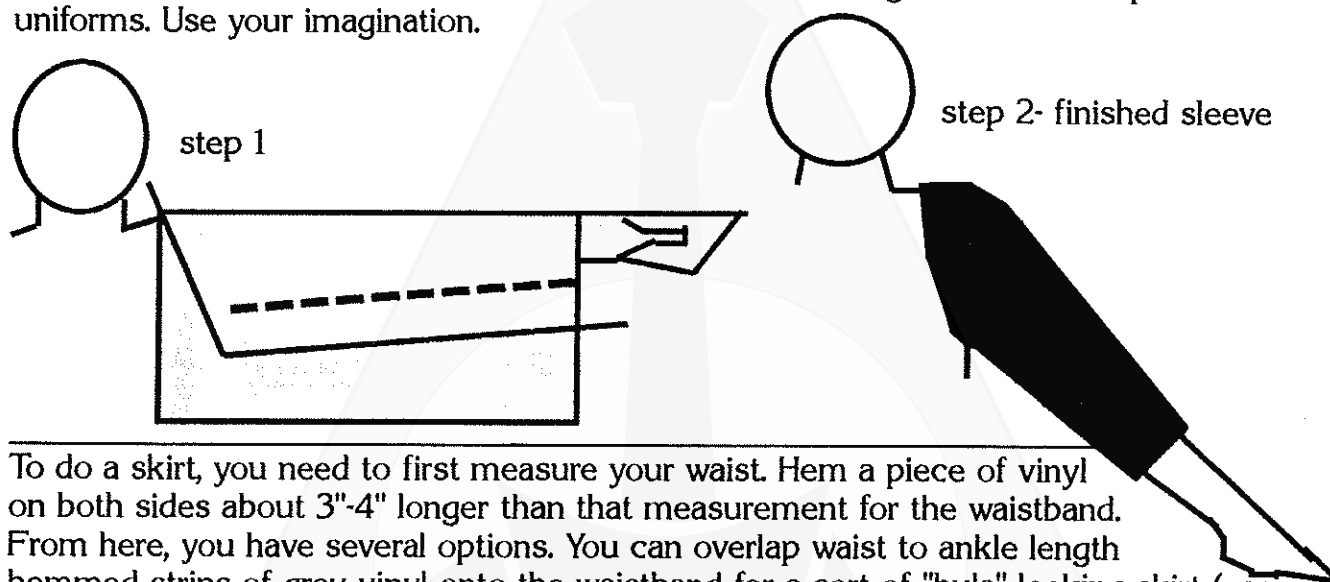
step 2-top view



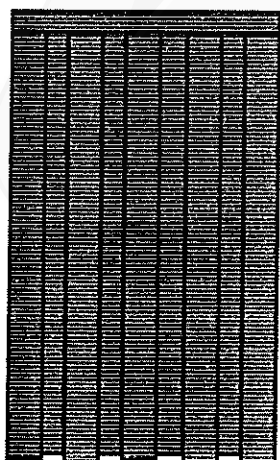
front view of finished chest belt

Begin with a strip of vinyl about 1 3/4" wide, and about 4"-6" over your chest measurement. Fold it in about 3/4 of the way, and sew. Then fold in the other side, and sew. Now take each edge, fold around the clasp, tightening as needed to fit your chest, and sew. When it is finished, you can either leave it separate from the uniform (you should have sewn it tight enough around your chest that it will stay where it is), or tack it down on each side of your chest.

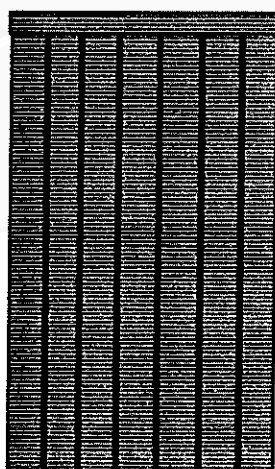
To make fur sleeves, take the yard of fur, and wrap it inside out around your arm. The top of the fur should be up over your shoulder, far enough up so that when you wear your uniform the line where the fur ends is covered. Pin it where it is comfortable to you, trim it, leaving about 1"-2" excess, and sew. Turn it rightside out, and trim up the bottom as long or short as you want it. Pin both sleeves to a black, sleeveless T-shirt and wear it under your uniform. If, when your uniform is done, you have parts of the T-shirt showing and you don't like that, you can take the fur scraps and tack them onto the T-shirt parts that show, making it look like you have a whole fur shirt on underneath. Another option would be taking a piece of silver cloth and doing the same thing. Also, they sometimes wear what looks like a black cloth with small metallic triangles on it under parts of their uniforms. Use your imagination.



To do a skirt, you need to first measure your waist. Hem a piece of vinyl on both sides about 3"-4" longer than that measurement for the waistband. From here, you have several options. You can overlap waist to ankle length hemmed strips of grey vinyl onto the waistband for a sort of "hula" looking skirt (easiest), you can make one, continuous panel of grey and black strips (like you did for the tunic) and attach them for a stiff, straight skirt (I would shorten this so it's easier to move in), or you can make panels of 3-4 grey strips each, overlapping them onto the waistband, alternating the lengths of each panel. You can add armor to the bottom of any of these, or just hem the bottom, either looks fine. Use skirt hooks, snaps or whatever to attach. You can use a zipper for the back of the straight skirt if you wish.



Example 1

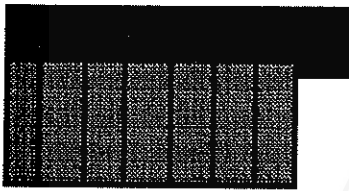


Example 2



Example 3

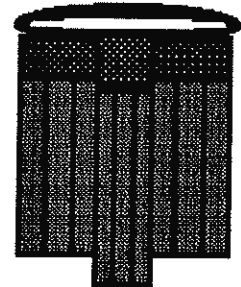
An alternate way to do a skirt is this: Rather than a vinyl waistband, instead buy a 2" or so wide strip of elastic, cut to fit your waistline, plus a few inches. Sew the panel of vinyl strips, as directed before, then lay them on top of a strip of cloth, preferably black or dark grey, which has been cut 4-5" wide, and to the length of your hip measurement, plus about 10". You can cut off the excess later. Right sides together, sew the vinyl to the cloth. Now fit the elastic to your waist, and sew it together so it forms a complete circle. When this is done, take the elastic band and the cloth/vinyl piece, and sew them together, right sides together. As you sew, stretch out the elastic, so as it is sewn and then contracts, the cloth gathers. You should have a skirt with an open front when you finish this. To cover the front, sew together a panel of 6 or so strips of grey and black vinyl, add a small piece of cloth to the top like before, and sew it over the top of your elastic waistband, making sure that it is sewn centered with the front opening. Cut the bottom as you wish, then either hem or trim with more armor. What this process does is allow you to have a gathered skirt, but it doesn't cause the vinyl itself to gather, which looks wierd and is uncomfortable. The cloth should be hidden by your tunic so that this little sewing trick doesn't show.



Vinyl to cloth



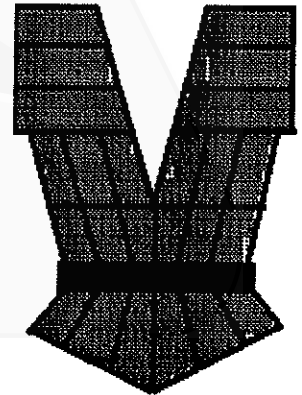
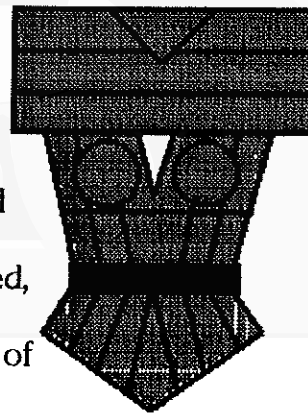
Cloth to elastic band



Example of finished skirt

FEMALE STYLES

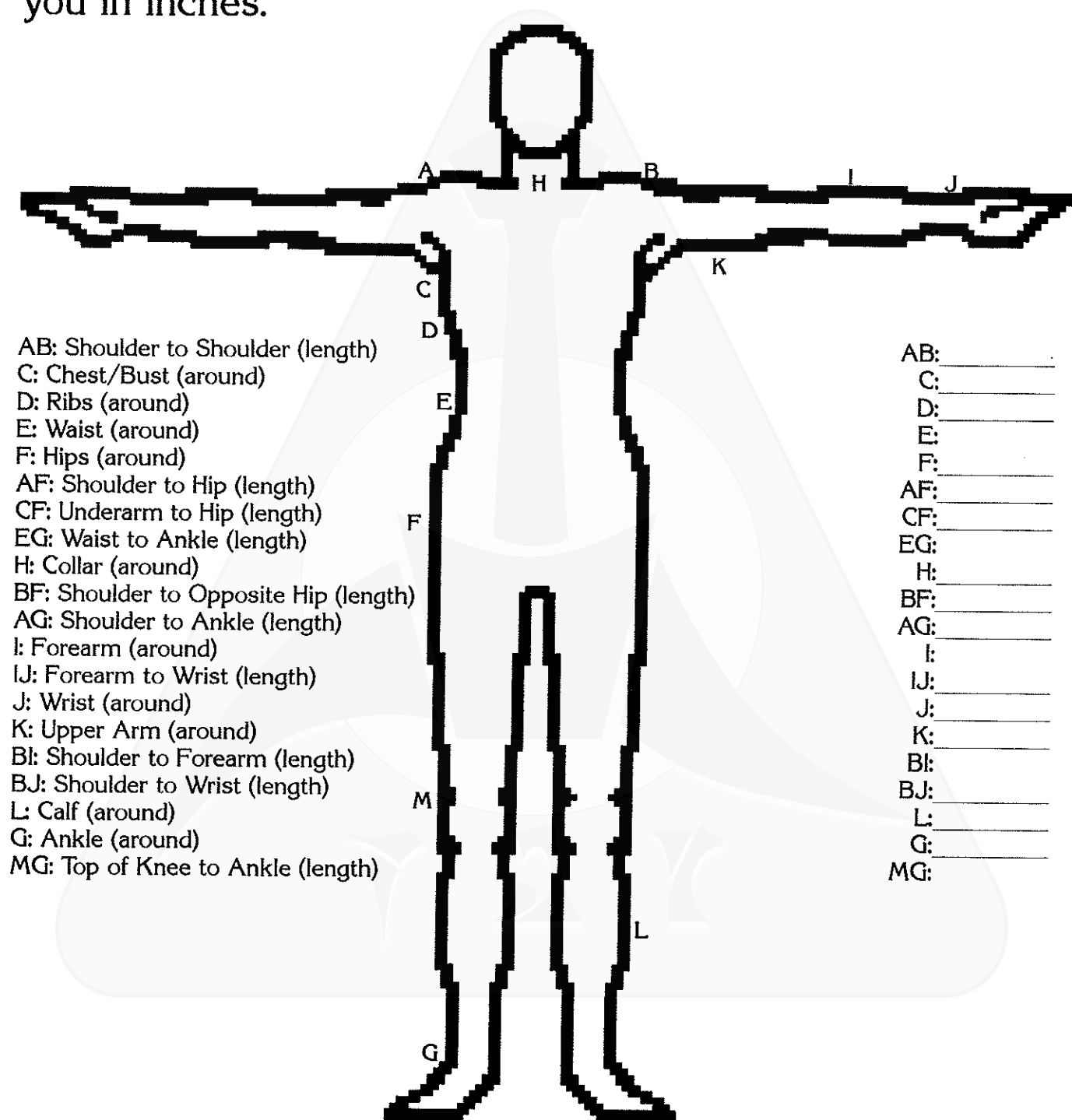
There are a few additions that need to be done to make a standard uniform into a female uniform. First, cut a "V" shape underneath the armor on the shoulder piece in the middle front of the uniform. The "V" is 6-8" vertically (use your own judgement), and about 1 1/2-2" wide at the top. Fold down the sides and hem them to secure the "V". When this is done, sew the breast cups into place. Be sure to sew them where your own breasts are, or you will either loof "off", or even show a little more than you might want to! If you like, you can add a bra for support on the inside. You can't actually wear a bra for this type of uniform, because the front part will show through the "V". You can, however, sew a bra to the inside, if you cut away both the front part where the "V" is and the part where the zipper is. From that point, using the lines already in the uniform, sew and secure the bra to the inside of the tunic. For that nice extra "lift" you may want or even need, you can hand-sew into the bra either those lift cups you put into a regular bra, or even a pair of shoulder pads.



For the seriously large-breasted, the left uniform doesn't always work that well. For those who are well-endowed I recommend a low "V" uniform, as pictured on the right. It is done the same way as a standard uniform, but there is a low "V" cut away in the front. In this case, the chest belt should act as the bra support, so it should be fairly tight.

MEASUREMENTS:

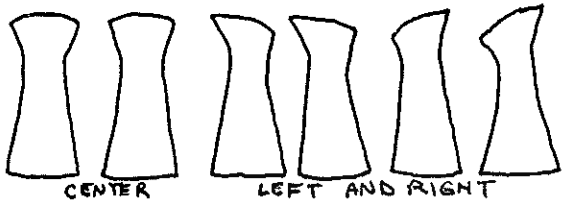
Have someone measure
you in inches.



AB: _____
C: _____
D: _____
E: _____
F: _____
AF: _____
CF: _____
EG: _____
H: _____
BF: _____
AG: _____
I: _____
IJ: _____
J: _____
K: _____
BI: _____
BJ: _____
L: _____
G: _____
MG: _____

GAUNTLET CENTER PIECE - CUT 1 PER GAUNTLET

TO SEW GAUNTLETS YOU NEED:



2 OF EACH:

CENTER PIECE

LEFT PIECE

RIGHT PIECE

SPANDEX - 2 RECTANGULAR PIECES,
ABOUT 3" WIDE & 12" LONG

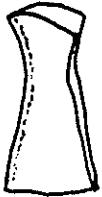
{ CHINTZ WELTING (SEE DESCRIPTION BELOW)
OR ROLLED VINYL

12" BLACK (TO MATCH GAUNTLET) ZIPPER -
OPTIONAL -

TO SEW:

YOU USE SPANDEX OR
A ZIPPER TO ATTACH.

STEP 1. SEW TOGETHER CENTER PIECE &
LEFT OR RIGHT PIECE, RIGHT SIDES DOWN.



STEP 2. UNFOLD, & SEW DOWN
EDGE FLAT.

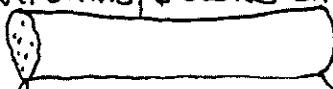


STEP 3.

REPEAT STEPS 1 & 2 FOR THE OTHER
SIDE.



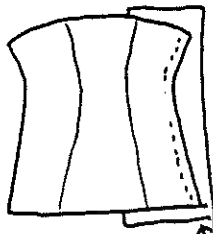
CHINTZ WELTING IS MADE BY ~~CONSO~~
CONSO PRODUCTS COMPANY & IS USUALLY
AVAILABLE IN THE UPHOLSTERY SECTION OF
FABRIC STORES. I USE 3/8" POLY/COT
CHINTZ WELTING. IT IS AVAILABLE IN A
VARIETY OF COLORS, BLACK IS STANDARD
FOR UNIFORMS, & LOOKS LIKE THIS:



(FILLED WITH
WRAPPED
COTTON)

-LEFT & RIGHT GAUNTLET PIECE -
CUT OF EACH SIDE.

STEP 4. ATTACH SPANDEX TO
GAUNTLET PIECE, RIGHT SIDES DOWN
TO ONE SIDE OF THE GAUNTLET.



STEP 5. NOW
ATTACH TO THE
OTHER SIDE.

HINT: THE CLOSER TO THE
CENTER THE STITCH IS, THE
TIGHTER THE GAUNTLET FITS.
TO FIT, SEW CLOSE TO THE
EDGE FIRST, PULL RIGHT
SIDE OUT, & TRY IT ON TO SEE
IF YOU NEED TO MAKE IT TIGHTER.

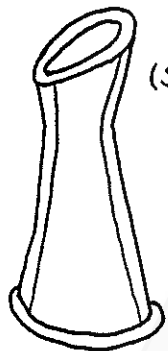


(FRONT)



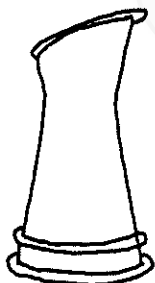
(BACK)

STEP 6. AFTER YOU ARE SURE THE
GAUNTLET IS THE RIGHT SIZE, PULL
IT RIGHT SIDE OUT AND ADD THE
CHINTZ WELTING OR ROLLED VINYL TO
THE TOP AND BOTTOM FOR YOUR EDGE.



(SIDE
VIEW)

NOTE: IF YOU ARE A SHIP'S
COMMANDER, YOU CAN WEAR 2
RINGS ON THE GAUNTLET.



ADMIRALS CAN WEAR
3.

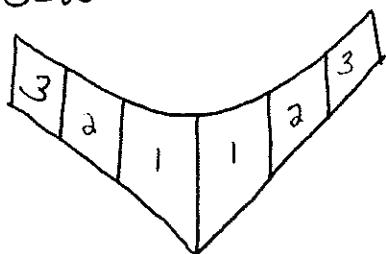


(I DON'T REMEMBER
WHO OR WHERE THIS
COMES FROM, TO MY KNOWLEDGE
IT'S JUST A STANDARD THING.)

LARGE COLLAR -
 CUT 1 OF EACH SIDE
 (6 TOTAL PIECES)

To
 SEW:

STEP 1.
 SEW PIECES TOGETHER
 LIKE THIS:



TOP

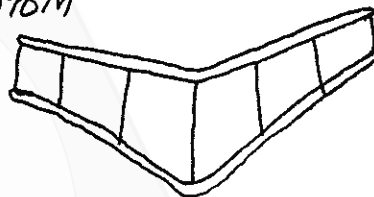
LARGE
 2 - RIGHT
 SIDE

TOP

LARGE

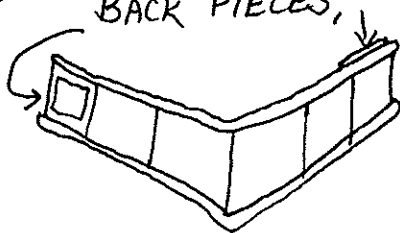
1 - RIGHT
 SIDE

STEP 2.
 ADD ROLLED VINYL
 OR CHINTZ WELTING TO
 TOP AND BOTTOM



STEP 3.

ADD A WIDE PIECE
 OF VELCRO TO THE
 BACK PIECES,



TOP

LARGE

3 - RIGHT SIDE

MEDIUM & CHOKER COLLAR

TOP

MEDIUM

1- RIGHT
SIDE

TOP

CHOKER

1- RIGHT
SIDE

TOP

CHOKER

2- RIGHT
SIDE

MEDIUM

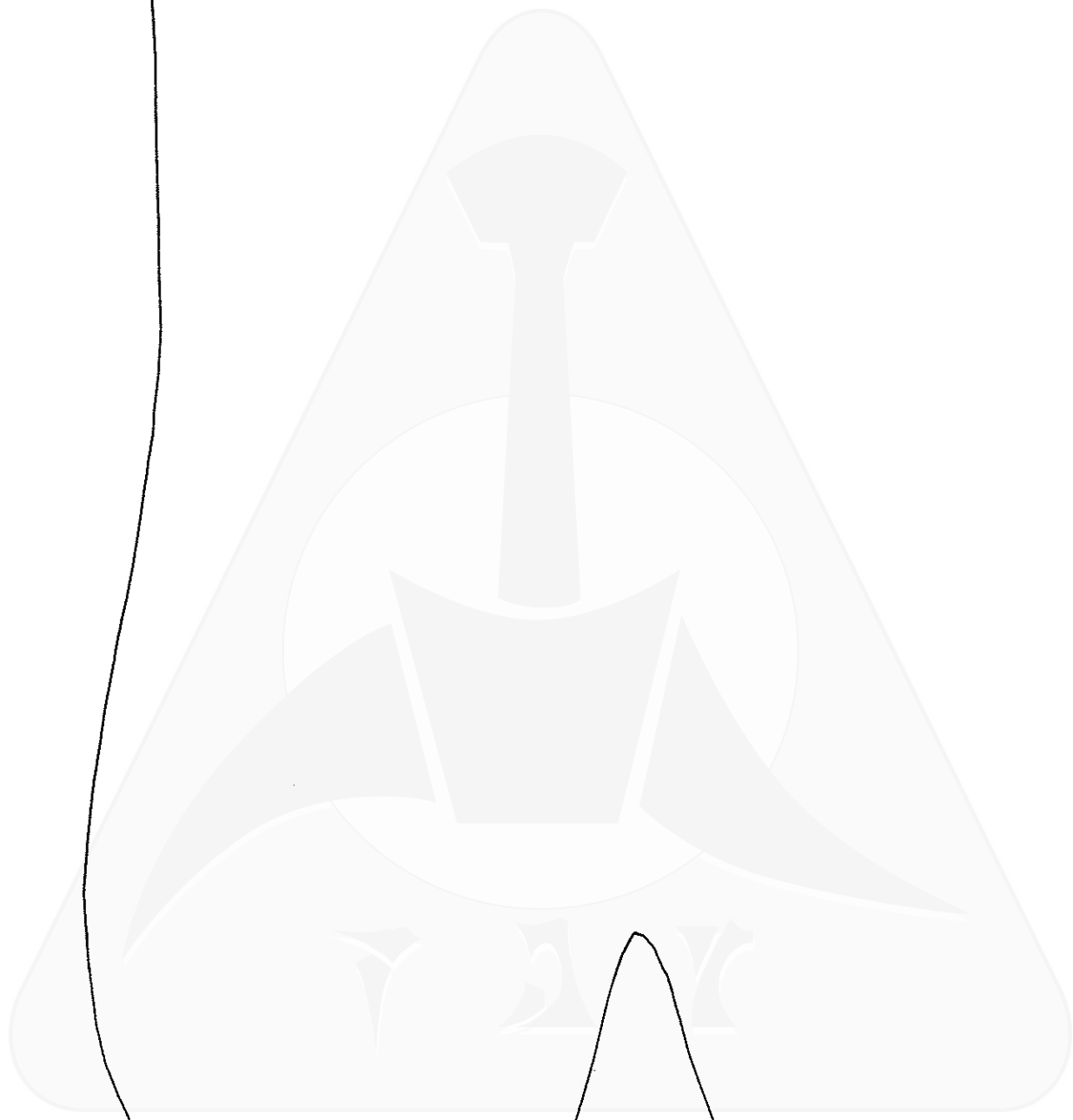
2- RIGHT
SIDE

TOP

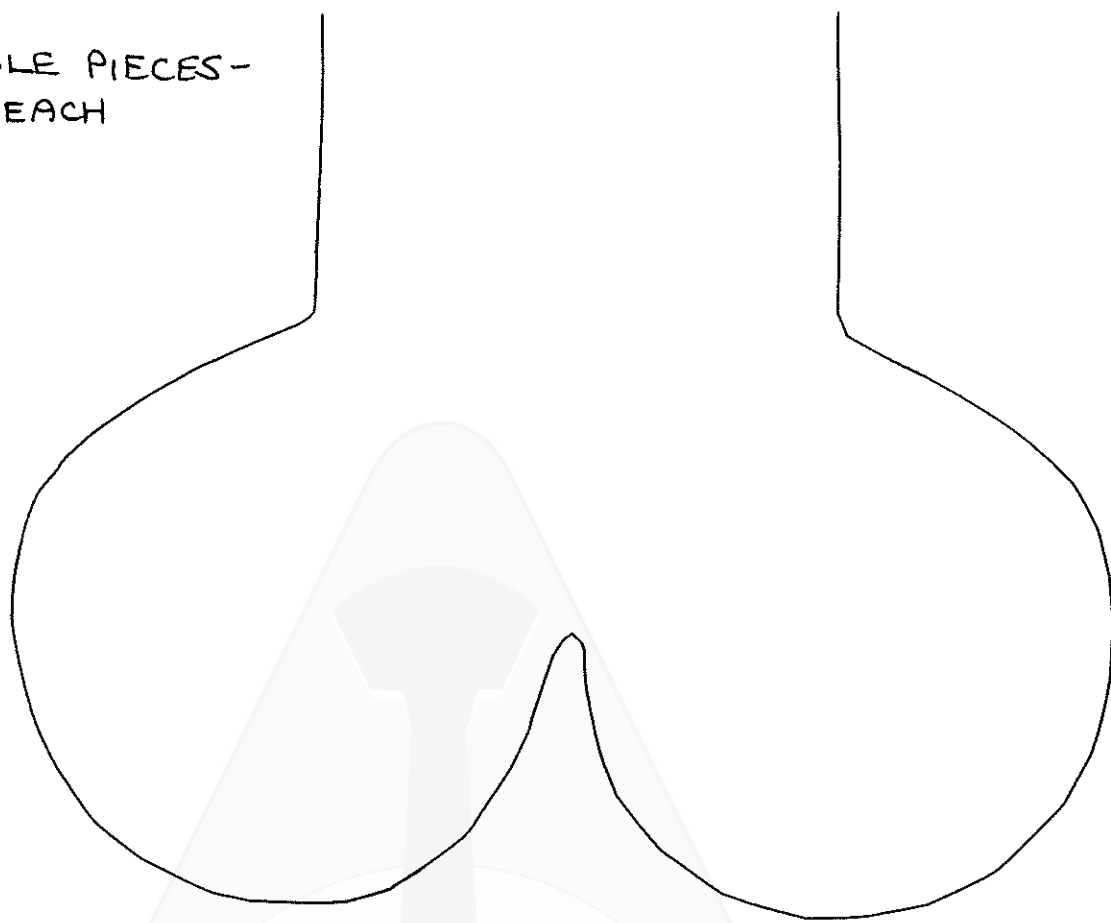
MEDIUM & CHOKER

3- RIGHT
SIDE

PINE -
TOP PIECE -
CUT 1.

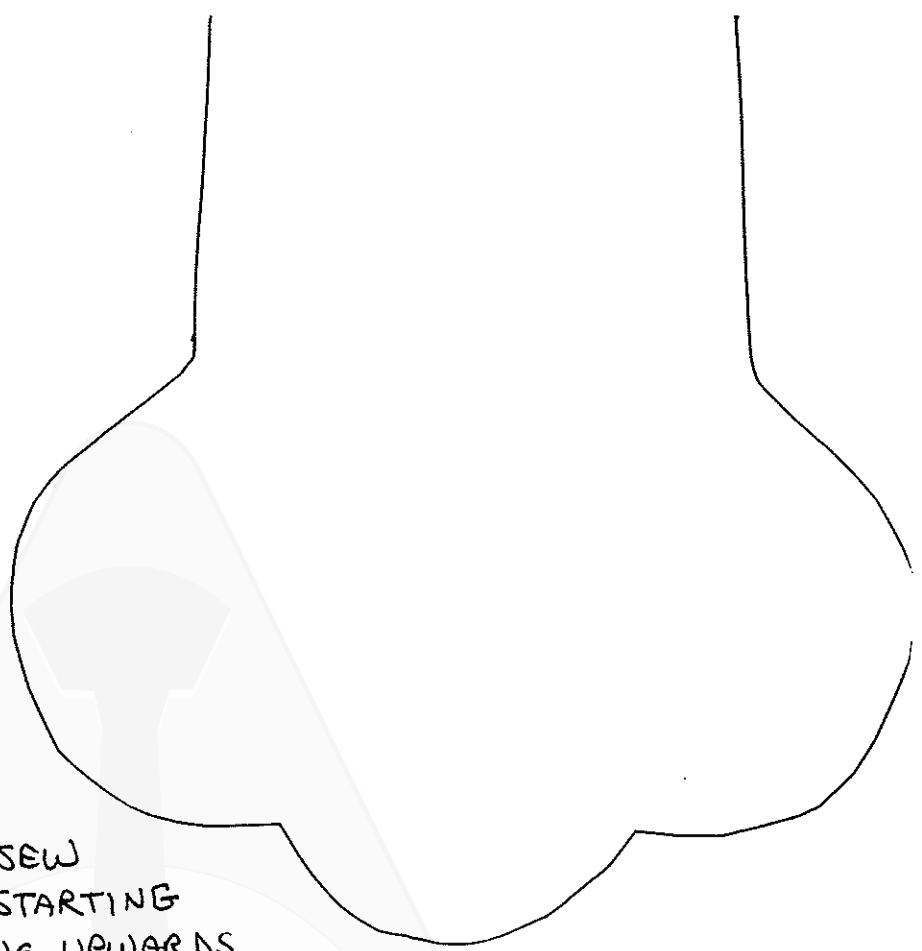
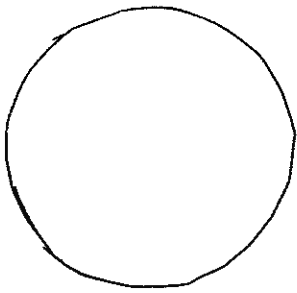


SPINE - MIDDLE PIECES -
CUT 3 OF EACH



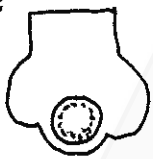
SPINE -

BOTTOM PIECES - CUT 1
OF EACH



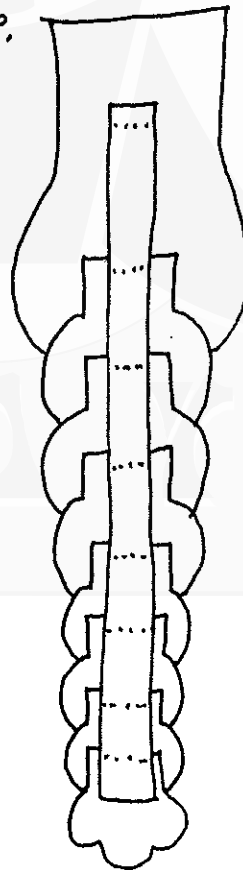
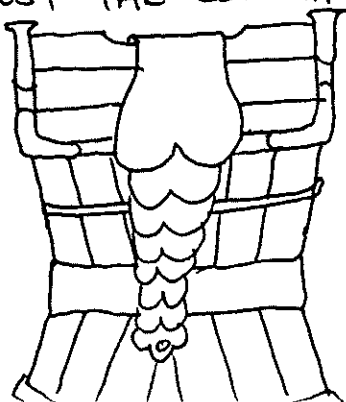
TO SEW:

CUT ALONG STRIP OF VINYL,
ELASTIC OR WHATEVER, AND SEW
EACH PIECE STRAIGHT ON IT, STARTING
FROM THE BOTTOM AND WORKING UPWARDS,
SMALLEST TO LARGEST. THE CIRCLE ABOVE
GETS SEWN TO THE BOTTOM SPINE PIECE
LIKE THIS:



OVERLAP THE SPINE
PIECES AS YOU GO UP.

WHEN DONE, ATTACH THE SPINE TO
THE UNIFORM BY FOLDING THE TOP
PIECE OVER THE BACK OF THE NECK
OF YOUR TUNIC & PINNING OR SEWING
IN PLACE. LOWER & RAISE TO
ADJUST THE LENGTH AS NEEDED.



BACK VIEW OF
FINISHED SPINE



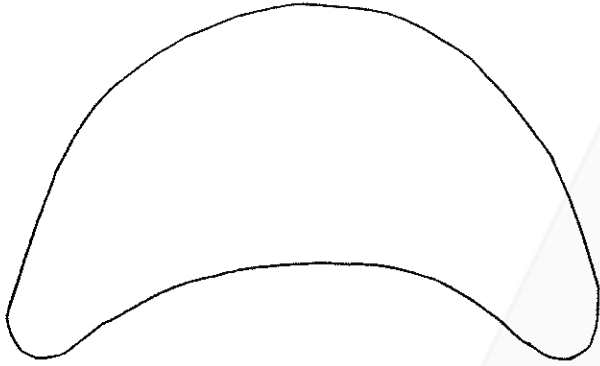
FRONT VIEW OF
FINISHED SPINE

BREAST CUPS FOR FEMALE UNIFORMS

PER CUP:

CUT ANYWHERE FROM 8-14, ENOUGH TO MAKE
A CIRCLE OF HALF-MOONS.

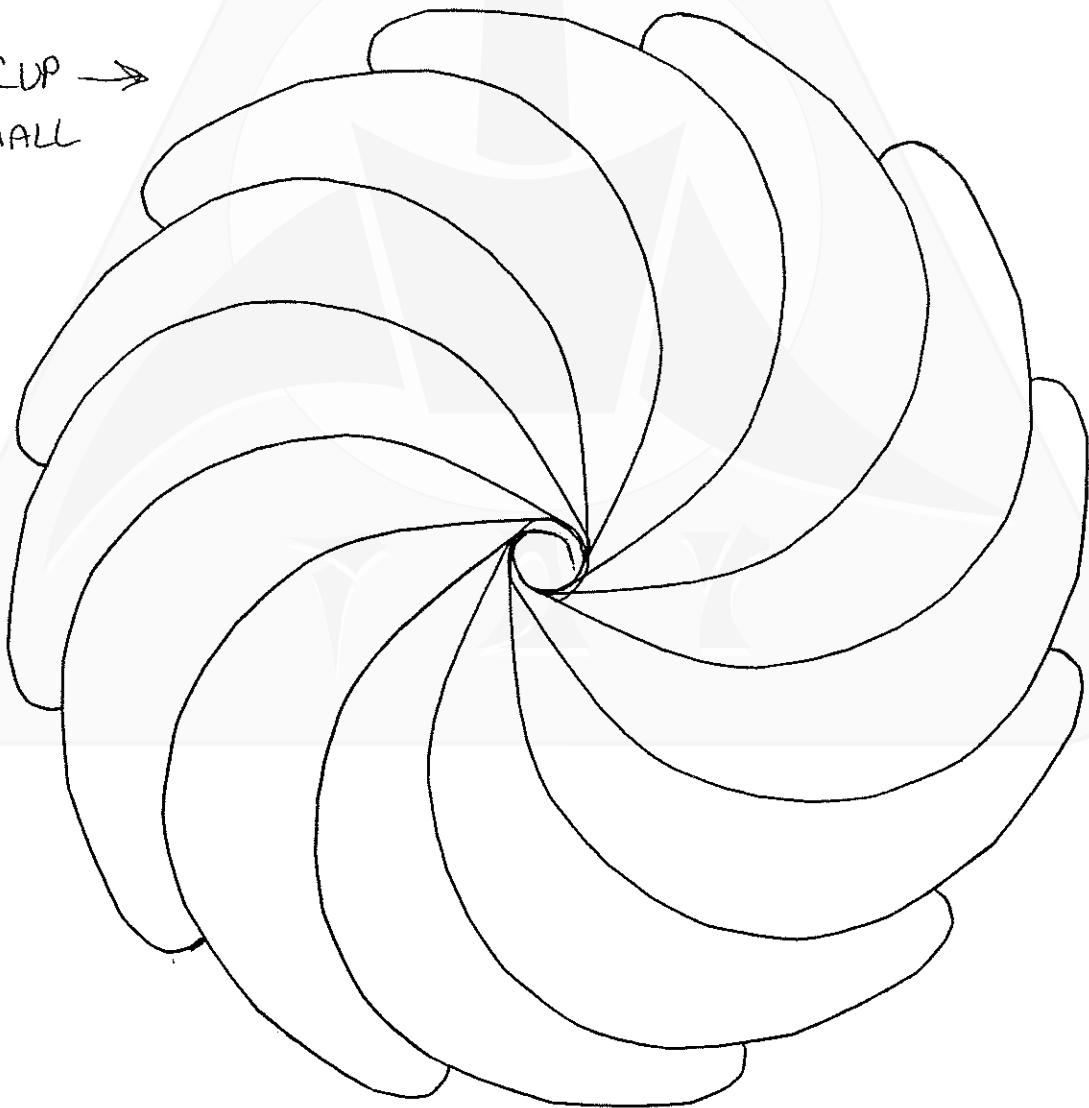
SMALL



LARGE



FINAL CUP →
(FROM SMALL
SIZE)



(ALL OTHER ARMOR PIECES ARE CUT 1 1/4" WIDE, WITH VARYING LENGTHS, ROUNDED AT THE ENDS AND OVERLAPPING EACH OTHER ON THE UNIFORM)

2. CORNER
PIECE -
CUT 4 PER
UNIFORM

1. FRONT & CENTRAL
PIECE - CUT 1 PER
UNIFORM

STEPS FOR #3.

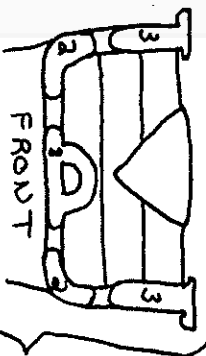
1. FOLD IN HALF, RIGHT
SIDES OUT, & SEW DOWN



2. ROUND OFF
BOTTOMS



PIECES FIT ON
UNIFORM LIKE
THIS.

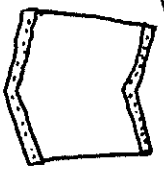


3. SHOULDER PIECE - CUT 2 PER UNIFORM



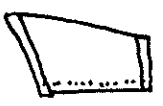
HOLSTER (FOR PLAYMATE DISRUPTOR)

STEP 1. FOLD & SEW TOP & BOTTOM EDGES.



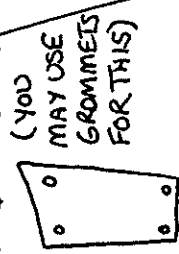
STEP 2.

FOLD IN
HALF &
SEW RIGHT
SIDES TOGETHER



STEP 3.

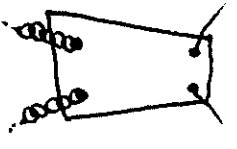
PULL THROUGH,
RIGHT-SIDE OUT.
PUNCH 4 HOLES
FOR SHOULDER
CHAIN & LEGSTRAP.



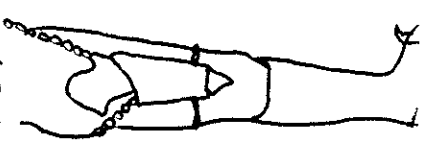
(YOU
MAY USE
GROMMETS
FOR THIS)

STEP 4.

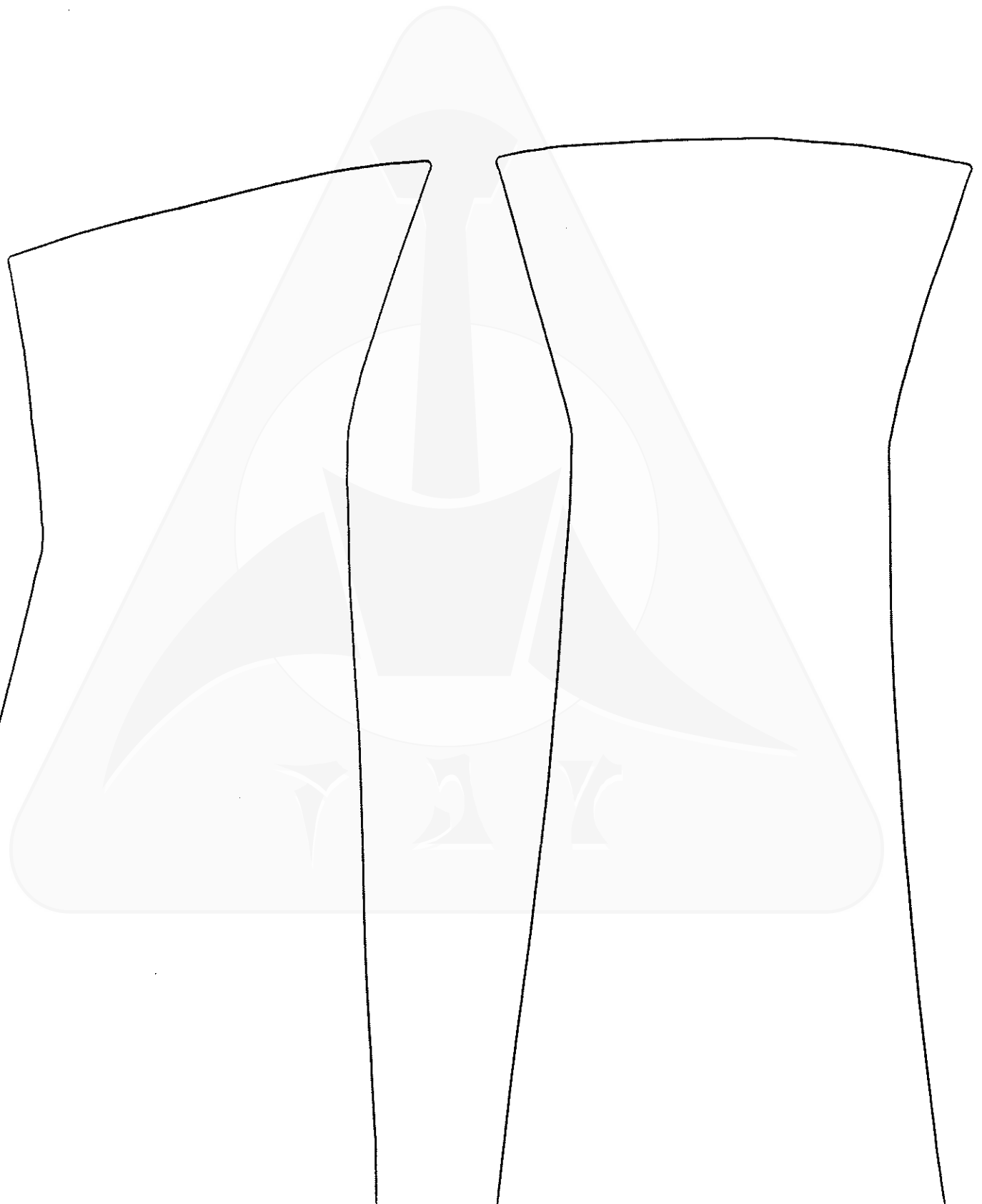
ATTACH CHAIN &
STRAP.



STEPS.
WEAR!



CHILD SIZED GAUNTLETS



CHILD SIZE SPINE -
CUT 3 OF EACH

