

Fabrication of Compartment Cushions

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1

Compartment Cushions or Divided Cushions

- ▶ A pull divides the cushion into compartments.
 - ▶ Where can a divided cushion be used?
 - ▶ Lumbar backrest
 - ▶ Knee rolls cushions
 - ▶ Stand alone/loose cushion
 - ▶ Both can be stapled to a board
 - ▶ Specialized designs
 - ▶ Multiple pulls
 - ▶ Curved pulls

2



3

Determine Dimensions

- ▶ Compartment Cushion
 - ▶ Use pattern or
 - ▶ Direct measurement of space
- ▶ Knee roll width
 - ▶ Based on the size of the space
 - ▶ 5 or 6 inches wide

4



5

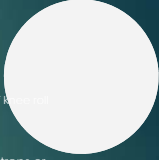
Mesh Bottom

- ▶ Why mesh?
 - ▶ Air release
 - ▶ Breathes
 - ▶ Moisture
 - ▶ Allows for drainage
 - ▶ Durable
 - ▶ Doesn't stretch
 - ▶ Salt water resistant
 - ▶ Cost


6

Mesh Bottom (Continued)

- ▶ Cut out mesh adding seam allowance
- ▶ Placement of pull line
 - ▶ determined by width of knee roll plus seam allowance
- ▶ Draw sewing line and seam allowance line
 - ▶ Seam allowances should fall in same direction top and bottom
- ▶ Start and stop sewing pull 5/8" from cut edge of mesh
- ▶ Sew in zippers (2)
 - ▶ Lengthwise center of knee roll
 - ▶ Main cushion area
- ▶ Sew in required snap straps or
 - ▶ Use Velcro strips



7



8

Selecting Foam

- ▶ Use Marine Grade Foam
 - ▶ Choose:
 - ▶ Regular foam
 - ▶ EZ-Dry foam
 - ▶ Closed cell foam
 - ▶ Density
 - ▶ Customers preference
 - ▶ Dacron
 - ▶ Gives a crowned look to the cushion/backrest
 - ▶ Levels out imperfections in the foam

9

Selecting the Material and Design

- ▶ Marine vinyl
 - ▶ Traditionally on boats
 - ▶ Durable, easy to clean
 - ▶ Resistant to stains
 - ▶ Water proof
- ▶ Recently released specialty vinyl
 - ▶ Ultra-leather
 - ▶ Very smooth
 - ▶ A little pricey
 - ▶ Carbon fiber
 - ▶ An excellent textural accent for a portion of cushion
- ▶ Fabric
 - ▶ Furniture Sunbrella
 - ▶ Just as durable as marine vinyl
 - ▶ Sunbrella
 - ▶ But is not a coarse weave
 - ▶ Lots of design and pattern options
- ▶ Design
 - ▶ Welt
 - ▶ Around sides, back, bottom
 - ▶ Sewn in above pull, across top
 - ▶ Topstitching, French stitching
 - ▶ Around sides
 - ▶ Across front

10

Cutting Foam and Patterning

Cutting Foam

- ▶ Use pattern or measurements
 - ▶ Cut main cushion foam
 - ▶ Add 1/4" to all 4 sides or 1/2" to width and 1/2" to length
 - ▶ Cut knee roll foam
 - ▶ Add 1/4" to each side or 1/2" to one end/side
 - ▶ Cut and glue 1/4" round to top of knee roll foam
 - ▶ After patterning knee roll and side(s), glue Dacron to top-main cushion and top & front-knee roll

Patterning

- ▶ Pin or temporarily glue:
 - ▶ Main and knee roll foam together
 - ▶ Pattern side/sides, and knee roll
- ▶ Trace the foam
 - ▶ Side(s) and knee roll edge(s)
- ▶ Draw a vertical line
 - ▶ Identifies the pull placement
- ▶ Draw one or two match marks in knee roll
- ▶ Trim pattern to the inside of lines

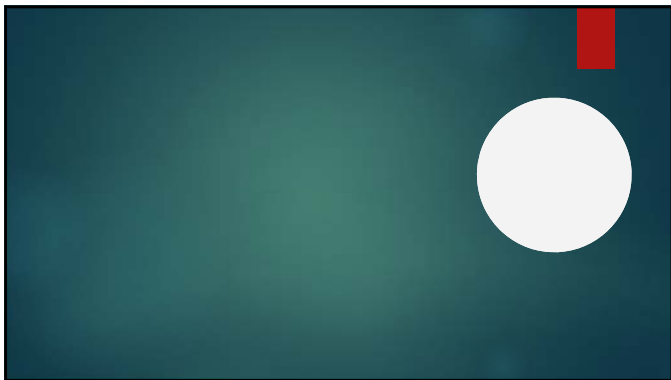
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12

Cutting Material

- ▶ Using patterns and/or measurements
 - ▶ Cut out main cushion and knee roll material
 - ▶ Cut out sides and back boxing
 - ▶ Transfer all match marks
 - ▶ Location of pull
- ▶ Cut welt material
 - ▶ Use 1 1/2" wide ruler

13



14

Sewing

or
Sit down and sew your brains out.

- ▶ Make all welt for entire cushion or French stitch top and front knee roll pieces
- ▶ Separate pull zipper
 - ▶ Top to top
 - ▶ Direction of seam allowance
- ▶ Sew pull, knee roll, welt (if desired) and main cushion materials together
 - ▶ Not necessarily at the same time
 - ▶ Open welt cover at the ends, remove 5/8" of welt

15

Sewing
(continued)

- ▶ Two ways to sew welt on
 - ▶ Sew welt to cushion
 - ▶ One continuous piece of welt (like a box cushion)
 - ▶ Remove about 1" of hard welt at the center back
 - ▶ Boxing seam either center back or back corners
 - ▶ Sew welt to sides and boxing (our preference)
 - ▶ Both welt and boxing seams, center back
 - ▶ Remove 1" hard welt, shave vinyl backing
- ▶ Sew sides and back boxing
 - ▶ Center back seam (preferred)
- ▶ Sew completed top and sides onto mesh
- ▶ Clip corners and curves
 - ▶ Relieves tension on seam allowance
 - ▶ Seams lay flatter
 - ▶ Reduces bulky corner look

16



17



18

Lumbar Backrests

- ▶ Most of the previous procedures are transferrable to Lumbar backrests
 - ▶ Exceptions
 - ▶ Selecting foam
 - ▶ Wedge foam for main compartment
 - ▶ ¼ round added front of neck roll
 - ▶ Density of foam
 - ▶ Thickness of foam
