NEFLIN
Archival Book Repair Workshop

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Agenda

- Overview (Book Structure, Supplies)
- Hinge Repairs
- Paper Tears
- Break
- Tip Ins
- Pam Binds

- Lunch (On Your Own)

- End Paper Repair
- Break
- Spine Repair
- Demos
  - Recasing a Book
  - Protective Enclosures
- Wrap-Up and Evaluation
Structure of the Book

- Parts of the book
- Internal structure of the book
ILLUSTRATION NUMBER 1: STANDING, PARTIALLY-FANNELED BOOK.
COVER SPINE TO VIEWER.

- Back Cover
- Top Edge
- Square
- Fore Edge
- Hollow
- Head of Book
- Cover Spine
- Front Cover
- Tail of Book
- Outer Hinge
- Bottom Edge
ILLUSTRATION NUMBER 3:

MAJOR COMPONENTS OF TYPICAL MODERN BOOK: TEXTBLOCK AND CASE, JUST PRIOR TO CASING-IN.

PAPER LINING: 2ND TEXTBLOCK SPINE LINING

BOARDS
HEADBAND
SPINE STRIP
SUPER: 1ST TEXTBLOCK SPINE LINING

TURN IN
CASE
HINGE AREA
SECTION
TAILBAND
ENDSHEET
TEXTBLOCK
ILLUSTRATION NUMBER 4A:

EXPLODED VIEW OF TEXTBLOCK WITH SEWN OR GLUED SECTIONS. HEADBANDS AND SUPER ARE ATTACHED TO SPINE. TEXTBLOCK ALSO ROUNDED AND BACKED.

BACK ENDSHEET

HEADBAND

CONVEX SPINE

CONCAVE FORE EDGE

SHOULDER

SUPER HINGE

TAILBAND

SUPER: 1ST TEXTBLOCK SPINE LINING

PAPER LINING: 2ND TEXTBLOCK SPINE LINING

FRONT ENDSHEET
Dartmouth College
Parts of a Book

What have we learned about book structure?
Book Repair Tools
Book Repair Kit

- Brushes
- Glues
- Sharp pointy things
- Measuring tools
- Pressing tools
- Sewing
- Misc.
Repairing Loose Hinges
Loose hinges Without Torn Endsheets—Problems & Solutions

A. Basic Type

B. Extreme Case

C. Detached Endsheets
Tightening the Hinges of a Hardback Book
Repairing Loose Hinges
Hinge Repair

1. Open the book, pressing the textblock away from the cover.
2. Dip knitting needle into glue. Pull needle out, removing excess glue.
3. Insert needle into hinge area, rolling needle into joint area.
   DO NOT get glue into spine area.
4. Turn book over and do other end.
5. Bone in the hinge.
7. Repeat with other cover.
9. Place plexiglass rod on top hinge. Place press board on top of book.
Paper Tears: Beveled Edge

1. Place waxed paper under torn page.
2. Using small brush, glue the beveled part of the tear.
4. Spread wheat paste on mylar, just a bit larger than Japanese paper.
5. Press Japanese paper on mylar, leaving an end unglued.
6. Pick up paper with unglued end and position over tear.
7. Lightly press paper to page.
8. Place waxed paper on top of page.
Single Page Tip In

University of Illinois Urbana-Champaign Library Manual
Single Page Tip-In

1. Identify the side of the torn page that will face the flat side of book.
2. Place waste paper 1/8 inch from inner margin.
3. Glue the exposed edge from center upward, then downward.
4. Place page into book, aligning the top and bottom of page.
Multiple Page Tip-In

- Place the pages on top of each other with 1/8 inch of margin showing.
- 2. Place waste paper 1/8 inch from inner margin of top sheet.
- 3. Tap the pages together to make a packet.
- 4. Place packet into book, aligning the top and bottom of page.
Pamphlet Binding

1. Remove staples.
2. Measure thread 2 ½ times height of binder.
3. Thread needle.
4. Poke three holes (center, top, bottom).
5. Insert needle in middle hole from inside center.
6. Pull thread through; go through top hole from outside.
7. Pull thread down to bottom hole, go through from inside.
8. Go back through middle hole, being careful not to split threads.
9. Place on tail on either side of center thread.
10. Tie a square knot.
Pamphlet Bind: 5 Hole Stitch

- Archival Products Video
Replace Endpapers
Remove Endpapers, Tip on New
End Paper Repair: Remove Old Endpapers

2. Remove loose paper. Sand cover.
3. Measure endpaper to the height of the text block and cut.
4. Check the height. Use bone folder to curve the folded edge against the shoulder.
5. Glue the folded edge (as we did for a tip-in) and glue onto the text block.
6. Close cover and bone in hinge.
End Paper Repair: Trim, Glue on End Papers

7. Insert heavy stock paper between end paper and cover.
8. Insert straight edge on top of first page and cut end papers to width of page.
9. Insert waste paper between endsheets.
10. Use large brush to glue up endsheet. Start in middle, go to edge.
11. Close cover, pressing board into hinge area.
12. Open book slightly to insert waxed paper.
13. Place plexiglass rods in hinges and press.
Spine Repair
Spine Repair: Torn or Deteriorated Cover Spine

1. Cover spine completely torn alone one side/edge

2. Cover spine torn downward due to earlier headcap damage

3. Covering material on spine edge tattered and worn
Spine Repair:
Remove Old Spine

1. Cut book cloth 1/8 inch from hinge (on cover side).
2. Open book and cut along the turn-ins (touching end paper edge) 1 inch from spine. (Make tabs.)
3. Snip cloth along head and tail to release the spine completely.
4. Using micro spatula, carefully remove book cloth from spine area.
   Do not damage the woven super along hinge.
5. Repeat for other side.
Spine Repair:
Cut Inlay, Buckram

1. Measure width of spine (shoulder to shoulder) with scrap paper.
2. Mark width on inlay and cut.
3. Measure height of cover board and cut inlay.
4. Place straight edge on left side of buckram and draw a line.
5. Place straight edge on bottom edge of buckram and draw a line.
6. Place inlay at edge of the two lines. Outline the inlay.
7. Place straight edge on right side of inlay and draw a line.
8. Place straight edge on top side of inlay and draw a line.
Spine Repair: Glue Inlay and Tabs

1. Glue up the inlay and attach to buckram.
2. Using bone folder, smooth the inlay.
3. At each corner of inlay, cut small triangles.
4. Fold top and bottom of inlay and check the fit by placing on spine.
5. Glue top and bottom tabs onto buckram.
6. Check again for fit and bone in hinges.
7. Slightly curve inlay to fit curve of the spine.
8. Cover inlay with waste paper and glue one side of buckram.
9. Glue onto cover; bone in hinge.
10. Repeat with other side.
Spine Repair: Glue Original Spine

1. Trim original spine to fit on new spine.
2. Remove as much of old inlay as possible.
3. Glue original spine; attach to new spine.
4. Place waxed paper around spine.
5. Use plexiglass rods and place between press boards.
Recasing Demo
Detached Cover

A. Basic Type

B. Detached with Endsheets Intact
ILLUSTRATION NUMBER 5:

View of case before covering material is turned-in on (turned over onto) the boards and spine strip.
Protective Enclosures

- Four-fold pam binder
- Four-fold with stock paper
- Phase box
- Archival boxes (Clamshell, Hollinger)
- Encapsulation
Useful Book Repair Web Sites

- http://cool.conservation-us.org/
- http://www.lyrasis.org/Preservation.aspx
- http://library.state.ak.us/hist/conman.html
- http://www.loc.gov/preserv/
- http://www.amigos.org/node/45
- http://www.library.illinois.edu/prescons/preserve/
Book Repair Bibliography

Thank You!

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