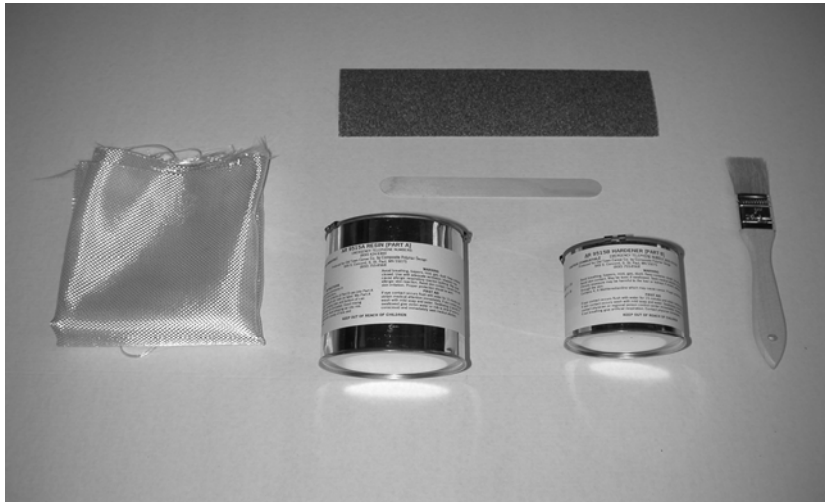




Old Town Canoe
 35 Middle Street
 Old Town, Maine 04468
 207-827-5513
 www.oldtowncanoe.com

Discovery Repair Kit Also for Royalex Canoes		
Kit# 01.1331.0641	Revision 1/03	Page 1 of 2



Kit Contents:

Quantity	Description	Part Number
1	Sandpaper	1311.1050
1	Fiberglass Cloth	1314.0085
1	Can Resin	1331.0641A
1	Can Hardener	1331.0641B
1	Paint Brush	1311.0130
1	Stirring Stick	1311.0446

Other Tools and Materials Required:

Clean, dry dust cloth
 Plastic sheet for drip cover
 Scissors to cut fiberglass cloth

1 ½ or 2 inch wide masking tape
 Disposable gloves
 Measuring tape

Small handheld propane torch
 (Not needed for Royalex Canoes)

Read all instructions, including the precaution labels on resin and hardener cans before beginning. Work in a clean area out of direct sunlight. Avoid exposing skin or eyes to resin by wearing gloves and glasses.

Step 1. Prepare the area.

- Position the canoe so that the hole or tear is flat, level, and easy to reach. Align the edges of the tear to as near original position as possible.
- On the inside and outside of the canoe, sand a rectangle 3” all around the damage with the sandpaper. Outline the perimeter of the sanded areas with masking tape.
- After sanding, wipe off the areas with a cloth. Carefully examine the surface. If you can see any shiny areas, sand them until the shine is gone.



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Step 2. Flaming

- **USE THIS STEP ONLY ON DISCOVERY POLYETHELENE CANOES. DO NOT USE ON ROYALEX CANOES.**
- Remove the tape outline. You will be able to see the difference between the sanded surface and the shiny surface without the tape.
- “Flaming” will allow the resin to adhere to the surface. The process does not involve melting or blackening the surface.
- Light the hand held propane torch. The flame will have an inner cone and an outer cone. Adjust the flame so that the inner cone extends about 1” from the nozzle.
- Moving smoothly and quickly, bring the tip of the inner cone in contact with the surface of the canoe, and sweep back and forth over the area. The flame should touch the hull in any one spot only momentarily.
- If you feel that you might have missed a spot, wait about 20 minutes and repeat the process.
- After flaming the outside of the canoe, wait about 20 minutes to flame the inside sanded area. **DO NOT** touch the area after flaming as oils from your fingers will remain.
- Reattach the tape outline, and attach the plastic drip cover around the working area with masking tape, to prevent dripping resin onto your canoe. Press the tape down firmly all around to prevent resin runs under the tape.

Step 3. Prepare fiberglass cloth

- Cut six pieces from the cloth supplied with the repair kit. Cut two large pieces with a two inch margin all around the break and cut 4 smaller pieces with a 1inch margin around the break. (If you are repairing a large area, you may have enough cloth for only two layers on each side)

Step 4. Applying the cloth and resin

- Resin working time is 20 minutes at 70 degrees Fahrenheit. At temperatures warmer than 70 degrees, the working time is greatly reduced (90 degree temperature gives you only 10 minutes working time).
- Mix the resin. Pour Part B (hardener) into Part A (resin). If lesser amounts are needed, mix in a ratio of 5 parts A to 2 parts B. Mix thoroughly, until the mixture is uniform color.
- With the paintbrush, apply a liberal amount of mixed resin to the sanded area on the inside of the canoe.
- Apply a small piece of cloth to the wet resin, using the brush to work the resin through the cloth and work air bubbles out to the edge. Apply one of the larger pieces on top of the smaller piece, and apply more resin, if needed. Apply a second smaller piece, working the resin through the cloth and removing the air bubbles. Smooth or feather the edges of the resin as much as possible.
- Apply resin to the outside sanded area of the canoe and repeat the process with the last three pieces of cloth.

Step 5. Finishing

- Let the resin cure for at least 6 hours, then lightly sand the edges of the repaired area.
- Paint is available to match the canoe if desired.