Materials List

Below is a list of materials used to restore the Glen Echo Park Dentzel carousel. Manufacturers are mentioned if their products are uniquely suitable.

Protective wear and equipment

Tyvek coveralls

Latex or vinyl gloves, hair net, booties

Glasses or eye protection

Survivaire protective respirator with filters approved for lead

HEPA vacuum cleaner approved for lead

Removing paint

Hairdryer or heat gun that can be set as low as 200 degrees F

X-Acto knife with #10 or #22 blade

Denatured alcohol

Mineral spirits

Dimethylformamide (DMF) (Note: highly toxic)

Methylene chloride paint remover

Repairing pieces

West System 105 epoxy resin, 206 epoxy hardener, 306 epoxy pump dispenser, 406 colloidal silica, 410 Microlight fairing filler

Old paint brushes

X-Acto knife with #10 or #22 blade

Masking tape

Dixie cups

Sanding sticks by Woodcraft, #220 grit sandpaper

Rasps, chisels, files, mallets

Contour gauge

Woodcarver's calipers by Woodcraft

Bandsaw, coping saw

Basswood or poplar blocks of wood

Electric drill

Rubber strips cut from inner tubes, clamps

Sealing the original paint

Acryloid B-72 or Paraloid B-72 in xylene

B-I-N white pigmented shellac by Zinsser

Preparing the surface for repainting

Oil-based primer by Sherwin Williams

#100 to #220 grit sandpaper

Polyfilla cellulose filler by LePage of Canada

Palette knife

Dixie cups

Preparing the rounding boards for repainting

Tri-sodium phosphate (TSP)

Toothbrushes and 2-inch natural bristle brushes X-Acto knife with #10 or #22 blade Paint scrapers in various sizes Baby wipes Paper towels and rags

Leafing

Sheets of aluminum and 23-carat gold leaf
Fast Dry Gold Size 4008 (oil-based) by One Shot or varnish
Colour Shaper brushes by Forsline and Starr for pressing leaf into the surface
Soft paint brushes for brushing away excess leaf
Polyester fleece cloth for burnishing leaf
Gilder's tips, gilder's pad, and gilder's knife

Glazing leaf

Transparent artist oil paints Paint brushes, stipple brushes

Applying bronze and gold powders

Cres-Lite bronze powders by the Crescent Bronze Powder Company 23-carat gold powder for the jesters
Fast Dry Gold Size 4008 (oil-based) by One Shot
Black oil paint for base coat beneath bronze powders
Dark brown oil paint for base coat beneath gold powders
Polyester fleece cloth and rubber band for applying powders
Orange shellac (3 LB cut) for sealing bronze powders

Painting

Brushes: 2-inch brushes, stipple brushes, soft brushes, fan brushes
Alkyd enamel low luster base coat
Artist oil paints for painting animal bodies, band organ facade and rounding boards
Artist acrylic paints for inpainting panels
Oil-based sign painter's paints by One Shot for painting saddles, straps, and other tack on animals
Liquin medium for oil paints by Windsor-Newton
Dixie cups

Creating and transferring designs

Tracing paper or acetate, pen Graphite transfer paper, stylus

Pin striping

Oil-based sign painter's paints by One Shot Lining brush

Varnishing

Behlen Water White Restoration Varnish for varnishing animals Soluvar Picture Varnish (Acryloid B-67 in mineral spirits) by Liquitex for varnishing drum panels, the band organ facade, ceiling panels, and rounding boards