


Wood Radio Repair and Refinishing

And Chassis Restoration

By

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**There is more than
one way to do just
about everything**

Assessment

- **Broken**
- **Missing**
- **Damaged**
- **Photofinish**
- **Tobacco residue - may not be worth the effort**

1931 Crosley 124 Playtime Photofinish around the clock



How much time?

- **Fun**
- **Profit (better to work at a burger place)**

Older books and articles

- **Nice resources**
- **Do not cover modern materials**

Original Finish

- **What did it look like from the factory**
- **Not dull, darkened, faded, or flaking.....**
- **Old photos show most radios were glossy**



Stripping

- **"0" / "00" steel wool**
- **Terry cloth rags (Home Depot)**
- **Lacquer Thinner / Acetone**
- **No need for nasty chemical strippers**
- **Use/ wear proper PPE**

Replacing missing / damaged grilles

laser cutters



House plant damage

- **Mohawk epoxy putty or Bondo**
- **Strips of Veneer to Build-Up**





et Weight



M743-1560

MOHAWK
Finishing Products

Epoxy Putty Stick



Walnut

M743-1560

**MADE IN
THE USA**

PAIR • FIL

Four Way Veneer From Constatine's Applied



Dark Stains

- **Wood bleach**
- **Multiple applications**





SAVOGRAN



Oxalic Acid

Wood Bleach
Decolorador para madera

- Bleaches uncoated wood**
- Removes black water spots and stains**
- Gently lightens wood**

WARNING: MAY BE FATAL IF SWALLOWED. CAUSES EYE AND
RESPIRATORY IRRITATION. MAY CAUSE BURNS. DO NOT BREATHE DUST.
See other warnings and Health Hazard Information on back.

¡ATENCIÓN! PUEDE SER FATAL
SI SE INGIERE. CAUSA
EN LA PIEL Y LOS OJOS.
CAUSAR QUEMADURAS.
NO RESPIRE EL POLVO.

Net Wt. 12 Oz. - (340 g)



Furniture Polish - Silicone

- **Mohawk Wax Wash**
- **Clean cotton rags**
- **Turn / change frequently**

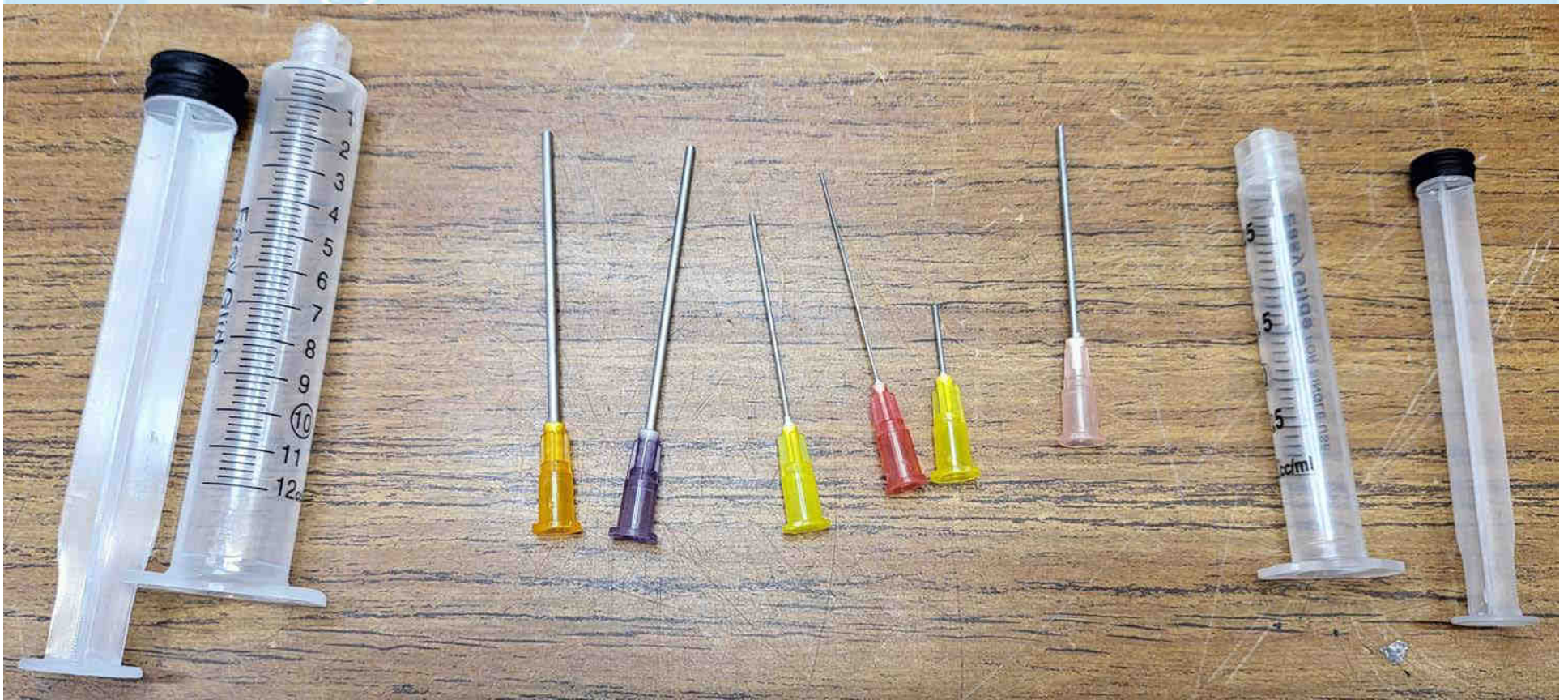
Glue

- **Stainable for veneer repairs**
- **Brown with nut shell powder for attaching veneer**
- **Careful use of heat gun to soften and re-attach**

Wood Glues



Glue Syringes



Glue Loose Joints & Veneer, Replace Missing Pieces



Repair Piece - Rasp, Sand



1929 General Motors Dayfan 72 Base Glued Crooked, Heat Gun to Loosen and Re-Do



Typical Chips

Philco 38-10, but the same for any veneered items



Repair Conforms



12/05/2010

Refinished



Veneer Isn't Lumber!

No cutting straight lines!

Select matching veneer

Overlap

Glue

Clamp tightly

Sand carefully with a block -400

Front Chip

Emerson 578



11/30/2010

Over-Sized Matching Patch



Carefully Sanded- Conforms



Refinished



06/03/2011

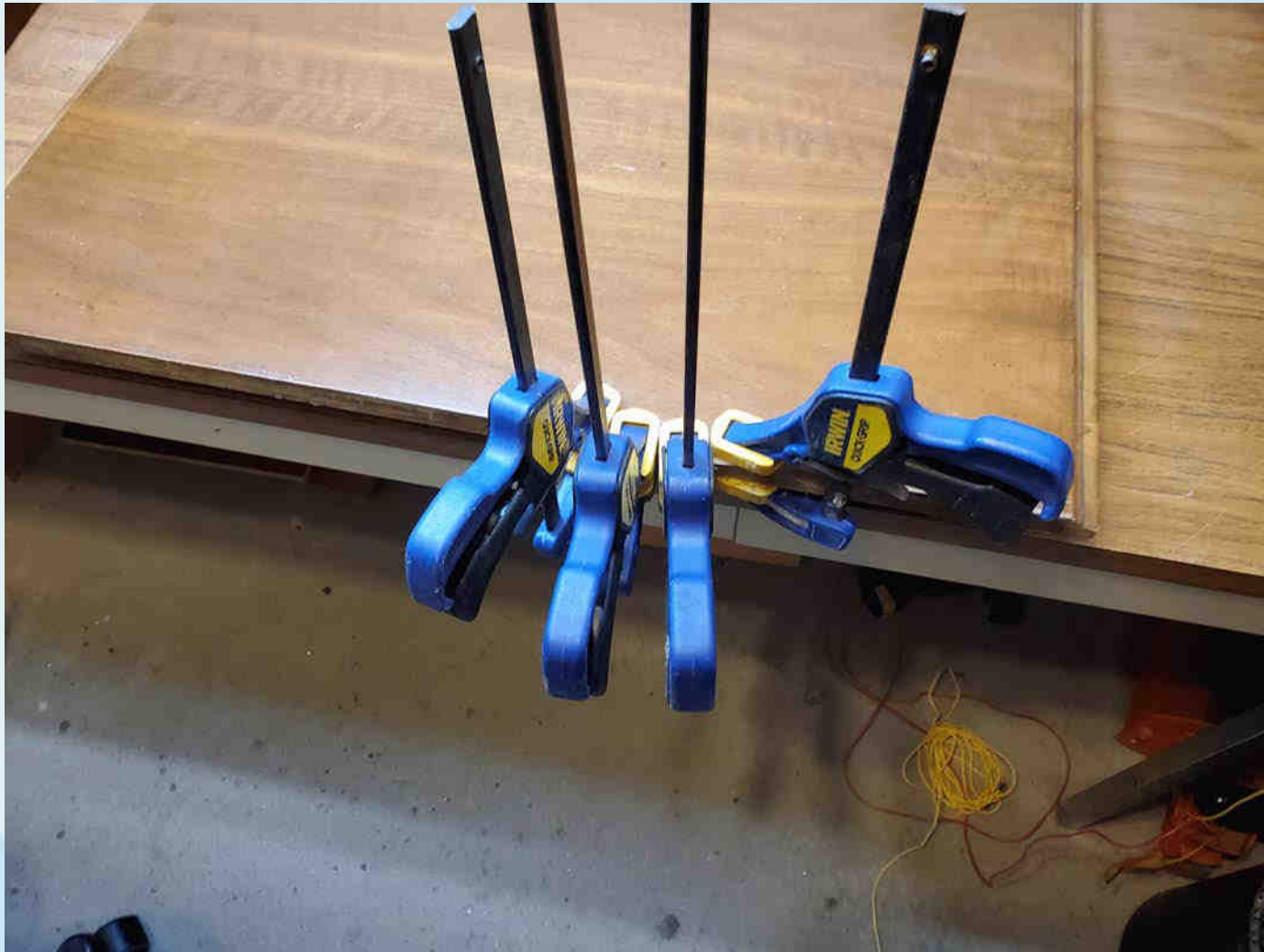
“Rubber” Faced Clamps



Typical Edge Damage



Clamped Tightly



Grain Filler - Timbermate

- **Fast & Easy**
- **Apply with burlap**
- **Take care not to wash it out**
- **Typically two applications**
- **Sand - 320 / 400**



Stain

- **Oil (stains, can make wood too dark), Alcohol, or Water Based**
- **Colors may be mixed**
- **Achieve even overall tone**
- **Tone grain filler**



Varathane
SINCE 1958
WOOD STAIN

BEAUTIFUL RESULTS
3X
FASTER

Dries in **ONE** hour
Achieve color in **ONE** coat
Covers **75%** more (275 Sq.Ft.)

in UNITS
en UNITS
275 plus cuadrados

Satisfaction
Guaranteed

PAPRIKA

MOHAWK

Ultra® Penetrating Stain
Ultra™ Teinture Pénétrante

Cherry
Cerise

M520-4086 / MA520-4086

Low Solids
Coating

Meets Federal & State VOC Requirements

1 Quart / 946 ml

For Industrial & Commercial Use Only. KEEP OUT OF REACH OF CHILDREN. Pour l'usage industriel et commercial seulement. GARDER HORS DE PORTÉE DES ENFANTS.

MOHAWK
Finishing Products®

Ultra® Penetrating Stain
Ultra® Teinture Pénétrante

Light Walnut
Noyer Pâle

M520-2066 / MA520-2066

Low Solids
Coating

Meets Federal & State VOC Requirements

1 Quart / 946 ml

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Shellac / Lacquer Sanding Sealer

- To seal
- Helps greatly when silicone furniture polish had been used

Lacquer IS Available



- **Local suppliers**
- **Mail Order**

Toned Lacquer

- Opaque
- Translucent



Masking



HVLP



Wet Sand - 600 & Higher, Lightly

Wells-Gardener Aria



Horizontal Surfaces



Runs

- **Not a tragedy**
- **Do not touch!**
- **Carefully sand**
- **Use Blush / Retarder**
- **Strip an area**

Grille Cloth

- **Iron, Spray Starch**
- **Separate Board - Tape Edges Onto Board, Back Side Up, Spray 3M 77 Onto Board, Press and Weight**
- **Inside Cabinet - Wood Glue One Edge, When Set Enough, Glue Edge 90 Degrees From First One,,,,,**
- **Take Care For Pattern Alignment**
- **Open Screw Holes In Fabric With Tool, Or Fabric Will Catch On Screws**

Rusty Chassis - Use Bullfrog



Crosley Buddy Boy







Metal Polishing

- **Simichrome**
- **Brasso**
- **Scrub Sponge, Cut Into Pieces**
- **Cotton Terry to Polish**
- **Dremel Pads**
- **Mohawk Lacquer For Brass**





Bulova Clock - Console Chassis



Denture Tablets - Plastic Knobs



Plastic Polishing



Asbestos Insulation Pads

YES, It IS Deadly!

- **Wet with a mist, a bit of detergent in the water**
- **Tight-Fitting Respirator with 100 cartridges**
- **Airless spray to apply sealant**
- **Ceramic mats make a fine replacement**