

\*\* denotes items that are suggested to assemble the practice projects: “RV TRAINING PROJECT-1” and/or “TOOL BOX KIT” and/or “VAN’S LIGHT BOX SIGN KIT.”

## Aircraft Specialty Tools for the RV-7, RV-8, RV-9

(scroll down for RV-10, RV-14 additions)

- 3X Rivet Gun\*\* (2X or 3X for QuickBuild)
- Non-Swivel Click-type Air Regulator
- 1" Dia. Flush Set \*\*
- 1/8" Cupped Set 3.5" \*\*
- 1/8" Double Offset Cupped Set (Not needed for QuickBuilds)
- Back Rivet Set \*\*
- Bucking bar (Tungsten or multiple shapes)
- Microstop Countersink Cage\*\*
- #40 Countersink – 3/32" Rivet \*\*
- #30 Countersink – 1/8" Rivet
- #6 Countersink – #6 Screw
- #8 Countersink – #8 Screw
- #10 Countersink – #10 Screw
- #40 Straight Flute Reamer
- #30 Straight Flute Reamer
- 1/4" Straight Flute Reamer
- 7.9mm Straight Flute Reamer
- 5-10 #40 Jobber Drill Bits (for 3/32" rivets) \*\*
- 5-10 #30 Jobber Drill Bits (for 1/8" rivets) \*\*
- #19 Jobber Drill Bit
- #12 Jobber Drill Bit
- #10 Jobber Drill Bit
- #21 Jobber Drill Bit

- #28 Jobber Drill Bit
- ¼" Jobber Drill Bit
- "D" Jobber Drill Bit
- "N" Jobber Drill Bit
- 12" #40 Drill Bit
- 12" #30 Drill Bit
- Deburring Set – Large Holes
- Hex Shank Deburring Bit – Small Holes
- 3M Cut & Polishing Wheel 6"
- 3M hand pads
- Cleco Pliers \*\*
- 325 Cleco Fasteners – 3/32" \*\* (\*\* 30 required, 150 if QB, 500 if 10/14)
- 175 Cleco Fasteners – 1/8" \*\* (\*\* 10 required, 75 if QB)
- 10 Cleco Fasteners – 3/16"
- 4 Cleco Clamps – 1/2" Jaws
- 4 Cleco Clamps – 1" Jaws
- Hand or Pneumatic Squeezer and 3" Yoke
- 1/8" Universal Cupped Set
- Flat Set 1/2" x 1/8" \*\*
- Flat Set 3/8" x 1/8"
- 3/32" Rivet Dimple Die \*\*
- 3/32" Rivet Small Dia. Female Die
- 3/32" Rivet Close Quarters Dies (pop rivet operated)
- 1/8" Rivet Dimple Die
- #6 Countersink – #6 Screw
- #8 Screw Dimple Die
- #10 Screw Dimple Die
- Unibit 1/4" – 3/4" by 1/16ths
- Fluting Pliers

- 10" Curved tool File
- 22" Reach Skin Dimpling Tool (C-frame)
- Back Rivet Plate
- Hand Seamer Pliers

## Specialty Tool Additions for RV-10, RV-14

- 3/32" Squeezer Cup Set
- 3/32" Cup Rivet Set 3.5"
- Special Bar for RV-10 & RV-14
- Jobber Drill 5/16"
- Jobber Drill #17
- Jobber Drill #34
- 6" Drill #27
- 6" Drill #33
- Countersink Cutter – #12 Pilot
- RV-14 Safety Pin Squeezing Tool for Elevator (14 only)
- RV-14 Modified #40 Countersink for Elevator (14 only)
- RV-14 Economy Modified 3/32" Male Die for Elevator (14 only)

## Specialty Tools Needed Late in the Project (borrow if possible)

- Tube Bender
- Tube Flaring Tool
- Wire Crimping Tools
- Ft.-Lb Torque Wrench
- Angle Die Grinder and Cutoff Discs (for plexi and fiberglass)

## Optional Speciality Tools

- Angle Drill Attachment & Threaded Drill Set 6 pc.

- Dimple Die Organizer
- Rivet Measuring Gauge
- 3/32" Pin Punch
- 1/8" Pin Punch
- Edge Former Tool
- In-Lb Torque Wrench

## Standard Shop Tools (available at local hardware stores)

- Drill (Air or Cordless) \*\*
- Metal Snips: Left & Right \*\*
- Pop Rivet Tool \*\*
- 24" Stainless Rule
- Slow, Lightweight, Cordless Screwdriver (for deburring)
- Sharpie Ultra Fine Point Permanent Markers \*\*
- Removable Scotch Magic Tape & Tape Dispenser
- Hearing Protector
- Safety Glasses
- File Card / Brush
- Standard files
- Standard Sockets, Wrenches, Screwdrivers
- Steel and Composite Hammers
- Air Tool Oil
- Air compressor (3-5cfm @ 90 psi) & Hose

## Optional Shop Tools (available at local hardware stores)

- Drill Press
- Band Saw
- Belt or Disc Sander

- Vise

## Specialty Tool Additions for RV-3, RV-4, RV-6

- Fan Spacing Tool
- Double the number of drill bits
- Nut Plate Drill Jigs #8
- Omit #6 Countersinks and Dies above
- Air Drill is a must
- Angle Drill Attachment and Bits