AN INTRODUCTION TO ALUMINUM WORK
5 DVD Set Includes:
- Shaping Aluminum Wheel Pants
- Shrinking Magic
- Basic Damage Repair on the Aluminum Body
- Sheet Metal Repairs to the P-38 Lightning
- Metal Aircraft Construction Methods
These 5 DVDs cover hand tools, measuring, cutting, forming, form blocks, riveting, patterns, bucks, shrinking, stretching, and some gas welding on the aluminum, too.
P/N 13-13055 ............. $129.75

METAL AIRCRAFT CONSTRUCTION METHODS
This fascinating look inside the airplane factories shows just how we produced over 330,000 aircraft in 4 1/2 years. Patterns, blanking, forming, and assembly are shown, of course, but so also are pressformers, drop hammers, metal spinning, and power hammers. And then watch the complicated assembly process of the P-39 Airacobra!
P/N 13-13049 ............. $64.95

AIRCRAFT STRUCTURAL TUBING
3 DVD Set Includes: 4130 Chromoly Airframe Construction (2 DVD set) - Repairing Structural Tubing. The 4130 DVD: Three EAA Technical Counselors (over 60 years' total experience) show you the procedures necessary to construct a complete airframe from plans.
P/N 13-13051 ............. $76.90

REPAIRING STRUCTURAL TUBING
This class teaches measuring, geometry, straightening, cutting fishmouths, fitting, splicing, and welding to repair some fuselage damage. A fine companion to our full-length 2-DVD series, 4130 Chromoly Airframe Construction.
P/N 13-13044 ............. $39.95

AUTOBODY STEEL PATCH PANELS
No machinery here—just common hand tools and a welder (torch or electric). The first part shows how to fit the ‘one size fits all patch panel into an early Ford door. The second part shows how to form complex patches on your own to repair a ‘34 Ford grille by hammering and butt welding.
P/N 13-14852 ............. $24.99

SHEET METAL REPAIRS TO THE P-38 LIGHTNING
Learn to make a perfectly fit and contoured “coin” or flush patch on a compound surface using only basic, non-powered hand tools – the same standard aviation tools and methods that are still used today, but you get to learn them on a classic airplane!!
P/N 13-13045 ............. $19.95

FLUID FORMING COMPOUND SHAPES IN ALUMINUM PARTS
Use water pressure and a cavity to form sheetmetal parts, with either city water pressure or an inexpensive high-pressure pump. See detailed coverage of the pressures required for various sized parts, the inexpensive pumps available, and some engineering designs for the cavities. We make aluminum shapes that are smooth and free of marks, although other types of sheetmetal can certainly be “inflated” into some interesting shapes.
P/N 13-13046 ............. $29.95

ALUMINUM WELDING METHODS (ALCOA)
This film covers basic production oxy-fuel welding with both hydrogen and acetylene, with torch settings, joint setup, mixing the flux, and basic technique. Methods for both thin and thick sections are shown. Shows proper preheat and postweld methods for heavy sections, and proper edge beveling and gapping also. An excellent resource. Being as old as it is, it also details stick welding, carbon arc, atomic hydrogen, and spot welding methods and machines. You can learn a lot about these methods, which are probably not shown much anywhere else. Spot welding is used mainly for aviation construction and the details in this film are quite specific, going over all three machine types. Black and white with loads of “colorful” information.
P/N 13-13047 ............. $23.95

GAS WELDING ALUMINUM 2.1, “THE DIFFICULT”
(This 2-DVD set is designed to be a companion to our first film, Gas Welding Aluminum.) Setting up the oxy-acetylene welding rig, with leatstest, safety, and proper adjustment of the torch is a standard-but-essential step-by-step procedure. Alloy selection, cleaning and preparation of the material and filler, and mixing and application of the aluminum welding flux are also requisite, so I chose to include them. Crack prevention, which is necessary with the higher-strength aluminum alloys, is shown in depth, and will help to solve a lot of your problems. The intricacies of Butt joints, Tee joints, and Lap joints are thoroughly described and demonstrated. Brazing and soldering are covered in two specific segments, with proper cleaning, flux and filler selection and strength and corrosion issues.
P/N 13-13048 ............. $64.95

CAST IRON WELDING WITH THE TORCH & ARC
Using traditional materials and proven simple methods, this dvd shows you a nearly perfect system to repair exhaust manifolds, pump housings, valve bodies, and some blocks.
P/N 13-13057 ............. $34.95

FENDER ARCHES
This is a fly-on-the-wall style effort for those who want to watch a complete metal working process. Be the fly-on-the-wall as two metal guys, Richard Uffele and Kent White, “The Tin Man”, go after a pair of 1935 Packard front fenders needing fender (or wheel) arch replacement.
P/N 13-14851 ............. $42.85

EYES OF FLIGHT
If you want to learn how to handle, cut, drill, form and care for Plexiglas, then this is the film! Many experienced craftsmen have told me how much they enjoyed this film. Special drills, saw speeds, solvents and polishing techniques are shown, along with the causes of “crazing”. Includes footage from Bell showing how canopies are blown. Warbird footage! Great info!
P/N 13-13048 ............. $64.95

POLISHING ALUMINUM AIRCRAFT
Also known as the Swift Polishing Video. This “how-to” film was done by the skilled folks at the Swift Airplane Museum. Polishing any aluminum can be frustrating, and a lot of work. I have seen the results of these methods, and must say this is the way to get the finest results (Blankenberg’s Spartan Exec. was done this way). The work is still there, but the trial and error is gone! The tools, the materials, and the methods are clearly defined.
P/N 13-13052 ............. $33.50

COMPLETE PIPER J3 TRAINING SERIES
Four separate films have been combined into one very educational 110-minute DVD. See how the Piper factory originally built the J-3 in 1937, and then watch how they do a preflight inspection, and annual inspections on airframe and engine! Can you imagine watching the actual construction of a J-3 in the Piper factory in Lock Haven, Pennsylvania? See the step-by-step construction of fuselage, wing, and gear. See fabric covering, control installation, rib forming, and engine installation and runup. Inspiring!!! Remember that many of the tube-and-fabric aircraft can benefit from this valuable information.
P/N 13-13053 ............. $54.95

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