VOR Navigation System	11-40	Required Inspections	2-59
Weather Radar	11-61	Requirements for Overheat and Fire Protect	ction Systems
Radio Transmitters and Receivers	11-35	17-1	
Receivers	11-36	Resin Injection Repairs	7-39
Transceivers	11-36	Respiratory Protection	7-53
Transmitters	11-35	retarder	3-7
Radio Waves	11-30	Reusable Sheet Metal Fasteners	4-28
Radius Dimpling	4-42	Rib and Web Repair	4-104
Radome Repairs		Rib Bracing	3-4
Rain Control Systems		Rib Lacing	
Ram Air Turbine (RAT)		Rib Lacing Cord	
Reamers		Rigging	2-15
Rebalancing Methods		Rigging Checks	
Rebalancing Procedures		Rigging Fixtures	
Reciprocating Engine		Rigging Specifications	
Reciprocating Engine Fuel—AVGAS		Right Angle and 45° Drill Motors	
Reciprocating Saw		Rigid Removable Fuel Tanks	
Rectifiers		Rigid Rotor	
Red Baron's Fokker DR-1		Rigid Rotor System	
Red Iron Oxide		Rivet Cutter	
Reducing Radio Interference		Rivet Head Shape	
Regulators		Riveting Procedure	
Reinforcing Tape		Rivet Layout Example	
		Rivet Length	
Rejuvenator		Rivet Nut	
Relative humidity		Rivet Pitch	
•		Rivet Selection	
Release Agents		Rivet Sets/Headers	
Relief Hole Location		Rivet Spacers	
Remote Indicating Compass		Rivet Spacers	
Remote Indicating Slaved Gyro Compass (Flux			
Compass) Remote Sensing and Indication		Rivet Spacing and Edge Distance	
Removal of Decals		Rivet Strength	
		Room Temperature Curing	
Removal of Mechanically Locked Blind Rivets		Rotary Machine	
Removal of Pin Rivets		Rotary Punch Press	
Removal of Rivets		Rotary-Wing	
Repairability of Sheet Metal Structure		Rotary-wing aircraft	
Repair Layout		Rotor Systems	
Repair Material Selection		Rudder	
Repair of Lightening Holes		ruddervator	1-26
Repair of Steel Tubing Aircraft Structure by We	_	S	
Repair of Stressed Skin Structure			
Repair of Wood Aircraft Components		Safety in the Paint Shop	
Repair of Wood Aircraft Structures		Sags and Runs	
Repair Parts Layout		Sandbag Bumping	
Repair Safety		Sandbags	
Repairs to a Pressurized Area		Sandwich Structures	
Replacement of a Panel		Saturation Techniques	
Replacement of Brake Linings		Sawing	7-55
Goodyear Brakes		Scales	
Replacing Rivets	4-45	Scarf Patch	6-23

Score	4-90	Gear	13-6
Scratch	4-90	Bungee Cord	13-7
Screws and Nutplates in Composite Structures	7-49	Leaf-Type Spring Gear	13-6
Scroll Shears	4-10	Rigid	13-7
Seals	12-34	Shock Struts	13-7
Backup Rings	12-36	Shock Strut Operation	13-10
Gaskets	12-36	Shop Tools	4-9
O-Ring Installation	12-37	Shotbags and Weights	7-31
O-Rings	12-35	Shrinking	4-57,4-75
O-Ring Color Coding	12-36	Shrinking and Stretching Tools	4-26
Seal Materials	12-36	Shrinking Blocks	4-27
U-Ring	12-35	Shrinking Tools	4-26
V-Ring Packings	12-35	Shrink Tape	7-31
Wipers	12-37	Sight line	4-59
Seams	3-14	Silicon Controlled Rectifiers	11-11
Seam Welding	5-4	Silver Soldering	5-20
Selvage edge	3-2	Single Disc Brakes	13-42
Semiconductor Diodes		Fixed-Disc Brakes	
Semiconductors	11-6	Floating Disc Brakes	
Semicrystalline Thermoplastics		Single Rotor Helicopter	
Semimonocoque		Single Side Vacuum Bagging	
Semirigid Rotor		Single spread	
Semirigid Rotor System		Siphon Feed Gun	
Sequence for Painting a Single-Engine or Light		Size Requirements for Different Aircraft	
Airplane		Skids	
Series Wound DC Generators		Skin Protection	
Servicing Gaseous Oxygen		Skis	
Draining an Oxygen System		Slats	
Filling an Oxygen System		Sleeve Bolts	
Leak Testing Gaseous Oxygen Systems		Slip Roll Former	
Purging an Oxygen System		small airplanes	
Servicing Shock Struts		Pump Feed Systems	14-10
servo tab		Small Multiengine (Reciprocating) Aircraft I	
Servo tabs		14-11	act Systems
Setback (SB)		High-Wing Twin	14-12
Sewing Thread		Low-Wing Twin	
Seyboth		Small Single-Engine Aircraft Fuel Systems	
Shear		Gravity Feed Systems	
Shear Strength and Bearing Strength		High-Wing Aircraft With Fuel Injection Sy	
sheet metal forming and flat pattern layout term		Smoke Detectors	
4-58		Ionization Type	
Sheet Metal Hammers and Mallets	4-28	Light Refraction Type	
Sheet Metal Holding Devices		Smoke, Flame, and Carbon Monoxide Detect	
Sheet Metal Repair		17-8	ion by stems.
Shielded Metal Arc Welding		Snake Attachment	4-16
Shielding		Soft or Harsh Flames	
Shimmy Dampers		Soldering	
Non-Hydraulic Shimmy Damper	13-33	Solenoids	
Piston-Type		Solid Laminates	
Vane-Type		Solid Release Film	
Shock Absorbing and Non-Shock Absorbing La		Solid Shank Rivet	
and I to brook I to bottom Et			

Solid State Magnetometers10-4	5 Stringers1-8
Solid-State Regulators9-3	9 Stripping the Finish8-20
Solutions to Heat Sink Problems7-2	5 Structural Alignment2-47
Sources of Operating Air15-1	2 Structural Fasteners4-30
Turbine Engine Bleed Air15-1	2 Structural Repair Manual (SRM)2-39
Sources of Power for Gyroscopic Instruments10-4	5 Structural Stresses1-5
Sources of Pressurized Air16-2	4 Structural Support During Repair4-91
Turbine Engine Aircraft16-2	5 Subsonic Flow2-3
Spar Repair4-10	3 Suitable Wood6-7
Special Fabric Fasteners3-	5 Support
Specialized Repairs4-10	
Speed Brakes1-2	
Spin Forming4-2	· · · · · · · · · · · · · · · · · · ·
Splayed Patch6-2	
split flap1-2	
spoiler1-2	
Spot Welding5-	*
Spray Dust8-1	
Spray Equipment8-	· · · · · · · · · · · · · · · · · · ·
Spray Gun Operation8-1	
Spray Guns8-	•
Spraying8-	
Spring-Back2-4	
Spring tabs2-1	
Squaring Shear4-	
stabilator1-2	•
Stability2-	
Stability Augmentation Systems (SAS)2-3	
stabilizers	
Stabilizer Systems 2-2	
Stain	
Stainless Steel5-1	
stall fence	· · · · · · · · · · · · · · · · · · ·
Stall Warning and Angle of Attack (AOA)Indicators 10-3	· · · · · · · · · · · · · · · · · · ·
Static Discharge Wicks	, , , , , , , , , , , , , , , , , , ,
Static Stability2-	
Steel 5-1	•
Step Drill Bits4-1	•
Storage and Handling	•
Storage of Finishing Materials8-2	
Straight Extension4-1	
Straight Line Bends4-7	
Strength Characteristics	
stress analysis1-	
Stresses Applied to Rivets4-3	
Stresses in Structural Members4-	T
Stretch Forming 4-24,7-5	T
Stretching 4-57,4-7	1405
Stretching Tools4-2	1 4011011101011011011111111111111111111
Stretching With V-Block Method4-7	Electric 1 denometers
Stringer Repair4-10	Mechanical Tachometers10-28

tail cone	1-21	Tire Construction	13-76
Tail Rotor Tracking	2-32	Carcass Plies	13-76
Tail Wheel Gear	1-35	Sidewall	13-78
Tapered Shank Bolt	4-55	Chine	13-78
Technical Standard Order	3-3	Tread	13-76
Technician Certification	16-57	Tire Inspection on the Aircraft	13-78
Tee Joints	5-30	Inflation	13-78
Temperature and Altitude	16-22	Tread Condition	13-79
Temperature Measuring Instruments		Tread Damage	13-81
Temperature Variations in Repair Zone		Tread Depth and Wear Pattern	
Tension		Tire Mounting	
Tension Regulators		Tubeless Tires	
Terms Used in the Glue Process		Tube-Type Tires	
Testing Glued Joints		Tire Removal	
Tetrodes		Tire Repair and Retreading	
The Eddie-Bolt® 2 Pin Fastening System		Tire Storage	
Theory of Refrigeration		Titanium	
Basic Vapor Cycle	16-44	Toluene	
Thermal Electric Anti-Icing		Topcoats	
Thermal Pneumatic Anti-icing		Torch Brazing of Aluminum	
Thermal Survey		Torch Brazing of Steel	
Thermal Survey of Repair Area		Torch Tips	
Thermal Switch System		Torque Compensation	
Thermocouple Placement		Torque Tubes	
Thermocouples		Torsion	
Thermocouple System		Total Air Temperature Measurement	
Thermocouple System Thermocouple Temperature Indicators		Total developed width (TDW)	
Turbine Gas Temperature Indicating Systems		Trailing Edge and Transition Area Patch Repairs.	
Thermography		Trailing Edge Repair	
Thermography		Transfer Punch	
Thermoplastics		Transistors	
1		Translating Tendency	
Thermosetting Plastics		Transmission	
Thermosetting Resins			
thinners		Transmission Lines	
Thinners		Transmission System	
Thixotropic Agents		Transparent Plastics	
Throatless Shear		Transverse Pitch	
Throttle		Triacs	
Through Transmission Ultrasonic Inspection		Tricycle gear	
Thrust		Trim Controls	
TIG Welding		Triodes	
TIG Welding 4130 Steel Tubing		Troubleshooting the Fuel System	
TIG Welding Aluminum		Fuel Leak Classification	
TIG Welding Magnesium		Location of Leaks and Defects	
TIG Welding Stainless Steel		Replacement of Gaskets, Seals, and Packings	
TIG Welding Titanium		truss	
Tire Classification		Tube Splicing with Inside Sleeve Reinforcement	
Bias Ply or Radial		Tube Splicing with Outer Split Sleeve Reinforcen	
Ply Rating		Turbine Engine Fuels	
Tube-Type or Tubeless		Turbine Engine Fuel Issues	
Types	13-74	Turbine Engine Fuel Types	14-8

Turbine Fuel Volatility	14-/	Pressure Regulators	12-28
Turbine Engines	1-40	Relief Valves	12-27
Turnbuckles	2-44	Shuttle Valves	12-29
Turpentine	8-2	Shutoff Valves	12-29
Two Hole	4-15	Vapor Cycle Air Conditioning Servicing Equipr	nent 16-50
Tying Wire Bundles	9-86	Full Service Refrigerant Recovery, Recycling	,
Type Certificate Data Sheet	2-38	Evacuation, and Recharging Units	16-52
Types of Damage and Defects	4-89	Leak Detectors	16-53
Types of Drill Bits	4-16	Manifold Set, Gauges, Hoses, and Fittings	16-51
Types of Fiber	7-5	Refrigerant Source	16-52
Types of Welding	5-1	Vacuum Pumps	16-52
Typical Repairs for Aircraft Structures	4-97	Vapor Cycle Air Conditioning System Component	ents
		Compressor	16-48
U		Condenser	16-48
Ultrasonic Bondtester Inspection	7-17	Evaporator	16-47
Ultrasonic Inspection		Expansion Valve	16-46
Unidirectional (Tape)		Receiver Dryer	16-45
Unijunction Transistors (UJT)		Refrigerant	16-44
Upsetting		Service Valves	16-49
Urethane		Vapor Lock	14-3
Urethane Coating		Varnish	8-2
Use of Bend Allowance Chart for a 90° Bend		V-Blocks	4-27
Use of Chart for Other Than a 90° Bend		Velocity	2-3
Using a Formula to Calculate the Setback		Vertical Flight	2-22
Using a J-Chart To Calculate Total Developed V		Vertical Magnetic Compass	10-43
Using a Setback Chart to Find the Setback		Vertical Position Welding	
Using a Sheet Metal Brake to Fold Metal		vertical stabilizer stations	1-38
Osing a Sheet Wetai Brake to Fold Metai	1 -00	very light jet	1-4
V		Vibration Isolation	11-72
W. D.	7.01	Vinyl Ester Resin	7-6
Vacuum Bag		Vinyl Film Decals	8-18
Vacuum Bagging Techniques		Viscosity	
Vacuum Bag Materials		Viscosity Measuring Cup	
Vacuum Compaction Table		Visual Inspection	
Vacuum Equipment		Volatility	
Vacuum Forming With a Female Form		Vortex generators	
Vacuum Forming Without Forms		-	
Vacuum Systems		W	
Twin-engine Aircraft Vacuum System Operati		Warnings and Cautions	10-73
Typical Pump-Driven System		Annunciator Systems	
Venturi Tube Systems		Aural Warning Systems	
Vacuum Tubes		Warp Clock	
Valves		Wash Primers	
Flow Control Valves		Water	
Check Valve		Water line	
Hydraulic Fuses		web members	
Orifice-Type Check Valve		weight	
Pressure-Controlled Sequence Valve		Weight	
Selector Valves		Welded Joints Using Oxy-Acetylene Torch	
Sequence Valves		Welding	
Pressure Control Valves		Welding Eyewear	
Pressure Reducers	12-29	TOTALIS Lycwood	5-0

Welding Gases	5-6	Protection of Wires in Wheel Well Areas	9-80
Welding Hose	5-7	Twisting Wires	9-78
Wet Layups	7-25	Wire and Cable Clamp Inspection	9-82
Wet or Dry Grinder	4-11	Wire Identification	9-76
Wheel Construction		Placement of Identification Markings	9-76
Outboard Wheel Half	13-35	Types of Wire Markings	9-76
Wheel Inspection	13-36	Wire Inspection	9-95
Off Aircraft Wheel Inspection	13-37	Wire Shielding	9-84
Balance Weights	13-41	Bonding	9-85
Cleaning the Wheel Assembly	13-38	Bonding Jumper Installation	9-86
Cleaning the Wheel Bearings	13-38	Bonding connections	9-86
Disassembly of the Wheel	13-37	Bonding jumper attachment	
Fusible Plug Inspection		Corrosion prevention	
Inspection of the Wheel Halves		Corrosion protection	
Key and Key Screw Inspection		Ground return connection	
Wheel Bearing Inspection		Grounding	
Bruising		Testing of Bonds and Grounds	
Flase Brinelling		Wire Size Selection	
Galling		Current Carrying Capacity	
Overheating		Allowable Voltage Drop	
Staining and surface marks		Computing Current Carrying Capacity	
Wheel Tie Bolt Inspection		Electric Wire Chart Instructions	
On Aircraft Inspection		Maximum Operating Temperature	
Proper Installation		Wire Termination	
Axle Nut Torque		AN/MS Connectors	9-92
Wide Area Augmentation System (WAAS)		Emergency Splicing Repairs	
Windshield Frost, Fog, and Ice Control Syste		Junction Boxes	
Chemical		Stripping Wire	
Electric		Terminal Lugs	
Pneumatic		Aluminum Wire Terminals	
Windshield Installation		Copper Wire Terminals	
Windshield Wiper Systems		Crimping Tools	
Wing and Horizontal and Vertical Stabilizer A		Pre-Insulated Splices	
Systems	•	Terminal Strips	
Wing and Stabilizer Deicing Systems		Wire Types	
Wing Anti-ice (WAI) System		Areas Designated as Severe Wind and Moistu	
winglet		(SWAMP)	
Winglets		Conductor	
wing rib		Insulation	
Wing Rib Repairs		Plating	
Wing Ribs		Wire Shielding	
Wings		Wiring Diagrams	
Wing Skin		Block Diagrams	
Wing Spars		Pictorial Diagrams	
Wire Groups and Bundles and Routing		Schematic Diagrams	
Bend Radii		Wiring Installation	
Clamp Installation		Wood Aircraft Construction and Repairs	
Movable Controls Wiring Precautions		Wood Condition	
Protection Against Chafing		Working Inconel® Alloys 625 and 718	
Protection Against High Temperature		Working Stainless Steel	
Protection Against Solvents and Fluids		Working Stamicss Seed	

Woven splice	2-39
Wright Brothers	
Wrinkling	8-14
Z	
Zener Diodes	11-10
Zinc Chromate	8-3