

DMC2159 Piper Aircraft Kit



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PIPER AIRCRAFT

The Piper company offers a range of General Aviation aircraft designed for pilot training, personal use, and high-end business applications. These single and twin-engine turboprop aircraft are designed for many diverse demands that require unique electrical wiring systems containing many different connectors, contacts and terminals. Proper maintenance and repair of these electrical systems require precision tools. To protect your investment, DMC offers a comprehensive maintenance kit to service the wiring systems of these aircraft.

DMC2159 MAINTENANCE KIT

The DMC2159 Piper Aircraft Wiring System Service Kit provides a turn-key solution and the tools necessary to strip, crimp, install and remove the typical contacts and terminals of this wiring system. The DMC2159 kit includes the tool to application cross reference information that indicates the particular tool(s) that should be selected to repair a specific connector, contact, or terminal. In addition, the kit also contains illustrated operating instructions for the designated tooling.

COMPREHENSIVE SOLUTION FOR MAINTENANCE AND REPAIR

DMC believes in providing a comprehensive, turn-key solution for electrical wire maintenance and repair. Since these tools, together with their operating instructions, are contained in a single kit, the connector repair can be made in the shortest time possible, thus permitting a rapid return of your aircraft to service. Tool kit supplied in one environmentally sealed case and includes: Name Plate, Foam Pads/Inserts, Contents Charts, Instruction Sheets, and Tool Selection Charts.

DMC2159 TOOL SELECTION CHART															
CONNECTOR SERIES AND TYPE	CONNECTOR PART NUMBER	CONTACT PART NUMBER	COLOR BAND	PINS	CONTACT SIZE	CONTACT OR DR. SEC. OR DR. DIA.	CRIMP TOOL PART NUMBER	TURRET HEAD POSITIONER PART NUMBER	INSTALLING TOOL PART NUMBER	REMOVAL TOOL PART NUMBER	REMOVAL TOOL FOR WIREBOND CONTACTS	REMOVAL TOOL FOR WIREBOND CONTACTS			
												STRIPPER	CRIMP	INSTALLING	REMOVAL
M22520-1-01 SERIES 1 CIRCULAR FRONT RELEASE CONTACTS	M22520-1-01	M22520-1-01	RED	16	16	16-20-24	0200	JFS M22520/1-01	761A M22520/1-01	D4620B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01
		M22520-2-01	RED	20	20	20-24	0200	JFS M22520/1-01	761A M22520/1-01	D4620B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01
		M22520-2-28	RED	28	28	28-32	0200	JFS M22520/1-01	761A M22520/1-01	D4620B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01
		M22520-2-47	RED	47	47	47-51	0200	JFS M22520/1-01	761A M22520/1-01	D4620B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01
M22520-2-01 SERIES 2 CIRCULAR REAR RELEASE CONTACTS	M22520/2-01	M22520/2-01	RED	16	16	16-20-24	0200	JFS M22520/1-01	761A M22520/1-01	D4620B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01
		M22520/2-28	RED	28	28	28-32	0200	JFS M22520/1-01	761A M22520/1-01	D4620B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01
		M22520/2-47	RED	47	47	47-51	0200	JFS M22520/1-01	761A M22520/1-01	D4620B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01
		M22520/2-53	RED	53	53	53-57	0200	JFS M22520/1-01	761A M22520/1-01	D4620B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01
M22520-3-01 SERIES 1 CIRCULAR REAR RELEASE CONTACTS	M22520/3-01	M22520/3-01	RED	16	16	16-20-24	0200	JFS M22520/1-01	761A M22520/1-01	D4620B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01
		M22520/3-28	RED	28	28	28-32	0200	JFS M22520/1-01	761A M22520/1-01	D4620B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01
		M22520/3-47	RED	47	47	47-51	0200	JFS M22520/1-01	761A M22520/1-01	D4620B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01
		M22520/3-53	RED	53	53	53-57	0200	JFS M22520/1-01	761A M22520/1-01	D4620B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01
M22520-3-01 SERIES 2 CIRCULAR REAR RELEASE CONTACTS	M22520/3-01	M22520/3-01	RED	16	16	16-20-24	0200	JFS M22520/1-01	761A M22520/1-01	D4620B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01
		M22520/3-28	RED	28	28	28-32	0200	JFS M22520/1-01	761A M22520/1-01	D4620B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01
		M22520/3-47	RED	47	47	47-51	0200	JFS M22520/1-01	761A M22520/1-01	D4620B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01
		M22520/3-53	RED	53	53	53-57	0200	JFS M22520/1-01	761A M22520/1-01	D4620B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01	DRK20B M22520/1-01



Tool Selection Charts

M22520/1-01 CRIMP TOOL (DANIELS AF8)

INSTRUCTIONS FOR CHANGING TURRET HEAD ASSEMBLIES

1. PRESS TURRET WHICH RELEASES TURRET TO INDEX POSITION AND REMOVE TURRET HEAD ASSEMBLY.
2. REMOVE TURRET WHICH RELEASES TURRET TO INDEX POSITION AND REMOVE TURRET HEAD ASSEMBLY.
3. REMOVE TURRET WHICH RELEASES TURRET TO INDEX POSITION AND REMOVE TURRET HEAD ASSEMBLY.
4. REMOVE TURRET WHICH RELEASES TURRET TO INDEX POSITION AND REMOVE TURRET HEAD ASSEMBLY.
5. REMOVE TURRET WHICH RELEASES TURRET TO INDEX POSITION AND REMOVE TURRET HEAD ASSEMBLY.
6. REMOVE TURRET WHICH RELEASES TURRET TO INDEX POSITION AND REMOVE TURRET HEAD ASSEMBLY.

INSTRUCTIONS FOR INDEXING TURRET HEAD ASSEMBLIES

1. PRESS TURRET WHICH RELEASES TURRET TO INDEX POSITION AND REMOVE TURRET HEAD ASSEMBLY.
2. REMOVE TURRET WHICH RELEASES TURRET TO INDEX POSITION AND REMOVE TURRET HEAD ASSEMBLY.
3. REMOVE TURRET WHICH RELEASES TURRET TO INDEX POSITION AND REMOVE TURRET HEAD ASSEMBLY.
4. REMOVE TURRET WHICH RELEASES TURRET TO INDEX POSITION AND REMOVE TURRET HEAD ASSEMBLY.
5. REMOVE TURRET WHICH RELEASES TURRET TO INDEX POSITION AND REMOVE TURRET HEAD ASSEMBLY.
6. REMOVE TURRET WHICH RELEASES TURRET TO INDEX POSITION AND REMOVE TURRET HEAD ASSEMBLY.

INSTRUCTIONS FOR USING INDEXER CLOSURE SELECTOR

1. REMOVE TURRET WHICH RELEASES TURRET TO INDEX POSITION AND REMOVE TURRET HEAD ASSEMBLY.
2. REMOVE TURRET WHICH RELEASES TURRET TO INDEX POSITION AND REMOVE TURRET HEAD ASSEMBLY.
3. REMOVE TURRET WHICH RELEASES TURRET TO INDEX POSITION AND REMOVE TURRET HEAD ASSEMBLY.
4. REMOVE TURRET WHICH RELEASES TURRET TO INDEX POSITION AND REMOVE TURRET HEAD ASSEMBLY.
5. REMOVE TURRET WHICH RELEASES TURRET TO INDEX POSITION AND REMOVE TURRET HEAD ASSEMBLY.
6. REMOVE TURRET WHICH RELEASES TURRET TO INDEX POSITION AND REMOVE TURRET HEAD ASSEMBLY.

M22520/2-01 CRIMP TOOL (DANIELS AF8)

INSTRUCTIONS FOR CHANGING POSITIONERS

1. SELECT CORRECT POSITIONER FOR CONTACT BEND CRIMPING.
2. REMOVE POSITIONER AND POSITIONER LOCK PLATE FROM TOOL.
3. REMOVE POSITIONER AND POSITIONER LOCK PLATE FROM TOOL.
4. REMOVE POSITIONER AND POSITIONER LOCK PLATE FROM TOOL.
5. REMOVE POSITIONER AND POSITIONER LOCK PLATE FROM TOOL.
6. REMOVE POSITIONER AND POSITIONER LOCK PLATE FROM TOOL.

CRIMPING INSTRUCTIONS

1. INSERT CONTACT THROUGH INDEXER OPENING AND INTO POSITIONER.
2. INSERT WIRE INTO CONTACT AND HOLD SECURELY TO POSITIONER.
3. REMOVE POSITIONER AND POSITIONER LOCK PLATE FROM TOOL.
4. REMOVE POSITIONER AND POSITIONER LOCK PLATE FROM TOOL.
5. REMOVE POSITIONER AND POSITIONER LOCK PLATE FROM TOOL.
6. REMOVE POSITIONER AND POSITIONER LOCK PLATE FROM TOOL.

Instruction Sheets

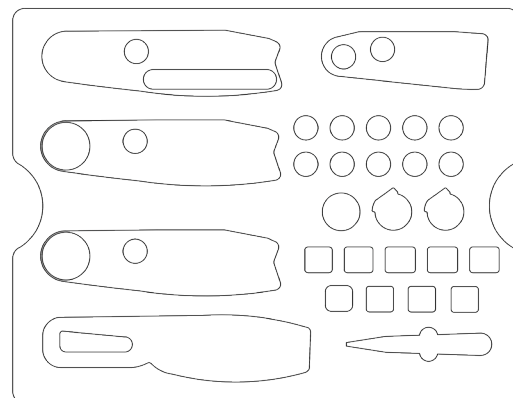
Actual Kit may vary from example shown.

DMC2159 Piper Aircraft Kit

Coverage: Airframe Power Connectors, Terminals size 12 AWG and Smaller, Coaxial Connectors

Type of Inserts: Unicellular Polyethylene Foam with Silhouetted Tool Cavities

Type of Construction: 1 Black Portable Polypropylene Copolymer Case



DMC CONNECTOR COVERAGE

MANUFACTURER	SERIES
MIL-DTL-26482	I
MIL-DTL-38999	I
M81824	Environmental Splices
M7928	Insulated/Uninsulated Terminals
Amphenol Aerospace	LMD
Deutsch	CTJ and HD
Emteq	BFS
Garmin	Unknown
ITT Cannon	D*MA
Molex	1560
Positronic	CBD, ORD, and RD
TE Connectivity	Mak-N-Lok, Multimate Type III

KIT CONTENTS

8	Crimp Tools
2	Turret Heads
1	Single Position Head
7	Positioners
1	Locator
5	Die Sets
6	Metal Insertion Tools
8	Metal Removal Tools
28	Plastic Insertion/Removal Tools
1	Die Removal Tool
1	Hex Wrench
1	Inspection Gage
3	Contact Gages
1	Wire Harness Spoon
2	Wire Strippers
1	Wire Cutter

Refurbishment Services

To ensure the longevity of your investment, DMC offers kit refurbishment and calibration services. Contact DMC for details.

NOTICE: Unless otherwise stated by DMC, tools contained in this kit have been selected based upon their suitability to service the related connector or contact indicated at the time of design. Military Standard tools have been utilized wherever possible. These tools are not necessarily the production tools used to manufacture the aircraft and therefore, these tools may or may not correspond to the tools listed in the OEM wiring manual and/or the Chapter 20 Standard Wiring Practices Manual list of approved tooling. Verification Is Required.