

DMC1293 LEARJET 40/45 KIT



LEARJET 40/45

The Learjet 40/45 aircraft is a mid-size business jet aircraft produced by the Learjet Division of Bombardier Aerospace. The Learjet 40/45 is designed for many diverse demands that require complex 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 the Learjet 40/45.

DMC1293 MAINTENANCE KIT

The **DMC1293** Learjet 40/45 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 **DMC1293** 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 two environmentally sealed cases and includes: Name Plate, Foam Pads/Inserts, Contents Charts, Instruction Sheets, and Tool Selection Charts.

TOOL SELECTION CHART											
CONNECTOR SERIES AND TYPE	CONNECTOR PART NUMBER	CONTACT PART NUMBER	COLOR BAND	PINS	CONTACT SIZE	CONTACT TYPE	CRIMP TOOL PART NUMBER	TURRET HEAD POSITIONER PART NUMBER	INSTALLING TOOL PART NUMBER		REMOVAL TOOL PART NUMBER
									AF8	AF8	
M22520-1-01 CIRCULAR FRONT RELEASE CONTACTS	M22520/1-100	M22520/1-100	RED	20	20-24	0202	AF8 (M22520/1-01)	781A (M22520/1-01)	DAK20B (M22520/1-01)	DRK20B (M22520/1-01)	DRK20B (M22520/1-01)
	M22520/1-228	M22520/1-228	RED	20	20-24	0202	AF8 (M22520/1-01)	781A (M22520/1-01)	DAK20B (M22520/1-01)	DRK20B (M22520/1-01)	DRK20B (M22520/1-01)
	M22520/1-247	M22520/1-247	RED	18	18-20	0201	AF8 (M22520/1-01)	781A (M22520/1-01)	DAK18B (M22520/1-01)	DRK18B (M22520/1-01)	DRK18B (M22520/1-01)
	M22520/1-234	M22520/1-234	RED	12	12-14	0212	AF8 (M22520/1-01)	781A (M22520/1-01)	DAK12B (M22520/1-01)	DRK12B (M22520/1-01)	DRK12B (M22520/1-01)
	M22520/1-253	M22520/1-253	RED	12	12-14	0212	AF8 (M22520/1-01)	781A (M22520/1-01)	DAK12B (M22520/1-01)	DRK12B (M22520/1-01)	DRK12B (M22520/1-01)
M22520-2-01 CIRCULAR REAR RELEASE CONTACTS	M22520/2-115	M22520/2-115	BROWN	20	20-24	0202	AF8 (M22520/1-01)	781A (M22520/1-01)	DAK20B (M22520/1-01)	DRK20B (M22520/1-01)	DRK20B (M22520/1-01)
	M22520/2-110	M22520/2-110	BROWN	18	18-20	0201	AF8 (M22520/1-01)	781A (M22520/1-01)	DAK18B (M22520/1-01)	DRK18B (M22520/1-01)	DRK18B (M22520/1-01)
	M22520/2-111	M22520/2-111	BROWN	12	12-14	0212	AF8 (M22520/1-01)	781A (M22520/1-01)	DAK12B (M22520/1-01)	DRK12B (M22520/1-01)	DRK12B (M22520/1-01)
	M22520/2-118	M22520/2-118	BROWN	12	12-14	0212	AF8 (M22520/1-01)	781A (M22520/1-01)	DAK12B (M22520/1-01)	DRK12B (M22520/1-01)	DRK12B (M22520/1-01)
M22520-3-01 CIRCULAR REAR RELEASE CONTACTS	M22520/3-113	M22520/3-113	BROWN	12	12-14	0212	AF8 (M22520/1-01)	781A (M22520/1-01)	DAK12B (M22520/1-01)	DRK12B (M22520/1-01)	DRK12B (M22520/1-01)
	M22520/3-114	M22520/3-114	BROWN	12	12-14	0212	AF8 (M22520/1-01)	781A (M22520/1-01)	DAK12B (M22520/1-01)	DRK12B (M22520/1-01)	DRK12B (M22520/1-01)
M22520-4-01 CIRCULAR REAR RELEASE CONTACTS	M22520/4-113	M22520/4-113	BROWN	12	12-14	0212	AF8 (M22520/1-01)	781A (M22520/1-01)	DAK12B (M22520/1-01)	DRK12B (M22520/1-01)	DRK12B (M22520/1-01)
	M22520/4-114	M22520/4-114	BROWN	12	12-14	0212	AF8 (M22520/1-01)	781A (M22520/1-01)	DAK12B (M22520/1-01)	DRK12B (M22520/1-01)	DRK12B (M22520/1-01)
M22520-5-01 CIRCULAR REAR RELEASE CONTACTS	M22520/5-113	M22520/5-113	BROWN	12	12-14	0212	AF8 (M22520/1-01)	781A (M22520/1-01)	DAK12B (M22520/1-01)	DRK12B (M22520/1-01)	DRK12B (M22520/1-01)
	M22520/5-114	M22520/5-114	BROWN	12	12-14	0212	AF8 (M22520/1-01)	781A (M22520/1-01)	DAK12B (M22520/1-01)	DRK12B (M22520/1-01)	DRK12B (M22520/1-01)

Tool Selection Charts

M22520/1-01 CRIMP TOOL (DANIELS AF8)

INSTRUCTIONS FOR CHANGING TURRET HEAD ASSEMBLIES

1. PRESS TURRET HEAD RELEASE TRIGGER TO REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL.
2. REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL.
3. REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL.
4. REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL.
5. REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL.

INSTRUCTIONS FOR INDEXING TURRET HEAD ASSEMBLIES

1. PRESS TURRET HEAD RELEASE TRIGGER TO REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL.
2. REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL.
3. REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL.
4. REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL.
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4. REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL.
5. REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL.

M22520/2-01 CRIMP TOOL (DANIELS AF8)

INSTRUCTIONS FOR CHANGING POSITIONERS

1. SELECT CORRECT POSITIONER FOR CONTACT BEING CRIMPED.
2. REMOVE POSITIONER FROM POSITIONER LOCK PLATE.
3. REMOVE POSITIONER FROM POSITIONER LOCK PLATE.
4. REMOVE POSITIONER FROM POSITIONER LOCK PLATE.
5. REMOVE POSITIONER FROM POSITIONER LOCK PLATE.

CRIMPING INSTRUCTIONS

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

Instruction Sheets



Actual Kit may vary from example shown.

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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: 2 Yellow Fiberglass/Aluminum Cases



DMC CONNECTOR COVERAGE	
MANUFACTURER	SERIES
AMP	Termashield, M, CPC Series, In-Line Splices
Channel/Air LB	Terminal Junctions
Edison	Fire Detection Connectors
Deutsch	724 Series
Kings Electronics	RF Coaxial
Positronics	SD Series
Raychem	Environmental Splices
Souriau	8525 Series
MIL-DTL-26482	Series 1 & 2
MIL-DTL-38999	Series 1, 2 & 3
AS50151	3450 Series
M81714	Terminal Junctions
M7928	Insulated/Uninsulated Terminals/Splices

KIT CONTENTS	
9	Crimp Tools
5	Turret Heads
10	Positioners
1	Single Position Head
1	Universal Turret Head
1	Universal Positioner
8	Die Sets
11	Metal Insertion Tools
11	Metal Removal Tools
1	Metal Insertion/Removal Tool
63	Plastic Insertion/Removal Tools
4	Contact Gages
2	Unwired Contact Removal Tools w/ Probes
1	Wire Cutter
2	Wire Strippers
2	In-Service Inspection Gages
1	Die Removal Tool
1	Hex Wrench
1	Wire Harness Spoon
4	Coaxial Cable Stripper

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.