Maintenance Kits for Aerospace Wiring Systems

An ISO9001 and AS9100 Registered Company
THE PROBLEM

*Complex Wiring Systems.* Today’s sophisticated aircraft and weaponry electronics have become increasingly more complex, and system operation critical.

*Personnel Training.* The technicians who must maintain these systems may not have current knowledge about all the various types of terminations and associated tooling needed to repair the vast number of interconnections which make up these systems.

*Time Requirements.* Once the system becomes inoperative, the pressure to return the system to operation does not permit the luxury of researching the answers to which tool is available.

THE SOLUTION

*Research.* DMC does all the necessary research to relieve this pressure to eliminate the guesswork and haphazard (trial-and-error) utilization of tools by developing detailed Tool Selection Charts which cross reference all the connectors with complete repair tool data.

*Packaging.* DMC then packages these Tool Selection Charts, Contents Charts, and Instruction Sheets with all the crimping tools, turret heads, dies, wire strippers, installing tools, removal tools and other accessories necessary to support the system in durable cases or rugged cabinets so the tools are properly organized and protected.

*Ready Access.* The technician now has ready access to the technical data and tools for reliable, cost-effective Total Wiring System Support.

*Working Together.* DMC can work with you to select or custom design the right Wiring System Service Kit to meet your individual requirements. After you have purchased a DMC Service Kit, our trained personnel are available with the information and tools you need to keep your kit up-to-date.

*Efficient tool control and accountability starts with a DMC Wiring Service System Kit.*
The complete TECHNICAL DATA PACKAGE is a key feature of every DMC Wiring System Service Kit. The TECHNICAL DATA PACKAGE consists of three elements:

**CONTENTS CHARTS**
Increase Efficiency/Reduce FOD. These charts offer a visual representation of the storage compartments for all tools in the kit. These charts enable the technician to quickly scan the kit and assure that no tools are missing prior to making a repair. While this obviously allows the user to easily locate the required tools, it also decreases the likelihood that important components will become lost or left behind in areas where they may later cause damage to electrical circuitry, or system failure (Foreign Object Debris—F.O.D.). The CONTENTS CHARTS also list all the tools by part number, so re-ordering information is immediately available should a component require replacement. All tools are identified by common industry part numbers, and available from the normal supply chain.

**INSTRUCTION SHEETS**
DMC provides detailed step-by-step directions on how to prepare each tool for use. INSTRUCTION SHEETS are also available to meet foreign language or unique special purpose tool requirements for wire prep, termination, and assembly.

**TOOL SELECTION CHARTS**
Eliminate Trial And Error Tool Selection. These detailed charts are developed from the actual connector lists of the system being supported, and are designed to direct the technician in the selection of the proper tools and accessories. DMC does all the research to cross reference the appropriate tooling for proper disassembly, repair and assembly of the power, RF and other wire terminations in the system. The TOOL SELECTION CHARTS identify the connectors in alpha/numeric order by their military and/or commercial designations; identify the contacts by part number and color code where applicable; list applicable wire sizes; and identify the appropriate crimp tool and associated turret head/positioner/die, installing tool and removal tool for wired and unwired contacts where applicable.

The TECHNICAL DATA PACKAGE is affixed to the Kit and protected by transparent, plastic lamination to prevent environmental damage. DMC offers years of experience in supporting the connector industry. This experience has enabled DMC to develop a wealth of information which can be easily accessed in the technical data package in your Kit.

**FLEET MIX CUSTOM KITS**
“Custom” is customary at DMC with regards to Maintenance Kit Design. We often combine the capabilities of several kits into one kit to accommodate a Fleet Mix of Aircraft so one tool kit will service all the aircraft or systems in the organization. Fleet Mix Kits have great cost efficient and time saving benefits to the end user.
A Wide-Range of Tool Kit Applications

The following is a partial list of some of the popular aerospace systems currently covered by DMC Wiring System Service Kits. DMC has the capabilities to design a Wiring System Service Kit for virtually any electrical interconnection system. For further assistance with your individual requirements, please contact DMC.

**MILITARY AIRCRAFT (PARTIAL LISTING)**

Bae HAWK 100/200
BOEING McDonnell Douglas AV-8B HARRIER II
BOEING McDonnell Douglas F/A-18A, TF/A-18A
BOEING McDonnell Douglas F-15
BOEING McDonnell Douglas F-15 EAGLE A.I.S.
BOEING T-45A TRAINER
BOEING, NORTH AMERICA B1B BOMBER
C-130 SCNS PROGRAM
CANADIAN ARMED FORCES CF-18
DASSAULT MIRAGE
FAIRCHILD A-10
KC135 TANKER
LOCKHEED 3S6007-135 ROBINS AFB
LOCKHEED MARTIN C-130H
LOCKHEED MARTIN C-130J
LOCKHEED MARTIN F-111A & F-111B
LOCKHEED MARTIN F-16 A.I.S.
LOCKHEED MARTIN F-16 FIGHTING FALCON
LOCKHEED MARTIN F-22
LOCKHEED MARTIN P-3 ORION
NORTHROP GRUMMAN B2 BOMBER
NORTHROP GRUMMAN C-2A
NORTHROP GRUMMAN E-2C "0" LEVEL
NORTHROP GRUMMAN EA-6B "T" LEVEL
NORTHROP GRUMMAN EA-6B "0" LEVEL
RAYTHEON T-6A TEXAN II (JPATS)

**ROTARY WING (PARTIAL LISTING)**

Agusta Westland WG-30
Agusta Westland A109 & A129
BELL 206 JETRANGER & 206L LONG RANGE
BELL 214 ST SUPER TRANSPORT
BELL 222
BELL 430
BELL AH-1S COBRA
BELL ED-1H IROQUOIS
BELL OH-58D AHIP
BELL TH-57 SEA RANGER
BELL 412SP
BELL RF
BELL AH-1S COBRA
BELL 234, AGUSTA 109
BELL AH-1S
BELL 205, 206, 206L, 212, 412
BOEING AH-64A APACHE
BOEING CANADA CH113
BOEING CH47
BOEING MD500E
BOEING MD-900

**REGIONAL AND EXECUTIVE AIRCRAFT (PARTIAL LISTING)**

Avions de Transport Regional ATR42 & ATR72
BAE 146
BAE JETSREAM 31, 32, 41
BEECHCRAFT 1900D
BEECHCRAFT KING AIR 200 & 200T
BOMBARDIER GLOBAL
BOMBARDIER LEARJET 25, 35, 55
BOMBARDIER LEARJET 45
CANADAIR CHALLENGER CL-600, CL601-3A
CANADAIR RJ
CESSNA CITATION I, II, III
CESSNA CITATION II
DAUSSAULT FALCON 10, 100, 200, 400, 50, & 900
DAUSSAULT FALCON 50 EX, 900EX, 200
DEHAVILLAND DASH 8-100, -200, -30
DEHAVILLAND DASH 8-400

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Custom Kits are Available

DMC works with maintainers, OEMs, aircraft owners, and regulatory agencies to update our Tool Kits and keep them current with changes. DMC’s Global Supply Chain of Partners assures that a replacement component or Tool Kit upgrade can be acquired anywhere that aerospace equipment is relied upon for business or military purpose.

GULFSTREAM GV
GULFSTREAM III & IV
GULFSTREAM II
GULFSTREAM GII
HAWKER BEECHCRAFT 800/800XP
LEANET 60
LEANET 31A MAINTENANCE
LEANET 5/31A/35/55/60
LEANET 45 MAINTAINACE
LEANET 5/31A, 35, 45, 55, 60
LEANET 35
LEANET 25, 35, & 55
RAYTHEON BEECHCRAFT KING AIR 200, 200T
SAAB 340
SAAB 2000

GULFSTREAM GV
GULFSTREAM III & IV
GULFSTREAM II
GULFSTREAM GII
HAWKER BEECHCRAFT 800/800XP
LEANET 60
LEANET 31A MAINTENANCE
LEANET 25/31A/35/55/60
LEANET 45 MAINTAINACE
LEANET 25,31A,35,45,55,60
LEANET 35
LEANET 25, 35, & 55
RAYTHEON BEECHCRAFT KING AIR 200, 200T
SAAB 340
SAAB 2000

COMMERCIAL AIRCRAFT
(Partial Listing)

AIRBUS A300/A310
AIRBUS A320/A330/A340
AIRBUS A319
AIRBUS A300, 310, 320, 330, 340
AIRBUS A380
Avions de Transport Regional ATR42 & ATR72
BAE 146
BAE JETSREAM 31, 32, 41
BEECHCRAFT 1900D
BEECHCRAFT KING AIR 350
BEECHCRAFT King Air 200 & 200T
BOEING 737-NG
BOEING MD80
BOEING 707, 727, 737,
BOEING 777 & 767
BOEING 777
BOEING 707, 727, 737-200 TO 800
BOEING 737-200/800 & 757-200/-300
BOEING 707, 727, 737
BOEING 747, 747SP, 100 & 200
BOEING 707, 727, 737-200, 747, 747SP
Boeing 787
BOEING DC8, DC9, DC10 - 707, 727, 737, 747

NOTICE: Unless otherwise stated by DMC; tools contained in a kit have been selected based upon their suitability to service the related connector or contact indicated. 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.
DMC Service Kits are designed to enable the technician to use time and abilities in the most efficient way. Through our organizational planning we provide the user with the following benefits: 1) Easier Access to Tools, 2) Less Personnel Downtime, 3) Control of Tool Inventory, 4) Protection of Tools.

ENVIRONMENTAL PACKAGING
An analysis of the environmental conditions and other factors is of absolute necessity from the beginning. On-site field maintenance requires a packaging system where maximum portability and component protection are the controlling factors, whereas maintenance kits designed for depot-level support are based primarily on convenient location of components and other significant factors important to that environment.

CUSTOM SIZES
Depending upon the complexity of the system being supported, the tools and technical data are protected in various formats: from a single metal tool box for basic, on-site repairs to multi-drawer, roll-around cabinets for depot-level repairs.

FOAM INSERTS
Foam inserts (standard for all DMC kits) provide each component with a designated storage space which is indicated on the Contents Charts. This assures the technician that no needed components are missing prior to departing to make the repair. The technician also knows, prior to leaving the on-site repair, that if a foam compartment is empty, then a component is missing and must be retrieved. This helps eliminate FOD (Foreign Object Damage) problems.

CUSTOM/SPECIAL KITS
Designed to match your specific needs, these kits are supplied in custom-type cases, and include all of the tools and data necessary to meet your unique requirements.

MILITARY/STANDARD KITS
Conforming to MIL-T-83507, MIL-M-83521 and other specifications, these kits have proven their reliability and versatility over years of dependable service.