

DMC2119 KC-46A PEGASUS KIT



KC-46A PEGASUS

The KC-46A Pegasus is a military aerial refueling and strategic military transport aircraft developed by Boeing. The KC-46A Pegasus 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 this aircraft.

DMC2119 MAINTENANCE KIT

The **DMC2119** KC-46A Pegasus 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 **DMC2119** 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. This kit is made up of three environmentally sealed cases and includes: Name Plate, Contoured Foam Inserts/Pads, Contents Charts, Instruction Sheets, and Tool Selection Charts.

| TOOL SELECTION CHART | | | | | | | | | | | |
|---|-----------------------|---------------------|---------------------|--------------|---------------------|------------------------|-------------------------------------|-----------------------------|--------------------------|--|----------------------|
| CONNECTOR SERIES AND TYPE | CONNECTOR PART NUMBER | CONTACT POSITIONING | CONTACT COLOR BANDS | CONTACT SIZE | CONTACT PART NUMBER | CRIMP TOOL PART NUMBER | TURRET HEAD OR DR. SEC. PART NUMBER | INSTALLING TOOL PART NUMBER | REMOVAL TOOL PART NUMBER | REMOVAL TOOL FOR WIRE RELEASE CONTACTS | |
| KC-46A PEGASUS CIRCULAR FRONT RELEASE CONTACTS | M3020/21-100 | P | RED | 20-22 | 0200 | JFS (M22520/1-01) | 70A (M8999/11-01) | D4620B (M8999/19-01) | DRK20B (M8999/19-01) | DRK20B (M8999/19-01) | |
| | M3020/22-209 | P | RED | 20-22 | 0200 | JFS (M22520/1-01) | 70A (M8999/11-01) | D4620B (M8999/19-01) | DRK20B (M8999/19-01) | DRK20B (M8999/19-01) | |
| | M3020/21-228 | P | RED | 20-22 | 0200 | JFS (M22520/1-01) | 70A (M8999/11-01) | D4620B (M8999/19-01) | DRK20B (M8999/19-01) | DRK20B (M8999/19-01) | |
| | M3020/20-207 | S | RED | 18 | 18-20 | 0018 | JFS (M22520/1-01) | 70A (M8999/11-01) | D4620B (M8999/19-01) | DRK20B (M8999/19-01) | DRK20B (M8999/19-01) |
| | M3020/21-234 | P | RED | 12 | 12-14 | 0012 | JFS (M22520/1-01) | 70A (M8999/11-01) | D4620B (M8999/19-01) | DRK20B (M8999/19-01) | DRK20B (M8999/19-01) |
| KC-46A PEGASUS CIRCULAR REAR RELEASE CONTACTS | M3020/20-253 | S | RED | 12 | 12-14 | 0012 | JFS (M22520/1-01) | 70A (M8999/11-01) | D4620B (M8999/19-01) | DRK20B (M8999/19-01) | DRK20B (M8999/19-01) |
| | M3020/20-115 | S | BROWN | 15 | 20-24 | 0200 | JFS (M22520/1-01) | 70A (M8999/11-01) | D4620B (M8999/19-01) | DRK20B (M8999/19-01) | DRK20B (M8999/19-01) |
| | M3020/20-110 | P | BROWN | 15 | 20-24 | 0200 | JFS (M22520/1-01) | 70A (M8999/11-01) | D4620B (M8999/19-01) | DRK20B (M8999/19-01) | DRK20B (M8999/19-01) |
| | M3020/20-118 | S | BROWN | 18 | 18-20 | 0018 | JFS (M22520/1-01) | 70A (M8999/11-01) | D4620B (M8999/19-01) | DRK20B (M8999/19-01) | DRK20B (M8999/19-01) |
| | M3020/20-111 | P | BROWN | 18 | 18-20 | 0018 | JFS (M22520/1-01) | 70A (M8999/11-01) | D4620B (M8999/19-01) | DRK20B (M8999/19-01) | DRK20B (M8999/19-01) |
| KC-46A PEGASUS CIRCULAR REAR RELEASE CONTACTS | M3020/20-118 | S | BROWN | 18 | 18-20 | 0018 | JFS (M22520/1-01) | 70A (M8999/11-01) | D4620B (M8999/19-01) | DRK20B (M8999/19-01) | DRK20B (M8999/19-01) |
| | M3020/20-113 | P | BROWN | 12 | 12-14 | 0012 | JFS (M22520/1-01) | 70A (M8999/11-01) | D4620B (M8999/19-01) | DRK20B (M8999/19-01) | DRK20B (M8999/19-01) |
| | M3020/20-113 | P | BROWN | 12 | 12-14 | 0012 | JFS (M22520/1-01) | 70A (M8999/11-01) | D4620B (M8999/19-01) | DRK20B (M8999/19-01) | DRK20B (M8999/19-01) |
| | M3020/20-113 | P | BROWN | 12 | 12-14 | 0012 | JFS (M22520/1-01) | 70A (M8999/11-01) | D4620B (M8999/19-01) | DRK20B (M8999/19-01) | DRK20B (M8999/19-01) |
| | M3020/20-113 | P | BROWN | 12 | 12-14 | 0012 | JFS (M22520/1-01) | 70A (M8999/11-01) | D4620B (M8999/19-01) | DRK20B (M8999/19-01) | DRK20B (M8999/19-01) |



Tool Selection Charts

M22520/1-01 CRIMP TOOL (DANIELS AF8)

INSTRUCTIONS FOR CHANGING TURRET HEAD ASSEMBLIES

1. PRESS TURRET HEAD RELEASE HAMMER TO CHANGE TURRET HEAD ASSEMBLY.
2. REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL AND HOLD TURRET HEAD ASSEMBLY IN POSITION.
3. REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL AND HOLD TURRET HEAD ASSEMBLY IN POSITION.
4. REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL AND HOLD TURRET HEAD ASSEMBLY IN POSITION.
5. REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL AND HOLD TURRET HEAD ASSEMBLY IN POSITION.

INSTRUCTIONS FOR INDEXING TURRET HEAD ASSEMBLIES

1. PRESS TURRET HEAD RELEASE HAMMER TO INDEX TURRET HEAD ASSEMBLY.
2. REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL AND HOLD TURRET HEAD ASSEMBLY IN POSITION.
3. REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL AND HOLD TURRET HEAD ASSEMBLY IN POSITION.
4. REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL AND HOLD TURRET HEAD ASSEMBLY IN POSITION.
5. REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL AND HOLD TURRET HEAD ASSEMBLY IN POSITION.

INSTRUCTIONS FOR USING INDEXER CLOSURE SELECTOR

1. REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL AND HOLD TURRET HEAD ASSEMBLY IN POSITION.
2. REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL AND HOLD TURRET HEAD ASSEMBLY IN POSITION.
3. REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL AND HOLD TURRET HEAD ASSEMBLY IN POSITION.
4. REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL AND HOLD TURRET HEAD ASSEMBLY IN POSITION.
5. REMOVE TURRET HEAD ASSEMBLY FROM CRIMP TOOL AND HOLD TURRET HEAD ASSEMBLY IN POSITION.

M22520/2-01 CRIMP TOOL (DANIELS AFM8)

INSTRUCTIONS FOR CHANGING POSITIONERS

1. SELECT CORRECT POSITIONER FOR CONTACT BEING CRIMPED.
2. REMOVE POSITIONER FROM POSITIONER LOCK PLATE FROM CRIMP TOOL.
3. REMOVE INDEXER FROM CRIMP TOOL.
4. REMOVE POSITIONER FROM CRIMP TOOL AND HOLD POSITIONER IN POSITION.
5. REMOVE POSITIONER FROM CRIMP TOOL AND HOLD POSITIONER IN POSITION.
6. REMOVE POSITIONER FROM CRIMP TOOL AND HOLD POSITIONER IN POSITION.

CRIMPING INSTRUCTIONS

1. INSERT CONTACT THROUGH INDEXER OPENING AND INTO POSITIONER.
2. INSERT WIRE INTO CONTACT AND HOLD SECURELY TO POSITIONER.
3. REMOVE POSITIONER FROM CRIMP TOOL AND HOLD POSITIONER IN POSITION.
4. REMOVE POSITIONER FROM CRIMP TOOL AND HOLD POSITIONER IN POSITION.
5. REMOVE POSITIONER FROM CRIMP TOOL AND HOLD POSITIONER IN POSITION.

NOTE: AFTER CRIMPING CYCLE IS COMPLETED, REMOVE CONTACT. DANGERS: THE WIRE IS VISIBLE THROUGH THE INSPECTION HOLE OF THE CONTACT AND THERE ARE NO FRACTURES IN THE CONTACT.

Instruction Sheets

Actual Kit may vary from example shown.

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DMC2119 KC-46A PEGASUS KIT



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

Type of Inserts: Unicellular Polyethylene Foam with Die Cut Tool Cavities

Type of Construction: 3 Yellow Ultra High Impact Copolymer Cases

| DMC CONNECTOR COVERAGE | |
|------------------------|--|
| MANUFACTURER | SERIES |
| MIL-DTL-12883 | Relay Sockets |
| MIL-DTL-24308 | D-SUB |
| MIL-DTL-38999 | Circular |
| MIL-DTL-26500 | Circular |
| MIL-DTL-39012 | RF Coaxial |
| AS50151 | Circular |
| MIL-DTL-81511 | Circular |
| MIL-DTL-81659 | Rack & Panel |
| MIL-DTL-83723 | Circular |
| MS-9177 | Telephone Jack |
| Aerospace Optics | Lighted Push Button Switches |
| Amphenol | Relay Sockets, Rack & Panel, CTV, PT-CE, TV |
| Amphenol RF | RF Coaxial |
| Array | Galley Connectors |
| Boeing Standards | BACC45, BACC63, BACC64, BACC65, BACS16, BACS52, BACT12, BACT13 |
| Burndy | RF Coaxial, YAV Lugs |
| Glenair | Mighty Mouse |
| Hi-REL | Circular |
| ITT Cannon | BKA*, CA-Bayonet, DPX, KJA |
| Kidde | Fire Detection Connectors |
| Radiall | EPX Modular |
| Souriau | Circular |
| TE | Ultra-Fast, D-150, Mini Seal DK-621 |

| KIT CONTENTS | |
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| 3 | Unwired Contact Removal Tools w/ Probes |
| 1 | Wire Cutter |
| 14 | Wire Strippers |
| 3 | In-Service Inspection Gages |
| 1 | Die Removal Tool |
| 1 | Hex Wrench |
| 1 | Wrench |
| 2 | Wire Harness Spoons |
| 4 | Ringer Wire Strippers |
| 1 | Thermal Wire Stripper |
| 4 | Coax Cable Strippers |
| 11 | Spare Ringer Blades |
| 2 | Banding Tools |
| 2 | Banding Tool Gages |
| 40 | Bands |
| 1 | Soft Jaw Plier w/ 2 Replacement Pads |
| 1 | Cable Tie Tool |
| 1 | Cable Tie Removal Tool |

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.