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Friday, February 13, 2015



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DMC is dedicated to serving the connector tooling needs of the electronics industry. We, therefore, top off our product package with a wide variety of installing and removal tools.



Although we supply both **plastic** and metal tools, we recommend the use of the metal tools because of their durability.

When used properly they are more cost effective in that they withstand thousands of contact insertion and removal cycles. The trend to all metals tools is being actively encouraged by most departments of the government.

DMC installing and removal tools are of proven high quality and reliability. In addition to the tools listed in these reference table, we have many more for other connector applications. Please contact us for more details.

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[M39029 Connector & Contact Cross Reference](#)



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**DMC1155 GENERAL PURPOSE INSERTION & REMOVAL TOOL KIT**

DMC's General Purpose Insertion and Removal Tool Kit (P/N: **DMC1155**) contains metal insertion and removal tools for common MI-Spec Circular Connectors, D-Subminiature Connector, ARINC Connectors and AS81714 terminal junctions. Consult DMC for further details.



| MIL-I-81969/# | Superceded Military # | MIL-I-81969/# | Superceded Military # | MIL-I-81969/# | Superceded Military # |
|---------------|-----------------------|---------------|-----------------------|---------------|-----------------------|
| 1-01          | MS3156-22             | 11-01         | M28731/22-01          | 19-09         | MS24256R12            |
| 1-02          | MS3156-20             | 13-01         | M28731/21-01          | 19-10         | MS24256RH20           |
|               | M24308/18-2           | 14-01         | MS27534-22D           | 19-11         | MS24256RH16           |
| 1-03          | MS3156-16             | 14-02         | MS27534-20            | 20-01         | MS17806               |
|               | M24308/18-3           |               | MS3447-20             | 27-01         | MS90562-1             |
| 1-04          | M24308/18-1           |               | MB3723/31-20          | 27-02         | MS90562-2             |
| 2-01          | MS3323-22             | 14-03         | MS27534-16            | 27-03         | MS90562-3             |
| 2-02          | MS3323-20             |               | MS3447-16             | 27-04         | MS90562-4             |
| 2-03          | MS3323-16             |               | MB3723/31-16          | 27-05         | MS90562-5             |
| 2-04          | MS3323-12             | 14-04         | MS27534-12            | 27-06         | MS90562-6             |
| 3-01          | MS3344-23             |               | MS3447-12             | 28-01         | MS3178-001            |
| 3-02          | MS3344-20             | MB3723/31-12  | 28-02                 | MS3178-002    |                       |
| 3-03          | MS3344-16             | 15-01         | MS3483-1              | 29-01         | MS3165-16             |
| 3-04          | MS3344-12             | 15-02         | MS3483-2              | 29-02         | MS3165-8              |
| 3-05          | MS3342-23             | 15-03         | MS3483-3              |               | MB3723/32-08          |
| 3-06          | MS3342-20             | 16-01         | MS3160-20             | 29-03         | MS3165-4              |
| 3-07          | MS3342-16             | 16-02         | MS3160-16             |               | MB3723/32-04          |
| 3-08          | MS3342-12             | 16-03         | MS3160-12             | 29-04         | MS3165-0              |
| 4-01          | M55301/106-01         | 16-04         | MS3160-22             |               | MB3723/32-00          |
| 5-01          | M55302/105-01         | 17-01         | MS90455-16            | 30-01         | MS3159-22             |
| 6-01          | M21097/18-01          | 17-02         | MS90455-12            | 30-02         | MS3159-20             |
| 7-01          | M21097/12-01          | 17-03         | MS24256A20            | 30-03         | MS3159-16             |
| 8-01          | M55302/79-01          | 17-04         | MS24256A16            | 30-04         | MS3159-12             |
|               | MS27495A22M           | 17-05         | MS24256A12            | 30-05         | MS3448-001A           |
| 8-02          | M55302/79-02          | 17-06         | MS90455-8             | 30-06         | MS3448-001B           |
|               | MS27495R22M           | 17-07         | MS90455-4             | 30-07         | MS3448-001C           |
| 8-03          | MS27495A22            | 17-08         | MS90455-0             | 31-01         | MS18137-20-1          |
| 8-04          | MS27495R22            | 18-01         | MS17805               | 31-02         | MS18137-20-2          |
| 8-05          | MS27495A20            | 19-01         | MS90456-16            | 31-03         | MS18137-20-3          |
| 8-06          | MS27495R20            | 19-02         | MS90456-12            | 31-04         | MS18137-20-4          |
| 8-07          | MS27495A16            | 19-03         | MS90456-8             | 31-05         | MS14035-02            |
| 8-08          | MS27495R16            | 19-04         | MS90456-4             | 31-06         | MS14035-03            |
| 8-09          | MS27495A12            | 19-05         | MS90456-0             | 31-07         | MS14035-01            |
| 8-10          | MS27495R12            | 19-06         | MS24256R20            | 31-08         | MS14036-01            |
| 9-01          | M55302/18-01          | 19-07         | MS24256R20            | 31-09         | MS14036-02            |
| 10-01         | M55302/86-01          | 19-08         | MS24256R16            | 31-10         | MS14036-03            |

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| Military P/N | DMC P/N     | Installing or Removal | Size | Color Code  |
|--------------|-------------|-----------------------|------|-------------|
| MB1969/1-01  | MB1969/1-01 | I/R                   | 22   | Green/White |
| MB1969/1-02  | MB1969/1-02 | I/R                   | 20   | Red/White   |
| MB1969/1-03  | MB1969/1-03 | I/R                   | 16   | Blue/White  |
| MB1969/1-04  | MB1969/1-04 | I/R                   | 12   | Green/White |
| MB1969/2-01  | DAK126-23A  | I                     | 22   | Yellow      |

|               |              |     |       |                    |
|---------------|--------------|-----|-------|--------------------|
| MB1969/2-02   | DAK126-20A   | I   | 20    | Red                |
| MB1969/2-03   | DAK126-16A   | I   | 16    | Blue               |
| MB1969/2-04   | DAK126-12A   | I   | 12    | Yellow             |
| MB1969/3-01   | DRK129-23A   | R   | 23    | Yellow             |
| MB1969/3-02   | DRK129-20A   | R   | 20    | Red                |
| MB1969/3-03   | DRK129-16A   | R   | 16    | Blue               |
| MB1969/3-04   | DRK129-12A   | R   | 12    | Yellow             |
| MB1969/3-05   | DRK125-23A   | R   | 23    | Yellow/Black       |
| MB1969/3-06   | DRK125-20A   | R   | 20    | Red/Black          |
| MB1969/3-07   | DRK125-16A   | R   | 16    | Blue/Black         |
| MB1969/3-08   | DRK125-12A   | R   | 12    | Yellow/Black       |
| MB1969/4-01   | Wrap Post    |     |       |                    |
| MB1969/4-02   | Wrap Post    |     |       |                    |
| MB1969/5-01   | Wrap Post    |     |       |                    |
| MB1969/7-01   | DAK52        | I   | N/A   | Clear              |
| MB1969/8-01   | DAK95-22B    | R   | 22D   | Green              |
| MB1969/8-02   | DRK95-22B    | R   | 22M   | Green/White        |
| MB1969/8-03   | DAK95-22B    | I   | 22    | Brown              |
| MB1969/8-04   | DRK95-22B    | R   | 22    | Brown/White        |
| MB1969/8-05   | DAK95-20B    | I   | 20    | Red                |
| MB1969/8-06   | DRK95-20B    | R   | 20    | Red/White          |
| MB1969/8-07   | DAK95-16B    | I   | 16    | Blue               |
| MB1969/8-08   | DRK95-16B    | R   | 16    | Blue/White         |
| MB1969/8-09   | DAK95-12B    | I   | 12    | Yellow             |
| MB1969/8-10   | DRK95-12B    | R   | 12    | Yellow/White       |
| MB1969/8-205B | DAK83-20B    | I   | 20    | Red/Black          |
| MB1969/8-206B | DRK83-20B    | R   | 20    | Red/White/Black    |
| MB1969/8-207  | DAK83-16B    | I   | 16    | Blue/Black         |
| MB1969/8-208  | DRK83-16B    | R   | 16    | Blue/White/Black   |
| MB1969/8-209  | DAK83-12B    | I   | 12    | Yellow/Black       |
| MB1969/8-210  | DRK83-12B    | R   | 12    | Yellow/White/Black |
| MB1969/12-01  | DRK248A      | I/R | N/A   | Straight           |
| MB1969/12-02  | DRK246A      | I/R | N/A   | Angled             |
| MB1969/14-01  | MB1969/14-01 | I/R | 22D   | Green/White        |
| MB1969/14-02  | MB1969/14-02 | I/R | 20    | Red/White          |
| MB1969/14-03  | MB1969/14-03 | I/R | 16    | Blue/White         |
| MB1969/14-04  | MB1969/14-04 | I/R | 12    | Yellow/White       |
| MB1969/14-05  | MB1969/14-05 | I/R | 10    | GRAWhite           |
| MB1969/14-10  | MB1969/14-10 | I/R | 20    | Red/Orange         |
| MB1969/14-11  | MB1969/14-11 | I/R | 20    | Red/White          |
| MB1969/15-01  | DRK250-8     | R   | 8     | None               |
| MB1969/15-02  | DRK250-4     | R   | 4     | None               |
| MB1969/15-03  | DRK250-0     | R   | 1/0   | None               |
| MB1969/16-01  | 81515-20     | I/R | 20    | Red/White          |
| MB1969/16-02  | 81515-16     | I/R | 16    | Blue/White         |
| MB1969/16-03  | 81515-12     | I/R | 12    | Yellow/White       |
| MB1969/16-04  | 81515-23     | I/R | 23    | Green/White        |
| MB1969/17-01  | DAK55-16A    | I   | 16    | Blue               |
| MB1969/17-02  | DAK55-12A    | I   | 12    | Yellow             |
| MB1969/17-03  | DAK20B       | I   | 20    | Red                |
| MB1969/17-04  | DAK16B       | I   | 16    | Blue               |
| MB1969/17-05  | DAK12B       | I   | 12    | Yellow             |
| MB1969/17-06  | DAK55-8B     | I   | 8     | Red                |
| MB1969/17-07  | DAK55-4B     | I   | 4     | Blue               |
| MB1969/17-08  | DAK55-0B     | I   | 0     | Yellow             |
| MB1969/17-09  | DAK83S-20    | I   | 20    | Red                |
| MB1969/18-01  | DAK123A      | I   | 16/20 | Green              |
| MB1969/18-02  | DAK123-22A   | I   | 22    | GOLD               |
| MB1969/19-01  | DRK16B       | R   | 16    | Blue               |
| MB1969/19-02  | DRK12B       | R   | 12    | Yellow             |
| MB1969/19-03  | DRK56-8B     | R   | 8     | Red                |
| MB1969/19-04  | DRK56-4B     | R   | 4     | Blue               |
| MB1969/19-05  | DRK56-0B     | R   | 0     | Yellow             |
| MB1969/19-06  | DRK20B       | R   | 20    | Red                |
| MB1969/19-07  | DRK20A       | R   | 20    | Red                |
| MB1969/19-08  | DRK16A       | R   | 16    | Blue               |
| MB1969/19-09  | DRK12A       | R   | 12    | Yellow             |
| MB1969/19-10  | DHK20A       | R   | 20    | Red                |
| MB1969/19-11  | DHK16A       | R   | 16    | Blue               |
| MB1969/20-01  | DRK124A      | R   | 16    | Green              |
| MB1969/20-02  | DRK124-22A   | R   | 22    | N/A                |
| MB1969/21-01  | DHK368       | I/R | 16    | N/A                |
| MB1969/22-01  | DRK222       | R   | 16    | N/A                |
| MB1969/23-01  | DAK1-16P-S   | I   | 16    | N/A                |
| MB1969/23-02  | DAK1-16S-S   | I   | 16    | N/A                |
| MB1969/27-01  | DRK178-1A    | R   | 4/0   | N/A                |
| MB1969/27-02  | DRK178-2A    | R   | 2/0   | N/A                |
| MB1969/27-03  | DRK178-3A    | R   | 1/0   | N/A                |

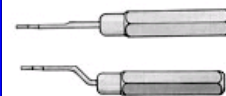
|               |              |     |      |                  |
|---------------|--------------|-----|------|------------------|
| MB1969/27-04  | DRK178-4A    | R   | 2    | N/A              |
| MB1969/27-05  | DRK178-5A    | R   | 4    | N/A              |
| MB1969/27-06  | DRK178-6A    | R   | 6    | N/A              |
| MB1969/28-01  | DRK310       | R   | COAX | N/A              |
| MB1969/28-02  | DRK337       | R   | COAX | N/A              |
| MB1969/29-01  | CIET16-9     | R   | 16   | Blue             |
| MB1969/29-02  | MB1969/14-06 | R   | 8    | Red              |
| MB1969/29-03  | MB1969/14-07 | R   | 4    | Blue             |
| MB1969/29-04  | MB1969/14-08 | R   | 0    | Yellow           |
| MB1969/30A-01 | DRK130-22A   | R   | 22   | Yellow           |
| MB1969/30A-02 | DRK130-20A   | R   | 20   | Red              |
| MB1969/30A-03 | DRK130-16A   | R   | 16   | Blue             |
| MB1969/30A-04 | DRK130-12A   | R   | 12   | Yellow           |
| MB1969/30A-05 | DRK110-20-2  | R   | 20   | Red              |
| MB1969/30A-06 | DRK110-16-2  | R   | 16   | Blue             |
| MB1969/30A-07 | DRK110-12-2  | R   | 12   | Yellow           |
| MB1969/30B-01 | DRK501B      | R   | 22   | Black/Yellow     |
| MB1969/30B-02 | DRK502B      | R   | 20   | Black/Red        |
| MB1969/30B-03 | DRK503B      | R   | 16   | Black/Blue       |
| MB1969/30B-04 | DRK504B      | R   | 12   | Black/Yellow     |
| MB1969/30B-05 | DRK505B      | R   | 20   | Silver/Red       |
| MB1969/30B-06 | DRK506B      | R   | 16   | Silver/Blue      |
| MB1969/30B-07 | DRK507B      | R   | 12   | Silver/Yellow    |
| MB1969/30B-08 | DRK508B      | R   | 22D  | Brown/Brown      |
| MB1969/30B-09 | DRK509B      | R   | 22M  | Brown/Yellow     |
| MB1969/30B-10 | DRK510B      | R   | 22   | Brown/Green      |
| MB1969/30B-11 | DRK511B      | R   | 20   | Brown/Red        |
| MB1969/30B-12 | DRK512B      | R   | 16   | Brown/Blue       |
| MB1969/30B-13 | DRK513B      | R   | 12   | Brown/Yellow     |
| MB1969/30B-19 | DRK519B      | R   |      | Tool Set         |
| MB1969/30B-20 | DRK520B      | R   |      | Handle           |
| MB1969/30B-21 | DRK521B      | R   | 22   | Yellow           |
| MB1969/30B-22 | DRK522B      | R   | 20   | Red              |
| MB1969/30B-23 | DRK523B      | R   | 16   | Blue             |
| MB1969/30B-24 | DRK524B      | R   | 12   | Yellow           |
| MB1969/30B-25 | DRK525B      | R   | 20   | Red              |
| MB1969/30B-26 | DRK526B      | R   | 16   | Blue             |
| MB1969/30B-27 | DRK527B      | R   | 12   | Yellow           |
| MB1969/30B-28 | DRK528B      | R   | 22D  | Brown            |
| MB1969/30B-29 | DRK529B      | R   | 22M  | Yellow           |
| MB1969/30B-30 | DRK530B      | R   | 22   | Green            |
| MB1969/30B-31 | DRK531B      | R   | 20   | Red              |
| MB1969/30B-32 | DRK532B      | R   | 16   | Blue             |
| MB1969/30B-33 | DRK533B      | R   | 12   | Yellow           |
| MB1969/30B-34 | DRK534B      |     |      | Removal Tool Set |
| MB1969/30B-35 | DRK535B      |     |      | Removal Tool Set |
| MB1969/30B-36 | DRK536B      |     |      | Removal Tool Set |
| MB1969/33-01  | DAK55-225A   | I/R | 22   | Red              |
| MB1969/33-02  | DAK55-22JA   | I/R | 22   | Red              |
| MB1969/34-01  | DRK56-22A    | R   | 22   | Red              |
| MB1969/39-01  | MB1969/39-01 | I/R | 20   | Green/White      |

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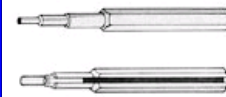
**INSTALLING TOOLS**

Straight and joggled tools hold contact and wire in line with center or side of the tool handle. Tool sizes are "0" to "24" gage. Handles are color coded aluminum. Tools range from 4 1/2" to 6" long with replaceable tips.



**FRONT REMOVAL, REAR INSTALLING TOOLS**

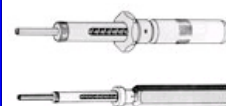
Both front removal and rear installing Military Standard tools offer a convenient and practical approach to servicing the MIL-C-81511, Series 1 & 2 connectors. Tools are color coded for contact size with half-inch hex metal handles.



**FRONT RELEASE**

Front release connectors are easily serviced with these military spec removal tools. Handles are color coded for contact size. Replaceable tips are available.

REF: MIL-C-005015, ML-DTL-26482, ML-C-26500, and ML-C-26636 Connectors.



|  |   |
|--|---|
| <p><b>FRONT REMOVAL SPRING-LOADED PROBE CONTACT TOOLS</b></p> <p>Employing the floating tip concept, these tools offer quality, as well as ease in operation. Body and handle are anodized aluminum alloy and color coded. Replaceable tips are available and require no special installing tools.</p>   |  |
| <p><b>REAR REMOVAL AND INSTALLING TWEEZERS</b></p> <p>Tools are for sizes 8 to 24 contacts. Used in NAS 1599, ML-PRF-38999 and other rear release connectors.</p>  |  |
| <p><b>UNWIRED CONTACT TOOLS (M81969/30)</b></p> <p>Tool removes unwired contacts from connectors and is available in two styles. The metal style employs a locking wedge and removes contacts from terminal block as well as from the connectors.</p> <p>The Military Standard tools use plastic probes which are interchangeable and available in sizes 12, 16, 20 (MS3448-001 kit) and 12 through 22 (MS3159), series NAS 1599 and ML-C-81511, Series 3 and 4.</p> |  |
| <p><b>REAR RELEASE PLIERS</b></p> <p>This tool unlocks ML-C-005015 contacts and sizes are 0, 4 and 8 gage.</p>   |  |
| <p><b>LONG-SLOT TOOLS</b></p> <p>This long-slot tool illustrates the standard for ML-C-005015 installing tools. Modified versions are available on request.</p>  |  |

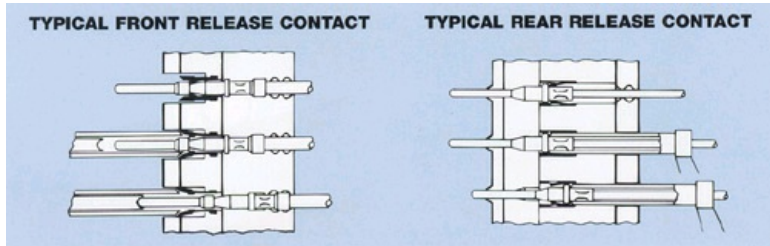
◆ **Abbreviations**

I - Installation Tool

R - Removal Tool

I/R - Installation and Removal Tool

N/A - Not Applicable



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[211-19149P](#) [6131-216-19149P](#) [6131-259-21149P](#) [6131-259-23149P](#) [6131-265-17149P](#) [6131-265-19149P](#) [CS3100A18-1P-472](#) [CS3100A-36-](#)  
[77P](#) [CS3101A-16-55P](#) [CS3102A-10SL-55P](#) [CS3102A-14S-58P](#) [CS3102A-32-17P](#) [CS3102A32-25S](#) [CS3102C18-4P-472](#)  
[CS3106A10SL3S004](#) [CS3106A-18-73S](#) [CS3108A-14S-52S](#) [CS3108A-28-51S](#) [6162-233-1277](#) [6162-324-1231](#) [M243082296Z](#)  
[M2884010AC1S1](#) [CT0-24-10SC](#) [CT0M20-7PCAU](#) [M28840/17AC1G3](#)