



707, 727-787

STANDARD WIRING PRACTICES MANUAL

ASSEMBLY OF BURNDY MT17R-1 CONNECTORS

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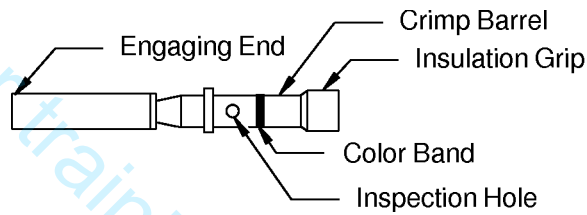
1. PART NUMBERS AND DESCRIPTION

A. Connector Part Numbers

Table 1
CONNECTOR PART NUMBERS

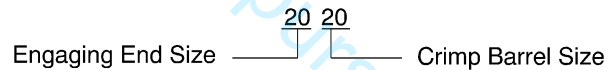
Part Number	Supplier
MT17R-1	Burndy

B. Contact Part Numbers



FRONT RELEASE SOCKET CONTACTS

Figure 1



EXAMPLE OF A CONTACT SIZE

Figure 2

Table 2
CONTACT PART NUMBERS

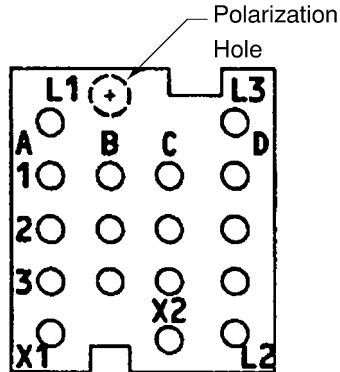
Contact Size		Contact Type	Part Number	Supplier
Engaging End	Crimp Barrel			
20	20	Socket	MS24255-20S	QPL
			BACC47CP1T	Boeing
20	16	Socket	48-100-5007S-02	Amphenol

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C. Insert Configuration



BURNDY MT17R-1 RECEPTACLE CONTACT CONFIGURATION
Figure 3

2. CONNECTOR DISASSEMBLY

A. Contact Removal

Table 3
CONTACT REMOVAL TOOLS

Crimp Barrel Size	Removal Tool	Supplier
20	ST2220-3-13	Boeing
	MS24256-R20	QPL
	294-89	Amphenol
16	ST2220-3-13	Boeing

- (1) Make a selection of a removal tool from Table 3.
- (2) Align the removal tool with the contact on the front side of the connector.
- (3) Press firmly until the contact is loosened.
- (4) Gently pull on the wire from the rear of the receptacle until the contact is completely removed.

3. CONNECTOR ASSEMBLY

A. Contact Assembly

Table 4
INSULATION REMOVAL LENGTH

Crimp Barrel Size	Removal Length (inch)	
	Target	Tolerance
20	3/16	1/16
16	5/16	1/16

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Table 5
CONTACT CRIMP TOOLS

Contact		Crimp Tool				
Engaging End Size	Crimp Barrel Size	Basic Unit			Locator	
		Part Number	Setting	Die Set	Part Number	Color
20	20	ST2220-1-Y	-	-	ST2220-1-1	-
		M10S-1	-	S-6A	SL-3A	-
		MS3191-1	-	-	MS3191-20()	Red
20	16	ST2220-1-Y	-	-	ST2220-1-45	-
		MS3191-1	-	-	294-1140	-

NOTE: A maximum of two AWG 20 wires may be terminated in a size 16 wire barrel.

- (1) Make a selection of a contact from Table 2.
- (2) Remove the wire insulation to the length given in Table 4.
- (3) Make a selection of a crimp tool from Table 5.
- (4) Insert the wire into the contact crimp barrel.
- (5) Crimp the contact.

B. Contact Insertion

Table 6
CONTACT INSERTION TOOLS

Contact Crimp Barrel Size	Insertion Tool			
	Handle		Bit	
	Part Number	Supplier	Part Number	Supplier
20	ST2220-2	Boeing	ST2220-2-8	Boeing
	MS24256-A20	QPL	-	-
	294-88	Burndy	-	-
16	ST2220-2	Boeing	ST2220-2-8	Boeing

- (1) Make a selection of an insertion tool from Table 6.
- (2) Slide the contact into the tool tip.
- (3) Place the contact into the grommet hole at the rear of the receptacle.
- (4) Hold the tool straight and push forward until the contact is fully seated.

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4. APPROVED TOOL SUPPLIERS

A. Contact Crimp Tools

Table 7
CRIMP TOOL SUPPLIERS

Part Number	Supplier
294-1140	Amphenol
M10S-1	Burndy
MS3191-1	QPL
MS3191-20()	QPL
S-6	Burndy
SL-3	Burndy
ST2220-1-1	Boeing
ST2220-1-45	Boeing
ST2220-1-Y	Boeing

B. Contact Insertion Tools

Table 8
INSERTION TOOL SUPPLIERS

Part Number	Supplier
294-88	Burndy
MS24256-A20	QPL
ST2220-2	Boeing
ST2220-2-8	Boeing

C. Contact Removal Tools

Table 9
REMOVAL TOOL SUPPLIERS

Part Number	Supplier
294-89	Amphenol
MS24256-R20	QPL
ST2220-3-13	Boeing

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