

ASSEMBLY OF BURNDY MT17R-1 CONNECTORS

TABLE OF CONTENTS

PAR	AGRAPH	PAGE	
1.	PART	2	
	A.	Connector Part Numbers	2
	B.	Contact Part Numbers	2
	C.	Insert Configuration	3
2.	CONN	ECTOR DISASSEMBLY	3
	A.	Contact Removal	3
3.	CONN	ECTOR ASSEMBLY	4
	A.	Contact Assembly	4
	B.	Contact Insertion	4
4.	APPRO	OVED TOOL SUPPLIERS	5
	A.	Contact Crimp Tools	5
	B.	Contact Insertion Tools	5
	C.	Contact Removal Tools	6



ASSEMBLY OF BURNDY MT17R-1 CONNECTORS

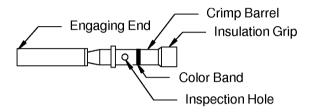
1. PART NUMBERS AND DESCRIPTION

A. Connector Part Numbers

Table 1 CONNECTOR PART NUMBERS

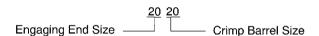
Part Number	Supplier
MT17R-1	Burndy

B. Contact Part Numbers



2449036 S00061548717 V1

FRONT RELEASE SOCKET CONTACTS Figure 1



2446651 S00061545900_V1

EXAMPLE OF A CONTACT SIZE Figure 2

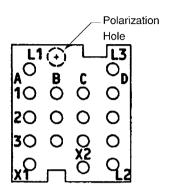
Table 2 CONTACT PART NUMBERS

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



ASSEMBLY OF BURNDY MT17R-1 CONNECTORS

C. Insert Configuration



2446821 S00061548931_V1

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
	ST2220-3-13	Boeing
20	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.



ASSEMBLY OF BURNDY MT17R-1 CONNECTORS

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	

Table 5 CONTACT CRIMP TOOLS

Contact		Crimp Tool				
Engaging	Crimp Barrel Size	Basic Unit			Locator	
End Size		Part Number	Setting	Die Set	Part Number	Color
		ST2220-1-Y	-	-	ST2220-1-1	-
20	20	M10S-1	-	S-6A	SL-3A	-
		MS3191-1	-	-	MS3191-20()	Red
20	40	ST2220-1-Y	-	-	ST22220-1-45	-
20	16	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

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



ASSEMBLY OF BURNDY MT17R-1 CONNECTORS

Table 6 CONTACT INSERTION TOOLS (Continued)

	Insertion Tool			
Contact Crimp Barrel Size	Handle		Bit	
0.25	Part Number	Supplier	Part Number	Supplier
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.

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
ST22220-1-45	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



ASSEMBLY OF BURNDY MT17R-1 CONNECTORS

C. Contact Removal Tools

Table 9 REMOVAL TOOL SUPPLIERS

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