

NOTE: Dimensions are for reference only.

Figure 1

1. INTRODUCTION

The AMPACT Jumper Stud Kits 83452-1 through -4 consist of an AMPACT tap and a 19.05 mm [.750 in.] tin-plated solid copper stud (p/n 83396-1). AMPACT Disconnect Kits 83470-1 through -9 consist of a disconnect pigtail connector (p/n 83471-1, live line connector), an AMPACT tap, and a similar tin-plated solid copper stud (p/n 83396-1). Disconnect Kits 2182452-1 through -5 consist of a disconnect pigtail connector (p/n 2182405-1 live line connector), an AMPACT TAP, and a 12.70 mm [.500 in.] tin-plated solid copper stud (p/n 83396-2). MG900's casting weight is 0.89 kg [1.95 lbs] and MG1200's casting weight is 1.35 kg [2.95 lbs]. See Table 1 for more details. Section 3 is applicable for both jumper stud kits and disconnect kits while Section 4 is applicable for disconnect kits only. All components of these kits meet or exceed the requirements for ANSI C119.4.

i **NOTE**
 Dimensions on this sheet are in metric units [with U.S. customary units in brackets]. Figures and illustrations are for reference only and are not drawn to scale.

Reasons for reissue are provided in Section 6, REVISION SUMMARY.

2. DESCRIPTION

The AMPACT disconnect connector is a heavy duty high conductivity copper connector. Incorporated in the body is a two bolt NEMA spaced pad for jumper terminal attachment. The disconnect utilizes wedge pressure technology to provide reliable connection to the jumper stud. The disconnect is equipped with a hot stick eyebolt and stabilizer ribs to facilitate easy and quick installation with hot sticks.

The connector kit or components are selected according to the wire combination shown in the selection chart, Table 1.

AMPACT DISCONNECT AND JUMPER STUD KITS

KIT NAME	NAME	½ INCH STUD	¾ INCH STUD	PIGTAIL CONNECTOR		INCLUDED TAP
	CATALOG NO.	10864L5	10864L4	MGV900	MGV1200	
	PART NO.	83396-2	83396-1	2182405-1	83471-1	
MGV900 Disconnect Kit	2182452-1	X		X		600458
	2182452-2	X		X		600465
	2182452-3	X		X		1-602031-8
	2182452-4	X		X		1-602031-6
	2182452-5	X		X		602121-9
¾ Inch Diameter Jumper Stud Kit	83452-1		X			1-602031-7
	83452-2		X			1-602031-5
	83452-3		X			1-602031-3
	83452-4		X			602031-5
MGV1200 Disconnect Kit	83470-1		X		X	1-602031-7
	83470-2		X		X	1-602031-5
	83470-3		X		X	1-602031-3
	83470-4		X		X	602121-5
	83470-5		X		X	602031-8
	83470-6		X		X	602031-9
	83470-7		X		X	1-602031-4
	83470-8		X		X	1443515-1
	83470-9		X		X	602180-7

NOTE: The marked boxes specify the parts that are included in the corresponding kit.

Table 1

3. INSTALLATION OF AMPACT TAP AND JUMPER STUD

1. Select appropriate kit or component from Table 1.



DANGER

AVOID PERSONAL INJURY, always follow ALL applicable industry safety precautions and the safety precautions included in the referenced manuals. See NOTE below.



NOTE

Follow safety precautions for standard AMPACT installation procedures for hand applications (Customer Manual 409-2106), or hot stick applications (Customer Manual 409-2197).

2. Thoroughly clean conductor using approved cleaning method and materials.
3. Install AMPACT tap and jumper stud utilizing standard AMPACT installation procedures. See Figures 2, 3, and 4.

Assemble Jumper Stud and "C" to Conductor

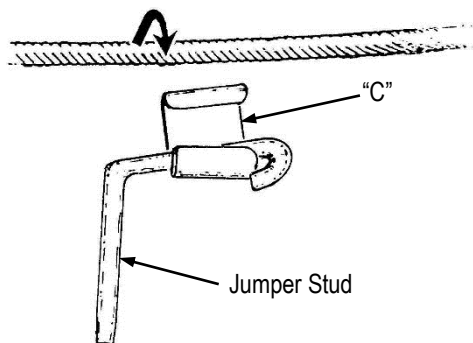


Figure 2

Position Wedge
and Tap in Place

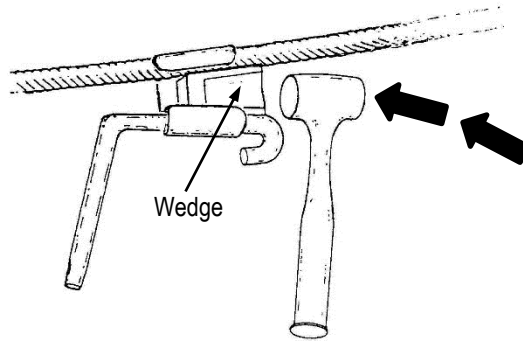


Figure 3

Install Tap

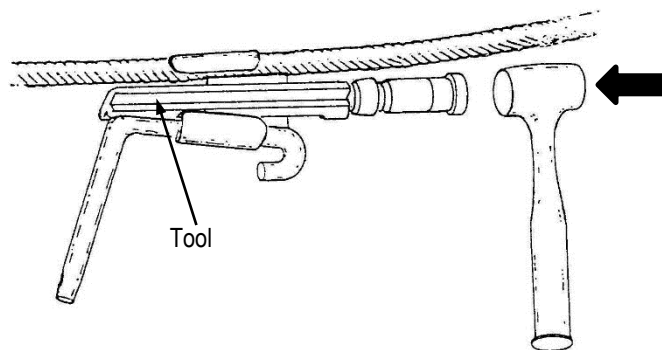


Figure 4

4. DISCONNECT PIGTAIL CONNECTOR 83471-1 (Live Line Connector)

4.1. Installation

1. Before installation ensure that the sliding wedge is secure in the connector body and moves easily on the thread.
2. Turn eyebolt counterclockwise until wedge bottoms against body.
3. Bolt the jumper cable terminal to the NEMA pad.



CAUTION

Installation torque not to exceed 54.2 Nm [40 ft-lb] for ½ inch silicone bronze hardware.

4. Using a hot stick, grip disconnect eyebolt, and secure disconnect assembly utilizing the stabilizing ribs as shown in Figure 5.

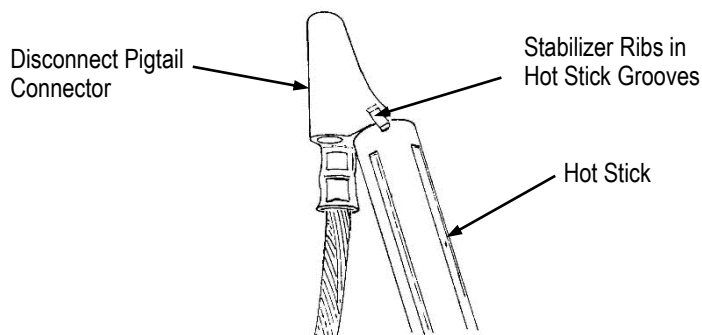


Figure 5

5. Push the disconnect assembly on to the jumper stud and release hot stick enough to disengage the stabilizing ribs. Turn the eyebolt clockwise to apply a torque of 22 Nm [16 ft. lbs]. See Figure 6.

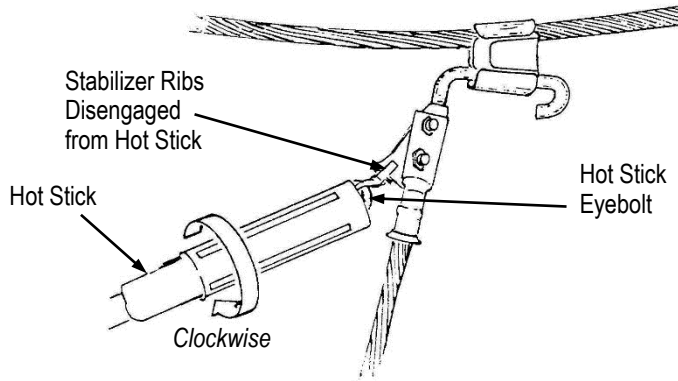


Figure 6

6. Figure 7, Illustrates optional configuration.

Optional Configuration

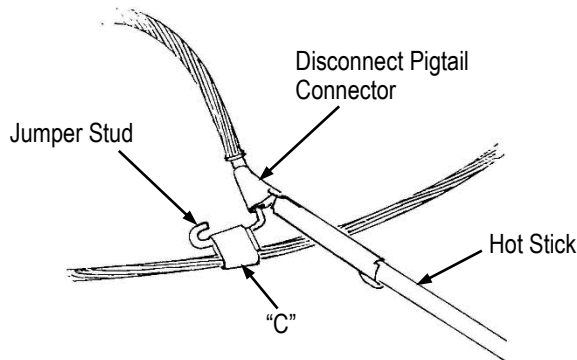


Figure 7

5. TOOL RETURN OR REPLACEMENT

Order tools through your TE Representative, or call 1-800-327-6996, or send a facsimile of your purchase order to 514-671-1525 or write to:

CUSTOMER SERVICE (038-035)
 TYCO ELECTRONICS CORPORATION
 PO BOX 3608
 HARRISBURG PA 17105-3608

In Canada, write to:

TYCO ELECTRONICS CANADA ULC
 20 ESNA PARK DR.
 MARKHAM, ONTARIO
 CANADA L3R 1E1

6. REVISION SUMMARY

- Updated document to corporate requirements
- Changed text in title and Section 1 – INTRODUCTION
- Added new table in Figure 2 and CAUTION note to Paragraph 4.1.3
- Updated text in Section 5