

MD3209 AND MD3208 CABLE TERMINAL TERMINATING CONDUCTORS

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1. GENERAL

1.01 This section describes the method of arranging plastic-insulated conductors for terminating in MD3209 and MD3208 Cable Terminals.

1.02 This section is revised to include the Term Assignable Count (AC), which supersedes the Term Preferred Count. It also includes a notation (Fig. 5) indicating that the insulation on 19 ga. cable conductors must be removed before using ®U.G. Scotchlok Bridging Connectors.

1.03 *The number of binding posts to be used within these terminals is restricted to a maximum of nine.*

1.04 *All binding post terminations must be made within the Assignable Count (AC) of the terminal.* The AC of a terminal is specified on the work order which places the terminal, and may only be changed by a subsequent engineering work order.

2. TERMINAL BLOCKS

2.01 The MD3209 and MD3208 Terminals are furnished with one QBN1C Terminal Block (Fig. 1) which supersedes the P18A782 Block. Each binding post of the QBN1C Block has a single 24-gauge Wire Tip Assembly attached. The top (tip) posts have white leads and the bottom (ring) posts have blue leads.

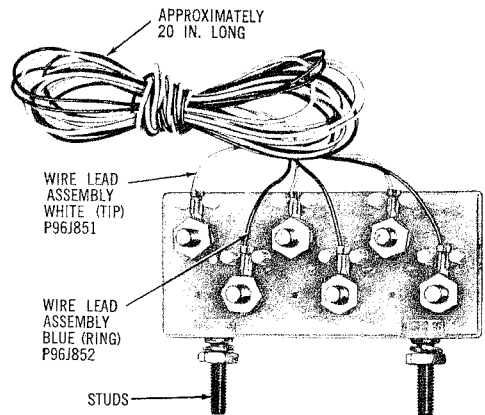


Fig. 1 – QBN1C Terminal Block

2.02 After the first three binding post connections have been made, an additional QBN-1C Terminal Block may be placed in the second mounting position. A third block may be added if binding posts 7 to 9 are required.

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2.03 No more than three terminal blocks will be mounted in any MD3209(49A) or MD3208(49B) terminal.

2.04 When mounting a terminal block, pierce the neoprene base visible in the mounting holes of the terminal and then work the studs of the block into the holes. Fasten securely with the nuts and lock washers provided.

3. WIRE LEAD ASSEMBLY

3.01 Spare wire leads may be ordered separately to replace broken or defective leads. The ordering information is as follows:

Assembly Lead Wire P-96J851-(white)

Assembly Lead Wire P-96J852-(Blue)

The leads will be supplied in pkgs. of six.

3.02 The conductors are 24-gauge PVC insulated wire equipped with a crimped terminal lug at one end (Fig. 3).

3.03 The lugs of the crimped wire tips are equipped with tabs which make the lugs captive to the binding posts when installed. The wire tips are installed on the binding posts as follows:

- (1) Remove the binding post nut and washers.
- (2) Select the wire tip of the appropriate colour coding; white for tip, and blue for ring.
- (3) Place the wire tip lug on the binding post with the tabs projecting outward, away from the terminal block face plate.
- (4) Place the binding post washer over the wire tip lug and firmly tighten the binding post nut. The pressure of the washer squeezes the lug tabs inward to engage the binding post threads.

4. PREPARING AND TERMINATING CONDUCTORS

4.01 The preferred method of joining the terminal block leads to the cable pairs assigned is with the SCOTCHLOK UG Bridging Connector. The use of UG Bridging Connectors eliminates

the need to cut the cable conductors, thereby reducing the possibility of open conductors beyond the terminal and also improving housekeeping in the terminal. Section 081-852-125 covers the de-

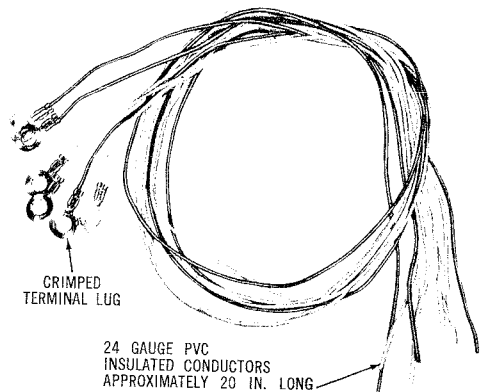
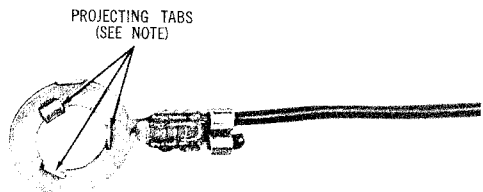


Fig. 2 — Wire Lead Assembly



NOTE:

PLACE LUG ON BINDING POST WITH FLAT SURFACE TOWARD TERMINAL BLOCK FACEPLATE AND TABS PROJECTING OUTWARD

Fig. 3 — Wire Lead Lug

scription and use of SCOTCHLOK connectors. (Do not cut cable pairs).

4.02 The conductors are prepared and terminated with SCOTCHLOK connectors as follows:

- (1) Separate the cable pairs assigned from the Assignable Count binder groups. Make certain that these pairs are not broken or damaged.

(2) Loop the terminal block leads from the binding posts through the wire retainer and back to the position where the bridge is to be made (Fig. 4).

(3) Bridge the tip and ring terminal block leads to the tip and ring conductors of the assigned cable pair using UG SCOTCHLOK connectors and Z Pressing Pliers (Fig. 5). When pressing the connector make certain that the green button is pressed flush with the surface of the clear plastic connector housing.

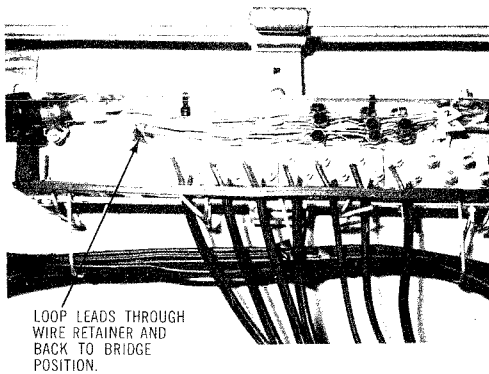


Fig. 4 — Bridging Binding Post Leads To Cable Conductors

(4) Stagger the positions of the UG Connectors. Fig. 6 shows the terminal block leads from binding position numbers 1 to 7 bridged to the cable conductors.

(5) As assignments are made, continue bridging the terminal block leads in the order of their binding post position numbers.

(6) Coil the unassigned binding post leads in the vacant space between the first terminal block and the left end of the terminal body.

Note: Insulation must be removed on 19 ga. cable conductors.

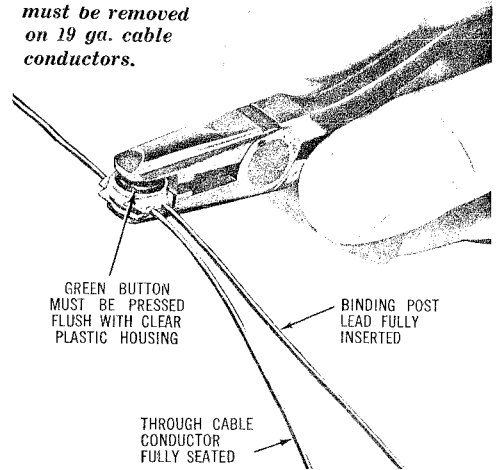


Fig. 5 — Pressing UG SCOTCHLOK Connector with Z Pressing Pliers

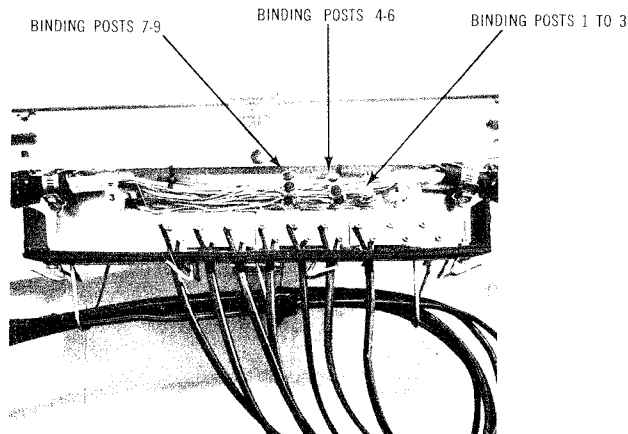


Fig. 6 — Binding Post Positions 1 to 7 Bridged to Cable Conductors

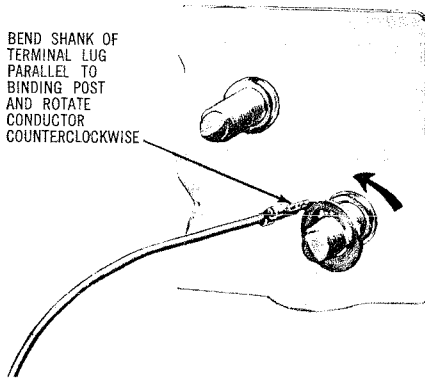


Fig. 7 — Removing Binding Post Leads

4.03 If replacement of wire leads become necessary, remove the old lead as illustrated in Fig. 7.

5. REARRANGEMENT

Scotchlok UG Connectors

5.01 When binding post leads already bridged to a cable pair with UG Connectors are to be reassigned to another cable pair, proceed as follows:

- (1) Cut the binding post leads as near as possible to the connectors. Do not attempt to *remove the connectors from the cable pair conductors.*
- (2) Separate the newly assigned cable pairs from the Assignable Count binder group. Make certain these pairs are not damaged.
- (3) Reconnect the binding post leads to the newly assigned cable pair (Para. 4.02).