M-19* MODULAR PANEL

1. GENERAL

1.01 This Section describes the physical and functional characteristics of the M-19 Modular Panel (see Fig. 1). General installation and maintenance information is also included.

1.02 Whenever this Section is reissued, the reason for reissue will be listed in this paragraph.

1.03 The M-19 is a wired terminal block and mounting panel designed for rapid installation of Melco tone, rotary or combination tone/rotary 19-station intercoms. Latest models of M-19 units are furnished with screw terminals on the underside for use with a Melco CA7 optional power cable assembly. The CA7 provides convenient plug-in connection to a W.E. Co. 79B1, 90B1 or a similar modular power supply using connectors and plugs.
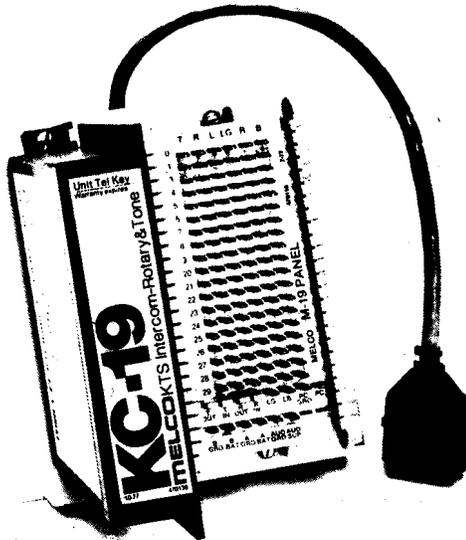

Fig. 1

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2. DESIGN FEATURES

2.01 The M-19 mounts on a backboard or relay rack. (See Fig. 2)

2.02 Connections to an intercom from the M-19 connecting block to the 50-pin ribbon connector are permanently provided through a printed circuit board.

2.03 The M-19 connecting block is labeled with pin designations. The connecting pins provide for expansion or testing.
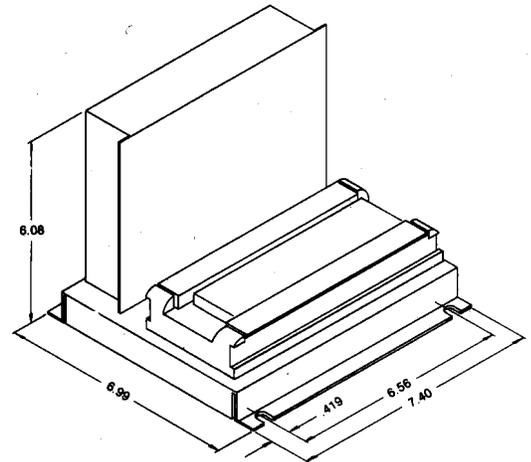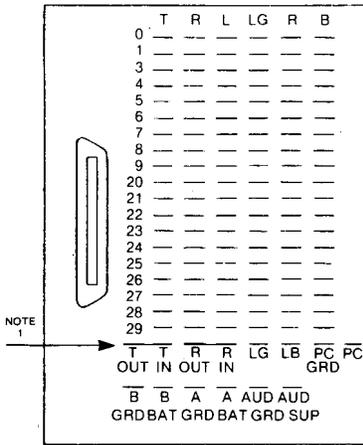

Fig. 2

3. INSTALLATION

3.01 Mount the M-19 on a backboard or relay rack.

3.02 Cross-connect T,R,L,LG,R() and B() to the station blocks. See Fig. 3 for M-19 terminal block assignments and pin connector and refer to BSP 518-215-911SW.

NOTES:
1. BRIDGING CLIPS CONNECT T IN & T OUT AND R IN & R OUT.

Fig. 3

3.03 Lead PC of the M-19 can be used as a
       locking path for an auxiliary circuit
such as paging. PC is closed to LG which
is factory wired to AUD GRD (and the AC GRD
screw terminal). Either the LG or AUD GRD
lead must be connected to the external lamp
supply ground except when the CA7 Power Cable
Assembly is used. (The AC GRD screw ter-
minal is connected to the power supply when
the CA7 is used.) Fig. 4 shows the under-
side of M-19 printed circuit board and screw
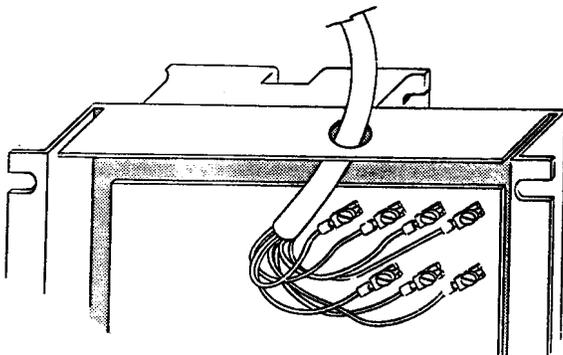connections for power cable.

Fig. 4

3.04 Connect LB, LG (or AUD GRD), AUD SUP,
       A GRD, A BAT, B GRD and B BAT from the
M-19 to the key system power supply. When
the CA7 Cable Assembly is used for power
connections, connect the CA7 conductors to
panel as shown in Fig. 5. Connect the
plug-end of the CA7 to W.E. Co. 79B1, 90B1

or a similar modular power supply. When the
CA7 is not used, conductors can be wired
either to the screw terminals or to the
appropriate pins on the M-19 connecting
block.

PLUG PIN	4	9	12	8
WIRE COLOR	ORN	BRN	GRN	BLK
SCREW POSITION & DESIGNATION ON UNDERSIDE OF M-19	LB ⊘	105 VAC AUD SUP NOTE 1 ⊘	A BAT ⊘	B BAT ⊘
		⊘ AC GRD	⊘ A GRD	⊘ B GRD
WIRE COLOR		BLU	WHT	RED
PLUG PIN		24	16	20

Fig. 5 Screw terminal positions
         and designations showing
         connection to power cable
         by wire color and plug pin.

CAUTION: This system is internally wired
for 105 VAC audible supply. If any other
audible supply is used, insulate and fold
back the brown (or red-black) audible supply
conductor of the CA7 Cable. If 10 VAC is
used, strap terminals AUD, SUP and LB on the
M-19 connecting block.

3.05 Plug the intercom into the M-19 con-
       nector and secure it with the screws
furnished.

3.06 Test the lamp and signaling operations
       for all intercom stations.

4.   MAINTENANCE

4.01 No provisions are made for field main-
       tenance or repair. If defective,
return the unit to the supplier for
servicing.

4.02 The M-19 is warranted against manufac-
       turing and material defects for 90
days. If it fails within the time, it will
be repaired or replaced at no charge.

5.   ORDERING GUIDE

5.01 Order the M-19 as follows:

(Qty) M-19 Modular Panel Optional:
(Qty) CA7-Power Cable Assembly