MC-9* COMBINATION INTERCOM (KTU) FOR TONE AND/OR ROTARY DIALING

1. GENERAL

1.01 This Section describes the physical and functional characteristics of the MC-9 Combination Intercom (KTU) shown in Fig. 1. The MC-9 requires tone and/or rotary dialing. 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 MC-9 is a nine-station, combination tone and/or rotary dialing, key system intercom. It provides station lamp control, bell (or buzzer) signaling and ringback tone. It is enclosed in a compact, plastic housing and mounts readily in an apparatus cabinet, on a backboard or in a relay rack. The MC-9 operates from a standard key system power supply.

2. DESIGN FEATURES

2.01 The MC-9 combination tone/rotary intercom:

(a) is compatible with 1A, 1A1, and 1A2 type key systems.

(b) can be used with tone or rotary dials, or with tone/rotary combinations.

(c) connects through its attached 2 X 10 connecting block.

(d) provides digits "2" through "0" for signaling stations, accessing auxiliary equipment and expanding the system.

(e) provides latching contacts to control paging or other auxiliary equipment.

(f) provides a ringing signal and ringback tone of approximately one second. Signaling can be prolonged by holding down the pad button.

(g) allows conference calling or repeated station signaling without reoperation of the telephone line-switch.

(h) operates from a standard key system power supply.

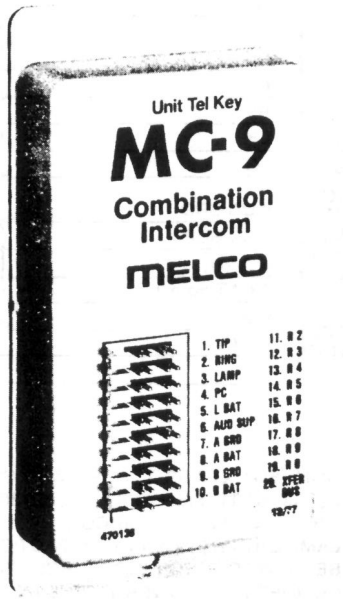

Fig. 1

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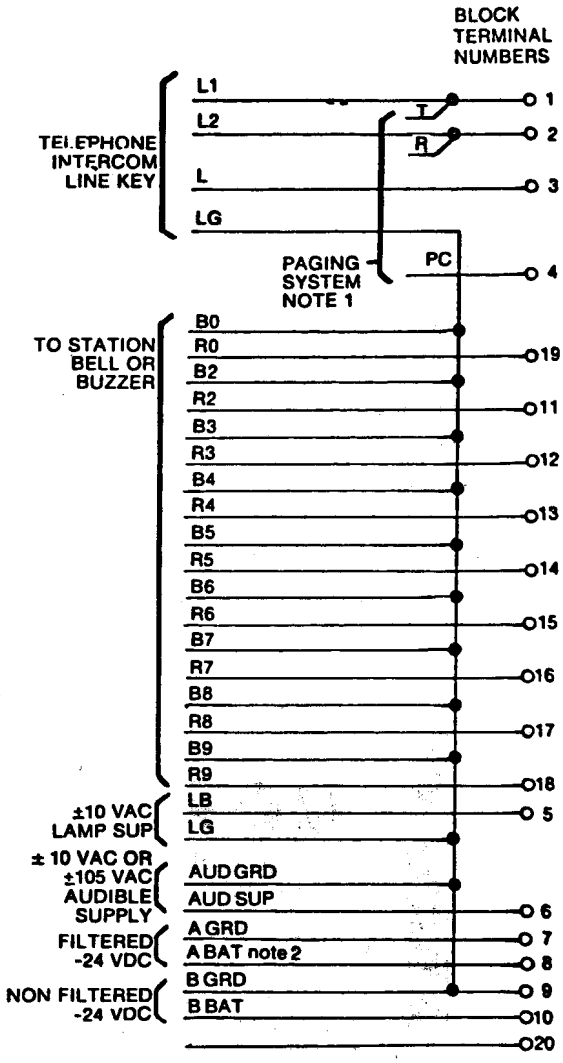
3. INSTALLATION

3.01 Mount the MC-9 and make the connections as shown in Figure 2. Connections to the "punch-down" block should be made with the unit on a flat surface. For systems with nine stations or less, wire T,R,L,LG and B in multiple at station blocks.



NOTES: 1. CONNECT LEADS T, R, PC AND SELECTED R( ) LEAD TO MELCO KT-363, KT-364, KA-380 OR OTHER PAGING CIRCUIT.
2. LAMP CIRCUIT LEADS AND LEAD PC SHOULD BE TESTED FOR SHORT CIRCUITS BEFORE CONNECTING POWER TO THE MC-9.

Fig. 2

3.02 Verify all station connections before connecting the MC-9 to the power supply. COMMON ALL GROUNDS.

3.03 Test all stations for correct lamp operation, bell or buzzer signaling, ringback tone and good transmission quality.

3.04 Paging, busy lamps, etc. can be latched or controlled by lead PC. Ground is connected to lead PC when the MC-9 is seized.

3.05 Applications schematic of MC-9 is shown in Fig. 3.

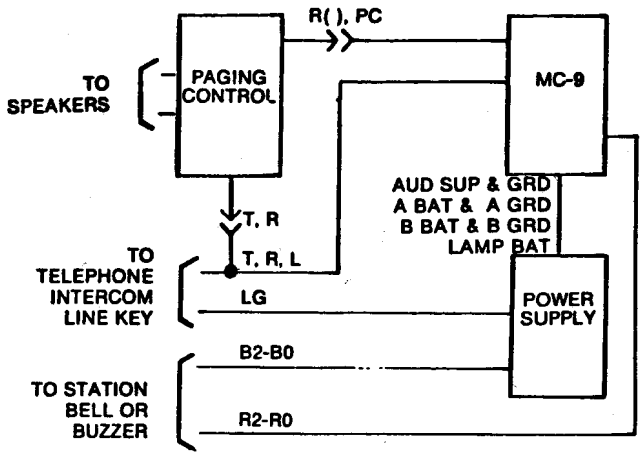


Fig. 3

4. MAINTENANCE

4.01 No provision is made for field adjustment or repair.

4.02 If the MC-9 does not function, verify connections and fuses.

4.03 If found defective, return the unit to your supplier.

5. SPECIFICATIONS

5.01 The following paragraphs list specifications for the MC-9.

5.02 Electrical

B BAT operating voltage.....-24VDCnom
-18 to -28V DC

current @ -24VDC.....idle: 84ma
operated: 160ma

Rotary dial parameters:
loop limit.....800 ohms
dial duty cycle.....40% to 80% break
dial speed.....8 to 12pps
interdigital time.....190 msec min
Touch-tone dial parameters:
loop limit.....750 ohms
input signal level.....-7 to +4dBm
bandwidth.....+2.0%
recognition time.....40 msec
interdigital time.....40 msec min
on-hook release time.....450 msec nom

Maximum output contact ratings:
PC.....30V DC, 0.5 amp
ringing signal...0.5 amp at 10V AC to
105V AC ringing supply
lamp.....10V rms, 60 HZ (AC only),
0.5 amps

Signaling period.....1.0 second nom

Operating temperature range.0° to 50° C
32° to 122° F

5.02 Mechanical

Dimensions:

base.....7.0" X 3.5"
cover.....3.5" X 5.75" X 1.0"

Mounting.....backboard, relay rack or
apparatus cabinet

Connections.....2 X 10, 66-type
"punch-down" block on unit

Housing.....plastic

Weight.....10oz

6. ORDERING GUIDE

6.01 Order the MC-9 Combination Intercom as follows:

(QTY) UNIT TEL KEY MC-9