STATION DIAL—1037B

IDENTIFICATION, CONNECTIONS, AND MAINTENANCE

1. GENERAL

1.01 This section contains information on the 1037B (MD) dial (Fig. 1).

1.02 This section is reissued to:

- Show 37B and 1037B dials rated MD

- Provide speakerphone connection information, Fig. 5.

- Show information contained in this section is retained for existing installations only.

1.03 The ◆1037B (MD) dial◀ is intended for use with any standard rotary dial telephone set to provide manual and automatic TOUCH-TONE® signaling.

1.04 The 1037B dial replaces the 1036E dial. The 1037B dial replaces and is the same as the F-58556 dial except the mounting cord and faceplate are available in only one color [Satin Silver (-87)].

1.05 The ◆1037B (MD)◀ dial uses 840360564 molded card or A-590456 machine punched card with the ◆37B (MD) card dial mechanism.◀

2. IDENTIFICATION

2.01 *Replaceable Components:*

- Cord, Mounting, D14M-87

- ◆Dial, 37B (MD)◀

- Network, 185A†

- (2) 840360564 Card Sets supplied with dial (40 cards) (or customer's machine punched card)
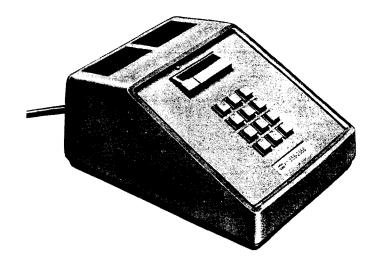
- ◆P-83E6* Housing Assembly (MD)◀

Fig. 1—◆1037B (MD) Dial◀

- ◆Faceplate, 2860A1-87 (MD)◀

- ◆P-26E165 Card Retainer (MD)◀

2.02 *Design Features:*

- Uses either codable or prepunched cards with rectangular holes

- TOUCH-TONE dial and card dialer combination

- Used with rotary set for end-to-end signaling

- Equipped with polarity guard to assure operation in case of line reversals, and for surge protection

- Common switch suitable for speakerphone operation (can be used with speakerphone

* Add appropriate color suffix from Table A.

‡ Shipped loose with 1037B dial.

TABLE A

COLOR ORDERING GUIDE

COLOR	SUFFIX
Black	—03
Ivory	—50
Green	—51
Red	—53
Yellow	—56
White	—58
Rose Pink	—59
Lt. Beige	—60
Lt. Gray	—61
Aqua Blue	—62
Turquoise	—64

only if the associated telephone set line switch contains three make contacts)

● Manual dialing while a card is in a stop position

● 2- and 4-wire operation of the associated telephone set.

2.03 *Application:* For use in conjunction with a standard rotary dial telephone set.

3. CONNECTIONS

3.01 Refer to Fig. 2 through 5 for typical connections to the dial.

4. MAINTENANCE

4.01 Maintenance is limited to checking all connections and replacement of the items listed under replaceable components.

If trouble is experienced with false signals being transmitted due to voice conversation pickup, use exclusion switch to provide for transmitter cuttoff. Connect the transmitter circuit through a contact of the exclusion switch so that the circuit is open when the exclusion switch is operated. Refer to Section 501-230-101 entitled, Telephone Sets Modified for Transmitter Cutoff Using Exclusion Switch, Identification and Connections.
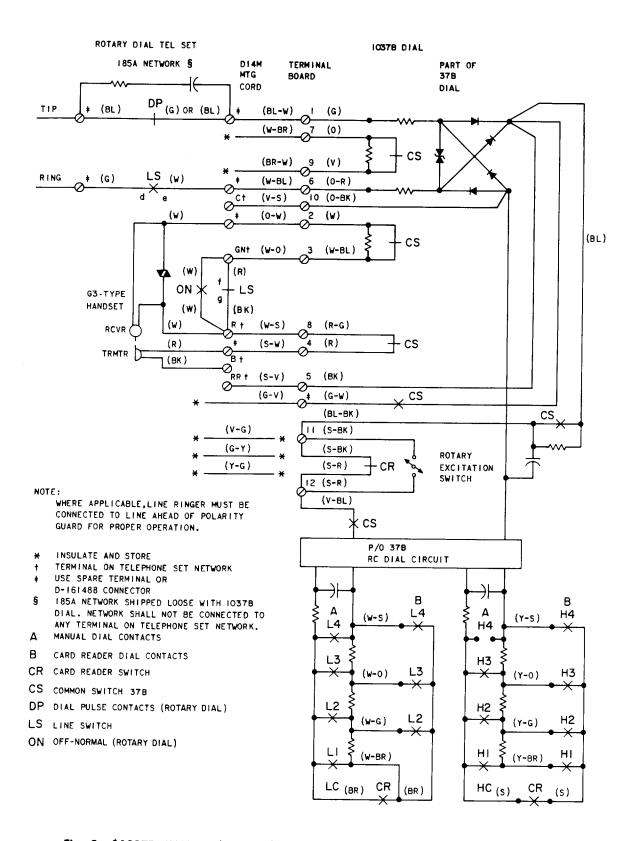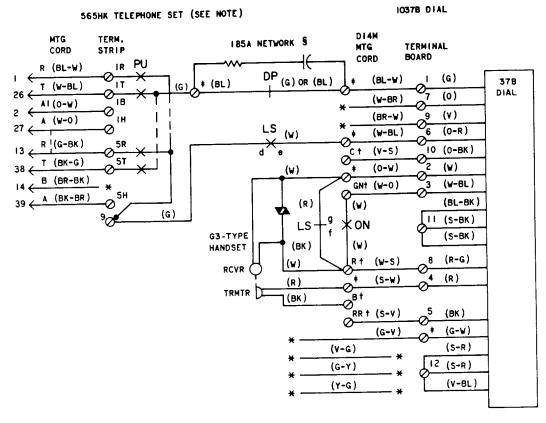
ROTARY DIAL TEL SET   1037B DIAL

185A NETWORK §

D14M MTG CORD	TERMINAL BOARD	PART OF 37B DIAL

TIP   † (BL)   DP (G) OR (BL) †   (BL-W)   1 (G)

(W-BR) 7 (O)

* (BR-W) 9 (V)   CS

RING   † (G)   LS (W)   d   e   * † (W-BL) 6 (O-R)

C† (V-S) 10 (O-BK)

(W)   † (O-W) 2 (W)

GN† (W-O) 3 (W-BL)   CS

(W) (R)

G3-TYPE HANDSET   ON ✕   f   g   LS

(W) (BK)

RCVR (W)   R† (W-S) 8 (R-G)

TRMTR (R)   † (S-W) 4 (R)   CS

(BK)   B†

RR† (S-V) 5 (BK)

* (G-V) † (G-W)   CS

(BL-BK)

* (V-G) *   11 (S-BK)

* (G-Y) *   (S-BK)

* (Y-G) *   (S-R)   CR   ROTARY EXCITATION SWITCH

12 (S-R)

(V-BL)

(BL)

CS ✕

✕ CS

P/O 37B RC DIAL CIRCUIT

NOTE:
     WHERE APPLICABLE, LINE RINGER MUST BE CONNECTED TO LINE AHEAD OF POLARITY GUARD FOR PROPER OPERATION.

*   INSULATE AND STORE
†   TERMINAL ON TELEPHONE SET NETWORK
‡   USE SPARE TERMINAL OR D-161488 CONNECTOR
§   185A NETWORK SHIPPED LOOSE WITH 1037B DIAL. NETWORK SHALL NOT BE CONNECTED TO ANY TERMINAL ON TELEPHONE SET NETWORK.
A   MANUAL DIAL CONTACTS
B   CARD READER DIAL CONTACTS
CR   CARD READER SWITCH
CS   COMMON SWITCH 37B
DP   DIAL PULSE CONTACTS (ROTARY DIAL)
LS   LINE SWITCH
ON   OFF-NORMAL (ROTARY DIAL)

A L4   (W-S)   B L4
L3   (W-O)   L3
L2   (W-G)   L2
L1   (W-BR)
LC (BR)   CR (BR)

A H4   (Y-S)   B H4
H3   (Y-O)   H3
H2   (Y-G)   H2
H1   (Y-BR)   H1
HC (S)   CR (S)

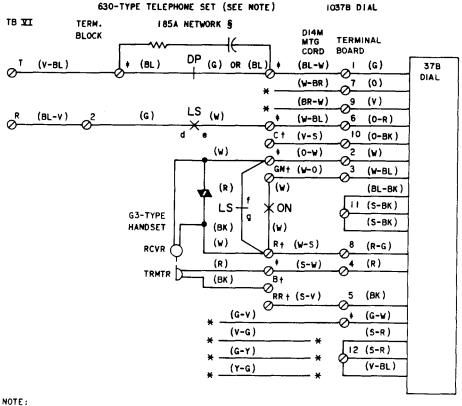**Fig. 2—1037B (MD) Dial, Typical Connections to Nonkey Telephone Set**

NOTE:
    MODIFY 565HK TELEPHONE SET AS FOLLOWS:
        (A) REMOVE (W) LINE SWITCH LEAD FROM C OF NETWORK AND CONNECT TO (W-BL) LEAD OF DIAL.
        (B) REMOVE (G) KEY LEAD FROM F OF NETWORK AND CONNECT TO (BL) ROTARY DIAL LEAD AND
            LEAD FROM 185A NETWORK.
        (C) REMOVE (G OR BL) ROTARY DIAL LEAD FROM RR OF NETWORK AND CONNECT TO (BL-W)
            DIAL LEAD AND LEAD FROM 185A NETWORK.
        (D) REMOVE (R) LINE SWITCH LEAD AND (W) HANDSET LEAD FROM GN OF NETWORK AND CONNECT
            TO (O-W) LEAD OF DIAL.
        (E) REMOVE (R) HANDSET LEAD FROM R OF NETWORK AND CONNECT TO (S-W) LEAD OF DIAL.
        (F) CONNECT BALANCE OF DIAL LEADS AS SHOWN.

*   INSULATE AND STORE
†   TERMINAL ON TELEPHONE SET NETWORK
‡   USE SPARE TERMINAL OR D-161488 CONNECTOR
§   185A NETWORK SHIPPED LOOSE WITH 1037B DIAL. NETWORK SHALL NOT BE CONNECTED TO ANY
    TERMINAL ON TELEPHONE SET NETWORK.

DP DIAL PULSE CONTACTS

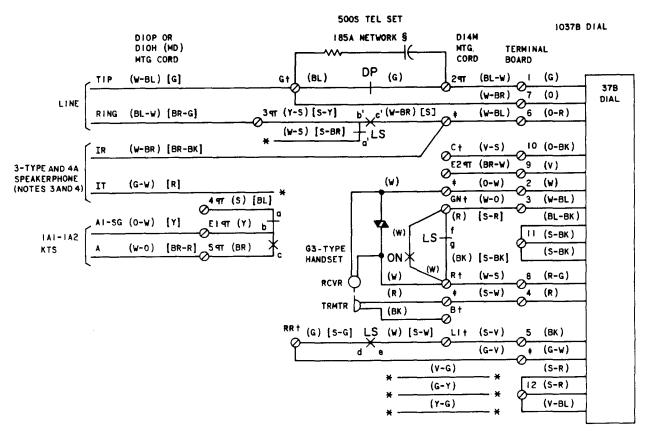LS LINE SWITCH

ON OFF-NORMAL (ROTARY DIAL)

PU PICKUP KEY

Fig. 3—▶1037B (MD) Dial, Connections to 565HK Telephone Set◀

NOTE:

MODIFY 630-TYPE TELEPHONE SET AS FOLLOWS:
(A) REMOVE (W) LINE SWITCH LEAD FROM C OF NETWORK AND CONNECT TO (W-BL) LEAD OF DIAL.
(B) REMOVE (BL) ROTARY DIAL LEAD AND (V-BL) STRAP FROM F OF NETWORK AND CONNECT TO LEAD OF 185A NETWORK.
(C) REMOVE (G) OR (BL) ROTARY DIAL LEAD FROM RR OF NETWORK AND CONNECT TO (BL-W) DIAL LEAD AND LEAD FROM 185A NETWORK.
(D) REMOVE (R) LINE SWITCH LEAD AND (W) HANDSET LEAD FROM GN OF NETWORK AND CONNECT TO (O-W) LEAD OF DIAL.
(E) REMOVE (R) HANDSET LEAD FROM R OF NETWORK AND CONNECT TO (S-W) OF DIAL.
(F) CONNECT BALANCE OF DIAL LEADS AS SHOWN.

* INSULATE AND STORE
† TERMINAL ON TELEPHONE SET NETWORK
‡ USE SPARE TERMINAL OR D-161488 CONNECTOR
§ 185A NETWORK SHIPPED LOOSE WITH 1037B DIAL. NETWORK SHALL NOT BE CONNECTED TO ANY TERMINAL ON TELEPHONE SET NETWORK.
DP DIAL PULSE CONTACTS
LS LINE SWITCH
ON OFF-NORMAL (ROTARY DIAL)

Fig. 4—◆1037B (MD) Dial, Connections to 630-Type Telephone Set◀

NOTES:

1. MODIFY 500S TELEPHONE SET AS FOLLOWS:
   - (A) REMOVE (W) [S-W] LINE SWITCH LEAD FROM RR OF NETWORK AND CONNECT TO L1 OF NETWORK. ALSO CONNECT (S-V) DIAL LEAD TO L1 OF NETWORK.
   - (B) REMOVE (G) [S-G] LINE SWITCH LEAD FROM E2 OF TERMINAL STRIP AND CONNECT TO RR OF NETWORK.
   - (C) REMOVE (W-BR) [S] LINE SWITCH LEAD FROM C OF NETWORK AND CONNECT TO (W-BL) LEAD OF DIAL.
   - (D) REMOVE (W-S) [S-BR] LINE SWITCH LEAD FROM 2 OF TERMINAL STRIP, INSULATE AND STORE.
   - (E) REMOVE (BL) ROTARY DIAL LEAD FROM F OF NETWORK AND CONNECT TO G OF NETWORK.
   - (F) REMOVE (G) ROTARY DIAL LEAD FROM E2 AND CONNECT TO 2 OF TERMINAL STRIP.
   - (G) REMOVE (W) HANDSET LEAD FROM GN OF NETWORK AND CONNECT TO (O-W) DIAL LEAD.
   - (H) REMOVE (R) HANDSET LEAD FROM R OF NETWORK AND CONNECT TO (S-W) DIAL LEAD.
2. CONNECT BALANCE OF DIAL LEADS AS SHOWN.
3. REFER TO SECTION 512-620-410 OR 512-710-405 TO CONNECT BALANCE OF 3-TYPE OR 4A SPEAKERPHONE LEADS, RESPECTIVELY.
4. SET DIAL CANNOT BE USED WITH SPEAKERPHONE IN AN ON-HOOK POSITION.

( ) CURRENT COLOR CODE
[ ] MD COLOR CODE
* INSULATE AND STORE
† TERMINAL ON TELEPHONE SET NETWORK
‡ USE SPARE TERMINAL OR D-161488 CONNECTOR
§ 185A NETWORK SHIPPED LOOSE WITH 1037B DIAL. NETWORK SHALL NOT BE CONNECTED TO ANY TERMINAL ON TELEPHONE SET NETWORK
⊤⊤ TERMINAL ON TELEPHONE SET TERMINAL STRIP

DP DIAL PULSE CONTACTS

LS LINE SWITCH

ON OFF-NORMAL (ROTARY DIAL)

Fig. 5—1037B (MD) Dial, Connections to 500S Telephone Set With Speakerphone