

3A COMMUNICATION SYSTEM (HOSPITAL INTERPHONE) IDENTIFICATION

1. GENERAL

1.01 This section is reissued to:

- Show list numbers for 12-button TOUCH-TONE® dial
- Show the M2ER nurse call cord replacement
- Show 35C3A dial recommended to replace 25Y3 dial
- Show 2220B hand telephone set recommended to replace 1220A hand telephone set

2. PURPOSE

- Intercommunication system between nurse's position and up to 40 patient stations used in conjunction with a hospital's PBX or Centrex system.
- Fig. 1 shows a block diagram of the 3A communication system.

3. ORDERING GUIDE

- Tables A, B, and C provide ordering information for the various components of the 3A communication system.

4. COLOR

- Nurse control console, patient telephone set, and associated components are available in colors specified in Tables A and B.
- Equipment cabinet (J53038A-1, List 1 and List 2) available in two-tone gray only.

5. DESIGN FEATURES

- Patient-to-nurse or nurse-to-patient signaling with option of hands-free or handset operation.

- Access to CO, PBX, or Centrex lines at console using either handset or speakerphone, if provided.

- Access to CO, PBX, or Centrex lines at patient station, using handset only.

- Audible and visual signaling at 60 ipm on patient-to-nurse calls (NURSE pushbutton).

- Continuous audible and 120 ipm visual signaling on emergency patient-to-nurse calls (if customer-owned emergency key is provided).

- Line seizure tone when control console connects to system.

- Privacy feature at patient station.

- Automatic selection and answering of patient calls from optional remote answering stations, if provided.

5.01 The following features are available on an option basis:

- Connection to customer-owned door lamps and relays.

- Connection to customer-owned emergency key.

- OFF position on patient ringer volume control.

- Message waiting lamp at patient station.

- Data jack at patient station.

- Speakerphone at nurse console.

6. APPLICATION

- Used as an adjunct to customer's PBX or Centrex system.

NOTES:

- ONE REMOTE STATION CONTROL UNIT CAN BE CONNECTED TO DISTRIBUTION TERMINAL CONTROL UNITS FOR ADDITIONAL REMOTE STATIONS ARE CONNECTED TO STATION, PAIRS REQUIRED ARE CORRESPONDINGLY REDUCED.
- REQUIRED IF SPEAKERPHONE OPTION IS PROVIDED, MUST BE ORDERED SEPARATELY.

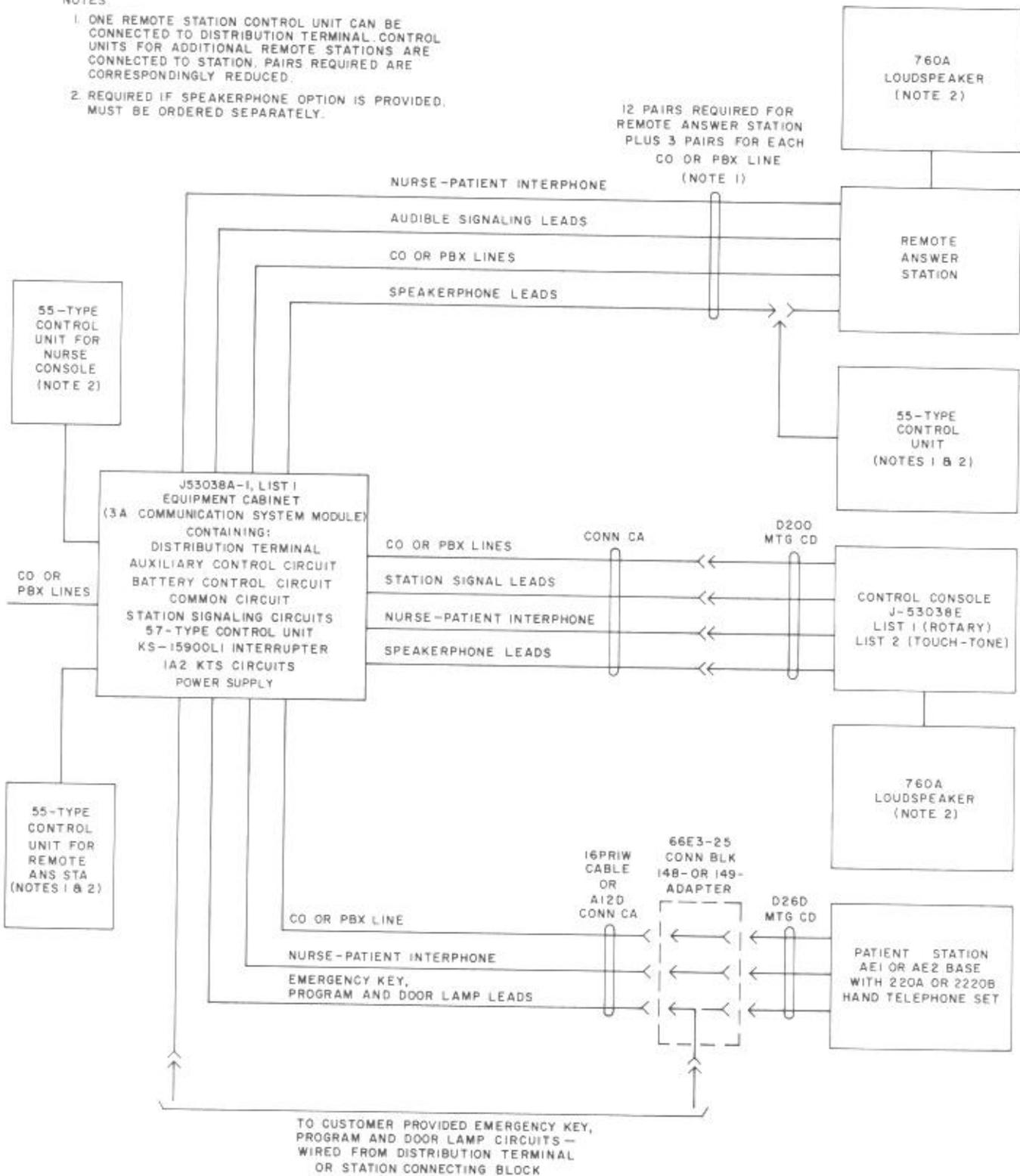


Fig. 1—Block Diagram - 3A Communication System

TABLE A

ORDERING GUIDE FOR CONTROL CONSOLE (FIG. 2 AND 3)

EQUIPMENT	DESCRIPTION																						
J53038E, List 1	Control console baseplate and key shelf equipped with: rotary dial; one 645D key for line pickup, hold, and auxiliary signaling; two J53038E, List 3 keys for 20 interphone station lines; network; line switch; P1A ringer; two sheets of P-49K048 designation strips; two P-49K259 apparatus blanks; and 673A transmitter unit.																						
J53038E, List 2	Same as List 1 except equipped with TOUCH-TONE dial.																						
J53038E, List 3	Ten button, nonlocking, illuminated 645C key module. One List 3 must be ordered separately for each ten additional interphone stations.																						
ED-1E023-50	<p>Housing for control console. Must be ordered separately and by group number for desired color as follows:</p> <table data-bbox="687 935 1430 1010"> <tr> <td>Moss Green</td> <td>GR-1</td> <td>Light Beige</td> <td>GR-3</td> </tr> <tr> <td>White</td> <td>GR-2</td> <td>Light Gray</td> <td>GR-4</td> </tr> </table>	Moss Green	GR-1	Light Beige	GR-3	White	GR-2	Light Gray	GR-4														
Moss Green	GR-1	Light Beige	GR-3																				
White	GR-2	Light Gray	GR-4																				
ED-1E010-50	<p>Faceplate assembly for control console. Must be ordered separately and by group number for coordinated color and type of dial as follows:</p> <table data-bbox="635 1177 1485 1393"> <thead> <tr> <th rowspan="2">Color of Housing</th> <th rowspan="2">Rotary Dial</th> <th>25Y3</th> <th>35C3A</th> </tr> <tr> <th>TOUCH-TONE Dial</th> <th>TOUCH-TONE Dial</th> </tr> </thead> <tbody> <tr> <td>Moss Green</td> <td>GR-1</td> <td>GR-5</td> <td>GR-21</td> </tr> <tr> <td>White Gray</td> <td>GR-2</td> <td>GR-6</td> <td>GR-22</td> </tr> <tr> <td>Light Beige</td> <td>GR-3</td> <td>GR-7</td> <td>GR-23</td> </tr> <tr> <td>Light Gray</td> <td>GR-4</td> <td>GR-8</td> <td>GR-24</td> </tr> </tbody> </table>	Color of Housing	Rotary Dial	25Y3	35C3A	TOUCH-TONE Dial	TOUCH-TONE Dial	Moss Green	GR-1	GR-5	GR-21	White Gray	GR-2	GR-6	GR-22	Light Beige	GR-3	GR-7	GR-23	Light Gray	GR-4	GR-8	GR-24
Color of Housing	Rotary Dial			25Y3	35C3A																		
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645A Key (A&M Only)	Ten button, nonlocking, illuminated key module used in early production J53038E, List 3 modules. Available for use in addition and maintenance of early production consoles. Cannot be intermixed with current production key modules.																						
645B Key (A&M Only)	Ten button, illuminated key module used in early production consoles to provide line pickup, hold, and auxiliary signals. Available for use in addition and maintenance of early production consoles only. Cannot be used with current production key modules.																						

TABLE A (Cont)

ORDERING GUIDE FOR CONTROL CONSOLE (FIG. 2 AND 3)

EQUIPMENT	DESCRIPTION
G3AR Handset	Must be ordered separately and color designated as follows: -51 Green; -58 White; -60 Beige; -61 Gray.
8C Dial	Rotary dial used with J53038E, List 1 console.
35C3A Dial	TOUCH-TONE dial used with J53038E, List 2 console. 35C3A dial is recommended to replace 25Y3 dial.
P-49K259 Apparatus Blank	Used to fill space in console faceplate when J53038E, List 3 key module is removed.
D200L Mounting Cord	Plug-ended cord to plug direct into console and connector cable. 8-ft long. Must be ordered separately (when required) and desired color designated as follows: -51 Green; -58 White; -60 Beige; -61 Gray. Can be used with A100C connector cable.
A100C Connector Cable	Available in 50, 100, or 200-ft lengths. Plug-ended at one end to accept D200L mounting cord and raw-ended on equipment cabinet end. Order separately.
A100F Connector Cable	Available in required length up to 100 ft. Plug-ended to plug direct into console and raw-ended on other end for equipment cabinet terminations. Must be ordered separately.
55-Type Control Unit	Control unit for 3-type speakerphone option when provided. A separate control unit must be ordered for console and each remote answering station equipped for speakerphone. A separate power supply (ie. 2012B transformer or equivalent) must be ordered for each control unit. Order separately as follows: 55A for Rotary dial consoles only. 55B for Rotary or TOUCH-TONE dial consoles.
D-180006 Kit of Parts	Required to modify 55-type control unit to limit its output. One kit required for each control unit. Must be ordered and installed separately. See Section 512-535-201 for details.
760A Loudspeaker	Loudspeaker for speakerphone service. Must be ordered separately when required. Specify color.

TABLE B
ORDERING GUIDE FOR PATIENT TELEPHONE SET (FIG. 4)

EQUIPMENT	DESCRIPTION
AE1* Telephone Base	Telephone base for patient telephone set. Furnished with: one 6 ft M2ER nurse call cord; P-21F291 (bedding) clamp; and one loose 53A lamp.
AE2* Telephone Base	Same as AE1 except equipped with a message waiting lamp.
220A* Hand Telephone Set	Standard rotary dial TRIMLINE handset. Available in same colors as telephone base. A hand telephone set must be ordered separately for each telephone base. Can be used with either AE1 or AE2 telephone base.
2220B* Hand Telephone Set	Same as 220A hand telephone set except equipped with TOUCH-TONE dial. 2220B hand telephone set is recommended to replace 1220A hand telephone set.
M2ER* Nurse Call Cord	Available in 6- or 11-ft lengths and in same colors as telephone base. One must be ordered separately if two cords are required at a patient's telephone set. <i>All cords manufactured prior to 11-68 should be replaced.</i>
P-21F291 Clamp	Used to fasten nurse call cord to patient's bedding. Must be ordered in same quantity as separately ordered M2ER nurse call cords.
D-180032 Kit of Parts	Installed locally to provide optional data jack in AE1 or AE2 telephone base. Must be ordered separately.
A12D Connector Cable	12-pair cable to connect patient telephone set to equipment cabinet. Available double-plug-ended in 30-, 80-, 100-, and 200-foot lengths, and single-plug-ended in 13-, 50-, and 100-foot lengths.

*Specify color — available in:

- | | |
|-----------------|----------------|
| -51 Green | -61 Light gray |
| -58 White | -62 Aqua blue |
| -60 Light beige | -64 Turquoise |

7. OPERATING FEATURES

(a) Nurse Control Console:

- (1) PATIENT INTERPHONE—places console in interphone mode.
- (2) ON-OFF-VOL—controls for 3-type speaker-
phone.

(3) REMOTE ANSWER OFF-ON—turnbutton audible signal transfer key when remote answer option is provided.

(4) PATIENT CALL LO-HI—patient call volume control.

(b) Patient Telephone Set:

- (1) NURSE—red pushbutton used to signal nurses console of request for attention.

- (2) PRIVATE—pushbutton used to cutoff transmitter in patient set. Room conversation cannot be monitored at nurse console. Nurse can be heard from loudspeaker in patient set.
- (3) NORMAL—pushbutton used to release PRIVATE pushbutton and restore set to normal interphone operation.
- (4) Bell System Seal—pushbutton nurse call button release. Used to cancel NURSE call from patient set.

- (5) Recall switch—small rectangular pushbutton located below dial of dial-in-handset. Used to break line circuit and obtain dial tone without returning handset to base.

8. ASSOCIATED APPARATUS OR EQUIPMENT

- 2012B Transformer—used to supply power to 55-type control unit. One required for each control unit provided.
- 55-type Control Unit—control unit for 3-type speakerphone. Use 55A for 3A speakerphone; 55B for 3B speakerphone.

TABLE C

ORDERING GUIDE FOR EQUIPMENT CABINET (FIG. 5)

EQUIPMENT	DESCRIPTION
J53038A-1, List 1	Equipment cabinet fully wired to accept up to 40 interphone station line circuit packs. Furnished with either a J86731D, List 1 (101G) or 19C1 power supply; 57B control unit; KS-15900, List 1 interrupter; three J53038B, List 1 (patient station) cardholders; one J53038C, List 1 (common circuit) cardholder; and circuit packs AE1, AE2, and AE4. The interrupter and three circuit packs are shipped loose. Order AE3 circuit packs separately as indicated below.
J53038A-1, List 4	Cover assembly for cabinet. Must be ordered separately.
AE3 Circuit Pack	Interphone (patient) station line circuit pack. One required for each interphone station (maximum of 40 per equipment cabinet). Must be ordered separately.
J53038A-1, List 2	Unit required for installation in List 1 equipment cabinet to provide up to four 1A2 key telephone system CO or PBX line terminations at nurses control console. Includes a KS-19175, List 1 interrupter (shipped loose). One 400-type KTU per CO or PBX line must be ordered separately.

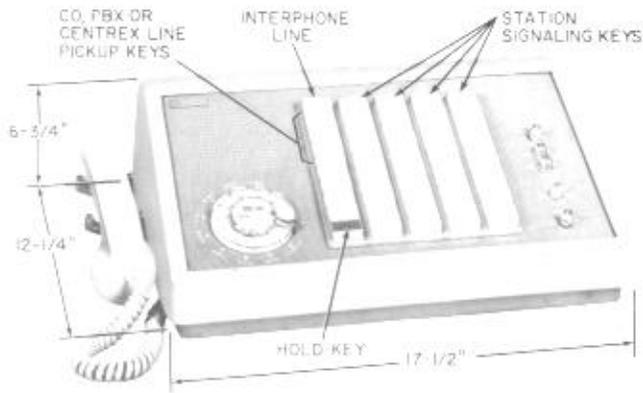


Fig. 2—J53038E, List 1 Console (Rotary Dial)

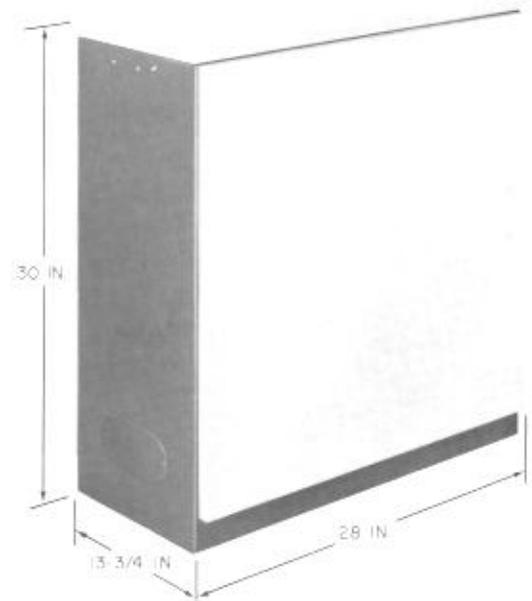


Fig. 5—Equipment Cabinet, 3A Communication System



Fig. 3—J53038E, List 2 Console (TOUCH-TONE) With 760A Loudspeaker for Speakerphone

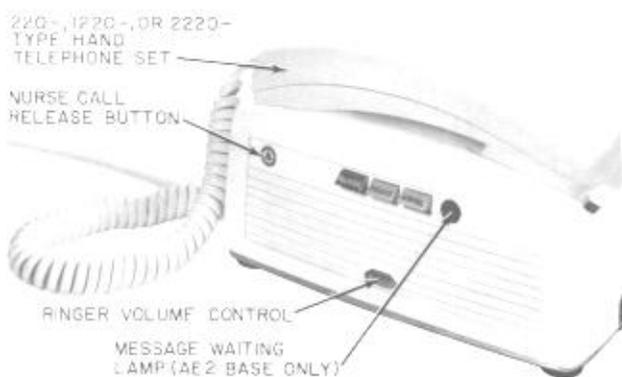


Fig. 4—Patient Telephone Set With AE2 Base