

J53051B EQUIPMENT BAY

1P2 KEY TELEPHONE SYSTEM

IDENTIFICATION AND INSTALLATION

1. GENERAL

1.01 This section provides information for ordering and installing bay mounted 1P2 Key Telephone System Equipment, used with PICTUREPHONE® service.

1.02 The 400- and 600-type KTUs used in these arrangements are described in Sections 518-215-125 and 518-800-105, respectively.

2. IDENTIFICATION

PURPOSE

To provide rack mounting of KTUs and associated equipment, for 1P2 KTS, single group and multigroup lines for PICTUREPHONE service as follows:

- Single group, one (CO, Centrex, or PBX) audio/video line with add-on conference
- Single group, two (CO, Centrex, or PBX) audio/video lines with add-on conference
- Multigroup, one (CO, Centrex, or PBX) audio/video line with access to nine groups of stations

ORDERING GUIDE

(a) *J53051B, List 1 consists of:*

- Relay rack (7 ft.) for mounting equipment (Fig. 1, 2, and 3)
- Four carriers equipped with 914-type connectors four mounting 400- and 600-type KTUs
- Associated cabling equipped with KS-16671, List 1 plugs (13)

- Three 66B3-50 connecting blocks
- Two 189A mounting plates each equipped with 18A fuse blocks
- Two duplex receptacles and one junction box (for commercial power).

(b) *Separately ordered apparatus required for single group, one (CO, Centrex, or PBX) audio/video line with add-on conference. (See Fig. 1 for location in carrier.)*

- Unit, Telephone, Key, 600A (line circuit)
- Unit, Telephone, Key, 601A (video switch, two circuits per unit)
- Unit, Telephone, Key, 606A (common-half cable equalizer)
- Unit, Telephone, Key, 607A (control-half cable equalizer)
- Unit, Telephone, key 412A (auxiliary relay circuit, lamp synchronization)
- Unit, Telephone, Key, 417A (conference unit)
- Interrupter, KS-15900, List 1 (one per bay, mounted in carrier 1 only)
- Unit, Power, 51C1 (equipped with a P-40J328 cord, one per carrier)

● Fuses as required. See Table A.

(c) *Separately ordered apparatus required for single group, two (CO, Centrex, or PBX) audio/video lines with add-on conference. (See Fig. 1 for location in carrier.)*

- Unit, Telephone, Key, 600A (2) (line circuit)
- Unit, Telephone, Key, 601A (video switch, two circuits per unit)
- Unit, Telephone, Key, 606A (2) (common-half cable equalizer)
- Unit, Telephone, Key, 607A (2) (control-half cable equalizer)
- Unit, Telephone Key, 412A (auxiliary relay circuit, lamp synchronization)
- Unit, Telephone, Key, 417A (conference unit)
- Interrupter, KS-15900, List 1 (one per bay, mounted in carrier 1 only)
- Unit, Power 51C1 (equipped with a P-40J328 cord, one per carrier)
- Fuses as required. See Table A.

(d) ***Separately ordered apparatus required for multigroup, one (CO, Centrex, or PBX) audio/video line with access to nine groups of stations. (See Fig. 1 for location in carrier.)***

- Unit, Telephone, Key, 600A (line circuit)
- Unit, Telephone, Key, 602A (common control and Group 1 switching circuit)
- Unit, Telephone, Key, 603A (4) (group switching circuit, two circuits per unit)
- Unit, Telephone, key, 606A (common-half cable equalizer)
- Unit, Telephone, Key, 607A (control-half cable equalizer)
- Unit, Telephone, key, 412A (auxiliary relay circuit, lamp synchronization)
- Interrupter, KS-15900, List 1 (one per bay, mounted in carrier 1 only)
- Unit, Power 51C1 (equipped with a P-40J328 cord, one per carrier)
- Fuses as required. See Table A.

(e) ***Separately ordered apparatus required with stations in priority order within each group of a multigroup arrangement. (See Fig. 1 for location in carrier.)***

- Unit, Telephone, Key, 601A (video switch, one per two stations for priority arrangement)

(f) ***Designation strips for carrier positions in the J53051B equipment bay must be ordered separately by Component Identification Number (COMCODE). Order as follows:***

- Strip designation for single group, lines 1 and 2—COMCODE 840244198
- Strip designation, for single group, lines 3 and 4—COMCODE 840244206
- Strip designation, for multigroup, line 1 with associated nine station groups—COMCODE 840244214
- Strip designation for multigroup, line 2 with associated nine station groups—COMCODE 840244222.

Note: There may be a requirement to mount some KTUs external to the J53051B equipment bay. To fulfill this requirement, use 69-type apparatus mountings (Section 518-215-120) or equivalent, mounted on standard 23-inch mounting facility, such as 99A brackets, and placed in an apparatus mounting such as the 16C shown in Section 463-140-100.

3. INSTALLATION

3.01 Secure the J53051B, List 1 bay to the surface it is resting on, with appropriate hardware. Secure to other relay racks or overhead cable racks if available. Division 080 lists hardware for various types of mounting surfaces.

3.02 Cabling for the J53051B bay (Fig. 2) should be fastened to the rear top right corner of the bay, run along the rear side of the top rail and fanned out to the KS-16671, List 1 plug as required.

3.03 An electrical junction box is furnished at the rear top left corner of the bay for terminating the customer-provided commercial power conduit, and splicing the 110-117 volt 60 Hz ac power wires.

CARRIER POSITION 1 EQUIPPED FOR 2 SINGLE GROUP LINES AND ADD ON CONFERENCE

J1A	J2A	J3	J4	J5	J6	J7	J8	J9A	J10	J11	J12	J13	J14
KS-15900, LI INTERRUPTER		600A KTU		607A KTU		606A KTU		601A KTU	600A KTU		607A KTU		606A KTU
J1B	J2B							J9B					
412A KTU								417A KTU					

CARRIER POSITION 2 EQUIPPED FOR 2 SINGLE GROUP LINES AND ADD ON CONFERENCE

J1A	J2A	J3	J4	J5	J6	J7	J8	J9A	J10	J11	J12	J13	J14
		600A KTU		607A KTU		606A KTU		601A KTU	600A KTU		607A KTU		606A KTU
J1B	J2B							J9B					
412A KTU								417A KTU					

CARRIER POSITIONS 3 AND 4 EQUIPPED FOR MULTI GROUP LINES 1 AND 2 RESPECTIVELY

J1A	J2A	J3	J4	J5	J6	J7	J8	J9A	J10	J11	J12	J13	J14
		600A KTU		607A KTU		606A KTU		601A KTU	602A KTU	603A KTU (2-3)	603A KTU (4-5)	603A KTU (6-7)	603A KTU (8-9)
J1B	J2B							J9B					
412A KTU								601A KTU					

Fig. 1—KTU Equipment Locations in Carrier Positions of the J53051B Equipment Bay

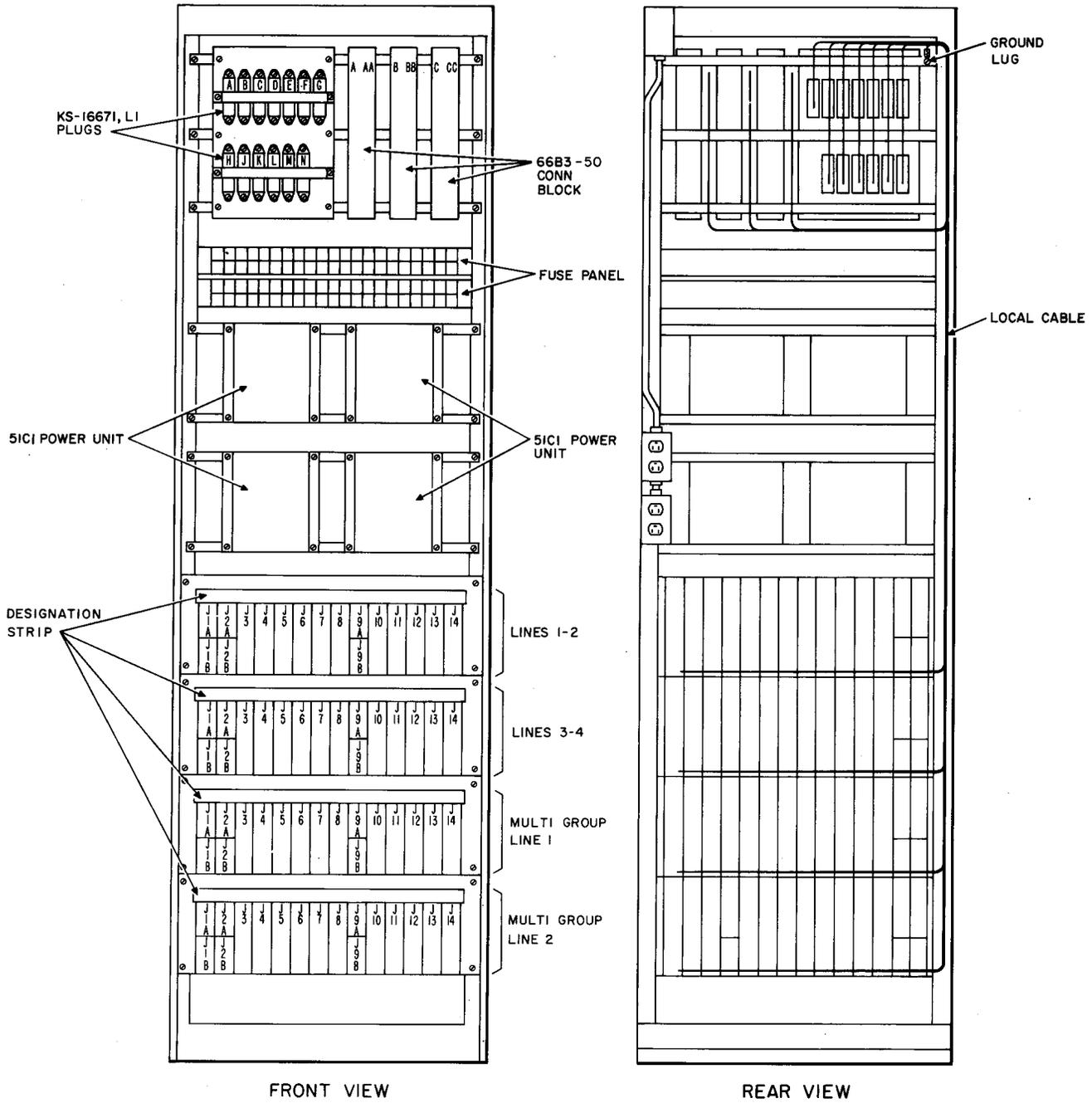


Fig. 2—J53051B Equipment Bay

Note: The ac power should be wired to a separate fuse or circuitbreaker, not under control of a switch.

3.04 Power wiring is furnished from the junction box, via 3/8" conduit, to two duplex receptacles located on the rear left side of the bay at the power supply level.

3.05 The P-40J328 power supply cord is 4 feet in length. Dress as required.

3.06 The J53051B bay must be electrically grounded by a separately run 14-gauge ground wire to an approved ground. A ground lug is provided at the top right rear of the bay.

3.07 Fusing arrangements for each of the four carriers are shown in Table A. Fuses must be ordered separately to replace the dummy fuses furnished.

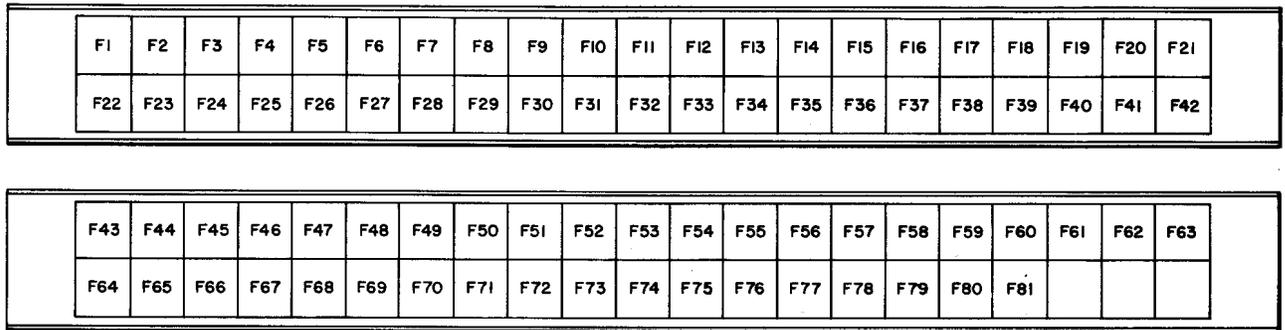


Fig. 3—Fuse Panel

TABLE A

1P2 KTS J53051B BAY FUSE ARRANGEMENT

NO. REQ'D	CODE	FUSE RATING	BEAD COLOR	FUSE NUMBER			
				CARRIER 1	CARRIER 2	CARRIER 3	CARRIER 4
8	70C	3 Amp	BLUE	2,3	23,24	44,45	63,64
64	70A	1-1/3 Amp	WHITE	6 through 22	27 through 43	48 through 62	67 through 81
8	70G	1/2 Amp	RED	4,5	25,26	46,47	65,66
1	70G	1/2 Amp	RED	1 (1 Per Bay)			