

J53051A 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 key telephone units and associated equipment, for 1P2 KTS, single group line and single link dial selected intercom 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
- Single group, one (CO, Centrex, or PBX) audio/video line and single link dial selective 6-station intercom
- Single link dial selective 10-station intercom.

ORDERING GUIDE

(a) *J53051A, List 1 consists of:*

- One relay rack (7 ft) for mounting equipment (Fig. 1, 2, and 3)
- Four carriers equipped with 914-type connectors for mounting 400- and 600-type KTUs
- Associated cabling equipped with KS-16671, List 1 plugs (14)

- 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 circuit)
- Unit, Telephone, Key, 606A (common-half cable equalizer)
- Unit, Telephone, Key, 607A (control-half cable equalizer)
- Unit, Telephone, Key, 417A (conference circuit)
- Interrupter, KS-15900, List 1
- Unit, Power, 51C1 (equipped with a P40J328 cord)

(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 circuit)
- Unit, Telephone, Key 606A(2) (common-half cable equalizer)
- Unit, Telephone, Key 607A(2) (control-half cable equalizer)

SECTION 518-800-120

- Unit, Telephone, Key, 417A (conference circuit)
- Interrupter, KS-15900, List 1
- Unit, Power, 51C1 (equipped with a P-40J328 cord)

(d) Separately ordered apparatus required for single group, one (CO, Centrex, or PBX) audio/video line and single link dial selective 6-station intercom. (See Fig. 1 for location in carrier.)

- Unit, Telephone, Key, 600A (line circuit)
- Unit, Telephone, Key 601A (video switch circuit)
- Unit, Telephone, Key 604A (station lockout circuit)
- Unit, Telephone, Key 605A(2) (audio/video link circuit)
- Unit, Telephone, Key, 606A (common-half cable equalizer)
- Unit, Telephone, Key, 607A (control-half cable equalizer)
- Unit, Telephone, Key, 407B (selector circuit, 10 codes)
- Unit, Telephone, Key, 422B (station busy selection circuit)
- Unit, Telephone, Key 423A (dial tone, station busy tone, audible ringback circuit)
- Unit, Telephone, Key, 425B (flashing lamp circuit, 19 codes)
- Unit, Telephone, Key, 426A (amplifier, band separation, and limiter circuit)
- Unit, Telephone, Key, 427B, Series 4 (frequency recognition and translation circuit)
- Interrupter, KS-15900, List 1
- Unit, Power, 51C1 (equipped with a P-40J328 cord)

TOUCH-TONE® Adapter Circuit

(e) Separately ordered apparatus required for single link dial selective 10-station intercom. (See Fig. 1 for location in carrier.)

- Unit, Telephone, Key, 604A (station lockout circuit)
- Unit, Telephone, Key, 605A(4) (audio/video link circuit)
- Unit, Telephone, Key, 407B (selector circuit, 10 codes)
- Unit, Telephone, Key, 422B (station busy selection circuit)
- Unit, Telephone, Key, 423B (dial tone, station busy tone, audible ringback circuit)
- Unit, Telephone, Key, 425B (dial intercom flashing lamp circuit, 19 codes)
- Unit, Telephone, Key, 426A (amplifier, band separation, and limiter circuit)
- Unit, Telephone, Key, 427B, Series 4 (frequency recognition and translation circuit)
- Interrupter, KS-15900, List 1
- Unit, Power, 51C1 (equipped with a P-40J328 cord).

TOUCH-TONE® Adapter Circuit

(f) Separately ordered externally mounted optional associated apparatus

- Unit, Telephone, Key, 601A (one per two stations for priority arrangement)
- Unit, Telephone, Key 422B (station busy tone option)
- Unit, Telephone, Key, 421A(3)
- Unit, Telephone, Key, 404A
- Unit, Telephone, Key, 413A
- Unit, Telephone, Key, 404A
- Unit, Telephone, Key, 421A(2)

Signal key preset audio only conference option

Dial selected preset audio only conference option

CARRIER POSITIONS 1,2,3, AND 4 WHEN EQUIPPED FOR 2 LINES AND ADD ON CONFERENCE

J1A J2A KS-15900,LI INTERRUPTER		J3	J4	J5	J6	J7	J8	J9	J10	J11	J12	J13	J14
J1B	J2B	600A KTU		607A KTU		606A KTU			600A * KTU		607A * KTU		606A * KTU
417A KTU	601A KTU												

CARRIER POSITION 4 WHEN EQUIPPED FOR 1 LINE 6 STATION DIAL SELECTED INTERCOM

J1A J2A KS-15900,LI INTERRUPTER		J3	J4	J5	J6	J7	J8	J9	J10	J11A	J12	J13	J14
J1B	J2B	600A KTU	407B KTU	607A KTU	604A KTU	606A KTU	605A KTU (STA. 1-3)	605A KTU (STA. 4-6)		422B KTU	426A KTU	425B KTU	427C † KTU
	601A KTU (NOTE)									J11B			

CARRIER POSITION 4 WHEN EQUIPPED FOR 10 STATION DIAL SELECTED INTERCOM

J1A J2A KS-15900,LI INTERRUPTER		J3	J4	J5	J6	J7	J8	J9	J10	J11A	J12	J13	J14
J1B	J2B		407B KTU	605A KTU (STA. 7-9)	604A KTU	605A KTU (STA. 10-12)	605A KTU (STA. 1-3)	605A KTU (STA. 4-6)		422B KTU	426A KTU	425B KTU	427C † KTU
										J11B			

NOTES

- SECOND HALF OF THIS 601A KTU CAN NOT BE USED.
- * THESE UNITS ARE NOT REQUIRED WHEN ONLY ONE LINE IS PROVIDED.
- † 427C KTU IS EQUIVALENT OF A 427B SERIES 4 KTU.

Fig. 1—KTU Equipment Locations in Carrier Positions of the J53051A Equipment Bay

- Unit, Telephone, Key, 417A (add-on conference associated with single link intercom)
- Unit, Telephone, Key, 421A (bridged hunting, one station option)
- Unit, Telephone, Key, 421A } Bridged hunting,
more than one
- Unit, Telephone, Key, 422B } station option

Note: When mounting KTUs external to the J53051A equipment bay, use 69-type apparatus mountings (Section 518-215-120) or equivalent, mounted on standard 23-inch mounting facility, such as 99A brackets, and place in an apparatus mounting such as the 16C shown in Section 463-140-100.

(g) **Designation strips must be ordered separately by component identification numbers (COMCODE) for the J53051A, List 1 equipment bay. Order as follows:**

- Strip designation for lines 1 and 2—COMCODE 840242853
- Strip designation for lines 3 and 4—COMCODE 840242861
- Strip, designation for lines 5 and 6—COMCODE 840242879
- Strip, designation for lines 7 and 8—COMCODE 840242887
- Strip, designation for 1-line 6-station intercom—COMCODE 840242895
- Strip, designation for 10-station intercom—COMCODE 840242903

3. INSTALLATION

3.01 Secure the J-53051A 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 J-53051A 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, L1 plugs 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.

Note: The ac power should be wired to a separate fuse or circuit breaker, 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 J-53051A 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 arrangement for each of the four 51C1 power units is shown in Table A.

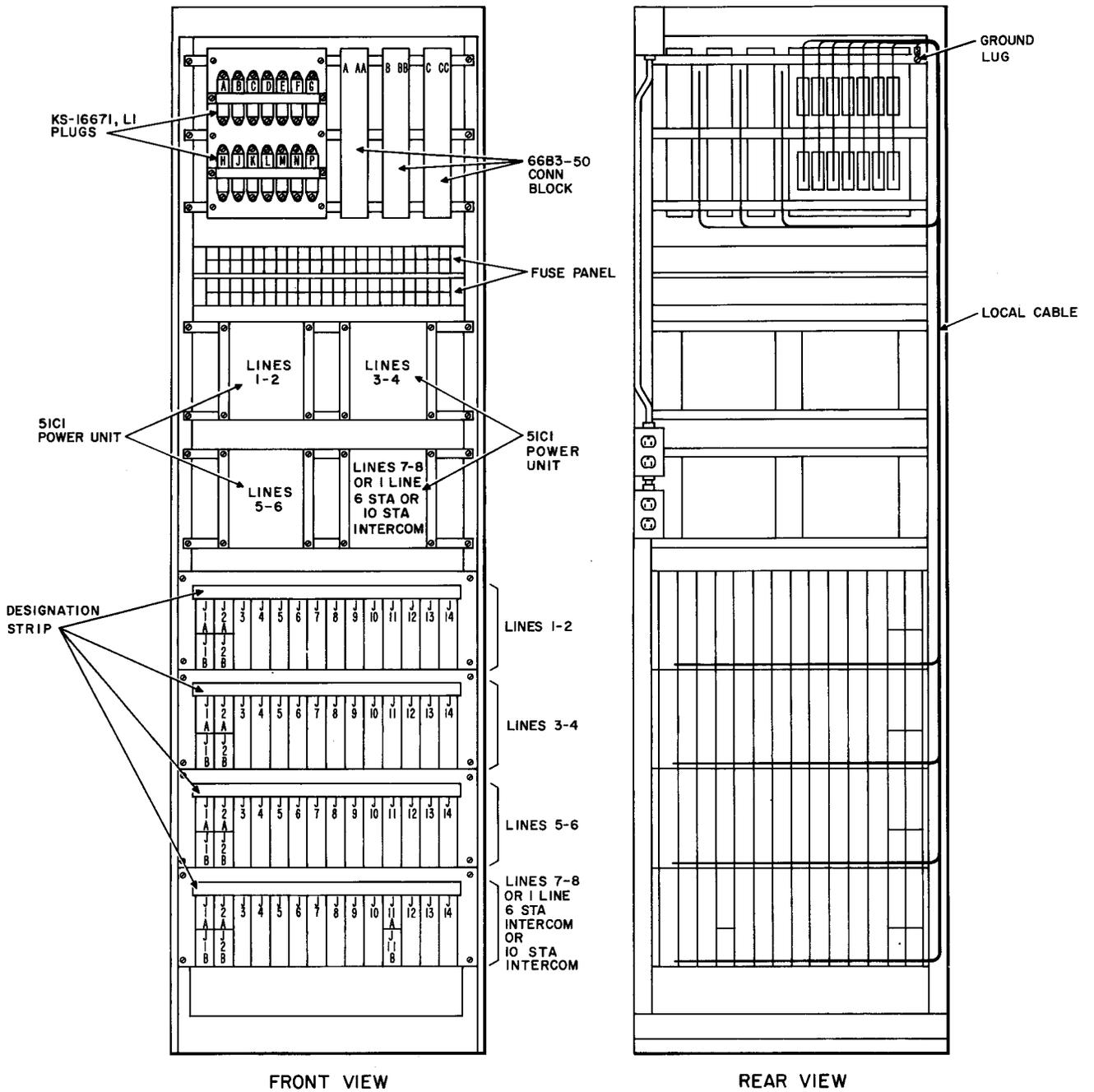


Fig. 2—J53051A Equipment Bay

F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21
F22	F23	F24	F25	F26	F27	F28	F29	F30	F31	F32	F33	F34	F35	F36	F37	F38	F39	F40	F41	F42

F43	F44	F45	F46	F47	F48	F49	F50	F51	F52	F53	F54	F55	F56	F57	F58	F59	F60	F61	F62	F63
F64	F65	F66	F67	F68	F69	F70	F71	F72	F73	F74	F75	F76	F77	F78	F79	F80	F81	F82	F83	F84

Fig. 3—Fuse Panel

TABLE A
KTS BAY FUSE ARRANGEMENT (FIG 3)

NO. REQD	CODE	FUSE RATING	BEAD COLOR	FUSE NUMBER			
				CARRIER 1	CARRIER 2	CARRIER 3	CARRIER 4
64	70A	1-1/3 Amp	WHITE	4 Through 19	25 Through 40	46 Through 61	67 Through 82
4	70B	2 Amp	ORANGE	20	41	62	83
8	70C	3 Amp	BLUE	1, 2	22, 23	43, 44	64, 65
8	70G	1/2 Amp	RED	3, 21	24, 42	45, 63	66, 84