

## INTERCONNECTING DEVICES, COMMON EQUIPMENT

### 606A PANEL

#### 1. GENERAL

**1.01** This section provides identification, installation and connection information for the 606A panel used to mount interconnecting units (IU).

**1.02** The 606A panel provides connecting facilities between Bell System central office (CO) or PBX lines and customer-provided equipment (CPE). It also provides fused power for the 109A, 110A, and 111A IUs.

**1.03** The internal panel wiring is covered in this section. Refer to the section covering the specific Voice Connecting Arrangement (VCA) for connections for the CPE and the particular IU in use.

#### 2. IDENTIFICATION

##### DESCRIPTION

**2.01** The 606A panel (Fig. 1 and 2) consists of a cast aluminum carrier equipped with six 914A connectors. The 6- by 8-inch carrier has a full rear panel mounted on four standoffs making it 9-1/4 inches deep. The vertical space required on a rack is eight inches.

**2.02** The rear panel is arranged for power supply connections, fuses, and two plugs for in and out connections. The panel will mount six IUs. Three P40V590 guide assemblies are mounted at the center of the panel to support the 4-inch IUs.

**2.03** The panel is arranged to accept six CO or PBX lines. Fig. 3 shows the connector and trunk arrangement in the 606A panel.

**2.04** Positions 1 through 3 are provided with an A and B connector. The arrangement of the 914A (40-pin) connectors provides connectors to mount six 4-inch 40-pin IUs. The connectors are wired to accept the 109A, 110A and 111A IUs. Fig. 4 shows the lead designations and pin numbers

for the above IUs and Table A shows the connectors they may be used in.

**2.05** The fuse and power distribution is shown in Fig. 5 and Table B. The 606A panel is designed to be powered by a -24 volt power supply and a 10 volt ac lamp supply.

**2.06** The 24E 1/2-ampere fuses attach to screw terminals on the rear of the panel as shown in Fig. 2.

**2.07** The six 914A connectors are factory-wired to two 50-pin KS-16671, List 1 plugs on the rear of the panel. P1 provides in and out connections for the A connectors (upper row) and P3 provides connections for the B connectors (lower row). Fig. 6 shows the connections for connectors J1 through J3, A and B. Fig. 7 shows the connections to plugs P1 and P3.

##### ORDERING GUIDE

- Panel, 606A (one per six IUs, three P40V590 guide assemblies, and eight 24E 1/2-ampere fuses are supplied with panel.)
- Cable, A25B (two per panel or equivalent)

#### 3. INSTALLATION

**3.01** The 606A panel is mounted on a standard relay rack or 16C apparatus mounting (or equivalent) using the 99-type bracket. Remove the center mounting bar from the 16C apparatus mounting to avoid cover interference.

**3.02** Two A25B (or equivalent) connector cables are used to connect the 606A panel to the 66B4-25 intermediate connecting block. The A25B connector cables plug into the back (P1 and P3) of the 606A panel (Fig. 2).

**3.03** The stub ends of the A25B connectors are terminated on the 66B4-25 intermediate connecting block following the wiring plan shown in the section for the particular VCA being installed.

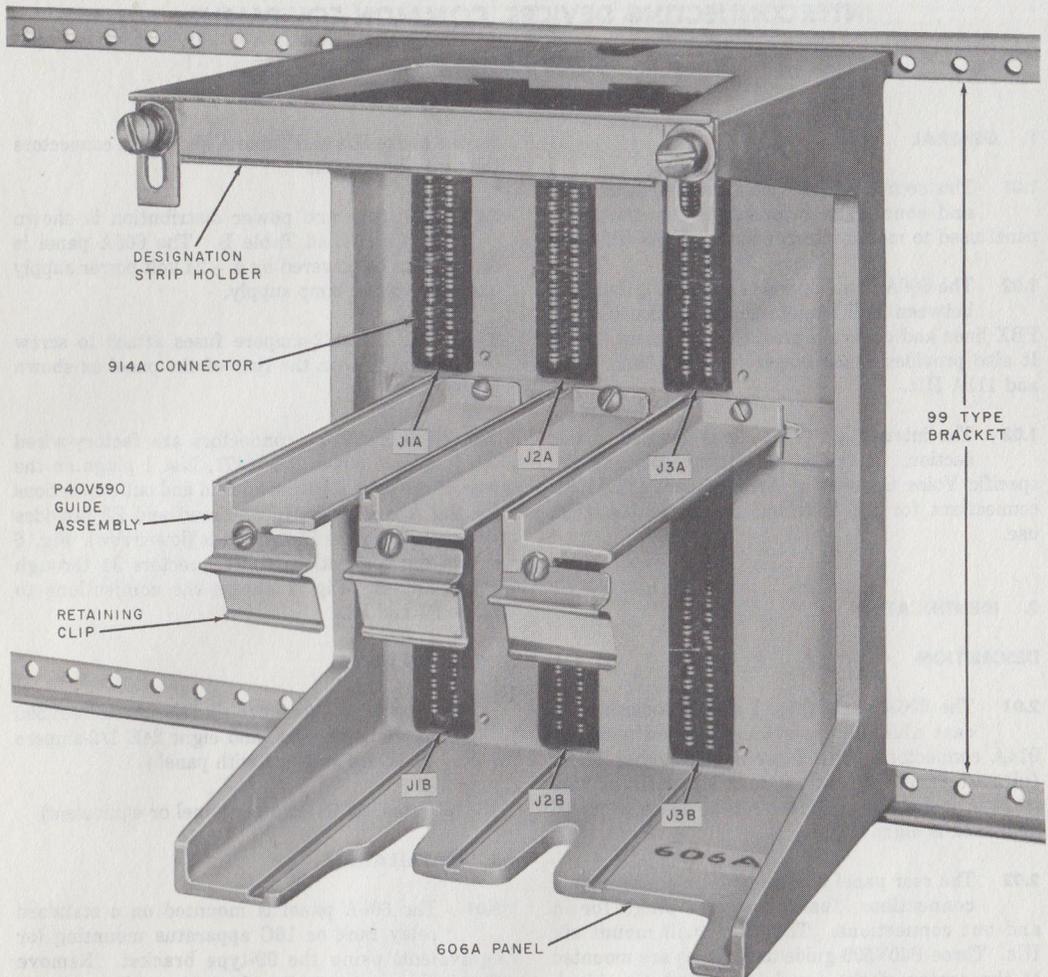


Fig. 1—606A Panel (Front View)

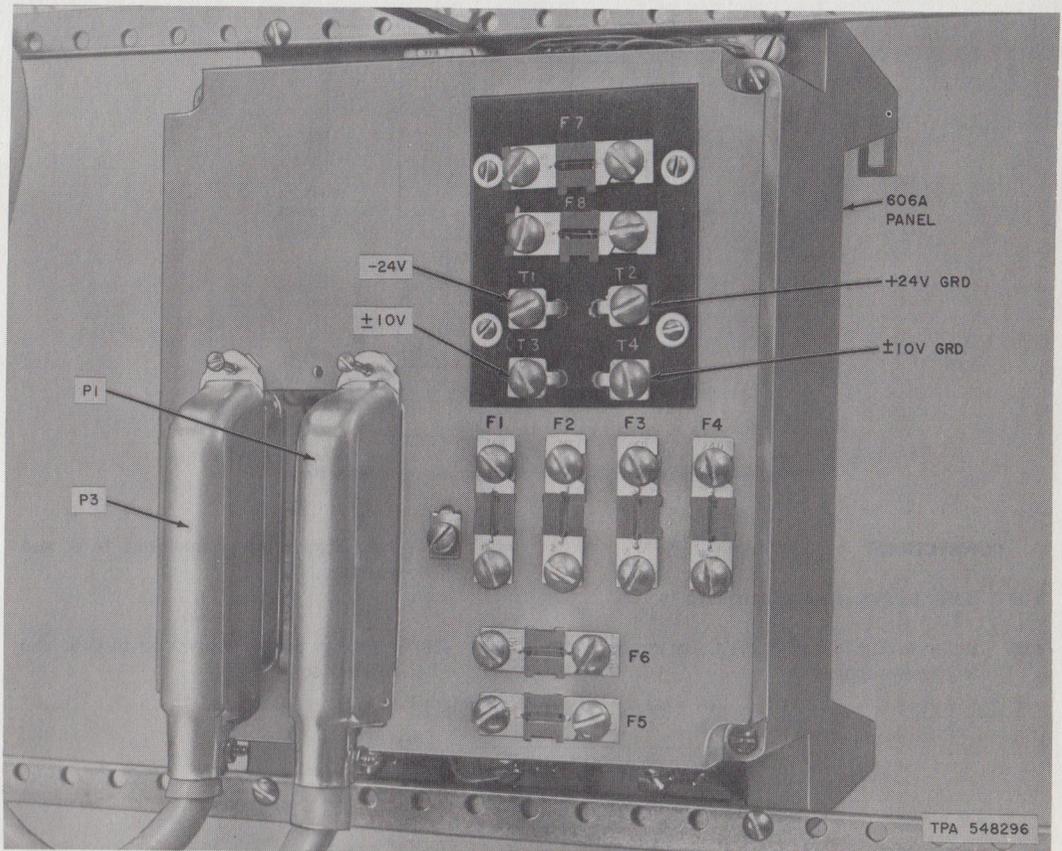
Unused leads should be insulated and stored if not cut down on the block.

**3.04** Leads associated with the CPE are extended from the 66B4-25 intermediate connecting block and terminated on a 66M1-50 interface connecting block following the wiring plan shown in the section for the particular VCA being installed.

Stencil lead designations on the 66M1-50 interface connecting block as required.

**3.05** The customer must terminate the CPE on the 66M1-50 interface connecting block using the terminals on the customer side.

**3.06** The Telephone Company provided power is supplied from the associated equipment and



**Fig. 2—606A Panel (Rear View)**

is connected to the terminals on the rear of 606A panel as shown in Table B and Fig. 2.

**3.07** Refer to the appropriate section in Division 518 for proper grounding of power units. Proper grounding of equipment and power unit is important to prevent damage from power line surges.

**3.08** When installing IUs in the 606A panel, position the boards in the grooves of the panel and guide assembly and slide the unit in until it is properly seated in the connector. The code slots on the IUs match the index clips between contacts 5 and 6, and 12 and 13 in the connectors.

Lower the designation strip holder and lock down to hold the upper IUs in place. Lower the retaining clip on the guide assembly and fasten to hold the lower IUs in place. Refer to Fig. 3 for installation sequence of the IUs in the panel to correspond to the plug wiring arrangement.

**3.09** After installation is complete, apply power and perform tests shown in the section for the particular VCA being installed. To protect the electrical components of IUs, always remove the fuse associated with that particular circuit before removing or installing an IU. See Table B.

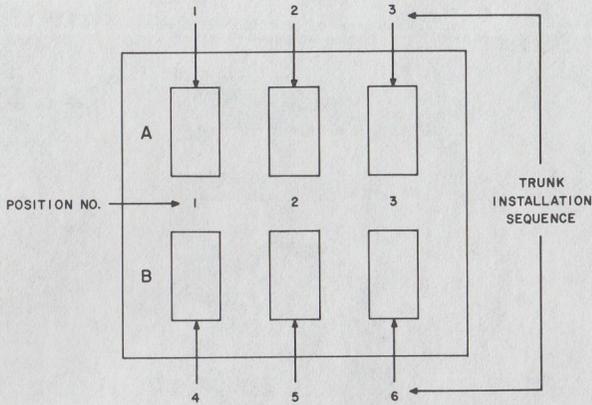


Fig. 3—Connector and Trunk Arrangement in 606A Panel

4. CONNECTIONS

4.01 Refer to Fig. 4 for connections to IUs.

4.02 Refer to Fig. 5 and Table C for connections to power supplies.

4.03 Refer to Fig. 6 for connections to A and B connectors.

4.04 Refer to Fig. 7 for connections to CPE and Bell System equipment.

LEAD DESIGNATIONS FOR UNITS			914A A AND B CONN
109A	110A	111A	
		±10V	4
		L(STA)	8
R(CO)	R(CO)	R(CO)	9
T(1A2)	T(1A1)	T(STA)	12
R(1A2)	R(1A1)	R(STA)	13
T(CO)	T(CO)	T(CO)	14
GRD	GRD	GRD	15
-24V	-24V	-24V	17
A(STA)		T(CUS)	24
H(NC)	H(1A1)	R(CUS)	25
BS2(CUS)	BS2(CUS)	A(1A2)	26
B2(NC)		T(1A2)	28
B1(NC)		R(1A2)	29
		A(1A2)	30
BS1(CUS)	BS1(CUS)	BL	32
R(CUS)	R(CUS)	S(CUS)	34
T(CUS)	T(CUS)	G(CUS)	36

TO  
J1A, J2A, J3A  
J1B, J2B, J3B

Fig. 4—Lead Designations For Interconnecting Units

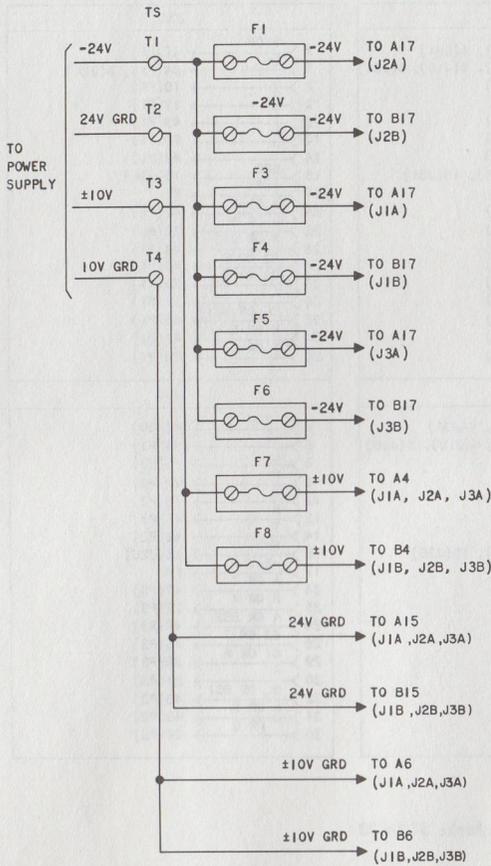


Fig. 5—Fuse and Power Distribution

TABLE A  
CONNECTOR USE TABLE

UNIT CODE	SERVICE FUNCTION	POSITIONS					
		1		2		3	
		J1A	J1B	J2A	J2B	J3A	J3B
109A	Audio on Hold	•	•	•	•	•	•
110A	Audio on Hold	•	•	•	•	•	•
111A	Key Tel. to CP Intercom	•	•	•	•	•	•

• Usable in indicated connectors.

TABLE B  
606A PANEL FUSE ASSIGNMENT

VOLTAGE	FUSE NO*	CONNECTOR
-24V	F1	J2A
	F2	J2B
	F3	J1A
	F4	J1B
	F5	J3A
	F6	J3B
±10VAC	F7	J1A, J2A, J3A
	F8	J1B, J2B, J3B

\*Fuses are 24E 1/2 ampere.

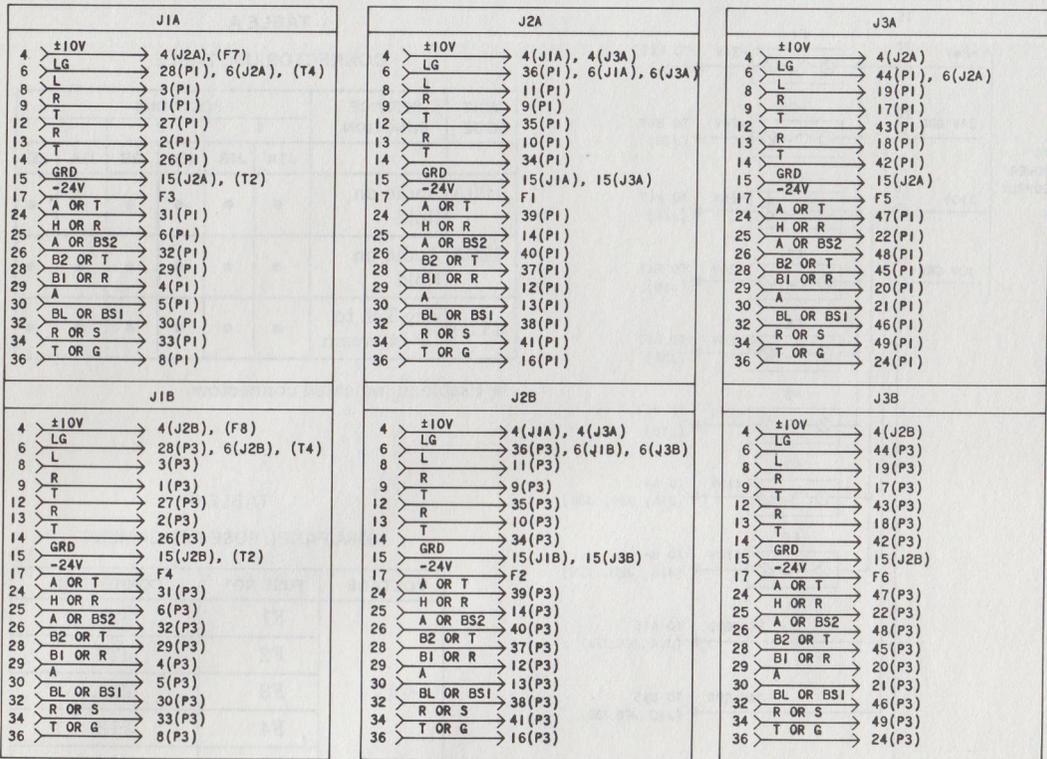


Fig. 6—Connections For Jacks J1 to J3

TABLE C  
POWER CONNECTIONS

VOLTAGE	606A PANEL *
-24V	T1
24V GRD	T2
±10VAC	T3
10V GRD	T4

\*Terminals on rear of panel are stamped as shown.

P1

P2

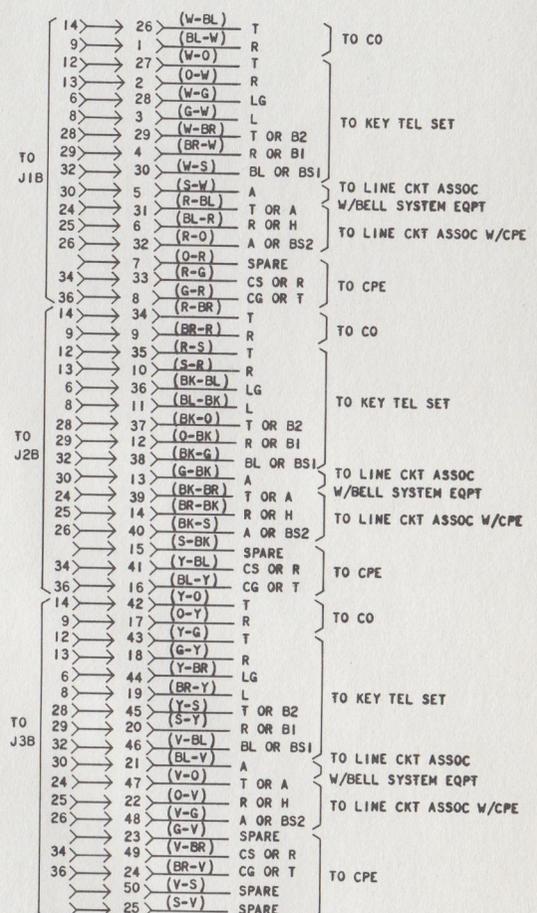
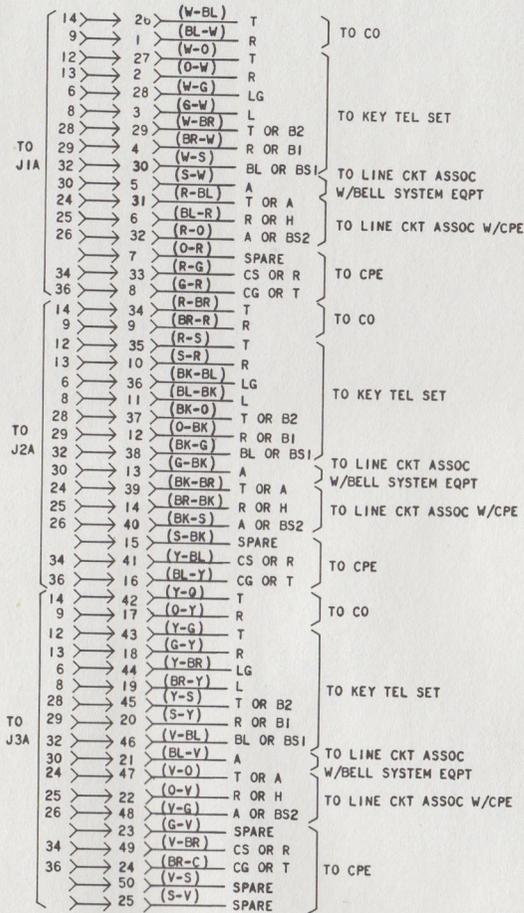


Fig. 7—Connections For Plugs P1 and P3