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## 2000A/V ComPanel Description, Installation, and Operation

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## **1. Overview**

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- 1.01** This practice provides an overview of the 2000A/V Communication Panel (ComPanel) detailing ordering information, operating procedures, and cable connections.
- 1.02** This practice is being reissued to include the vertical mount ComPanel 2000V.
- 1.03** This practice contains safety labels in the form of CAUTIONS.
- 1.04** AT&T welcomes your comments on this practice. Your comments will aid us in improving the quality and usefulness of AT&T documentation. Please use the feedback form provided at the back of this practice.
- 1.05** Additional copies of this practice may be ordered from the Customer Information Center as follows:
- Call 1-800-432-6600, or
  - Complete Form IND 80.80 and mail to:
- AT&T Customer Information Center  
Attention: Order Entry Department  
2855 N. Franklin Road  
P. O. Box 19901  
Indianapolis, IN 46219-1999
- 1.06** This document was developed by the AT&T Customer Education and Training Organization.

## **2. General**

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- 2.01** The 2000A/V ComPanel provides a full-featured, multiple-line access and call-originating, paging, and intercom telephone facility for central office or general plant telephone communications.

## **3. Description**

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- 3.01** The 2000A/V ComPanel provides the features required for central office or general plant telephone communications. Figure 1 depicts the front of the 2000A horizontal ComPanel. Figure 2 depicts the front of the 2000V vertical ComPanel.

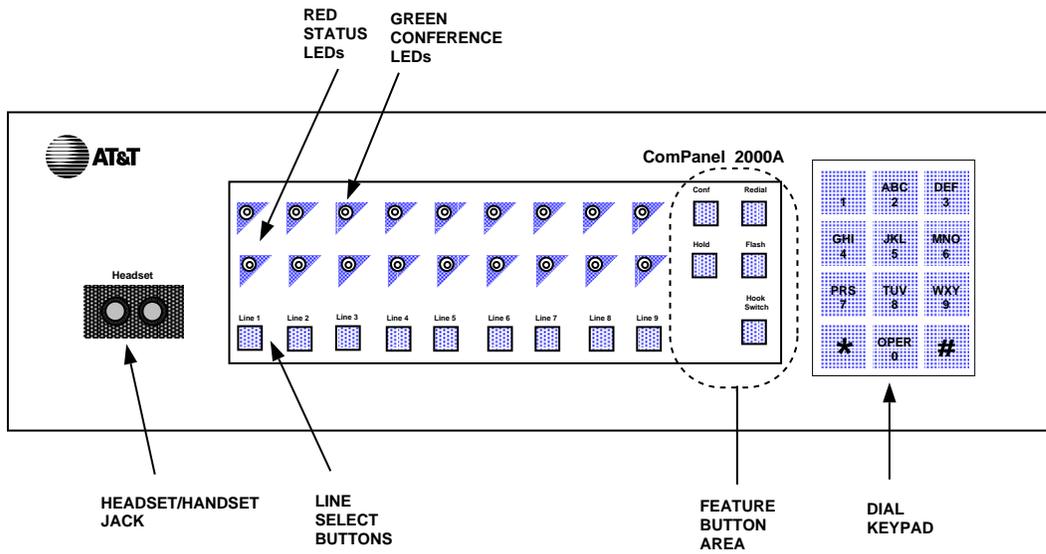
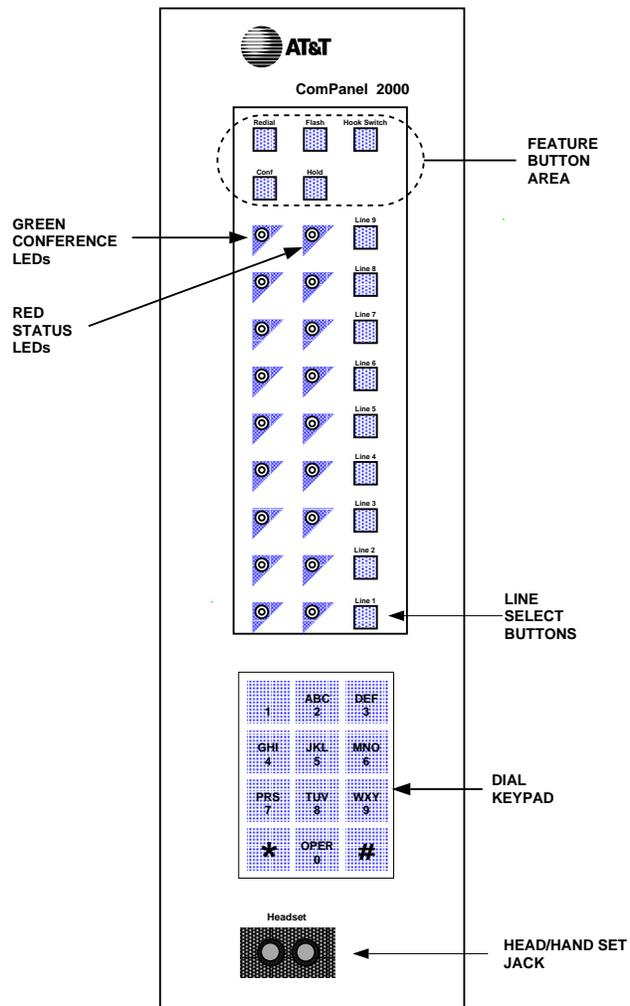


Figure 1. Front Panel View 2000A ComPanel



**Figure 2. Front Panel View 2000V ComPanel**

**3.02** Each panel includes a row of nine buttons to access 2-wire dial-lines, office intercom, or paging system access. Five feature keys provide the **Hold**, **Conference**, **Flash**, **Hookswitch**, and **Redial** functions. A 12-button keypad is used for dual-tone multifrequency (DTMF) or dial pulse (DP) dialing. A pair of jacks for an operator's headset/handset is provided.

**3.03** The 2000A horizontal ComPanel is designed to occupy 3.5 inches of vertical space in 19-inch or 23-inch network bay frames. A pair of universal mounting brackets is provided with each 2000A ComPanel.

The 2000V vertical ComPanel is designed to mount vertically in a frame, on a wall, or convenient location, occupying 20 inches of vertical space. A pair of universal mounting brackets is provided with each 2000V ComPanel.

**3.04** Up to nine lines may be connected to the communication panel; however, the actual configuration is determined by local engineering.

- (a) All nine line keys may be used as 2-wire dial lines [that is, central office lines (COL)]. Any four central office lines may be conferenced.
- (b) Lines 8 and/or 9 may be used to access the local office intercom line(s) (INT). If lines 8 and 9 are both designated as INT, they may be conferenced.
- (c) Lines 8 and/or 9 may be used to access the local office paging system(s) (Page).

**3.05 Hold Button** — The ComPanel is equipped with a **HOLD** button which is active when the panel is connected to a 1A2-type key telephone unit (KTU). Depressing this button releases the A-lead circuit before it releases the line circuit.

**3.06 Conference Button** — Depressing the **CONF** button places the ComPanel in the conference mode. Subsequent line selections will be bridged. Depressing the **CONF** button again will release the conference and return the panel to the normal mode of operation. Pressing the **Hold** button places all conferenced lines on hold.

**3.07 Flash Button** — The **FLASH** button initiates a timed on-hook signal which is commonly used to access special features associated with Centrex services (transfer, hold, etc.).

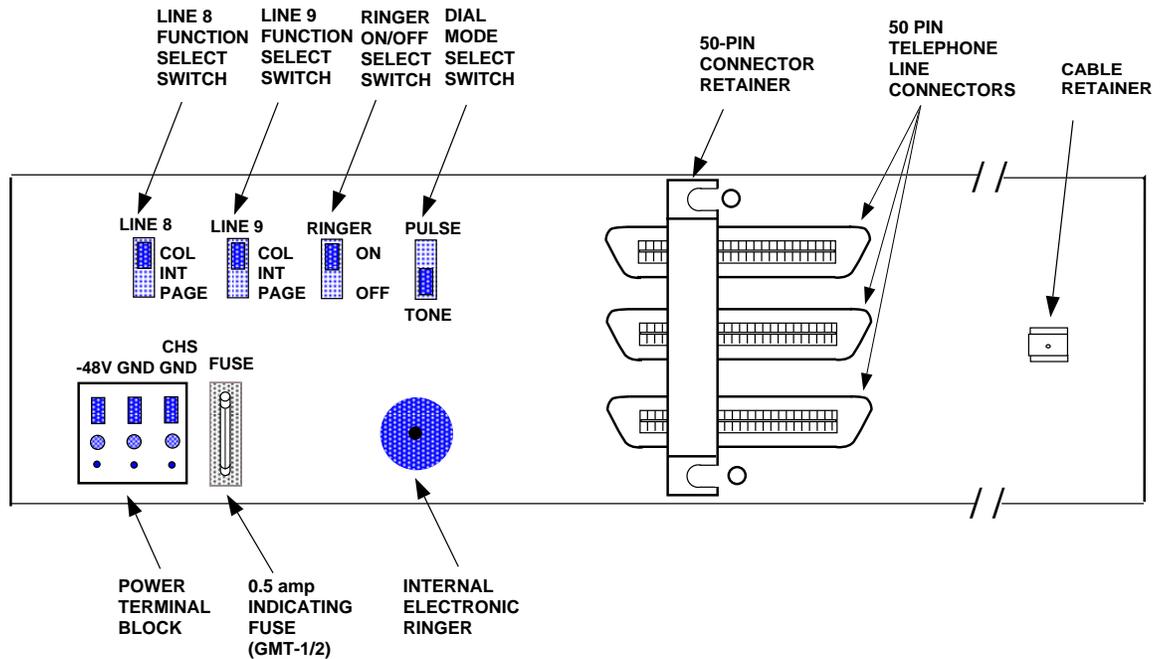
**3.08 HookSwitch Button** — Depressing the **HookSwitch** button provides an on-hook signal as long as the button is depressed. Releasing the **HookSwitch** button returns the line selected to the off-hook condition.

**3.09 Redial Button** — When the **REDIAL** button is depressed, the ComPanel will automatically redial the last number dialed (LND). A line must be active (off-hook) to access this feature.

**3.10 Status Indicators** — The red light-emitting diodes (LEDs) above the line buttons indicate the status of each line. These indicators are active only when the ComPanel is connected to a KTU. The green LEDs above the red LEDs indicate the status of each line button (active or released) and those which are conferenced.

**3.11 Headset/Handset Jack** — A 327-type jack is provided for connection of an operator's headset or carbon handset.

3.12 Figure 3 shows the rear view of the 2000A/V ComPanel.



**Figure 3. Rear Panel View**

**3.13 Local Ringer** — An electronic ringer is provided with the ComPanel. It may be turned on or off via a rear panel switch. The internal ringer is useful when the ComPanel is used as a single telephone station.

**3.14 Function Select Switches** — Two 3-position switches allow the user to select the functions of lines 8 and 9. The list below defines the function of each switch:

- COL = central office line
- INT = intercom
- PAGE = paging.

## **4. Connections**

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**4.01** The 2000A/V ComPanel may be connected to the following equipment:

- (a) Normal telephone office key equipment such as a 1A2-type KTU
- (b) A 2-wire dial-line circuit.

**4.02** The following safety precautions should be observed when installing the ComPanel.

 **CAUTION:**

- Never install telephone wiring during an electrical storm.
- Never install telephone jacks in wet locations unless the jack is specifically designed for wet applications.
- Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected from the network.
- Use caution when installing or modifying telephone lines.

**4.03** Refer to Table A for wire designations.

**Table A. 50-Pin Connector Wire Designation**

<b>Pin Number</b>	<b>Wire Color</b>	<b>Lead Designation</b>
1	BL-W	R1
26	W-BL	T1
2	O-W	A1
27	W-O	1A
3	G-W	L1
28	W-G	LG
4	BR-W	R2
29	W-BR	T2
5	S-W	9A
30	W-S	2A
6	BL-R	L2
31	R-BL	LG
7	O-R	R3
32	R-O	T3
8	G-R	8A
33	R-G	3A
9	BR-R	L3
34	R-BR	LG
10	S-R	R4
35	R-S	T4
11	BL-BK	7A
36	BK-BL	4A
12	O-BK	L4
37	BK-O	LG
13	G-BK	R5
38	BK-G	T5
14	BR-BK	6A
39	BK-BR	5A

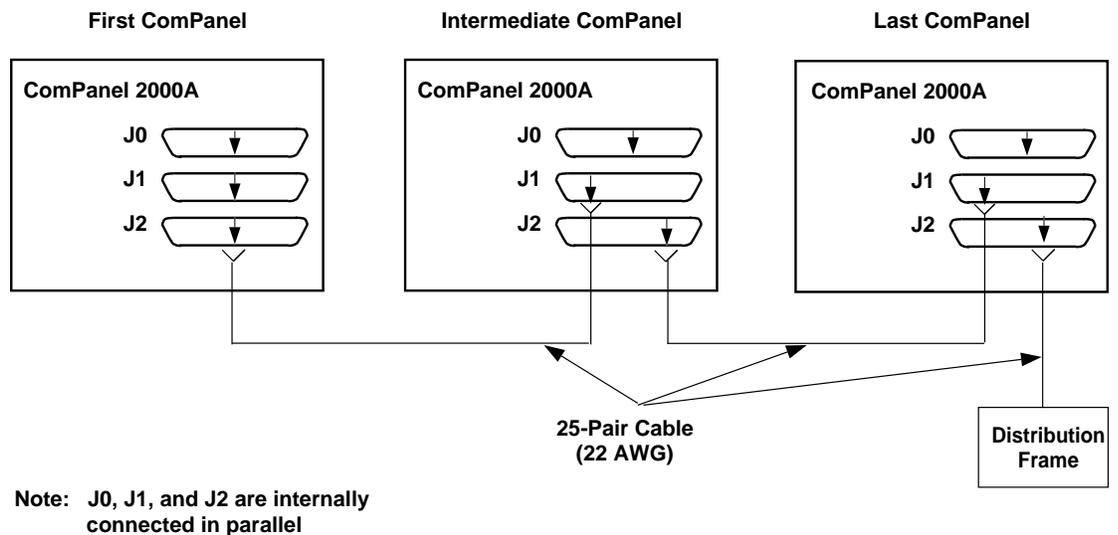
**Table A. 50-Pin Connector Wire Designation (Contd)**

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<b>Pin Number</b>	<b>Wire Color</b>	<b>Lead Designation</b>
15	S-BK	L5
40	BK-S	LG
16	BL-Y	R6
41	Y-BL	T6
17	O-Y	SPARE
42	Y-O	SPARE
18	G-Y	L6
43	Y-G	LG
19	BR-Y	R7
44	Y-BR	T-7
20	S-Y	1R1
45	Y-S	1B1
21	BL-V	L7
46	V-BL	LG
22	O-V	R8
47	V-O	T8
23	G-V	L9
48	V-G	LG
24	BR-V	L8
49	V-BR	LG
25	S-V	R9
50	V-S	T9

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- 4.04** ComPanels may be bridged (daisy-chained) to other ComPanels via the connectors on the back panel. Figure 4 depicts bridging of several ComPanels.



**Figure 4. ComPanel Bridging**

- 4.05** Central office battery (-48 V DC) should be connected to the rear panel terminal block. The communication panel power supply is equipped with an indicating-type fuse which is located on the rear panel. Frame (earth) ground should be supplied as indicated on the power terminal strip located on the rear panel.

## **5. Warranty**

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**5.01** AT&T warrants the 2000A/V ComPanel to be free from defects in material and workmanship for a period of 1 year from the date of shipment. The headset or handset is warranted for a period of 30 days from the date of shipment. Upon examination during the warranty period, AT&T reserves the right to either repair or replace products that prove to be defective.

This warranty shall not apply to defects resulting from improper maintenance, unauthorized modifications, misuse, or operation outside the environmental specifications of this product.

This warranty is in lieu of all other warranties, expressed or implied, including any implied warranty of merchantability or fitness for a particular use. AT&T shall not be liable for any indirect, special, or consequential damage.

## 6. Ordering Information

**6.01** The 2000A or 2000V ComPanel may be ordered from your local AT&T Representative or by calling 1-800-372-2447. The following is a list of equipment and the associated comcode number:

<b>Product Code</b>	<b>Description</b>	<b>Comcode</b>
2000A	Horizontal mount ComPanel and mounting brackets	106 727 662
2000A1	2000A ComPanel, mounting brackets, headset, cord, and plug	106 727 670
2000A2	2000A ComPanel, mounting brackets, handset, cord, and plug	106 727 688
2000V	Vertical mount ComPanel and mounting brackets	107 049 629
2000V1	Vertical 2000V ComPanel, mounting brackets, w/headset, cord, and plug	107 058 364
2000V2	Vertical 2000V ComPanel, mounting brackets, w/handset, cord, and plug	107 058 380
2000A/CP	Mounting brackets for 2000A	106 746 019
2000V/CP	Mounting brackets for 2000V	107 063 307
2000HHH	Headset/handset hanger	107 063 299
2000A-04	15 ft cord with modular connectors for handset	106 746 027
2000A	Handset	106 746 035
2000A	Headset w/cord and plug	106 746 043
2327A	Modular to 327-plug adapter	106 746 001
S17	Writing shelf with 19- and 23-inch mounting brackets	106 952 344
B-19	Writing shelf brackets 19-inch rack	106 952 328
B-23	Writing shelf brackets 23-inch rack	106 952 336
1KTU	KTU Cross-connect panel	107 052 615
1COM-6	COM Cross-connect panel	107 052 599
2512A	1A2 Key Service Unit with power supply and interrupter	106 746 068
2584C	Card Rack, w/interrupter 13-line capacity	107 119 604
K100-3	Key System Unit power supply	107 119 612
400E	Line card Key Telephone Unit (KTU)	101 773 992
2000A/V/C	Adapter cable - 2000 Series Communication Panel to 660 ComPanel	107 107 807
2000A/V	Instruction Manual	106 790 181

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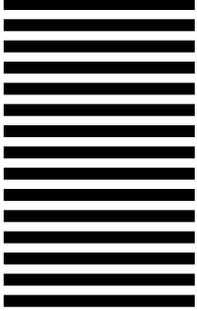
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