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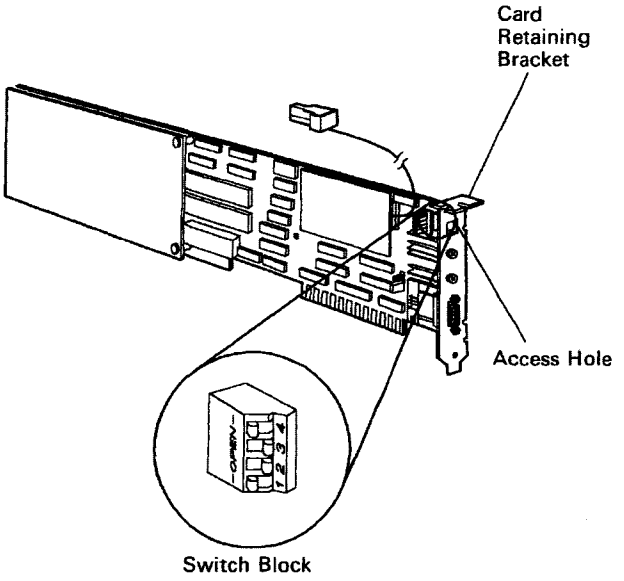
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3. Compare the jumper settings to the settings in the illustration. For each plug, make sure a jumper is set over pins 1 and 2 but not over pin 3. If the jumpers are incorrectly set, correct them.
4. Find the switch block next to the card retaining bracket on the IBM EGA card.



LEX42371

5. Make sure that switches 1 and 4 are set to open and switches 2 and 3 are set to closed. If these are incorrectly set, use the point of a ballpoint pen to reach through the access hole in the card retaining bracket to correct them. This setting is for an enhanced color display in high-resolution mode.

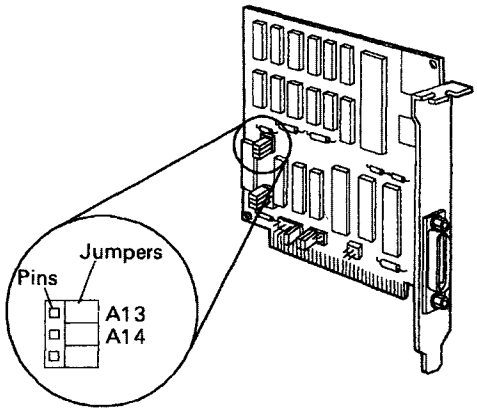
   Note: If you are using graphics modes 0 through 3, you cannot use composite video in these modes. To see composite video in these modes, set switches 1, 2, and 3 to open and switch 4 to closed. This setting is for an 80 × 25 color display.

   A computer program can also change these switch settings.

Step 2

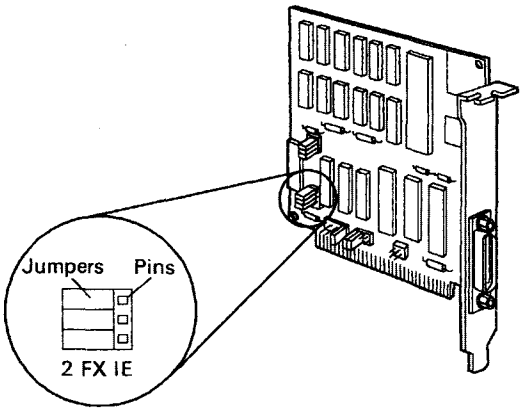
Set the jumpers on the IBM PC GPIB card.

1. Find the IBM PC GPIB card.
2. On the IBM PC GPIB card, find the plug labeled A13/A14.



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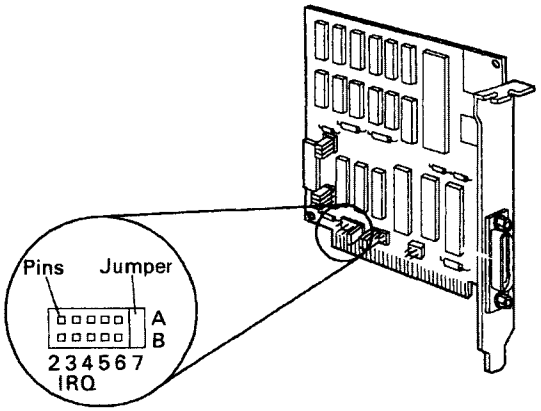
3. Compare the jumper settings to the settings in the illustration. Make sure the jumpers are set over the two rows of pins at the far right. If the jumpers are incorrectly set, correct them.
4. On the IBM PC GPIB card, find the plug labeled 2FX IE.



LEX42373

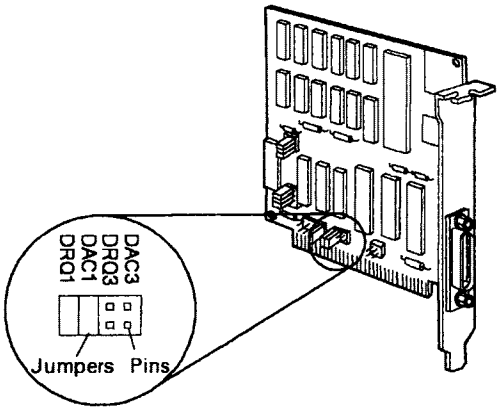
5. Compare the jumper settings to the settings in the illustration. Make sure the jumpers are set over the two rows of pins at the far left. If the jumpers are incorrectly set, correct them.
6. On the IBM PC GPIB card, find the plug labeled IRQ 2 3 4 5 7.

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LEX42374

7. Compare the jumper settings to the settings in the illustration. Make sure the jumpers are set over the two rows of pins at the far right. If the jumpers are incorrectly set, correct them.
8. On the IBM PC GPIB card, find the plug labeled DRQ1/DAC1/DRQ3/DAC3.

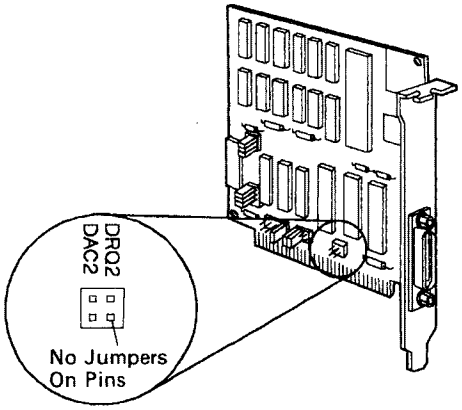


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9. Compare the jumper settings to the settings in the illustration. Make sure the jumpers are set over the two rows of pins at the far left. If the jumpers are incorrectly set, correct them. This setting is for DMA channel 1.

   Note: It is equally correct to use DMA channel 3 if you are using another IBM PC card that requires DMA channel 1.

   For DMA channel 3, make sure the jumpers are set over the two rows of pins at the far right.
10. On the IBM PC GPIB card, find the plug labeled DRQ2/DAC2.



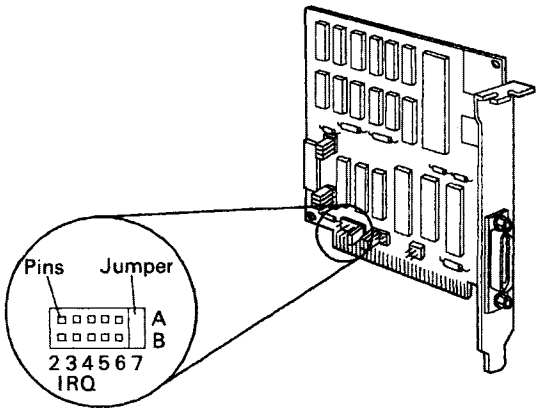
LEX42376

11. Make sure no jumpers are installed on the pins. If any jumpers are installed, remove them.

Step 3

Attach the IBM EGA Jumper card wire connector to the IBM PC GPIP card.

1. On the IBM PC GPIB card, find the plug labeled IRQ 2 3 4 5 6 7.
2. The IBM InfoWindow System can use interrupt levels 2, 3, or 4. The recommended level for the IBM InfoWindow System is 2. You might have another card in the IBM Personal Computer or the IBM Personal System/2 (8530) that requires interrupt level 2. This makes it necessary to choose another interrupt level. The IBM InfoWindow System should use the highest interrupt level (lowest number) that you have available.

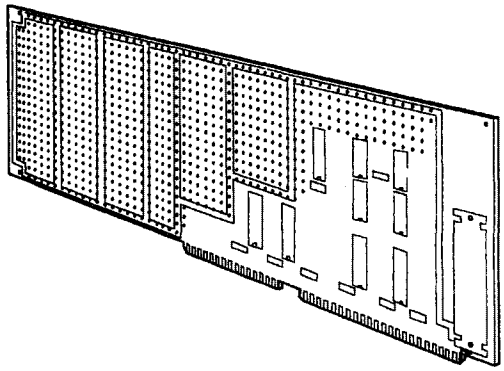


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3. Hold the wire connector so that the side with the attached wire is facing up.

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5170 Prototype Adapter, P/N8286138



LEX40050

Figure 17-90. 5170 Prototype Adapter

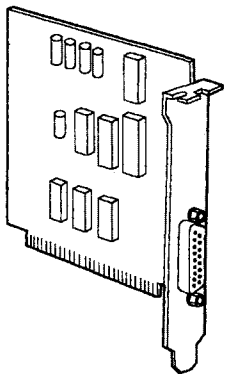
The IBM Personal Computer AT Prototype Adapter is 121.9 mm (4.8 in) high × 333.25 mm (13.12 in) long and plugs into any system unit expansion slot except number 1 or 7. Two card-edge tabs, one 2- × 31-position and one 2- × 18-position, provide all system control signals and voltages.

The adapter has a voltage bus (+5V DC) and a ground bus (0V DC). Each bus borders the adapter with the ground bus on the component side and the voltage bus on the pin side. A system interface is also provided on the adapter with a jumper to specify whether the device has an 8- or a 16-bit data bus.

This adapter also accommodates a D-shell connector from 9 to 37 positions.

Note: All components must be installed on the component side of the adapter. The total width of the adapter, including components, should not exceed 12.7 mm (0.5 in). If these specifications are not met, components on the IBM Personal Computer AT Prototype Adapter might touch other adapters plugged into adjacent expansion slots.

Game Control Adapter, P/N8529151



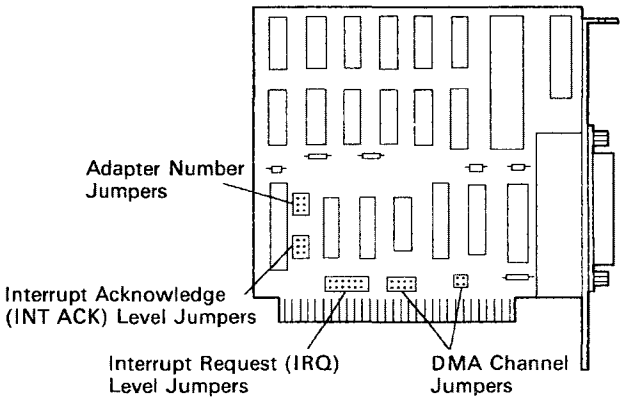
LEX40051

Figure 17-91. Game Control Adapter (Right View)

The Game Control Adapter allows up to four paddles or two joysticks to be attached to the system. This card fits into one of the slots of the system board or expansion board. The game control interface cable attaches to the rear of the adapter. In addition, four inputs for switches are provided. Paddle and joystick positions are determined by changing resistive values sent to the adapter. The adapter plus system software converts the present resistive value to a relative paddle or joystick position.

General Purpose Interface Bus Jumper Positions Adapter, P/N6181770

The GPIB Adapter (shown below) has four groups of jumper pins.



LEX40265

Figure 17-92. General Purpose Interface Bus Adapter

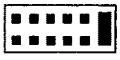
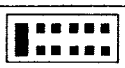
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The IBM Personal Computer General Purpose Interface Bus (GPIB) provides an interface between the family of IBM Personal Computers and the IEEE-488 GPIB. This allows the PC to control and access multiple devices or instruments (plotters, disk drives, and multimeters) which are designed to the ANSI/IEEE-488 standard 1978, including the 488A-190 supplement. (GPIB cable P/N is 63X4882).

The adapter can perform as a talker and a listener, enabling the Personal Computer to send and receive commands or data to and from the devices on the GPIB.

Interrupt Request Level

The GPIB Adapter can share its interrupt request (IRQ) level with other adapters that can use shared interrupts. All adapters sharing an IRQ level must be installed in the same unit.

Interrupt Request Level	Jumper Positions
7	
6	
5	
4	
3	
2	

LEX40266

Figure 17-93. Interrupt Request Level Jumper Positions

Direct Memory Access (DMA) Channel

DMA Channel	Jumper Positions
1	
2	
3	

LEX40267

Figure 17-94. DMA Channel

Adapter Number

All GPIB adapters installed in the same system (system unit and expansion unit) must have different adapter numbers.

Adapter Number	Jumper Positions
0	
1	
2	
3	
4	
5	
6	
7	

LEX40268

Figure 17-95. GPIB Adapter Jumper Positions

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