



# Tech Info Library

## Apple IIGS Game Port Information

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Some questions have been raised as to whether one should attach a third-party device to the Apple IIGS game port that directly supplies +5 volts to the port and does not have a resistor for limiting voltage to the port. People fear that additional voltage without a resistor might short the logic board.

The truth is that even if the third-party device is actually shorting the logic board, it would not necessarily be caused by the lack of a current-limiting resistor.

Applying +5V through the device to the game port is not a problem, because the game port has +5V on it already. However, because the inputs from the game port go directly to a TTL device, voltages greater than +5V should not be applied to the port.

Joysticks and game paddles have a 270-ohm resistor connected from ground to the "Normally Open" side of the pushbutton switch. The "Normally Closed" side of the switch goes back to the game port, then to the logic board, and also to Signal Ground. This resistor limits the amount of current drawn from the power supply by closing the switch. It does not limit the current going back to the game port.

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