

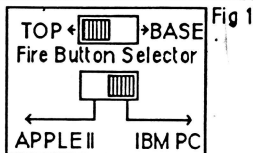
Tac1+™

Analog Joystick Controller

USER GUIDE

Computer Selection

Before installation, turn your Tac1+ upside down to select the applicable computer. One of the 2 slide switches on the underside (Fig 1) performs this function.

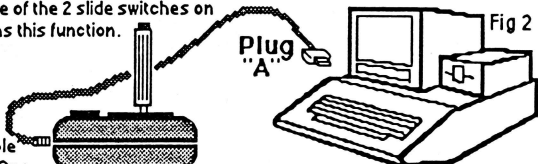


Connection

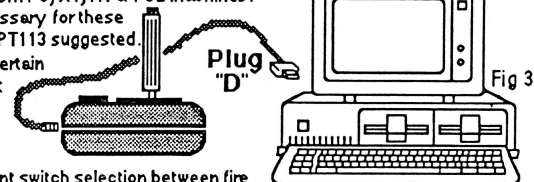
Your joystick output cable must terminate to your computer in the proper, compatible plug. The cable is 2-legged. One leg ends in a 9 pin submini plug for Apple IIe, IIc & IIgs (Fig 2). This plug is marked "A".

The other leg ends in a 15 pin submini plug marked "D" (Fig 3). This plug is to be used with IBM PC, XT, AT & PS2 machines. An Analog Input Port is necessary for these machines. Suncom model GPT113 suggested.

The table below identifies certain Suncom adaptors to connect Tac1+ for special situations.



Apple IIe, IIc, IIgs
and compatibles



IBM PC, XT, AT, PS2
and compatibles

Operation

Your Tac1+ offers convenient switch selection between fire button functions. The underside - located switch (Fig 1) marked **IBM PC, XT, AT, PS2** TOP \leftrightarrow BASE allows you to change from top-mounted fire button and compatibles to case-mounted fire buttons for better control using certain software. See software manual for more details.

ADAPTORS*

FOR	Use Suncom model #
IBM PCjr	SFZ102
Apple II, II+	SFA034
2 Tac1+ at once on IBM	DJY109

CAUTION

Never attempt to connect 2 computers at once to your Tac1+.

*Note: Many different "clones" or "compatibles" are made which emulate versions of the IBM PC & Apple II series. Consult your computer manual to determine which computer standard is closest to your own machine.

More operating instructions overleaf



Suncom

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"Action", "Do" or "Fire" Buttons

Three momentary contact switches are provided on the top panel and control stick top of Tac-1+. These switches correspond to "0" and "1" signals as interpreted by your computer. The control stick top button equals the "0" signal. The two case-mounted buttons are wired together and equal the "1" signal. Every software program calling for an analog joystick treats these buttons in a unique way. Consult your computer & software manuals for specific function explanations.

Cursor Centering Trimmers

When using an analog joystick it is occasionally necessary to tailor the controller's electrical characteristics for the particular software or computer in use. Two "Centering Trimmers" are provided on the top panel of Tac-1+ for this purpose. One trimmer controls the "X" axis, the other controls the "Y" axis, as displayed on your computer screen.

The centering trimmers are potentiometers, much like volume controls in a radio or television set. Slide each across its range to locate the appropriate center point for your particular computer and software.