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Chapter 1

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1.1 Deluxe_Analog_Joysick

Deluxe Analog Joystick v2.1
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~Why~an~Analog~Joystick?

Compatible~Games:

Fighter~Duel~Pro-2:

Sensitivity~Adjustment:

Parts:

Joystick~Calibration:

Disclaimer:

History:

Author:

1.2 Introduction

Amiga Deluxe Analog Joystick Switch

While researching analog joysticks for my Amiga, I found that there were alot of different hacks out there all trying to do the same thing. Before you say and here comes another, let me explain why this one is the best.

The major problem is there is no standard for analog joysticks on the Amiga. Some software companies wrote the analog drivers differently. Some swapped the X & Y axis connections and some swapped the Fire button 1 & 2 connections, while others need a capacitor on the X & Y potentiometer wiper for added sensitivity! Why they choose to do it this way is beyond me.

This hack will allow you to switch between all the different functions, so you will be compatable with programs out now or others written in the future.

So until someone develops a standard or makes a fair priced analog joystick for the Amiga, this is it.

1.3 Compatible Games

Games Supporting Analog Sticks:

- > Fighter Duel Pro
 - > Fighter Duel Pro-2
 - > Fighter Duel: Corsair vs Zero!
 - > Flight of the Intruder
 - > Mig-29 Fulcrum
 - > Mig-29 SuperFulcrum
 - > F-19 Stealth Fighter
 - > F-15 Strike Eagle II
 - > Birds of Prey
-

- > Knights of the Sky
- > Flight Simulator II
- > Genie Airwarrior
- > A10 Tank Killer Enhanced version
- > World Circuit
- > more?? Send me E-mail.

1.4 Fighter Duel Pro 2

Fighter Duel Pro-II

Fighter Duel Pro 2, by Jaeger Software, Inc. Has a feature in that it supports the CH Flight Stick Pro analog joystick. This stick features what is referred to as the 'coolie', 'top', or 'Madonna' button.

This allows you to have four instant view changes at the touch of a button on the top of the stick. Included is an alternative way in which to hook it up, you must add 2 more wires than are included in any existing analog adapter we have ever seen.

1.5 Sensitivity

Sensitivity Adjustment:

Ideally you want to use .15 microFarad caps, but other values will work. Here is list of values and their range readings using Anacal.

Note theses values may be a little different depending on the brand of Joystick you use.

.1 micro-- X axis 0-120
Y axis 0-120

.15 micro--X axis 0-220 (Full Range of Amiga 0-255)
Y axis 0-220

.22 micro--X axis 0-255+ (off scale)

Y axis 0-255+ (off scale)

1.6 Parts

Parts:

- > S1-- SPST Switch
- > S2-- DPDT Switch
- > S3-- DPDT Switch
- > C1-- .15 μ f Capacitor (ceramic,mylar,tandulum ect.)
- > C2-- .15 μ f Capacitor (ceramic, mylar, tandulum ect.)
- > 1-- 15~pin~female~connector
- > 1-- 9~pin~female~connector

Note: a hooded connector will not fit on an A2000, best thing to use is a Joystick extension cable (made for Atari®) with the regular slim line joystick connection, Radio Shack used to carry them.)

- > 1-- Small project box
- > misc wire, solder ect.
- > Your choice of IBM analog Joysticks. (15 pin connector type).

Schematic~Diagram:

1.7 Joystick Calibration

Joystick Calibration

To calibrate or just check to see if it is working properly, I recomend a program called Anacal written by Tony Solomon of C&P Software. This program is freeware and is included with this archive, Thanks Tony.

This program will allow you to calibrate (center) your analog stick before you start playing a game.

It shows you the Range of the X & Y potentiometers ie: 0-180, the average X & Y value ie:90 and the current stick settings which can be changed by adjusting the trimmers on your stick. Ideally you want to get it exactly centered, so your current settings match the average X & Y values.

It also checks for up to 4 fire buttons, although most sticks have only 2.

1.8 Disclaimer

Disclaimer:

I assume NO responsibility for your use of this wiring information!

If done incorrectly it could easily damage your computer.

Don't let that scare you. I have used this design for about 4 years. I have built them for my friends as well and the design works very well.

This hack is Freeware, send me email or something if you really like it. If you make any money off of it you have to split it with me. I think thats reasonable considering the "Amiga Smart Port" sales for \$52.95.

1.9 History

History:

- 05 April 92 (Version 1.0)

- 06 January 94 (Version 2.0) Included wiring for CH FlightStick Pro & Fighter Duel Pro-2

- 06 December 94 (Version 2.1) Changed to Amiga Guide format.

- 30 April 96 (Version 2.2) Polished up the final product for public release on Aminet.

1.10 Author

Author:

This hack is freeware, but if you would like to send me a disk full of hacks, pics or what ever, feel free to do so. If you make a million bucks of my design you have to split it with me.

For other neat hacks, download (Maps1.lha). Any hacks sent to me will be included in my next issue of Maps, unless the author specifically states not to.

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