



When Sinclair (Amstrad at that point) wanted to add joystick ports to the ZX Spectrum +2/+3, they chose to change the pinouts (mostly to keep people from buying Atari-style joysticks). Not to be confused with the Atari-compatible Kempston interfaces.

There are no active components on this, so you may as well just create a dedicated cable with these changes instead of having a straight-through IDC to DE-9.

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File: Sinclair.sch

**Title: Sinclair Adapter (C64 JoyKEY)**

Size: A4	Date:	Rev: A
KiCad E.D.A. kicad (5.1.8)-1		Id: 1/1