Notes for the CASIO Interface Schematic

The circuit is essentially straight out of the Maxim data sheet as it's just a straight TTL - RS-232 conversion. The power supply comes from the `DTR` and `RTS` which must both be asserted (brought positive) by the software if the interface is to work. The parts are relatively inexpensive and readily available. It's a good idea to socket the MAX232 just in case you want to recycle it in future.

The **RX** and **TX** lines are at RS-232 levels while the **Rx** and **Tx** lines are at logic levels. Remember that the CASIO must not experience voltages above logic level so be very careful when wiring it up. All the **GND** lines should be connected. The serial output is **TX** which is translated to casio-level **Tx**. Likewise the casio level **Rx** is converted to **RX** at RS-232 levels.

The main idea behind this interface, unlike the others I have seen, is that the cable to connect to the SF organizer is not an integral part of the interface. Instead the interface has a 2.5mm socket just like an organizer and the cable that connects the interface to the diary is the same as that for connecting two diaries together, i.e. a (*null modem*) cable with two 2.5mm jacks at either end. This gives you an SF interconnection cable for 'free'.

I built my interface in a small D25 box with a female D25 connector for connection to old PC's and Amigas. More recent machines use a D-9 serial connector so a simple D-25 to D-9 connector cable is needed (which comes in useful in any case).

NB - This may not work with some Digital Diaries - notably the SF-4300