Diagnostic 586220 Harness - Keyboard Dongle Rev. 1

Module Description

The Keyboard Dongle for Diagnostic 586220 provides the required feedback connections for testing the C64’s CIA U1, which the keyboard is connected to. A LED and current limiting resistor is connected between the +5V and GND pin of the keyboard. The Restore key is connected to a dedicated line and is not tested.

The feedbacks shared with the joystick signals are connected to a pin header, which is then connected to analog switches on the User Port PCB via a ribbon cable. In case this feature is not desired, the adjacent pins (1-2, 3-4, …) can be jumpered.

# Connections

20p receptacle (pitch 2.54mm)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Pin** | **Signal** |  | **Signal** | **Pin** |
| 5 | PB3 | ↔\* | PA3 | 17 |
| 6 | PB6 | ↔ | PA6 | 14 |
| 7 | PB5 | ↔ | PA5 | 15 |
| 8 | PB4 | ↔\* | PA4 | 16 |
| 9 | PB7 | ↔ | PA7 | 20 |
| 10 | PB2 | ↔\* | PA2 | 18 |
| 11 | PB1 | ↔\* | PA1 | 19 |
| 12 | PB0 | ↔\* | PA0 | 13 |

* Switched interconnects (via ribbon cable and User Port PCB.

# Connector to User Port PCB

2x5p boxed pin header, 2.54mm pitch

|  |  |  |  |
| --- | --- | --- | --- |
| Signal | Pin | Pin | Signal |
| PB0 | 1 | 2 | PA0 |
| PB4 | 3 | 4 | PA4 |
| PB3 | 5 | 6 | PA3 |
| PB2 | 7 | 8 | PA2 |
| PB1 | 9 | 10 | PA1 |

# Test

The test was passed successfully. It is described in the user port PCB test documentation.

# Revision History

## Rev. 0 → Rev. 1

* The feedback between PA0↔PB0 … PA4 ↔ PB4