

# Firmware Troubleshooting

## Apps

**dout\_buttons**

**dout\_enc**

**enc\_speed**

**iic\_midi\_sw\_loopback**

**jitter\_mon**

**lcd\_interconnection\_test**

**mbfm\_interconnection\_test**

**mbfm\_testtone**

**mbsid\_interconnection\_test**

A CORE→SID Module Interconnection Test

This application allows you to check the interconnections to the SID module with a multimeter. You can control the SID pins by sending a Modulation Wheel event to your MIDIbox SID - just connect a keyboard or use MIDI-Ox (View→Control Panel), or the MIOS MIDI Keyboard (click on the modulation wheel and use the cursor keys up/down).

By default all unselected pins are 0V, except for the CS# pin which is 5V

The Pins are mapped to following Modulation Wheel Values:

```
# 0: Pin A0 = 5V
# 1: Pin A1 = 5V
# 2: Pin A2 = 5V
# 3: Pin A3 = 5V
```

```
# 4: Pin A4 = 5V
# 5: Pin RES# = 5V
# 6: Pin D0 = 5V
# 7: Pin D1 = 5V
# 8: Pin D2 = 5V
# 9: Pin D3 = 5V
#10: Pin D4 = 5V
#11: Pin D5 = 5V
#12: Pin D6 = 5V
#13: Pin D7 = 5V
#14: Pin CS# = 0V
```

The current pin name selected will show on the LCD (if connected).

The pins are identified by : ?

To measure the voltage (and test the connection to that pin is good), connect your multimeter's red lead to ? and the black lead to ? and select the pin using the modulation wheel.

## **mbsid\_led\_matrix\_test**

## **mbsid\_testtone**

## **mf\_calibration**

## **mf\_direct\_control**

## **revision\_id**

## **srio\_interconnection\_test**

# **Hints**

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