Overview

The Solid State Flip is a page turner interface designed specifically for pipe organ console. It converts traditional piston wiring to a Bluetooth wireless signal which controls page turns in music reading apps on tablets

Linking with devices

The Flip uses Bluetooth to connect to your wireless device. It can only connect to one device at a time, which prevents interference from colleagues. However, 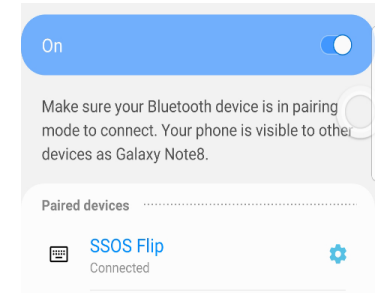you can pair with multiple devices, and the first device found when the organ comes on will link up. If you wish to force the Flip to link to another device, then go to your Bluetooth settings and choose to disconnect it. Using Android a temporary disconnect is done by tapping on the device name in the list. Using Apple this is done by selecting "forget this device."

If you need to have two devices continuously linked to the organ, then a second Flip may be wired in parallel using the same pistons.

To Pair with the Flip open your Bluetooth settings and look for "SSOS Flip" in the list of discoverable devices. Once the Flip has paired a blue led will light in the Flip box and an icon will appear on your tablet.

Compatibility

Flip is compatible with common digital sheet music apps that support Bluetooth page turning including: ForScore, Orpheus, MobileSheets, and PiaScore.
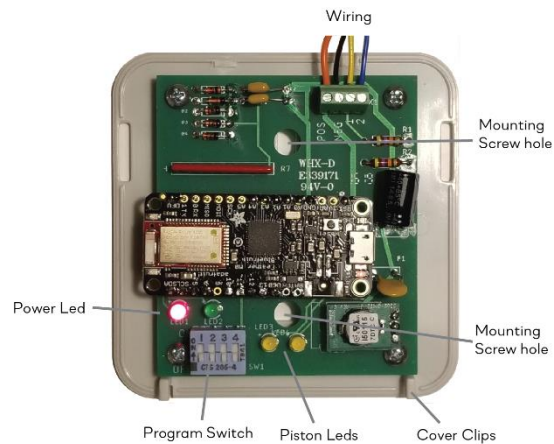

SOLID STATE ORGAN SYSTEMS

www.ssosystems.com   800 272 4775

Installation

Wiring

Mounting Screw hole

Power Led

Mounting Screw hole

Program Switch   Piston Leds   Cover Clips

The Flip communicates wirelessly and so location is important to make sure the console parts do not interfere with the signal. Metal such as stop-jamb wiring will block the signal and thick wood will weaken it and possibly make the page turning unreliable. It may be a good idea to temporarily wire the Flip and test it in different locations. Ideally the Flip will be mounted close to the music rack, perhaps behind the nameboard. Once a good location is found there are two screws provide to attach the Flip to the console.

The first secret to unveil is opening the box. There are clips holding the cover in place that are released by squeezing the sides of the cover on the sides near the top marked by icons.

The Flip has 4 connections to the organ console.

1. Positive DC power, between 10 and 30V connected from the console or organ. The Flip is internally fused for 0.5A.
2. Negative or 0V DC. Connect to the console or organ but the same power as the positive
3. Advance piston positive input
4. Turn back piston positive input

When wiring to the screw terminals first feed the wires through the slots in the cover.

Power on: When the power is first turned on all 4 leds will flash and then the Flip will settle with the power led on and two small leds, one flashing and on lit dimly.

To test your piston wiring one of the yellow leds will flash for each of the two pistons pressed. Check this to be sure you are getting a good signal.

Replacing the cover.

The cover clips onto two small bumps at the bottom of the unit and then hinges down and clips into place.

Setup

For most installations the Flip will just power up and pair easily to a device and work. We have built in several diagnostic tools and setup options to help you when things are not so straightforward. As with all our products you are welcome to call us for advice.

The switch on the mainboard is used to set options. All switches are only read on startup, pressing the reset button on the main board will reboot.

Switch 1 and 2 are used to change the data sent to the page turn software as some software uses other commands. By default, Flip supports Page Turn protocols.

Switch 3 is to select an optional Bluetooth name if you have two Flips in the console.

All switches off = normal -- Pistons will send left arrow and right arrow

Switch 1 on -- Pistons will send up arrow and down arrow

Switch 2 on (switch 1 is ignored) -- Piston will send page up and page down

Switch 3 changes the Bluetooth name between: --

Off: SSOS Flip
On: SSOS Flip II

Switch 4 on (switch 1 and 2 normal mode is ignored) --Test mode

Switch 1 will make led 1 flash
Switch 2 will make led 2 flash
Switch 3 will make led 3 flash
Switch 4 will make led 4 flash

LEDs

Red = Power On

Green = Flashes during factory reset

Left Yellow = Turn Forward indicator

Right Yellow = Turn Back indicator

Factory Reset:

Press and hold both advance and back pistons at the same time for at least 2 seconds will cause a factory rest. This can be used if you want to delete the Bluetooth pairing data.

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