

# Sip/Puff Switch with Headset

## Getting Started and Installation Guide



Figure 1: Sip/Puff Switch with Headset Package Contents

Origin Instruments Sip/Puff solutions are ideal for people who have limited or no motor capability enabling them to operate switch activated devices, including computers, augmentative communication devices, adapted toys, environmental control systems and devices accessed or controlled via scanning.

The Sip/Puff Switch with Headset package consists of:

- Sip/Puff Switch with integrated “sip” and “puff” pressure switches
- Headset with 6-foot tube (1.8-meter)
- 4 mouth tubes (one attached to the Headset)
- Cables (1 mono and 1 stereo)

The Headset consists of an adjustable and padded head frame that mounts over the ears and behind the neck, a mouth tube and a headset tube for connecting to the Sip/Puff Switch. The adjustable head frame can be personalized as desired for a loose or tight fit.

The pliable mouth tubes use a stainless steel forming wire to position them next to the mouth. Please note the forming wire must extend past the first bend in the headset’s stainless steel tube in order to hold the mouth tube in place. The headset comes with four mouth tubes – one is attached and three extras are included in the package.

The Sip/Puff Switch has two connectors for the sip and puff switches and a pneumatic connector for the headset. The electrical connectors are 1/8-inch (3.5mm) microphone connectors and are the type typically used for adaptive switches. The switch contacts are normally open; closure is made with a sip or puff to the mouth piece. The switches are designed for low current and voltage applications.

**WARNING:** Do not use the Sip/Puff Switch to control currents greater than 0.040 amps or voltages greater than 30 volts. Larger voltages and currents may permanently damage the switch and will void the warranty.



Figure 2: (a) Sip/Puff Switch electrical connectors and connector sense switch. Stereo cable should be plugged into the center connector. (b) Pneumatic connector.

Two cables are included with the Sip/Puff Switch. Connect a stereo cable to the center connector if both sip and puff closures are communicated to the controlled device using one cable.



Figure 2: Mating plugs for Switchbox jacks, 1/8" microphone (3.5mm). (a) Mono plug has switched contact on the tip with the common contact on the sleeve. (b) Stereo plug has switched contacts on tip and ring with the common contact on the sleeve. Stereo cable is ALWAYS plugged into the center connector.

With connector sense switch to the "left" and a stereo cable, a sip will cause a closure between the "TIP" and "SLEEVE" and a puff will cause a closure between the "RING" and "SLEEVE." The right jack must remain open when using a stereo cable. Slide switch to the right to reverse contacts on the center connector.

The headset tube is attached to the switchbox via the 6-foot tube with a special pneumatic connector. Simply slide the halves together and gently twist the lock nut. *The nut should not be over tightened.*

## Cleaning and Replacements

Cleaning of the Headset is easily accomplished by removing the mouth and headset tubes and washing them in dishwashing solution. Soap and water can also be used to clean the metal tube attached to the headset. As a follow-up to cleaning, sterilization of the metal and plastic tubing can be accomplished by flushing them with isopropyl alcohol. A can of compressed air can be used to flush the water and alcohol from the tube. ***Be sure to thoroughly dry the tubing before using.***

The Sip/Puff Switch may be cleaned with a damp cloth, but it should never be soaked with any water or cleaning solution. Do not put or allow any kind of liquid into the pneumatic connector on the switchbox.

When a mouth tube wears out it is simply slipped off the stainless tube and replaced with a new one. To ease mouth tube installation isopropyl alcohol may be used to wet the mouth tube prior to slipping it onto the metal tube.

Additional mouth tubes and filters are available from Origin Instruments (<http://shop.orin.com>)

## Customer Support

Origin Instruments provides world-class technical support. Our customer support services are staffed by highly qualified technical personnel ready to solve any installation, usage or operational issue that you may encounter.

Support is provided by Origin Instruments during the hours of 8:30 a.m. to 5:30 p.m. Central Standard Time, Monday through Friday. For product support, please call (972) 606-8740 or email [support@orin.com](mailto:support@orin.com).

## Related Origin Instruments Products

- Multi-User Sip/Puff Switch - Multi-user version of Sip/Puff Switch designed for use with special, disposable mouthpieces. Perfect for assessment centers, healthcare facilities, hospitals, etc.
- HeadMouse® Extreme – Wireless head-pointing computer mouse emulation
- SofType™ – Onscreen keyboard for Microsoft Windows
- Dragger™ – Mouse click utility for Microsoft Windows
- KeyStrokes™ – Onscreen keyboard for Mac OS
- SwitchXS™ – Switch scanning software for Mac OS
- Swifty™ – USB switch interface for wired and wireless connections
- Beam™ – Wireless switch transmitter



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