MINI - REMOTE™ USER'S MANUAL

Rev 1.2 27-Jan-2014

Thank you for purchasing the Ashby Solutions Mini-Remote option for your Neo Instruments mini-VENT™ or mini-VENT for Organ™. (From this point on, unless there are important differences, we'll refer to them both as the mini-VENT.) The Mini-Remote allows the mini-VENT to be compatible with a variety of remote switches and onboard controls, and even to be controlled in ways that are not possible on a stock mini-VENT.

The Mini-Remote is compatible with both mini-VENT models; however, some Operating Modes can only be used on the organ model. Please see the Operating Modes section for details.

INSTALLATION

Once the Mini-Remote is installed, it replaces the Bypass switch on the mini-Remote with a 1/4" TRS phone jack for connection to remote control devices. The mini-VENT's Speed switch is still active, and can still be used as a speed control. The Mini-Remote gets power from the mini-VENT, and requires no additional connections.

OPERATING MODES

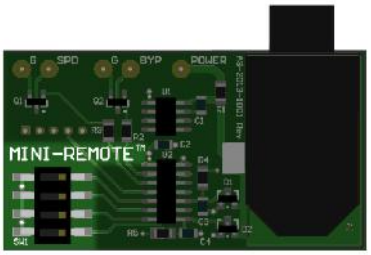
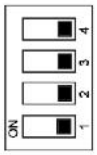


Figure 1

The Mini-Remote has eleven (11) operating modes, six for halfmoon and 'legacy' pedals, and the rest for use with a momentary foot pedal. The mode is selected by a DIP switch found just below the words MINI-REMOTE™ on the board (Figure 1).

Please read this section thoroughly before choosing your operating mode. Your installer can set the switch to the proper position, or a pen or small screwdriver can be used to make any necessary changes. If you have any questions, please contact your installer or Ashby Solutions.

It's best to make switch changes while the mini-VENT is unplugged from its power adapter. (The Mini-Remote reads the DIP switch at each power-up, so the mini-VENT has to be turned off, anyway.) Also, be careful not to apply excessive force to the DIP switch while changing settings; failure to do so may damage the device.



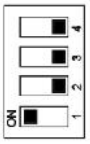
NEO REMOTE MODE (DEFAULT)

This setting is compatible with the Neo Instruments Remote Footswitch made for the original Ventilator. It is also compatible with many other Ventilator peripherals:

- Hammond-Suzuki CU-1
- Nord C1/C2 halfmoon
- VENT-11/11U adapters
- Trek II VIB-3
- Ashby Solutions' remote pedals and Halfmoon Switches

A 3-wire cable with a TRS plug on the mini-VENT side is required to connect the Mini-Remote to the other device. Wiring is the same as for the original Ventilator.

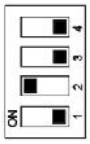
Note: This setting was designed for the mini-VENT for Organ, when as a full-time rotating speaker substitute, and there is no way to turn the effect on and off. The mini-VENT for Organ powers up with the Effect on, so everything works properly. As the guitar mini-VENT powers up in Bypass, this mode can <u>not</u> be used on that model.



NEO REMOTE WITH DELAY

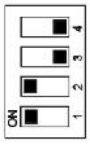
This setting works exactly like Neo Remote Mode, except that it adds an additional delay of about 1 sec. between speed changes, to simulate the original switching circuit in a Leslie 122. (In a classic Leslie 122, there is a time delay between when the switch is moved, and the actual response.)

Note: This mode is <u>not</u> compatible with the guitar mini-VENT (see Neo Remote Mode).



CLASSIC TWO-WAY HALFMOON (TOP SETTING)
CLASSIC TWO-WAY HALFMOON WITH DELAY (BOTTOM SETTING)

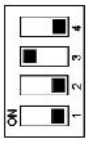
The top switch position supports connection of a classic two-speed (Chorale-Tremolo) halfmoon switch with closed contacts selecting Chorale speed, as seen in most vintage console Hammond setups.



The bottom switch position works the same, except that it adds the 1 sec. speed change delay.

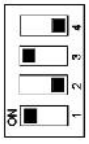
A 2-wire cable with a TS plug on the mini-VENT side is required to connect the Mini-Remote to the switching device. The Ring position has no function in this mode.

Note: These modes are <u>not</u> compatible with the guitar mini-VENT (see Neo Remote Mode).



MODERN TWO-WAY HALFMOON (TOP SETTING)
MODERN TWO-WAY HALFMOON WITH DELAY (BOTTOM SETTING)

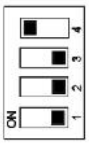
The top switch position (left) supports connection of a two-speed (Chorale-Tremolo) halfmoon switch with closed contacts calling for Tremolo speed, as seen in many modern organ setups.



The bottom switch position works the same, except that it adds the 1 sec. speed change delay.

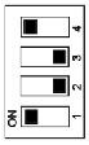
A 2-wire cable with a TS plug on the mini-VENT side is required. The Ring position has no function in this mode.

Note: These modes are <u>not</u> compatible with the guitar mini-VENT (see Neo Remote Mode).



PASS-THRU CONNECTION (TOP SETTING)
SWAPPED PASS-THRU CONNECTION (BOTTOM SETTING)

The top switch position provides foot switches that function exactly like the ones on a stock mini-VENT – except that they can be placed in another location. A 3-switch pedal can be used to provide dedicated switches for each function (Speed, Stop, Bypass).



Tip:	Toggles the Speed between Chorale (slow) and Tremolo (fast)
Ring:	Toggles between Bypass and Effect settings
Tip+Ring:	Selects Stop speed

The bottom switch position works the same, except that the Ring and Tip+Ring functions are swapped. This makes it easier to select Stop speed with a 2-position pedal, moving Bypass to the more complicated two-switch press.

Tip:	Toggles the Speed between Chorale and Tremolo
Ring:	Selects Stop speed
Tip+Ring:	Toggles between Bypass and Effect settings

A 3-wire cable with a TRS plug on the mini-VENT side is required to connect to the control pedal, wired as in Figure 2. The Mini-Remote senses the polarity of the switches (normally-open or normally-closed); however, the polarity types cannot be mixed. If no switch is plugged in at startup, the Mini-Remote will assume that the switches are normally-open polarity.

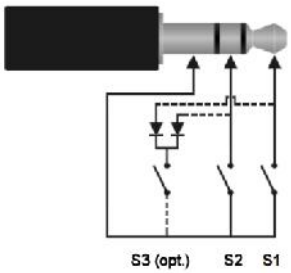
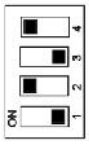


Figure 2

Note: There is no industry standard for which switch (Left, Right) is connected to the Tip and Ring on commercially-available foot pedals. This manual only refers to the 'Tip switch, 'Ring switch,' etc.; and the actual response may often change between models/manufacturers.



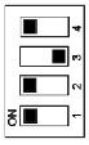
NEW 760 MODE

This setting provides three functions – Speed, Stop, Bypass – from a 2-switch pedal, using an alternate method that eliminates the need to press two switches at once. The Stop and Bypass functions are controlled by the same pedal, depending on how long the pedal was pressed; otherwise, operation is essentially the same as Pass-Thru Connection and the standard mini-VENT.

Press Tip:	Toggles the Speed between Chorale and Tremolo
Press Ring:	Selects Stop speed
Hold Ring for 2 sec.:	Toggles between Bypass and Effect settings

Pressing the Stop switch multiple times has no effect.

A 3-wire cable with a TRS plug on the mini-VENT side is required to connect the Mini-Remote to the momentary switch pedal. As in Pass-Thru Connection, the polarity of the switches is auto-sensed at startup.



NEW 122 MODE

This setting provides three functions – Speed, Stop, Bypass – from a 2-switch pedal, but with functions more closely aligned with the '122 Style' setting in the Neo Remote Footswitch and many Ashby Solutions pedals:

Press Tip switch:	Toggles the Speed between 'Slow speed' and Tremolo
Press Ring switch:	Brake Mode – selects whether 'Slow speed' is Chorale (2-speed Leslie) or Stop (1-speed Leslie)
Hold Ring for 2 sec.:	Toggles between Bypass and Effect settings

Press Tip	Speed changes Chorale → Tremolo	Press Ring	No change; next Slow speed is Chorale
Press Ring	No change; next Slow speed is Stop	Press Tip	Speed changes Tremolo → Chorale
Press Tip	Speed changes Tremolo → Stop	Press Tip	Speed changes Chorale → Tremolo
Press Tip	Speed changes Stop → Tremolo	…	

A 3-wire cable with a TRS plug on the mini-VENT side is required to connect the Mini-Remote to the momentary switch pedal. As in Pass-Thru Connection, the polarity of the switches is auto-sensed at startup.

SINGLE SWITCH MODE

This mode allows control of the mini-VENT with *one* remote pedal/switch (ex: a sustain pedal):

Short press:	Toggles the Speed between Chorale and Tremolo
2 sec. Press:	Toggles between Bypass and Effect settings

A 2-wire cable with a TS plug on the mini-VENT side is required to connect the Mini-Remote to the switching device, a 1-switch pedal with momentary contacts. The Ring position has no function in this mode. As in Pass-Thru Connection, the polarity of the switch is auto-sensed at startup.

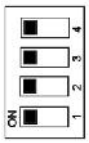
SPECIAL MODES

PROGRAMMING MODE

This mode converts a single switch (or the Tip connection of a 2-switch pedal) into the Bypass signal.

Short press: Sends a Bypass switch pulse
2 sec. Press: Sends a Save Data pulse and exits Preset Programming mode on the mini-VENT

A cable with TS (or TRS) plug on the mini-VENT side is required to connect the Mini-Remote to the switching device; normally, a momentary pedal. The Ring position has no function. As in Pass-Thru Connection, the polarity of the switch is auto-sensed at startup. Most pedals will need this function to program the mini-VENT. Please see *A/B Preset Programming* for more details.



SELF-TEST MODE

This mode sends Fast/Slow and Bypass changes, regardless of whether any remote switch is attached or pressed. <u>This mode is only useful when adding the Mini-Remote option to a mini-VENT, or for service.</u>

A/B PRESET PROGRAMMING

Programming presets in the mini-VENT works about the same way as in the stock product: press and hold the mini-VENT's Slow/Fast switch for 3 sec. or so while powering on; once the mini-VENT is in its Preset Programming mode, use the Bypass and Slow/Fast switches as Down/Dec. and Up/Inc. selectors, respectively. Then, a 'long' press will save the settings in the presets. Since there is no Bypass switch per se on the mini-VENT, though, some of the steps will change. Depending on the control setup, here are the recommended ways to program the presets:

Universal Method – Change to Programming Mode; use a single momentary switch – or the Tip switch of a dual footswitch – as Bypass. Use the mini-VENT's onboard Speed switch for the other signal, as shown in Figure 3.

Neo Remote Mode (optional) – Change to Programming Mode. Put the halfmoon or other control in the Stop/Off position before powering on the mini-VENT. Tap the halfmoon, etc. into the Chorale position, and then return to Stop/Off, to simulate pressing the Bypass switch. (Two presses/movements are required to send *one* pulse.) Use the mini-VENT's onboard Speed switch for the other signal. At the end of the programming session, switch to the closed position again, and leave it there until the mini-VENT returns to normal operation.

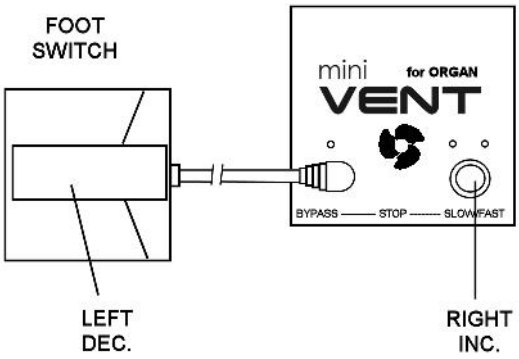


Figure 3

2-way Halfmoon direct connection (optional) – Change to Programming Mode; use the halfmoon as Bypass switch: start in the 'open' position – you'll need to figure out which is which – then momentarily move to the 'closed' position, and then return to the open position, for each Bypass switch press. Use the mini-VENT's onboard Speed switch for the other signal. At the end of the programming session, switch to the closed position again, and leave it there until the mini-VENT returns to normal (spinning) operation.

SAVING THE DATA

Holding down the foot switch for 2 sec. while in Programming Mode will cause the Mini-Remote to save the current settings, exit Preset Programming,, and return to normal operation. (If the switch is held in normal mode, it will just cause the mini-VENT to Stop.) After programming, the DIP switch can be returned to your normal mode..
