

Wireless Hose Converter Kit

Part No. VAC-292

Compatible with all central vacuum power units this kit is used to convert existing standard hoses to wireless or to repair switched systems.

The wireless hose kit bypasses all wiring making it the perfect solution for central vacuum systems with damaged switch wiring.


Easy installation - simply replace the existing hose handle with the wireless handle provided and install the receiver at the power unit.

Kit includes:

- Switch handle with built-in transmitter.
- Hose-to-handle adapter
- Radio Receiver (mounts at the power unit)
- 12VDC plug pack for powering the receiver



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ASSEMBLING THE HANDLE TO A HOSE

If using the wireless control hose handle with a hide-a-hose, the handle can be attached directly to the hose without any modification to the hose required.

For standard hoses, remove the existing handle from the hose by cutting the hose close to the handle using a sharp bladed knife ensuring the cut is perpendicular (not angled)

Screw the supplied hose cuff to the end of the hose (Note: the hose has a reverse thread requiring the cuff to be screwed to the hose using an anti-clockwise rotation)

With the cuff fitted to the hose, the handle then inserts into the hose cuff as shown below.



FITTING THE RECEIVER TO THE VAC UNIT

Remove the plastic cover from the receiver.

Push back the PCB retaining clip with a small screw driver and remove the PCB from the plastic base

Plug the antenna into connector J1 on the PCB

Secure the plastic base to a suitable surface about 2m away from the vac motor unit but still within reach of a power point (for the 12V plug pack)

Secure the plastic base so the antenna will be vertically polarized (either hanging down or secured upwards)

* Ensure the heads of the screws used will not physically interfere with the electronics on the PCB

Secure the PCB into the plastic base.

Wire the C (common) and NO (normally open) contacts of the receiver to the vac motor unit.

* The receiver board can be wired directly to the vac unit or can be wired in series with the wiring from the inlet valves as shown in the following diagrams.

If the receiver is wired in series with the inlet valve wiring, the ON/OFF switch on the handle will not operate the vac unit unless the hose is inserted into an inlet valve.

If the receiver is wired directly into the vac unit, wiring to the inlet valves is not required.

The vac unit can turn on regardless of whether a hose is plugged into an inlet valve or not.

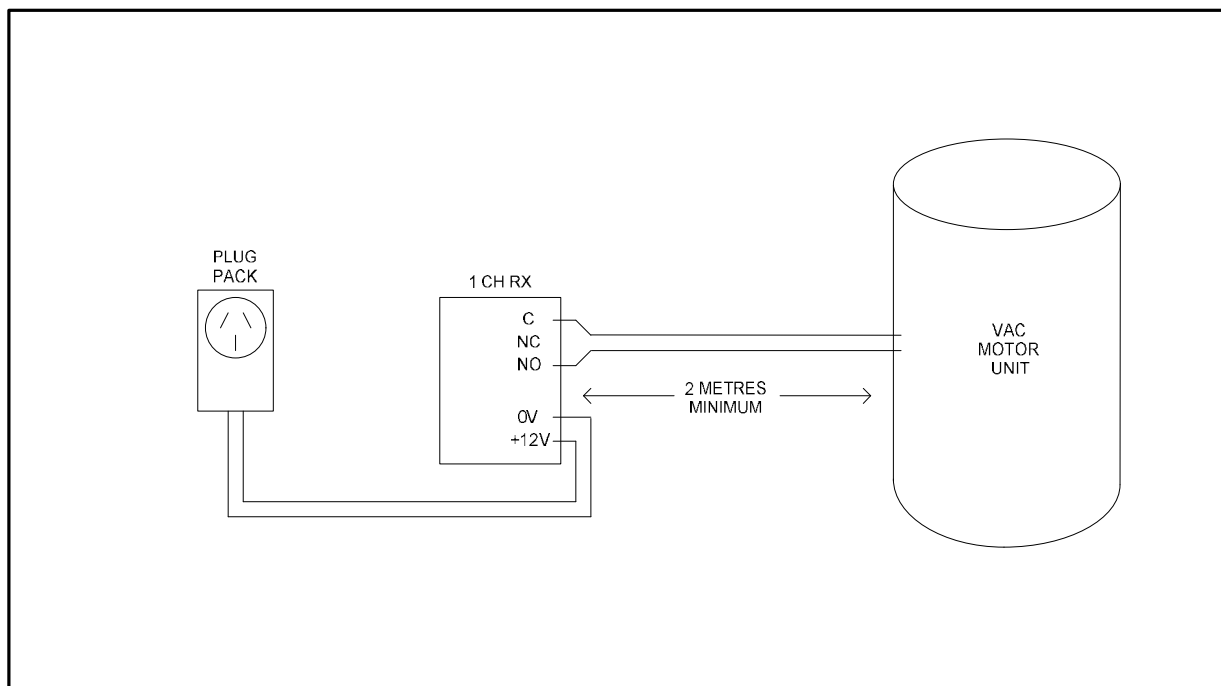
NOTE: Operating the vac unit without a hose plugged into an inlet valve is not recommended.

Wire the 12Vdc plug pack to the +12V and 0V terminals of the receiver being sure that the polarity is correct.

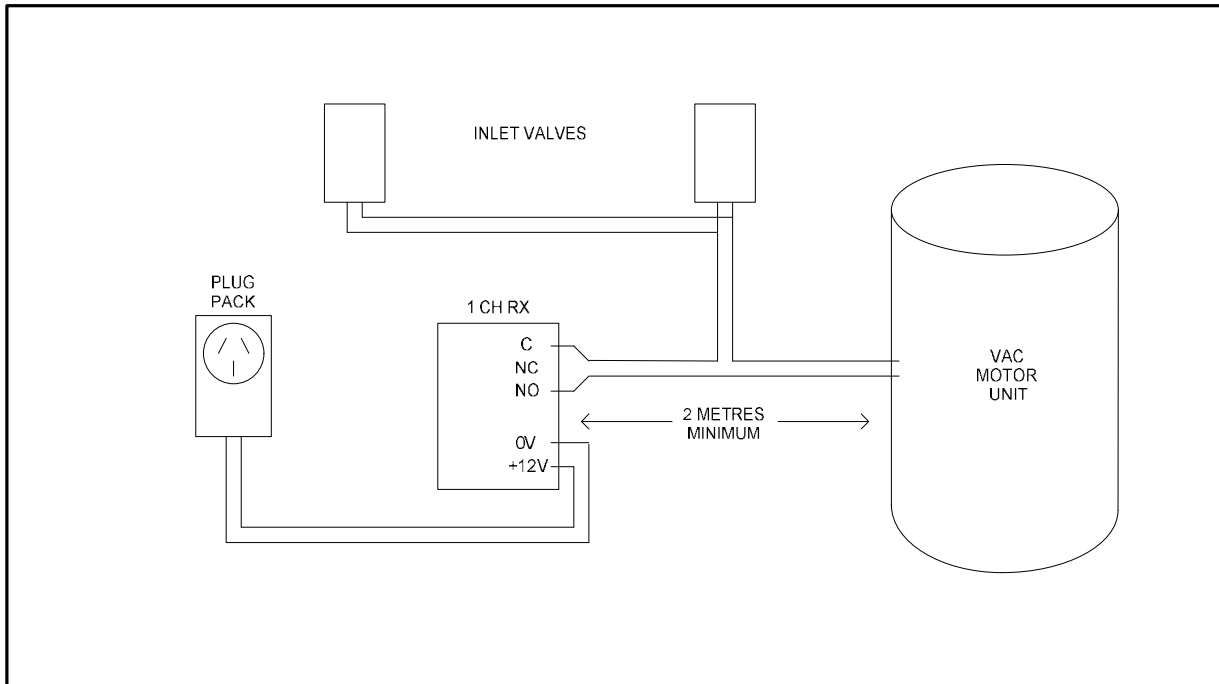
Switch power to the receiver on and program as per the programming instructions

Create appropriate cut-outs on the cover to facilitate the wiring and re-fit the cover to the receiver.

RECEIVER WIRED DIRECTLY TO VAC UNIT



RECEIVER WIRED IN SERIES WITH INLET VALVES



PROGRAMMING THE RECEIVER

The hose handle will already be programmed to the receiver so programming will generally not be required. If an extra handle is added at a later time or the handle (or receiver) is replaced, programming will then be required as follows.

PROGRAMMING STEPS

- Set switch 1 on the receiver to the ON position and switches 2-5 to the OFF position
 - The LED will flash fast to indicate program mode
- Turn ON the switch corresponding to the slot to be programmed as per table below
 - Switch 2 = Code Slot 1
 - Switch 3 = Code Slot 2
 - Switch 4 = Code Slot 3
 - Switch 5 = Code Slot 4
- If the selected code slot is not yet programmed, the LED will continue flashing fast.
 - If the selected code slot is already programmed, the LED will be ON
 - (Up to 4 wireless hose handles can be programmed)
- Send a learn signal from the Wireless Hose Handle by pressing the button on the handle 3 times
 - Note: Button needs to be pressed long enough so the red LED illuminates and the LED must extinguish before pressing the button the second and third time.
- When programming is completed, set switch 1 to OFF
 - The LED will flash slowly indicating normal operating mode.
- Configure switches for Toggle Mode as follows:
 - Switch 1 = OFF
 - Switch 2 = ON
 - Switch 3 = OFF
 - Switch 4 = ON
 - Switch 5 = ON

ERASING A CODE

Note: A radio key with separate ON/OFF buttons is required for this operation.

- Enter program mode by setting switch 1 to the ON position and switches 2-5 to the OFF position
- Turn ON the switch for the code slot to be erased
 - The LED will be ON indicating the slot is programmed.
- Press the ON button on any NESS radio Key
 - The LED will flash fast indicating the code is blank

OPERATION

- Insert the end of the hose into the inlet valve
- To turn the vacuum on, press and hold the button on the handle until the vacuum starts
- To turn the vacuum off, press and hold the button on the handle until the vacuum stops

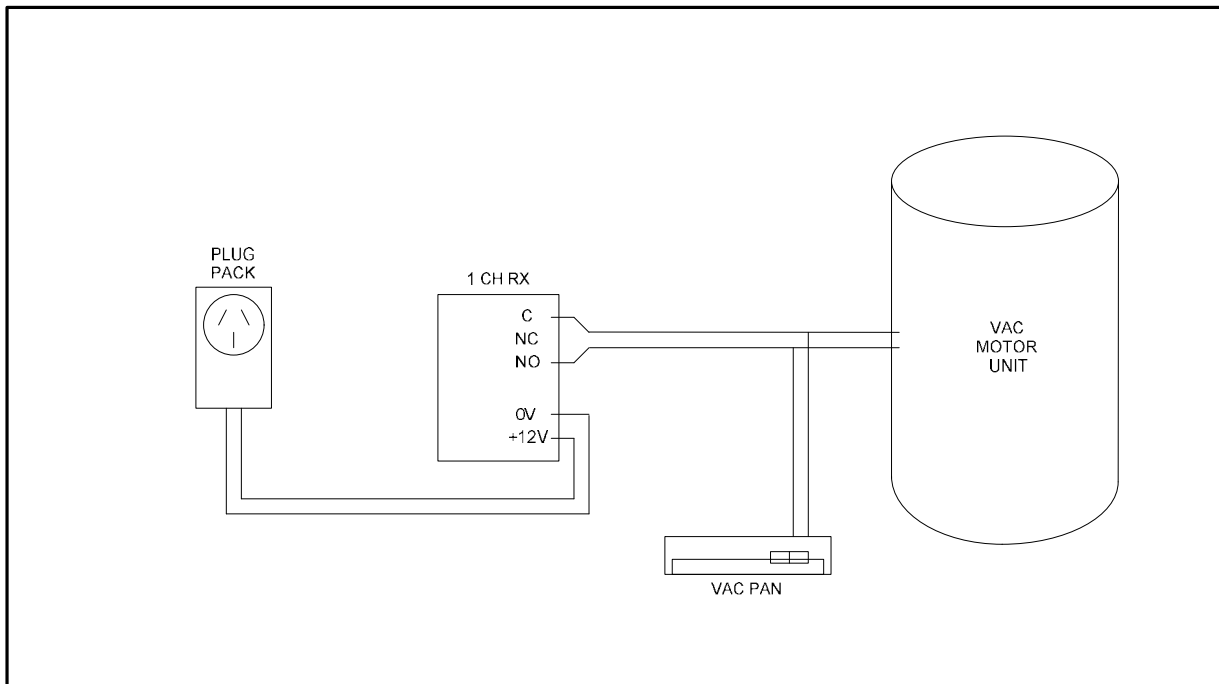
Note: When pressing the button, there is a 2 second delay. This is to prevent the vacuum turning on in the event of the button being accidentally pressed.

Important: Never activate the vacuum unless the hose is plugged into the inlet valve.

USING A VAC PAN

Where a Vac Pan is used, it is recommended that the Vac Pan be hard wired back to the vac motor unit. Wires from the Vac Pan are wired directly to the low voltage input connectors on the side of the Motor Unit as shown on the following diagrams.

VAC PAN - WITH RECEIVER WIRED DIRECTLY TO VAC UNIT



VAC PAN - WITH RECEIVER WIRED IN SERIES WITH INLET VALVES

