

# Varex Rocker switch install.

v1.00

## Whats it all about ?

The varex exhaust system comes standard with a wireless remote for opening and closing the valve. This can be handy, but personally it annoyed me, so... I removed it and put a nice rocker switch in the console. This will show you what I did (perhaps a little bit too much detail, but hey)

## A few words of warning

- If you're not sure about anything, don't do it. (You already know this)
- No... I will not be held responsible for any issues. Use this at your own risk. (You already know this one too)
- Always... ALWAYS make sure the positive feed from the battery for the varex has a suitable fuse. Without a fuse, a short could cause a fire (If you didn't already know this, then its time to stop reading this and go back to basics).
- This guide is free – if you think it's out of date, look for the latest version from [www.fobz.org](http://www.fobz.org)

## The standard setup

This is a few pics of what mine looked like. I got the unit around 2009, so perhaps things have changed a bit since then. But it will give you a good idea anyway.



## Lets get going

Unplug the control box, and chuck it with the remote at the back of a cupboard. You won't need it again.

The connector on the wiring harness will have four wires. 2 of them go to the battery, the other 2 go to the motor on the top mufflex to open/close the valve. It's a pretty simple setup where the normal controller sends 12v and Ground across the motor wires in one direction to open the valve, and to close the valve it reverses the polarity.


## The Switch

So, to solve this you need to wire in a DPDT momentary rocker switch... If you just said WTF, then I will try to break it down. DPDT means Double-Pole, Double-Throw. This means it can control 2 poles (ie 12v and Ground) and has 2 positions (for us this is open and close).

Anyway, the exact item that I got is shown below. I got it from jaycar. Looks like item SK0980. The main thing is that its DPTP, and is momentary (meaning you have to keep your finger on it). See the description below. Note it says its like the sort of thing you would use for power windows etc.

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**Components > Switches > Rocker**

COMING SOON ✦ | NEW ✨ | SPECIAL ✨ | LIMITED ⌚ | OUT OF STOCK ⊕

CAT. NO. SK0980		⊕	RRP	\$7.95
  CLICK TO ENLARGE	<b>DPDT Switch Centre Off Spring Return Both Sides</b>		QTY	
			1+	\$7.95
			10+	\$6.95
			25+	\$6.25
	Momentary contacts with spring returns to centre on both sides. These are commonly used for car power antennas and power windows. Rated at 10A 250V.			
	<b>This product is out of stock in our warehouse. Please check if your local store has stock.</b>			

A quick look at the altronics website also brings this up which looks like it might also fit the bill.

S3243 • DPDT Heavy Duty Centre-Off Spring Return Rocker Switch



So lets recap. The switch you want is:

- 1 DPDT
- 2 Momentary with a centre off
- 3 Must be able to handle the 10A or whatever fuse your varex shipped with... ie: don't get some tiny little switch which is going to get hot and melt.
- 4 Should fit nicely on your dash. Mine (the one from jaycar) fits nicely into the centre console of a GC8 Subaru WRX.

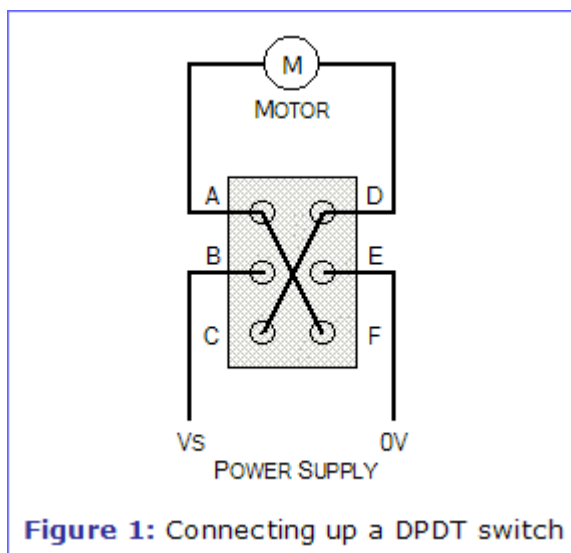
## The wiring

A few tips:

- Take your fuse out first, otherwise it might short and blow anyway.
- Push all the wires through the hole in the dash from the back first, as most switches fit from the front. Otherwise you might realise you have to resolder everything.
- If extending the wires, make sure your wire is heavy duty and capable of handling the amps that the varex system uses. Don't use some crappy thin wire... again: hot and melting

Get to it - Cut the connector off. Now, looking at the back of the switch, there should be exactly 6 terminals on it. Wire as per below

- 1 Connect the 12v lead from the battery to the terminal in the middle on the left (diagram shows this as "VS" connecting to terminal "B")
- 2 Connect the ground lead from the battery to the terminal in the middle on the right (diagram shows this as "0V" connection to terminal "E")
- 3 Connect one of the wires that go to the varex motor to the terminal on the top on the left (diagram shows this connection on terminal "A")
- 4 Connect the other wire that goes to the varex motor to the terminal on the top on the right (diagram shows this connection on terminal "D")
- 5 Now make a connection from terminal "A" across to "F" as shown
- 6 Also make a connection from terminal "D" across to "C" as shows



## Off and running

Plug in your fuse... enjoy. Press rocker one way to open, the other way to close. You have to hold the switch down until the varex opens/closes fully.

If you're like me and chose a rocker that matches the dash, then the ugly remote is gone and it will all look nice and neat in the centre console near the mirror controls. The pic below shows mine on the right, with the extra rocker on the left being there as a spare 😊



## The small print

I do not endorse any website, vendor, supplier or product. This guide is "as-is". I also like cake, chocolate mostly. Any representation made is purely coincidental and clearly shows that you made a mistake in assuming that the mind bending distortion loop represented by the internet is real... it is not. There is also a very slight chance that while you're reading this I am sitting naked in front of the TV... just sayin. No animals were hurt during the making of this document... some booze was consumed but I tried to avoid staggering into a wall so that should make you happy. Anyway, the dog is snoring on the carpet and I need another drink. Enjoy.