

| Florian - Motherboard                                                                                                                                                                                               |                           |                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 100R x 1<br>1K x 1<br>4K7 x 1<br>10K x 10<br>15K x 1<br>22K x 2<br>33K x 1<br>47K x 6<br>100K x 11<br>150K x 1<br>180K x 2<br>220K x 2<br>2M x 3<br>2M2 x 2<br><br><a href="#">All resistors ¼ watt metal film.</a> | <a href="#">100nF x 2</a> | <a href="#">1N4148 x 8</a><br><br><a href="#">3mm red LED x 4</a><br><br><a href="#">BC549 x 1</a><br><br><a href="#">TL072 x 2</a><br><a href="#">CD4024 x 1</a><br><br><a href="#">78L05 x 1</a><br><br><a href="#">8 pin IC socket x 2</a><br><a href="#">14 pin IC socket x 1</a> | <a href="#">Alpha A100K x 3</a><br><a href="#">Alpha B100K x 9</a><br><br><a href="#">Song Huei A100K x 6</a><br><a href="#">Song Huei B100K x 8</a><br><br><a href="#">DPDT on/on/on x 2</a><br><a href="#">SPDT on/on x 3</a><br><a href="#">SPDT on/off/on x 1</a><br><br><a href="#">40 pin female header x 4</a><br><br><a href="#">3 pin 90 degree male header x 1 (for LINK)</a><br><a href="#">Jumper x 1 (for LINK)</a><br><br><a href="#">3.5mm socket x 35</a><br><br><a href="#">Davies 1510 x 3</a><br><a href="#">Davies 1900 x 11</a><br><a href="#">Tall topper (for Res knob) x 1</a> |

| Florian - Assemblage Main PCB                                                                                                                                                                                   |                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                             |                                                                    |
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| 470R x 2<br>1K x 8<br>4K7 x 2<br>8K2 x 2<br>10K x 5<br>15K x 1<br>22K x 1<br>27K x 2<br>33K x 2<br>47K x 5<br>68K x 1<br>100K x 5<br>150K x 1<br>1M x 1<br><br><a href="#">All resistors ¼ watt metal film.</a> | <a href="#">10nF x 1</a><br><a href="#">22nF x 1</a><br><a href="#">33nF x 1</a><br><a href="#">100nF x 2</a><br><a href="#">10uF x 4</a><br><a href="#">47uF x 3</a> | <a href="#">1N4148 x 4</a><br><a href="#">BC557 x 1</a><br><br><a href="#">TL072 x 2</a><br><a href="#">TL084 x 1</a><br><a href="#">AS3310 x 1</a><br><a href="#">LM13700 x 1</a><br><br><a href="#">78L05 x 1</a><br><a href="#">79L05 x 1</a><br><br><a href="#">8 pin IC socket x 2</a><br><a href="#">14 pin IC socket x 1</a><br><a href="#">16 pin IC socket x 2</a> | <a href="#">100K trimmer x 1</a><br><br><a href="#">Jumper x 1</a> |

| Florian XVCO TWO Main PCB (there are 2 of these, so double this BOM)                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                        |
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| 33R x 1<br>100R x 2<br>820R x 1<br>1K x 3<br>1K2 x 1<br>1K5 x 1<br>2K2 x 2<br>3K x 1<br>4K7 x 4<br>6K8 x 1<br>10K x 7<br>15K x 3<br><b>18K x 1*</b><br>22K x 2<br>33K x 2<br>47K x 2<br>56K x 1<br>82K x 1<br>91K x 2<br>100K x 7<br>150K x 1<br>180K x 1<br>200K x 1 (see*)<br>220K x 1<br>470K x 2<br>1M x 1<br><br><a href="#">All resistors ¼ watt metal film.</a> | <a href="#">22pF x 1</a><br><a href="#">100pF x 1</a><br><a href="#">470pF x 1</a><br><a href="#">2n2 x 2</a><br><a href="#">5n6 x 1</a><br><a href="#">10nF x 1</a><br><a href="#">47uF x 3</a> | <a href="#">1N4148 x 3</a><br><a href="#">BC549 x 2</a><br><a href="#">BC557 x 3</a><br><a href="#">DSG pinout FET x 1**</a><br><a href="#">78L09 x 1</a><br><br><a href="#">TL072 x 4</a><br><a href="#">CA3046 x 1***</a><br><br><a href="#">8 pin IC socket x 4</a><br><a href="#">14 pin IC socket x 1</a> | <a href="#">1K trimmer x 1</a><br><a href="#">2K trimmer x 2</a><br><a href="#">10K trimmer x 2</a><br><a href="#">50K trimmer x 1</a><br><br><a href="#">Male 40 pin header x 1</a><br><br><a href="#">10 pin box header</a> (only needed on one VCO) |
| <p>*<b>18K</b>: Best to reduce the 18K to 16K5 by soldering a 200K in parallel. Give more useful range to Scale trimmer</p> <p>**<b>DSG pinout FET</b>: Use whatever is easiest to source, but watch the polarity.</p> <p>***<b>CA3046</b>: or <a href="#">AS3046</a>, or <a href="#">UL1111</a>, or SMD LM3046, or CA3086 etc, etc, etc.</p>                          |                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                        |

| Florian XVCO TWO Rotary PCB (there are 2 of these, so double this BOM)                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                      |                                                                          |
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| 8K2 x 1<br><b>10K 1% x 5*</b><br>150K x 1<br><br><a href="#">All resistors ¼ watt metal film.</a>                                                                                                                                                                                                                                                                                                                                                             |  | <a href="#">TL071 x 1</a><br><br><a href="#">8 pin IC socket x 1</a> | <a href="#">Rotary switch</a> x 1<br><br><a href="#">4K7 trimmer</a> x 1 |
| <p>* <b>10K 1% x 5</b> These are the five matched resistors for the octave switch voltage divider ladder. They don't have to be 10K exactly, they just have to be matched to each other, so for example if they are all 9.98K that's fine. Grab a bunch of 10K resistors, measure each one, make little piles of 10k, 9.99K, 9.98K etc. Before long one of the piles will have five resistors in it, that's your matched set! Should only take 5 minutes.</p> |  |                                                                      |                                                                          |

| Florian - State 700 Main PCB                     |                            |                                   |                                        |
|--------------------------------------------------|----------------------------|-----------------------------------|----------------------------------------|
| 47R x 1                                          | <a href="#">470pF x 2</a>  | <a href="#">1N4148 x 2</a>        | <a href="#">10K trimmer x 1</a>        |
| 100R x 3                                         | <a href="#">1uF BP x 3</a> |                                   | <a href="#">100K trimmer x 1</a>       |
| 1K x 3                                           | <a href="#">10uF x 1</a>   | <a href="#">BC549 x 1</a>         |                                        |
| 1K5 x 2                                          | <a href="#">22uF x 2</a>   | <a href="#">BC557 x 1</a>         | <a href="#">Male 40 pin header x 1</a> |
| 1K8 x 1                                          | <a href="#">47uF x 2</a>   |                                   |                                        |
| 4K7 x 1                                          |                            | <a href="#">TL072 x 3</a>         |                                        |
| 5K6 x 1                                          |                            | <a href="#">LM13700 x 1</a>       |                                        |
| 10K x 3                                          |                            |                                   |                                        |
| 15K x 2                                          |                            | <a href="#">8 pin socket x 3</a>  |                                        |
| 22K x 2                                          |                            | <a href="#">16 pin socket x 1</a> |                                        |
| 33K x 2                                          |                            |                                   |                                        |
| 47K x 1                                          |                            |                                   |                                        |
| 68K x 1                                          |                            |                                   |                                        |
| 100K x 4                                         |                            |                                   |                                        |
| 150K x 1                                         |                            |                                   |                                        |
| 270K x 1                                         |                            |                                   |                                        |
| 1M x 1                                           |                            |                                   |                                        |
| <a href="#">All resistors ¼ watt metal film.</a> |                            |                                   |                                        |

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