

Make Your Own Simple Theremin

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<html> <div id=„instructable-content“ readability=„51“> <section class=„step-container“
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src=„https://cdn.instructables.com/F1F9DL9J9SVV5RG/F1F9DL9J9SVV5RG.MEDIUM.jpg“/></div>
<div class=„step-body“ readability=„41“> <p>In this project I will show you how the electronic
instrument Theremin works and how we can create a simple version of it with the help of 2 ICs and
only a few complementary components. Along the way we will talk about oscillator types, body
capacitance and much more. <strong>So let's get started!</strong></p> </div>
</section><section class=„step-container“ readability=„32“><h2 id=„step1“ class=„step-
title“>Step 1: Watch the Video!</h2> <div class=„photoset photoset-video“> <iframe
allowfullscreen=„“ frameborder=„0“ height=„576“
src=„https://www.youtube.com/embed/_FytVf5hH88?feature=oembed“ width=„1024“> </iframe>
</div> <div class=„step-body“ readability=„39“> <p>The video gives you all the information you
need to create your own simple theremin. In the next steps though I will present you some additional
information to make recreating this project even easier.</p> </div> </section><section
class=„step-container“ readability=„20“><h2 id=„step2“ class=„step-title“>Step 2: Order Your
Components!</h2> <div class=„photoset“><img alt=„Picture of Order Your Components!“
src=„https://cdn.instructables.com/F85/X5VUJ9SVV602/F85X5VUJ9SVV602.MEDIUM.jpg“/></div>
<div class=„step-body“ readability=„30“> <p>Here you can find a parts list with example
seller:</p> <p class=„c4“><strong>Amazon.com:<br/></strong></p> <p>1x CD4093 NAND IC:
<a href=„http://amzn.to/2ADFlcq“>http://amzn.to/2ADFlcq</a></p> <p>1x MCP602 OpAmp: <a
href=„http://amzn.to/2yvJ8aE“>http://amzn.to/2yvJ8aE</a></p> <p>2x 100pF, 1x 1nF Capacitor: <a
href=„http://amzn.to/2yxlgSz“>http://amzn.to/2yxlgSz</a></p> <p>1x 4.7&#181;F Capacitor: <a
href=„http://amzn.to/2AEY7jN“>http://amzn.to/2AEY7jN</a></p> <p>6x 10k, 1x 5.1k, 1x 6.8k
Resistor: <a href=„http://amzn.to/2ywZ3VO“>http://amzn.to/2ywZ3VO</a></p> <p>2x 10k
Potentiometer: <a href=„http://amzn.to/2i7rHXy“>http://amzn.to/2i7rHXy</a></p> <p>1x Antenna:
<a href=„http://amzn.to/2yvJkXq“>http://amzn.to/2yvJkXq</a></p> <p>1x Power Jack: <a
href=„http://amzn.to/2ytRnUn“>http://amzn.to/2ytRnUn</a></p> <p>1x Audio Jack: <a
href=„http://amzn.to/2ACKbqx“>http://amzn.to/2ACKbqx</a></p> <p>1x Housing: <a
href=„http://amzn.to/2ABhev8“>http://amzn.to/2ABhev8</a></p> <p
class=„c4“><strong>Ebay:<br/></strong></p> <p>1x CD4093 NAND IC: <a
href=„http://rover.ebay.com/rover/1/711-53200-19255-0/1?icep_ff3=2&amp;pub=5575101368&amp;
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=psmain&amp;icep_vectorid=229466&amp;kwid=902099&amp;mtid=824&amp;kw=lg“>http://rover
.ebay.com/rover/1/711-53200-19255-0/1?...</a></p> <p>1x MCP602 OpAmp: <a
href=„http://rover.ebay.com/rover/1/711-53200-19255-0/1?icep_ff3=2&amp;pub=5575101368&amp;
toolid=10001&amp;campid=5337582279&amp;customid=&amp;icep_item=181846803759&amp;ipn
=psmain&amp;icep_vectorid=229466&amp;kwid=902099&amp;mtid=824&amp;kw=lg“>http://rover
.ebay.com/rover/1/711-53200-19255-0/1?...</a></p> <p>2x 100pF, 1x 1nF Capacitor: <a
href=„http://rover.ebay.com/rover/1/711-53200-19255-0/1?icep_ff3=2&amp;pub=5575101368&amp;
toolid=10001&amp;campid=5337582279&amp;customid=&amp;icep_item=221372015123&amp;ipn
=psmain&amp;icep_vectorid=229466&amp;kwid=902099&amp;mtid=824&amp;kw=lg“>http://rover
.ebay.com/rover/1/711-53200-19255-0/1?...</a></p> <p>1x 4.7&#181;F Capacitor: <a
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=psmain&icep_vectorid=229466&kwid=902099&mtid=824&kw=lg">http://rover.ebay.com/rover/1/711-53200-19255-0/1?icep_ff3=2&pub=5575101368&toolid=10001&campid=5337582279&customid=&icep_item=282351620096&ipn=psmain&icep_vectorid=229466&kwid=902099&mtid=824&kw=lg</p><p>6x 10k, 1x 5.1k, 1x 6.8k Resistor: http://rover.ebay.com/rover/1/711-53200-19255-0/1?icep_ff3=2&pub=5575101368&toolid=10001&campid=5337582279&customid=&icep_item=172618234352&ipn=psmain&icep_vectorid=229466&kwid=902099&mtid=824&kw=lg</p><p>2x 10k Potentiometer: http://rover.ebay.com/rover/1/711-53200-19255-0/1?icep_ff3=2&pub=5575101368&toolid=10001&campid=5337582279&customid=&icep_item=172000947496&ipn=psmain&icep_vectorid=229466&kwid=902099&mtid=824&kw=lg</p><p>1x Antenna: http://rover.ebay.com/rover/1/711-53200-19255-0/1?icep_ff3=2&pub=5575101368&toolid=10001&campid=5337582279&customid=&icep_item=172000947496&ipn=psmain&icep_vectorid=229466&kwid=902099&mtid=824&kw=lg</p><p>1x Power Jack: http://rover.ebay.com/rover/1/711-53200-19255-0/1?icep_ff3=2&pub=5575101368&toolid=10001&campid=5337582279&customid=&icep_item=171778451435&ipn=psmain&icep_vectorid=229466&kwid=902099&mtid=824&kw=lg</p><p>1x Audio Jack: http://rover.ebay.com/rover/1/711-53200-19255-0/1?icep_ff3=2&pub=5575101368&toolid=10001&campid=5337582279&customid=&icep_item=122059624238&ipn=psmain&icep_vectorid=229466&kwid=902099&mtid=824&kw=lg</p><p>1x Housing: http://rover.ebay.com/rover/1/711-53200-19255-0/1?icep_ff3=2&pub=5575101368&toolid=10001&campid=5337582279&customid=&icep_item=381073243337&ipn=psmain&icep_vectorid=229466&kwid=902099&mtid=824&kw=lg</p><p><div class=„c4“>Amazon.de:
</p><p>1x CD4093 NAND IC: <a href=„<http://amzn.to/2iQikSc>>http://amzn.to/2iQikSc</p><p>1x MCP602 OpAmp: <a href=„<http://amzn.to/2i7so36>>http://amzn.to/2i7so36</p><p>2x 100pF, 1x 1nF Capacitor: <a href=„<http://amzn.to/2jjwWqD>>http://amzn.to/2jjwWqD</p><p>1x 4.7µF Capacitor: <a href=„<http://amzn.to/2huqUmF>>http://amzn.to/2huqUmF</p><p>6x 10k, 1x 5.1k, 1x 6.8k Resistor: <a href=„<http://amzn.to/2hoysDP>>http://amzn.to/2hoysDP</p><p>2x 10k Potentiometer: <a href=„<http://amzn.to/2hur0e1>>http://amzn.to/2hur0e1</p><p>1x Antenna: <a href=„<http://amzn.to/2jl56Ks>>http://amzn.to/2jl56Ks</p><p>1x Power Jack: <a href=„<http://amzn.to/2i6Rcln>>http://amzn.to/2i6Rcln</p><p>1x Audio Jack: <a href=„<http://amzn.to/2jnFQ6F>>http://amzn.to/2jnFQ6F</p><p>1x Housing: <a href=„<http://amzn.to/2iPsZGa>>http://amzn.to/2iPsZGa</p></div></section><section class=„step-container“ readability=„31“><h2 id=„step3“ class=„step-title“>Step 3: Build the Circuit!</h2><div class=„photoset“><img alt=„Picture of Build the Circuit!“ src=„<https://cdn.instructables.com/FVP/A3H2/J9SVV5U2/FVPA3H2J9SVV5U2.MEDIUM.jpg>"/></div><div class=„step-body“ readability=„38“><p>Here you can find the schematic along with reference pictures of my finished perfboard layout. Feel free to replicate my circuit.</p></div></section><section class=„step-container“ readability=„23“><h2 id=„step4“ class=„step-title“>Step 4: Success!</h2><div class=„photoset“><img alt=„Picture of Success!“ src=„<https://cdn.instructables.com/FWA/HG5M/J9SVV65C/FWAHG5MJ9SVV65C.MEDIUM.jpg>"/></div><div class=„step-body“ readability=„29“><p>You did it! You just built your own Simple Theremin!</p><p>
Feel free to check out my YouTube channel for more awesome projects:</p><p><a href=„<http://www.youtube.com/user/greatscottlab>>http://www.youtube.com/user/greatscottlab</p><p>You can also follow me on Facebook, Twitter and Google+ for news about upcoming

projects and behind the scenes information:</p> <p><a
href=„<https://twitter.com/GreatScottLab>“><https://twitter.com/GreatScottLab>
<a
href=„<https://www.facebook.com/greatscottlab>“><https://www.facebook.com/greatscottlab></p>
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