

Leach Amp Chassis BOM		<a href="http://users.ece.gatech.edu/~mleach/lowtim/">http://users.ece.gatech.edu/~mleach/lowtim/</a>					
Designation	Description	Use	Quantity	Source	Part Number	Each	Total
<b>Electrical</b>							
T1	Center tapped torroid transformer (+ and -) 40V-0-40V	Main Transformer mounted to chassis	1	<a href="#">Parts Express</a>	<a href="#">Y236804</a>	\$87.00	\$87.00
F1,F2,F3,F4	5A Fast Blow fuse	4 fuses for PCB power +/- 40V	4	<a href="#">Jameco</a>	<a href="#">10402</a>	\$0.35	\$1.40
F5	8A Slow Blow fuse, AG3	Fuse for AC 120V input	1	<a href="#">Mouser</a>	<a href="#">693-8020.5020</a>	\$0.73	\$0.73
R50	10, 2W, carbon or oxide film (see construction notes)	Place Across Output Jack	1	<a href="#">Mouser</a>	<a href="#">279-CFR200J10R</a>	\$0.20	\$0.20
C25	0.1 uF 100V, metal film, .20" hole	Place Across Output Jack	1	<a href="#">AVNet</a>	<a href="#">ECQ-V1104JM</a>	\$0.13	\$0.13
CP1,CP2	10,000 uF 80Vdc ECN and 10,000 100Vdc Mallory CGS	Power Supply Caps	2	<a href="#">Mouser</a>	<a href="#">80-ALS30A103KE100</a>	\$25.65	\$51.30
CP3	0.1 uF 250Vdc, metal film	Place across the bridge rectifier	1	<a href="#">AVNet</a>	<a href="#">ECQ-E2104KB</a>	\$0.38	\$0.38
RC1	35A 200V Bridge Rectifier	Rectifier mounted to chassis	1	<a href="#">Jameco</a>	<a href="#">178431</a>	\$2.95	\$2.95
IL1	20 A InRush Limiter	Connect between Power cord inlet & 8A fuseholder	1	<a href="#">Mouser</a>	<a href="#">527-CL30</a>	\$1.78	\$1.78
RS1	4.5kOhm 5Watt resistor	Rocker switch light/LED, Voltage drop to 2V	1	<a href="#">Mouser</a>	<a href="#">71-CW5-4.5K</a>	\$0.99	\$0.99
PS1	Rocker Switch	Main Power Switch	1	<a href="#">Mouser</a>	<a href="#">612-R1966ABKBKESR</a>	\$1.72	\$1.72
<b>Mechanical</b>							
	2U rack size 2U x 11" x 19"	The Cassis	1	<a href="#">eBay</a>	<a href="#">10-19113g</a>	\$62.00	\$62.00
PH1, PH2	Power Transistor Heatsink	Main Heatsinks	2	<a href="#">Newark</a>	<a href="#">07WX4353</a>	\$13.53	\$27.06
FH	Open Fuse Holder	Holds the 8A fuse	1	<a href="#">Mouser</a>	<a href="#">422-FX0326</a>	\$2.76	\$2.76
QFH	Quad Open Fuse Holder	Holds the four 5A fuses	1	<a href="#">Mouser</a>	<a href="#">534-3539</a>	\$3.78	\$3.78
RIR	RCA Phono Input Jack - Red	Audio Input	1	<a href="#">Mouser</a>	<a href="#">568-NYS367-2</a>	\$2.01	\$2.01
RIW	RCA Phono Input Jack - White	Audio Input	1	<a href="#">Mouser</a>	<a href="#">568-NYS367-9</a>	\$2.01	\$2.01
OJ1, OJ2, OJ3, OJ4	Output Jack	Speaker connects	1	<a href="#">Partconn</a>	<a href="#">this</a>	\$14.92	\$14.92
	Power Cord	120V AC power cord	1	<a href="#">Mouser</a>	<a href="#">545-P006-003</a>	\$4.53	\$4.53
PCI1	Power Cord Inlet	120V AC power connector	1	<a href="#">Mouser</a>	<a href="#">631-FN9222-10/06</a>	\$5.49	\$5.49
	Silpad	Sits between the power transistors and the heatsink	8	<a href="#">Mouser</a>	<a href="#">951-Q3-0.005-00-101</a>	\$0.72	\$5.76
CPG1, CPG2	Power Supply Capactor Holder Gasket	wrap power caps to protect inside holder	1	<a href="#">Home Depot</a>	<a href="#">Weatherseal</a>	\$9.79	\$9.79
CPH1, CPH2	Power Supply Capactor Holders	Use this to hold the capacitors in place	2	<a href="#">Home Depot</a>	<a href="#">2" strap</a>	\$1.10	\$2.20
<b>Bolts &amp; Nuts</b>							
	Pan head, SS 18-8, #8-32 x 7/16"	Hold Heatsink to chassis Top	4	<a href="#">Bolt Depot</a>	<a href="#">9642</a>	\$0.06	\$0.24
	Flat head, SS 18-8, #8-32 x 7/16"	Hold Heatsink to chassis Bottom	4	<a href="#">Bolt Depot</a>	<a href="#">9758</a>	\$0.06	\$0.24
	Hex lock nuts nylon insert, SS 18-8, #8-32	Hold Heatsink to chassis	8	<a href="#">Bolt Depot</a>	<a href="#">2551</a>	\$0.07	\$0.56
	1/2 inch SS standoffs for 4-40	Hold PCB off chassis	8	<a href="#">Mouser</a>	<a href="#">761-4505-440-SS</a>	\$0.94	\$7.52
	Flat head, SS 18-8, #4-40 x 1/4"	Hold PCB off chassis	8	<a href="#">Bolt Depot</a>	<a href="#">5301</a>	\$0.05	\$0.40
	Hex machine screw nuts, SS 18-8, #4-40	Hold PCB off Chassis	8	<a href="#">Bolt Depot</a>	<a href="#">4115</a>	\$0.05	\$0.40
	Flat head, SS 18-8, #4-40 x 3/8"	Hold PCB transistors to heatsink	8	<a href="#">Bolt Depot</a>	<a href="#">3717</a>	\$0.05	\$0.40
	Hex machine screw nuts, SS 18-8, #4-40	Hold PCB transistors to heatsink	4	<a href="#">Bolt Depot</a>	<a href="#">4115</a>	\$0.05	\$0.20
	Flat head, SS 18-8, #10-32 x 5/8"	Hold Power Supply Capactor Holders	4	<a href="#">Bolt Depot</a>	<a href="#">1269</a>	\$0.10	\$0.40
	Hex jam nylon lock nuts, SS 18-8, #10-32	Hold Power Supply Capactor Holders	4	<a href="#">Bolt Depot</a>	<a href="#">7720</a>	\$0.13	\$0.52
	Fender washers, Stainless steel 18-8, #10 (3/16") x 1"	Hold Power Supply Capactor Holders	4	<a href="#">Bolt Depot</a>	<a href="#">2929</a>	\$0.12	\$0.48
	Flat head, SS 18-8, #10-32 x 3"	Hold Transformer	1	<a href="#">Bolt Depot</a>	<a href="#">1276</a>	\$0.26	\$0.26
	Hex jam nylon lock nuts, SS 18-8, #10-32	Hold Transformer	1	<a href="#">Bolt Depot</a>	<a href="#">7720</a>	\$0.13	\$0.13

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<b>Bolts &amp; Nuts (Continued)</b>							
	Fender washers, Stainless steel 18-8, #10 (3/16") x 1"	Hold Transformer	1	<a href="#">Bolt Depot</a>	<a href="#">2929</a>	\$0.12	\$0.12
	Pan head, SS 18-8, #10-32 x 3/8"	Screw into Power Capacitors	4	<a href="#">Bolt Depot</a>	<a href="#">1365</a>	\$0.09	\$0.36
	Lock washers external tooth, SS 410, #10	Screw into Power Capacitors	4	<a href="#">Bolt Depot</a>	<a href="#">4078</a>	\$0.05	\$0.20
	Flat head, SS 18-8, #10-32 x 1"	Ground Lug	1	<a href="#">Bolt Depot</a>	<a href="#">1271</a>	\$0.11	\$0.11
	Lock washers external tooth, SS 410, #10	Ground Lug	1	<a href="#">Bolt Depot</a>	<a href="#">4078</a>	\$0.05	\$0.05
	Hex machine screw nuts, Stainless steel 18-8, #10-32	Ground Lug	2	<a href="#">Bolt Depot</a>	<a href="#">2561</a>	\$0.06	\$0.12
	Flat head, SS 18-8, #10-32 x 3/4"	Hold Rectifier	1	<a href="#">Bolt Depot</a>	<a href="#">1270</a>	\$0.10	\$0.10
	Hex jam nylon lock nuts, SS 18-8, #10-32	Hold Rectifier	1	<a href="#">Bolt Depot</a>	<a href="#">7720</a>	\$0.13	\$0.13
	Pan head, SS 18-8, #4-40 x 5/8"	Hold Power Transistors to Heatsink	8	<a href="#">Bolt Depot</a>	<a href="#">5313</a>	\$0.13	\$1.04
	Hex machine screw nuts, SS 18-8, #4-40	Hold Power Transistors to Heatsink	8	<a href="#">Bolt Depot</a>	<a href="#">4115</a>	\$0.05	\$0.40
	Flat Washers, SS 18-8 #4	Hold Power Transistors to Heatsink	8	<a href="#">Bolt Depot</a>	<a href="#">5563</a>	\$0.05	\$0.40
	Lock washers external tooth, SS 410, #4	Hold Power Transistors to Heatsink	8	<a href="#">Bolt Depot</a>	<a href="#">4075</a>	\$0.05	\$0.40
	Flat head, SS 18-8, #6-32 x 3/8"	Chassis Screws	22	<a href="#">Bolt Depot</a>	<a href="#">1237</a>	\$0.06	\$1.32
	Flat head, SS 18-8, #6-32 x 1/2"	Hold Power Cord Inlet	2	<a href="#">Bolt Depot</a>	<a href="#">1238</a>	\$0.06	\$0.12
	Hex lock nuts nylon insert, SS 18-8, #6-32	Hold Power Cord Inlet	2	<a href="#">Bolt Depot</a>	<a href="#">2550</a>	\$0.06	\$0.12
	Flat head, SS 18-8, #6-32 x 3/8"	Hold Quad Holder	2	<a href="#">Bolt Depot</a>	<a href="#">1237</a>	\$0.06	\$0.12
	Hex machine screw nuts, SS 18-8, #6-32	Hold Quad Holder	2	<a href="#">Bolt Depot</a>	<a href="#">2558</a>	\$0.05	\$0.10
	Flat head, SS 18-8, #4-40 x 3/8"	Hold Single Fuse Holder	1	<a href="#">Bolt Depot</a>	<a href="#">3717</a>	\$0.05	\$0.05
	Hex machine screw nuts, SS 18-8, #4-40	Hold Single Fuse Holder	1	<a href="#">Bolt Depot</a>	<a href="#">4115</a>	\$0.05	\$0.05
Estimated Total						\$307.95	