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Jess Lewis:

First entrant? I'm surprised, but maybe it is good luck. :) I failed to mention in my submission that my intent was to pretty much hack together anything as needed except for the multimeter of course. That's my main reason for going with lots of parts. For instance, the Semiconductor Grab Bag has voltage regulators that could be used for creating power supplies that might be needed that may not be covered by the basic power supply.

I would also take an old IBM ATX power supply and convert it for bench use if an old one was available. The trouble with buying one is that it is cheaper to just buy a different power supply, but if an old computer is laying around then there is the source for the cheapo benchtop power supply.

An oscilloscope would be nice and the way the I'd cope with the desire for one is the old sound card oscilloscope, knowing that it's limited to the audio range of course. A simple buffer schematic as shown here <http://xoscope.sourceforge.net/hardware/hardware.html> would be built on the Universal Breadboard unless I wanted it to be permanent in which case I'd just hack it together on the Solderable Perf Board. One example of o'scope software is available here: <http://www.zelscope.com/faq.html>.

Since the o'scope software provides XY modes, it is possible to also make a cheap curve tracer to use with the cheap oscilloscope. Here is a link to one of several examples of homemade curve tracers that I found: <http://www.techlib.com/electronics/curvetrace.html>. Incidentally, the simplest example shown at the link is similar to a design that I used fifteen years ago when I was doing industrial drive board repair.

Lastly, if I really needed a logic probe then I'd just make a simple one from one from a schematic that I still have from my college days. Incidentally, I've never had a serious need for a logic probe that couldn't be met some other way.

Sorry to go on for so long, but I felt that my submission with basically a bunch of parts, a VOM, and a power supply, was not much of a bench without some explanation.

Regards,  
Jess Lewis

Quan	Item Name	Part Number	Vendor Name	Each	Total Cost
1	In-Line AGC (3AG) Fuse Holder	FHP-2	All Electronics	\$0.85	\$0.85
1	Solder Sucker	SSR-1	All Electronics	\$4.50	\$4.50
1	Economy Digital Multimeter	DVM-810	All Electronics	\$7.95	\$7.95
1	4 1/2"MINI DIAGONAL PLIERS	PLR-45	All Electronics	\$2.50	\$2.50
1	5" MINI LONG NOSE PLIERS	PLR-55	All Electronics	\$2.50	\$2.50
1	POWER SUPPLY: 5V/12A 16V/3A -5V/0.8A -15V/0.8A	PS-4002	All Electronics	\$14.75	\$14.75
1	140 PIECE JUMPER WIRE ASSORTMENT	JW-140	All Electronics	\$6.25	\$6.25
1	SOLDERABLE PERF BOARD (1 7/8" X 2 1/4")	PC-2	All Electronics	\$1.00	\$1.00
1	Wire Stripper	WS-150	All Electronics	\$3.50	\$3.50
1	Hand-Held Magnifying Lens	G16298	Electronics Goldmine	\$1.49	\$1.49
1	Large Universal Breadboard - 830 Contact	G8534	Electronics Goldmine	\$6.95	\$6.95
1	Super Disc and Mono Capacitor Assortment	G15304	Electronics Goldmine	\$5.00	\$5.00
1	Miniature Potentiometer Assortment	GP74	Electronics Goldmine	\$2.49	\$2.49
1	Semiconductor Treasure Bag	G15287	Electronics Goldmine	\$5.00	\$5.00
1	Plastic Hardware Assortment	GP31	Electronics Goldmine	\$2.49	\$2.49
1	LED Mixture 1	GP27	Electronics Goldmine	\$2.49	\$2.49
1	Fuse Assortment	GP11	Electronics Goldmine	\$2.49	\$2.49
1	1/2" 100 Ft. Roll of Black Electrical Tape	C7134	Electronics Goldmine	\$0.99	\$0.99
1	SALE! Soldering Helping Hands (includes solder iron holder and sponge)	G12810	Electronics Goldmine	\$2.99	\$2.99
1	Handy Solder Wick	G1587	Electronics Goldmine	\$1.29	\$1.29
1	63 Tin 37 Lead Rosin Core Solder	G16713	Electronics Goldmine	\$1.25	\$1.25
1	30W Pencil Soldering Iron	G1984	Electronics Goldmine	\$3.95	\$3.95
1	Test Clips with wire (10 Alligator test leads)	G1498	Electronics Goldmine	\$2.49	\$2.49
1	6 Piece Screwdriver Set (jewelers screwdriver set)	G9774	Electronics Goldmine	\$1.29	\$1.29
1	GRAB BAG, RESISTORS, 1/4 WATT, ASSORTED, 200 PIECES	18104	Jameco	\$4.95	\$4.95
1	GRAB BAG, CAPACITOR, ELECTROLYTIC, ASSORTED, 100 PIECES	17911	Jameco	\$5.95	\$5.95
1	Hook-up Wire - Red	PRT-08023	Sparkfun Electronics	\$2.50	\$2.50
				<b>TOTAL:</b>	<b>\$99.85</b>