

Breadboard Arduino Compatible Assembly Guide

CTRONICS

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A Few Words

About this Kit

The pre-made Arduino Uno board is an amazing prototyping platform, but sometimes its fun to make something for yourself. The goal of this kit is to make building your own a fun and easy experience. Collecting all the bits and pieces so you can pop them into place and have a fully functional Arduino compatible to play around with in no time.



About Open Source Hardware

All of .:oomlout:.'s projects are open source. What does this mean? It means everything involved in making this kit, be it this guide, 3D models, or code is available for free download. But it goes further, you're also free to reproduce and modify any of this material, then distribute it for yourself. The catch? Quite simple; it is released under a Creative Commons (By - Share Alike) license. This means you must credit .:oomlout:. in your design and share your developments in a similar manner. Why? We grew up learning and playing with open source software and the experience was good fun, we think it would be lovely if a similar experience was possible with physical things.

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About .: oomlout :.

We're a plucky little design company focusing on producing "delightfully fun open source products"

To check out what we are up to

http://www.oomlout.com

About Problems

We strive to deliver the highest level of quality in each and every thing we produce. If you ever find an ambiguous instruction, a missing piece, or would just like to ask a question, we'll try our best to help out. You can reach us at:

help@oomlout.com

(we like hearing about problems it helps us improve future versions)

Thanks For Choosing .: oomlout and ABRA:.



.: Where to Find Everything :.

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ARD-101 Contents

ITEM	ABRA PART#	DESCRIPTION	QTY
ASSEMBLY GUIDE	ARD-101-ASY	ASSEMBLY GUIDE	1
BATTERY CLIP	29-130	9 VOLT BATTERY CLIP	1
BREADBOARD	ABRA-6	BREADBOARD 400 TIE-POINTS	1
BREADBOARD	ARD-101-LOS	BREADBOARD LAYOUT SHEET FOR COMPONENTS	1
LAYOUT SHEET			
CRYSTAL	CY16.000	CRYSTAL 16.000 MHZ	1
JUMPER WIRES	JW-12	12 PIECE JUMPER WIRE SET M/M	1
LED GREEN	LED-5G	GREEN LED 5MM	1
LED RED	LED-5R	RED LED 5MM	1
MICROCONTROLLER	A000048	ATMEGA328 W/BOOTLOADER	1
PUSH BUTTON	PBS-175	PUSH BUTTON MOMENTARY	1
VOLTAGE REGULATOR	7805T	5 VOLT REGULATOR	1
2 PIN HEADER	SH2-2	BREADBOARD LAYOUT SHEET HEADER 2 PIN	4
6 PIN HEADER	SH6A-6	FTDI CABLE CONNECTOR HEADER 6 PIN	1
0 OHM RESISTOR	R1/4-0	RESISTOR ¼ WATT 0 OHM JUMPER (BLACK)	12
560 OHM RESISTOR	R1/4-560	RESISTOR ¼ WATT 560 OHM (GREEN, BLUE, BLACK)	2
10K OHM RESISTOR	R1/4-10K	RESISTOR ¼ WATT 10K OHM (BROWN,BLACK,ORANGE)	2
22 PF CAPACITOR	CD220	CAPACITOR CERAMIC 22 PF	2
100NF CAPACITOR	CD104	CAPACITOR CERAMIC 100NF	2
100UF CAPACITOR	100R16	CAPACITOR ELECTROLYTIC 100UF	2

ABOUT ABRA:

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01 PART

.: The Parts Needed for a :. .: Breadboad Arduino Compatible:.







.: Breadboard Arduino Compatible:. .:Schematic:.









5 PROG programming

.: Programming Your Arduino Compatible:.

(you can either use an Arduino UNO board or an FTDI USB-Serial cable to program your ARD-101)



.: Notes:. .:Room for a Few Notes:.	06 NOTE notes



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