

Suggested list of parts to accompany “Arduino Workshop” by John Boxall
Updated 10/05/2013
<http://nostarch.com/arduino>

We take no responsibility for the fitness of purpose or quality of goods from any supplier.
 Excludes making a protoshield demonstration and relay control. See book for more details.
 Arduino shields may require soldering.

<i>Item</i>	<i>Quantity (1 if blank)</i>
Arduino Uno or compatible and matching USB cable	1 each
Solderless breadboard (a small and large one would be good)	
male to male jumper wires	Get a pack of 100 – more than enough for the whole book
10k ohm ¼ watt resistor	2
560 ohm ¼ watt resistor	16
2.2k ohm ¼ watt resistor	1
1k ohm resistor	1 each
10k ohm trimpot (breadboard compatible)	1
100 nF 50V ceramic capacitor	2
1 uF 25 V electrolytic capacitor	1
100 uF 25V electrolytic capacitor	1
22 pF ceramic capacitor	2
Breadboard-compatible push button (e.g. Sparkfun COM-00097)	2
red LED	5
yellow LED	2
green LED	2
blue LED	1
7-segment common-cathode LED display	2
Small 8 x 8 LED matrix	1
16 x 2 character HD44780-compatible LCD module	1
128 x 64 pixel graphic LCD module with KS0108B interface	1
TDK PS1240 piezo or similar	1

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Analog Devices TMP36 temperature sensor	1
74HC595 shift register	2
microSD card shield (e.g. Sparkfun RTL-09899)	1
2 GB microSD card (not microSDHC or SDXC)	1
12-digit numeric keypad	1
Nintendo DS touch screen (Sparkfun LCD-08977)	1
Nintendo DS touch screen breakout (Sparkfun BOB-09170)	1
7805 voltage regulator	1
16 MHz crystal oscillator (Newark 16C8140)	1
Atmel ATmega328P-PU with Arduino bootloader (Sparkfun DEV-10524)	1
9V battery and connector snap	1 each
Six-way header pins (e.g. break down Sparkfun PRT-00116)	1
5V USB FTDI cable (optional)	1 each
Small micro servo, e.g. Hextronik HXT900	1 each
TIP120 darlington transistor	1 each
small DC motor (runs off seperate battery, such as 9V above)	1 each
1n4004 power diode	1 each
Robot tank example and sensors – see book.	
Sparkfun GPS shield pack (RTL-10709)	1 each
GPS extension cable (Sparkfun GPS-09123)	1 each
Freetronics LCD Keypad Shield (http://bit.ly/10vn6MJ) or your own LCD etc.	1 each
Wireless data – see chapter for examples	
38 kHz infra-red receiver module. E.g. Vishay TSOP4138	1 each
Sony TV remote control	1 each
125 kHz RFID module (Seeedstudio)	1 each
125 kHz RFID tags	2 or more
Data buses chapter – read first	
Freetronics RTC Module (http://bit.ly/147Zz7w)	1 each
Protoscrewshield from Wingshield Industries or Freetronics Terminal shield (http://bit.ly/YxEumm)	1 each
Arduino Ethernet shield or Freetronics EtherTen (recommended - http://bit.ly/18xgZxL)	1 each
Cat5 network cable long enough to go from your Arduino to router	

GSM chapter (Read chapter first!):

Sheet1

SM5100 GSM shield (Sparkfun CEL-09607)	1 each
Antenna (Sparkfun CEL-00675)	1 each
Stacking headers (Sparkfun PRT-10007)	1 each
DFRobot power shield (http://bit.ly/176L0ph)	1 each
Power supply that can deliver between 9 and 12 V DC at 2A current.	1 each
GSM account (SIM card) with unlimited or prepaid SMS	1 each