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CIRC-01
Getting Started Large
Blinking LED

longer lead
10mm LED
a +
c -
560ohm
to pin 13
to 5v
to Gnd

CIRC-02
8 LED Fun
(Multiple LEDs)

5mm LED
longer lead
560ohm
to pin 2
to pin 3
to pin 4
to pin 5
to pin 6
to pin 7
to pin 8
to pin 9
to 5v
to Gnd

CIRC-03
Spin Motor Spin
(Transistor & Motor)

Transistor (P2N2222A)
Emitter
Base
Collector
2.2kohm
diode
optional
Capacitor 220uf
longer lead
to pin 9
to 5v
to Gnd

.: **Instructions:** print out, cut out, get making :.
.: for more details visit: http://ardx.org/ARDX :.

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CIRC-04
A Single Servo
(Servos)

to pin 9
Gnd
4.8v-6v
Signal
Mini Servo
to 5v
to Gnd

CIRC-05
8 More LEDs
(74HC595 Shift Register)

74HC595
Q1-1
Q2-2
Q3-3
Q4-4
Q5-5
Q6-6
Q7-7
GND-8
16-Vcc
15-Q0
14-Data
13-Output Enable
12-Latch
11-Clk
10-Reset
9-Q7'
560ohm
to pin 2
to pin 4
to pin 3
to 5v
to Gnd

CIRC-06
Music
Piezo Elements

Piezo Element
to pin 9
to 5v
to Gnd

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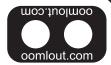**CIRC-07**
Push button
10kohm
10kohm
on
off
longer lead
560ohm
to pin 2
to pin 3
to pin 13 then pin 9
Button Pushing
(Pushbuttons)
to 5v
to Gnd

CIRC-08
Potentiometer (variable resistor)
gnd
wiper
V+
longer lead
560ohm
to pin analog 0
to pin 13 then pin 9
Twisting
(Potentiometer)
to 5v
to Gnd

CIRC-09
10k ohm
Photo Resistor
longer lead
560ohm
to pin analog 0
to pin 9
Light
(Photoresistor)
to 5v
to Gnd

.: **Instructions:** print out, cut out, get making :.
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CIRC-10
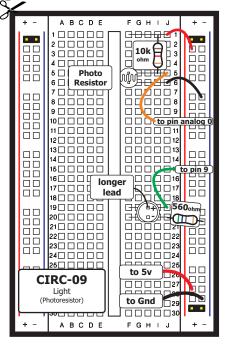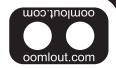Thermometer (TMP36)
10mV = 1 degree C (500 mV offset)
Gnd
Vout
+5v
to pin analog 0
Temperature
(TMP36 Precision Temperature Sensor)
to 5v
to Gnd

CIRC-11
Transistor (P2N2222A)
Emitter
Base
Collector
2.2kohm
diode
NC
NO
560ohm
560ohm
to pin 2
Larger Loads
(Relays)
to 5v
to Gnd

CIRC-12
8mm RGB LED
longest lead
red
common
green
blue
560ohm
to Gnd
to 5v
to pin 9
to pin 10
to pin 11
Multi-Color Lights
(RGB LEDs)

.: **Instructions:** print out, cut out, get making :.
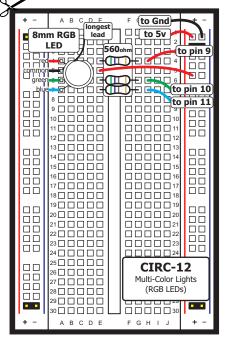.: for more details visit: http://ardx.org/ARDX :.

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to Gnd
to 5v
to analog 0
1M ohm
MEAS
5mm LED
to pin 13
longer lead
560 ohm

CIRC-13
Vibration
(Piezo Vibration Sensor)

.: **Instructions:** print out, cut out, get making :.
.: for more details visit: http://ardx.org/ARDX :.

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