

Parts List A		
QTY	ITEM	SOURCE
1	3.5 " x 9" Glass Cylinder (Vase)	Local Craft Store, or www.candle4less.com item# CH-359-CL-24
1	5/32 dia copper tube	Hardware store, ksmetals.com, K&S Engineering stock no. 119, or hobby shop,
4	Ultra Bright Blue LED	hvwtech.com item# UBLED10-B 10mm, or Radio Shack 276-006
1	GM2 motor	hvwtech.com item# GM2 (224:1 Gear Motor)
1	6VDC, 1AMP Regulated power supply	Jamco #1953719 www.jameco.com
2	10 OZ OJ containers	Burger King OJ or other waxed paper carton of similar size
1	1/2 " thk plywood 12" x 12"	Home Depot or Hardware store
3	8-32 pan head screws 1.5 " lg	Home Depot or Hardware store
12	8-32 hex nuts	Home Depot or Hardware store
3	1/4 " rubber grommets	Hardware Store, Grander Bender # GHG-1515 or similar
3	1/4-20 hex head bolt 2 1/2" lg	Home Depot or Hardware store
3	1/4-20 TEE nuts	Home Depot or Hardware store
3	1/4-20 Acorn nuts	Home Depot or Hardware store
1	1/2 " dia, approx 6" lg plastic tube	Home Depot or Hardware store
1	heat shrink tubing assorted sizes	Radio Shack 278-1610 or Electronics supply
1	hook up wire 22 to 26 ga	Radio Shack or Electronics supply
1	Aluminum Flashing 10" x 3'	typically sold in rolls 10" wide x 10 ' lg , Home Depot or Hardware store
1	1/8 steel rod	Home Depot or Hardware store
1	3-48 threaded rod	# 98837A004, www.McMaster.com, 3ft long you need about 8 inches
4	3-48 nuts	# 90480A004, www.McMaster.com, comes in pack of 100 for \$0.73
1	1 lb paraffin wax	Supermarket or where canning supplies are sold
1	Plastic Wrap	Supermarket
1	pack of Poster Putty	Used to stick poster to the wall but sill be removable, Craft or Office Supply Store
1	White Epoxy	Home Depot or Hardware store
1	Goop Household Adhesive & Sealant	Home Depot or Hardware store
1	Aluminum Tape	Home Depot or Hardware store
1	3/4 wide double stick foam tape	Radio Shack 64-2343 or similar
2	2-pin connector W/head	All Electronics Cat# Con-242, or similar.
1	22 ohm resistor 1/2 watt	Radio Shack 271-1103 or similar
Parts List B (Simple Controller)		
1	SPST Slide Switch	Radio Shack 275-0406 or similar
1	25-ohm rheostat	Radio Shack 271-0265 or similar (a 50 ohm model would be better but 25 ohm was readily available)
1	22 ohm resistor 1/2 watt	Radio Shack 271-1103 or similar
1	2.1mm DC power jack	Radio Shack 274-1565 or All Electronics cat# DCJ-1 or similar
Parts List C (Full Function Controller)		
2	TIP120 Darlington transistor	Radio Shack 276-2068 or All Electronics cat# TIP120 or similar
1	8 PIN IC SOCKET	All Electronics - ICS-8 (8 PIN IC SOCKET - (ICS-8))
1	470MFD/50V RADIAL Capacitor	All Electronics - 470R50 (470MFD/50V RADIAL - (470R50))
3	1K OHM 1/4 WATT - Resistor	All Electronics - 291-1K (1K OHM 1/4 WATT - (291-1K))
2	22K OHM 1/4 WATT Resistor	All Electronics - 291-22K (22K OHM 1/4 WATT - (291-22K))
2	10K OHM 1/4 WATT - Resistor	All Electronics - 291-10K (10K OHM 1/4 WATT - (291-10K))
1	10 ohm resistor 1/4 watt	Radio Shack 271-1301 or similar
1	DB-9 HOOD	All Electronics - DB-9H (DB-9 HOOD - (DB-9H))
1	D-SUB CONNECTOR, 9 PIN FEMALE	All Electronics - DB-9S (D-SUB CONNECTOR, 9 PIN FEMALE - (DB-9S))
1	0.1UF 50V MULTILAYER CERAMIC CAPACITOR	All Electronics - RM-104S (0.1UF 50V MULTILAYER CERAMIC CAPACITOR, SPECIAL - (RM-104S))

1	RECT DIODE 1AMP/50PIV - (1N4001))	All Electronics - 1N4001 (RECT DIODE 1AMP/50PIV - (1N4001))
1	2.1mm DC power jack	Radio Shack 274-1565 or All Electronics cat# DCJ-1 or similar
1	SO8-SMD to DIP Adapter	Gravitech estore on ebay or http://cimarrontechnology.com/
1	Touch Sensor IC	QT113A-ISG, Mouser.com item# 556-QT113A-IGS
1	Printed Circuit Board	Radio Shack 276-150 or similar
1	1N4733A 5.1V Zener Diode	Radio Shack 276-565 or similar
1	PICAXE-08M IC	hvwtech.com item# 28415
1	SPST Slide Switch	Radio Shack 275-0406 or similar
1	Single row header	All Electronics SHS-40, you onlu need 1 pin for touch sensor connection
2	36 Pin SIP Socket	All Electronics SIP-36, you onlu need 1 pin for touch sensor connection