

## Parts List (available from Allied Electronics)

Item	Description	Quantity	Allied Part #	Price
Transistor	NPN Power Transistor	2	935-6158	\$2.64
Voltage Regulator	Linear Voltage Regulator	4	568-0488	\$0.19
Photo Emitter/Interrupter Pair	Molded Vane Sensor	1	276-0035	\$7.41
Darlington Array	Eight DIP Array	1	248-9280	\$0.47
Speaker	Piezo Speaker	1	090-SPEC	\$3.08
A/D Converter DIP	10-Bit, Serial I/O	1	630-0840	\$7.22
Capacitor	0.1 $\mu$ F	10	852-1170	\$0.31
Resistor	330 $\Omega$	3	296-4698	\$0.54
Resistor	10k $\Omega$	4	648-0156	\$0.08
Switch	DPST, Rocker	1	908-0112	\$1.41
LED	Red	3	782-0010	\$0.24
LED	Yellow	3	782-0040	\$0.24
LED	Green	3	782-1503	\$0.14

### Additional Components:

1. BS2e-IC
2. BS2-IC
3. 4X20 LCD & Driver
4. Two 12V Stepper Motors
5. 4X4 Matrix Keypad
6. Adjustable Voltage Regulator

### Parts List (additional components)

Item	Description	Vendor	Model #	Price
Turbine	Scale 5" diameter Tesla Turbine	Home Made	N/A	N/A
Stepper Motor	12V dc, 100ohm, 7.5° step	Parallax.com	27964	\$4.99
Voltage Regulator	Linear Voltage Regulator	Alliedelec.com	568-0488	\$0.19
Photo Interrupter	Photodiode/Phototransistor	Alliedelec.com	276-0035	\$7.41

Speaker	Piezo Speaker	Parallax.com	900-00001	\$1.95
LCD	4 x 20 Display Backlit	Parallax.com	27979	\$39.99
BASIC Stamp 2 (BS2-IC)	16 Pin I/O Microcontroller	Parallax.com	BS2-IC	\$49.00
BASIC Stamp 2e (BS2E-IC)	16 Pin I/O Microcontroller	Parallax.com	BS2E-IC	\$54.00
4X4 Keypad	16 Button Square Input	AllElectronics.com	KP-23	\$12.50
A/D Converter DIP	8-Bit, Serial I/O	Parallax.com	ADC0831	\$6.00