

Firework Ignitor - Bill of Materials

Item	Supplier	Bulk Order		Qty Used	Cost Per	Cost Total	Ordered?	In Hand?	Comments
		Qty	Cost Total						
12V Lead Acid Battery	Jameco	1	\$ 21.95	1	\$ 21.95	\$ 21.95	Y	Y	
12V Battery Charger	Amazon	1	\$ 9.99	1	\$ 9.99	\$ 9.99	Y	Y	
6 AA Battery Pack	Jameco	1	\$ 1.09	1	\$ 1.09	\$ 1.09	Y	Y	Already had on hand
Optocouplers	Jameco	5	\$ 4.75	2	\$ 0.95	\$ 1.90	Y	Y	
560 Ohm Resistors - 1/2W	Jameco	100	\$ 5.00	8	\$ 0.05	\$ 0.40	Y	Y	
10K Ohm Resistors - 1/4W	Amazon	100	\$ 4.99	20	\$ 0.05	\$ 1.00	Y	Y	
1.2K Ohm Resistors - 1/4W	Amazon	860	\$ 17.99	8	\$ 0.02	\$ 0.17	Y	Y	Already had on hand
Ethernet Cables - 50 ft	Amazon	1	\$ 9.49	3	\$ 9.49	\$ 28.47	Y	Y	
RJ45 Keystone Jack	Amazon	10	\$ 13.99	6	\$ 1.40	\$ 8.39	Y	Y	
Keystone Plate - 3 hole	Amazon	1	\$ 1.99	2	\$ 1.99	\$ 3.98	Y	Y	
Control Module Case	Amazon	1	\$ 29.99	1	\$ 29.99	\$ 29.99	Y	Y	
Firing Module Case	Walmart	1	\$ 6.97	1	\$ 6.97	\$ 6.97	Y	Y	Already had on hand
10K Potentiometer - 1/2W	Jameco	1	\$ 1.25	1	\$ 1.25	\$ 1.25	Y	Y	
Knob for Potentiometer	Jameco	1	\$ 1.09	1	\$ 1.09	\$ 1.09	Y	Y	
LED Illuminated Buttons	Jameco	10	\$ 22.50	8	\$ 2.25	\$ 18.00	Y	Y	
DIP Sockets - 16 Pin	Amazon	30	\$ 6.99	2	\$ 0.23	\$ 0.47	Y	Y	
Key Selector - 4 position	Jameco	1	\$ 3.95	1	\$ 3.95	\$ 3.95	Y	Y	
Power Switch	Jameco	1	\$ 0.99	2	\$ 0.99	\$ 1.98	Y	Y	
Prototyping Boards - 5x7cm	Amazon	10	\$ 7.58	1	\$ 0.76	\$ 0.76	Y	Y	Already had on hand
Prototyping Board - 4x6cm	Amazon	25	\$ 14.98	4	\$ 0.60	\$ 2.40	Y	Y	Already had on hand
Arduino Mega	Amazon	1	\$ 37.50	1	\$ 37.50	\$ 37.50	Y	Y	Already had on hand
5V Regulator	Amazon	5	\$ 5.10	2	\$ 1.02	\$ 2.04	Y	Y	Already had on hand
Nichrome	Amazon	1000	\$ 16.66	2	\$ 0.02	\$ 0.03	Y	Y	
Banana Plugs	Amazon	20	\$ 7.01	16	\$ 0.35	\$ 5.61	Y	Y	
Banana Binding Posts	Amazon	10	\$ 11.00	8	\$ 1.10	\$ 8.80	Y	Y	
Clothes Pins	Amazon	100	\$ 6.99	8	\$ 0.07	\$ 0.56	Y	Y	
WS2812B LEDs	eBay	300	\$ 57.99	30	\$ 0.19	\$ 5.80	Y	Y	Already had on hand
Red LEDs	Jameco	50	\$ 7.50	9	\$ 0.15	\$ 1.35	Y	Y	
Remote Control Module	Banggood	1	\$ 3.45	1	\$ 3.45	\$ 3.45	Y	Y	Already had on hand
Relay Board	Amazon	1	\$ 8.99	1	\$ 8.99	\$ 8.99	Y	Y	Already had on hand
Ribbon Cable	Local Supply Store	10	\$ 9.90	2	\$ 0.99	\$ 1.98	Y	Y	
Ribbon Cable Terminator	Local Supply Store	1	\$ 0.50	8	\$ 0.50	\$ 4.00	Y	Y	
Header Pins	Local Supply Store	1	\$ 1.25	3	\$ 1.25	\$ 3.75	Y	Y	
1/4" Acrylic - 12" x 12"	Amazon	1	\$ 9.50	1	\$ 9.50	\$ 9.50	Y	Y	
1/8" Acrylic - 12" x 24"	Amazon	1	\$ 11.80	1	\$ 11.80	\$ 11.80	Y	Y	
Acrylic Cement	Amazon	1	\$ 7.99	1	\$ 7.99	\$ 7.99	Y	Y	
Plexi Glass	Hobby Lobby	1	\$ 2.49	1	\$ 2.49	\$ 2.49	Y	Y	Already had on hand
Window Transparency Film	Home Depot	2592	\$ 34.97	128	\$ 0.01	\$ 1.73	Y	Y	Already had on hand - measurement in square inches
Foam Board	Dollar Tree	1	\$ 1.00	1	\$ 1.00	\$ 1.00	Y	Y	Already had on hand
#6 x 1-1/4" Machine Screw	Home Depot	8	\$ 1.18	6	\$ 0.15	\$ 0.89	Y	Y	
#6 Nuts	Home Depot	8	\$ 1.18	6	\$ 0.15	\$ 0.89	Y	Y	
#6 Cap Nuts	Home Depot	8	\$ 1.18	6	\$ 0.15	\$ 0.89	Y	Y	
#6 Washers	Home Depot	8	\$ 1.18	16	\$ 0.15	\$ 2.36	Y	Y	
Crimp on spade connectors	Amazon	100	\$ 6.39	8	\$ 0.06	\$ 0.51	Y	Y	Already had on hand
Crimp on terminal connectors	Amazon	100	\$ 4.83	2	\$ 0.05	\$ 0.10	Y	Y	Already had on hand
Total						\$ 268.18			