



## RGB Time Fountain Version 2 Parts List





### Electrical Components:

1x Arduino Nano  
 1x JDY-30 Bluetooth Module (HC-05 Equivalent)  
 1x 6 Pin Female Header Connector 2.54mm  
 2x 15 Pin Male Header Connector 2.54mm (for the Arduino Nano if not already soldered to it)  
 1x Attiny85  
 1x 8-Pin DIP IC Socket  
 4x LED Strip SMD5050 Waterproof 12V (60 LEDs per meter) 0.45m (27 LEDs per section)  
 1x 12v Diaphragm Water Pump  
 4x IRLZ44N MOSFET  
 2x 683 Ceramic Capacitor (0.068uF)  
 3x 104 Ceramic Capacitor (0.1uF)  
 2x 470uF Electrolytic Capacitor  
 1x 1N5401 diode  
 1x IR LED Emitter 5mm  
 1x IR Receiver Diode 5mm  
 1x 330Ω Resistor  
 1x 10k Ω Resistor  
 1x 15kΩ Resistor  
 1x 33kΩ Resistor  
 2x 4.7kΩ Resistor  
 1x DC Power Jack DC-022 5.5-2.1mm Round Hole Screw Nut  
 3x XH2.54 4 Pin Terminal Socket Header  
 3x XH2.54 4 Pin Terminal Socket Plug  
 2x 2 Pin Plug-In Screw Terminal Block Connector 5.08mm Pitch  
 1x RGB Time Fountain PCB  
 Wire for the pump 200mm Long (Positive and Negative)  
 Wire for the LEDs 200mm Long (Red, Green, Blue and +12V)  
 Wire for the IR Diode and Receiver 200mm (IR LED Anode and Cathode, Receiver Diode Anode and Cathode)  
 Wire for the DC Power Jack to the PCB <800mm Long (+12V and Ground)  
 12v DC Power Supply (5A) With 5.5-2.1mm DC Power Jack  
 Heat shrink  
 Solder Wire

### 3D Printed Parts:

4x 3 way corner bracket  
 4x 2 way corner bracket  
 2x 2 way corner bracket with hose loop  
 1x anti-splash spike  
 1x bottom clip with dc jack  
 1x bottom funnel  
 2x clip locking peg  
 1x intake restriction clamp  
 1x nozzle attachment cover  
 1x nozzle with IR diodes  
 1x pump bracket part 1  
 1x pump bracket part 2 with hex holes  
 2x pump support arm  
 4x time fountain foot  
 1x top clip



**Laser Cut Parts:**

1x top panel (5mm Black Acrylic)  
1x bottom panel (5mm Black Acrylic)  
1x front panel (5mm Black Acrylic)  
1x back panel (5mm Black Acrylic)  
1x left side panel (5mm Black Acrylic)  
1x right side panel (5mm Black Acrylic)  
2x inner panel (5mm Black Acrylic)

1x soundproof foam back (11mm EVA foam)  
1x soundproof foam bottom (11mm EVA foam)  
1x soundproof foam front (11mm EVA foam)  
1x soundproof foam left side (11mm EVA foam)  
1x soundproof foam right side (11mm EVA foam)  
1x soundproof foam top (11mm EVA foam)

2x soundproof foam 2mm pump mounts (2mm EVA foam)  
1x electrical insulation foam 2mm (2mm EVA foam)

**Nuts and Bolts:**

36x M3 Hexagonal Nyloc Nut (A4 Marine Grade Stainless Steel)  
30x M3 Button Head Hex Bolt 12mm  
4x M3 Button Head Hex Bolt 14mm  
2x M3 Button Head Hex Bolt 20mm

**Other:**

1x anti-vibration pump rubber ring  
1x Tubing 5mm Internal 8mm External Diameter 1m  
1x Water Reservoir  
1x Stainless Steel Scourer  
1x 2g Super Glue  
1x Water

