

GLOBAL
SPECIAL EFFECTS

COLD SPARKS MACHINE

INSTRUCTION MANUAL

SAFETY INFORMATION

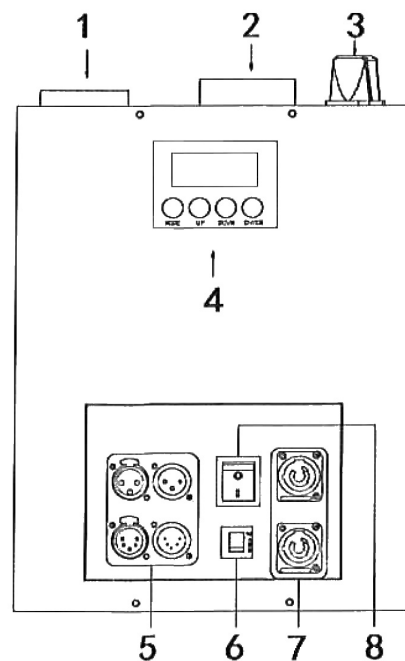
NOTE: Read entire manual thoroughly before use.

1. Do not attempt to disassemble machine or perform maintenance. Any repairs must be completed by Global Special Effects.
2. Always ensure the Sparks Machine is dry. Keep machine away from any weathering including rain and snow. Store the Sparks Machine in a dry, sealed environment away from moisture.
3. Make sure the lid on the Sparks Powder tank is secure. The accidental burning of Sparks Powder may be extinguished with sand. Store the Sparks Powder in a dry, sealed environment away from moisture.
4. Keep the audience and any flammable materials 6-8 ft. away from the Sparks Machine. Ensure the sparks will not come in contact with anything when coming out of the Sparks Machine.
5. Ensure Sparks Powder is clear from the pipe before and after use.
6. Do not attempt to daisy-chain more than (3) Sparks Machines together on a single power source. Exceeding this limit may create unsafe electrical conditions resulting in machine damage and/or fire hazards.
7. The Sparks Machine run time should not exceed 60 seconds. If the machine continuously sparks for more than 60 seconds, the inside of the machine will overheat and cause internal damage. After a single prolonged use of sparks, note that the next sparks use should be followed by a short pause.
8. Do not block the air intake, air outlet, or Sparks Machine nozzle.
9. Do not use if extreme wind speeds are present.

SPECIFICATIONS	
Power	800 Watts
Voltage	AC110-130V 50Hz/60Hz
Weight	22 lbs
Dimensions	9”L x 8”W x 13”H
Heat Up Time	2 Minutes
Spark Height	5-15 Feet <i>(varies based on environmental factors)</i>
Max Spark Time	60 Seconds
Powder Consumption	7 oz. Powder = 10-15 Mins of Running Spark Time
Controller	LCD Controller, Wireless Remote, DMX 512 (1 CH)

PARTS DIAGRAM

1. Spray Nozzle
2. Sparks Powder Tank
3. Remote Receiver
4. LCD Controller
5. DMX Connector
6. Fuse
7. Power Socket
8. Power Switch



OPERATING LCD CONTROLLER

After turning ON the power switch, **Fig. 1** should appear on the display. After approximately 2 minutes, **Fig. 2** will display. Once the Sparks Machine has completed warm up, **Fig. 3** should appear on the display.

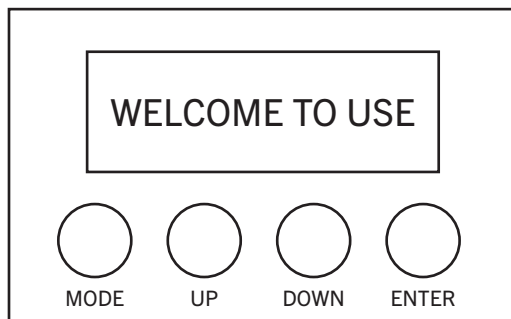


Fig. 1

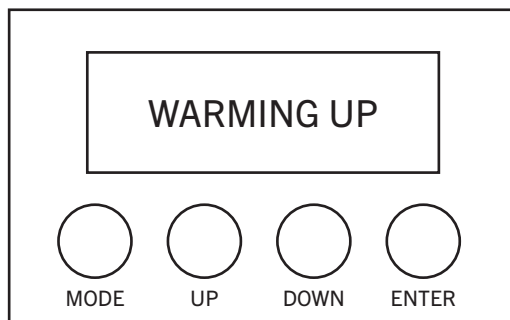


Fig. 2

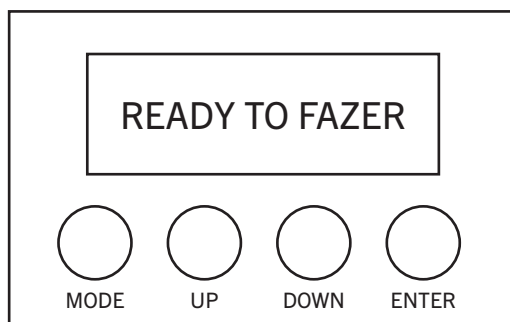


Fig. 3

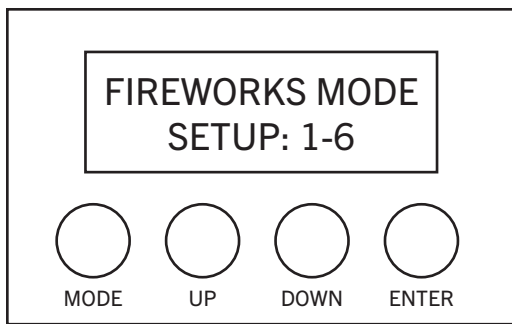


Fig. 4

Fig. 4 — Spark Height (Mode 4, 5, or 6 Only)

Press the MODE button once to bring up screen shown in ***Fig. 4***. Then, use the UP and DOWN buttons to select a mode between 4-6 to set Spark Height.

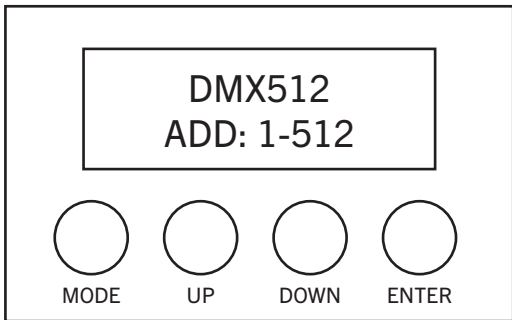


Fig. 5

Fig. 5 — DMX 512 (1 CH)

Press the MODE button twice to bring up screen shown in ***Fig. 5***. Then, use the UP and DOWN buttons to select desired DMX 512 address. (See *DMX Control Section Below*)

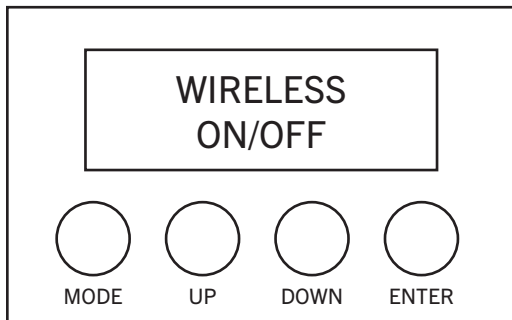


Fig. 6

Fig. 6 — Wireless Remote

Press the MODE button three times to bring up screen shown in ***Fig. 6***. Then, use the UP and DOWN buttons to set Wireless Remote ON or OFF.

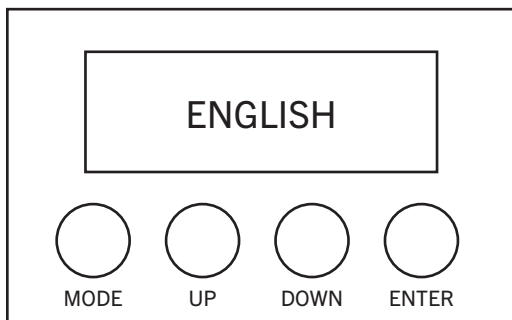


Fig. 7

Fig. 7 — Wireless Remote

Press the MODE button four times to bring up screen shown in ***Fig. 7***. Then, use the UP and DOWN buttons to set desired language for the LCD Controller.

SPARKS POWDER

There are (2) different types of Sparks Powder:

- Sparks Powder for Indoor Use
- Sparks Powder for Outdoor Use

SPARK HEIGHT

As referenced in *Fig. 4*, use this chart to select a mode based on desired Spark Height. Please ensure you use the correct Sparks Powder based on whether the Sparks Machine will be used indoors or outdoors.

MODE	SPARK HEIGHT
MODE 1	DO NOT RUN
MODE 2	DO NOT RUN
MODE 3	DO NOT RUN
MODE 4	LOW
MODE 5	MEDIUM
MODE 6	HIGH

NOTE:

Do NOT attempt to use the Cold Sparks Machine on Mode 1, 2, or 3—the machine WILL NOT produce sparks and may cause internal clogging, damaging the machine. The Cold Sparks Machine must be set on Mode 4, 5, or 6 to run properly.

DMX CONTROL

The Cold Sparks Machine is equipped with a one-channel DMX.

DMX Control can be used in either 3-pin or 5-pin sockets. Refer to **Fig. 5** for how to choose a DMX Channel.

When utilizing DMX, the machine must be set to a minimum of 70% to turn on. (For example, on a standard 512 DMX the Sparks Machine must be set at a minimum of 359 to power on.)

WIRELESS CONTROL

1. When using a Wireless Control, please ensure any DMX Cable is removed from the Sparks Machine. If a DMX Cable is plugged into the machine, the Wireless Control signal will be turned off.
2. If the Wireless Control isn't working, refer to **Fig. 6** to ensure the Wireless Remote is ON.
3. If the remote control is interrupted by other wireless signals, the remote control function can be re-switched or turned off.
4. For frequency operation, press the A or B key and turn on the power switch 5 seconds after the frequency completion. Use the A or B key to control the machine in the original mode of operation.
5. If the light on the remote control won't come on or is weak, check and replace the battery. The transport should prevent the battery key from accidentally turning on and consuming all the power.
6. In the rare instance where the machine is not controlled by remote control and is experiencing interference, the remote control can be re-switched or turned off. DMX 512 control is recommended in cases of strong interference.

CO-FREQUENCY REMOTE SET UP

The Cold Sparks Machine has the capability of controlling numerous machines with a single wireless remote.

1. On the first machine, press the button located on the ***Remote Receiver*** (Refer to *Parts Diagram, Part #3*). A solid red light should appear. Then, press the “A” button located on the small remote control. The red light on the Remote Receiver should change from solid red to blinking. This confirms the frequency has been successfully paired.
2. Press the button located on the next machine’s ***Remote Receiver***. A solid red light should appear. Using the small remote control of the first machine, press the “A” button. The Remote Receiver should change from solid red to blinking. This confirms the frequency has been successfully paired.
3. The frequency of remotes for all machines is now the same. All machines can now be controlled with the same remote control

1-YEAR LIMITED WARRANTY

Global Special Effects provides a 1-Year Limited Warranty for the Cold Sparks Machine from any manufacturing defects. Any misuse, abuse, or negligence automatically voids this warranty. Running any other powder other than Global Special Effects Cold Spark Powder through the machine automatically voids this warranty. Global Special Effects is not responsible for loss of income, labor, or business as a result of a Cold Sparks Machine malfunction. Global Special Effects is not responsible for physical damage, scratching, or other damage after shipping from the Global Special Effects manufacturing facility. Direct all questions and claims to the Global Special Effects customer service line at (256) 229-5551.

