

20080407

Gusto

FM-GT1250

User Instructions

Gusto



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If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.



Read the instructions.



Indoor use only.



This symbol indicating separate collection for electrical and electronic equipment.

Maintenance

The fog liquid is not allowed to get dirty. Be sure to always replace the caps on the fog liquid vessel and the cover of the fog machine liquid tank immediately after filling.

After every 100 hours of everlasting operation, better put 80% distilled water and 20% white vinegar together for cleaning throughout the system to prevent the collection of particulate material in the heating component. The cleaning treatment is suggested as follows:

1. Before cleaning out trash with vinegar and a pipe cleaner while unit is unplugged and cool. Assure the hole of being free of block.
2. Empty all fog liquid and add cleaning solution to tank. Plug unit in and start warm-up.
3. Operate unit in a well-aired area unit tank is vacant.
4. Cleaning is now complete. Refill tank with fog liquid.

Because of the thick consistency of fog liquid and high temperature at which it evaporates, all fog machines incline to clog. But reliable use would last for years if a fog machine is appropriately maintained. Clean with a dry cloth only.

Specification

Model	GT-1250
Applicable Voltages	120V/60Hz or 230, 240V/50Hz
Power	1200W
Fuse	T13A/250V or T7A/250V
Output (cu.ft/min)	20000
Warm Up Time (min)	7
Tank (Liter)	2
Dimensions (LxWxH)	417x230x202 mm
Weight	7.5 kg
Matching Controller (Included)	TC-3
Matching Controller (Option)	DC-3

* Voltage is preset at the factory and may not be changed.

Appendix-C DMX Dip Switch Value Guide

This is a brief guide to DMX dip switch value settings. DMX products must have their own “address” to receive DMX signals. Addresses on GT-1250 are set by flipping appropriate DMX dip switches.

To do this, you need to know the DMX dip switches have the following values: #1=1; #2=2; #3=4; #4=8; #5=16; #6=32; #7=64; #8=128; #9=256. And you need to know that DMX address settings are the sum of the dip switch values.

For example, standard DMX addresses for four GT-1250, each of which has three channels (see Figure 2), follow:

	Address Value	DMX Dip Switches “ON”
Unit 1	1	#1
Unit 2	4	#3
Unit 3	7	#1, #2 & #3
Unit 4	10	#2 & #4

Explanation: Since each unit has three channels, each address advances three values (see address value above).

Once address values are figured out, add DMX dip switch values to obtain the appropriate address (Any of Dip 1-9 “ON”) for each unit. Flip appropriate DMX dip switches on each unit.



Warning!

Like all electronic products, Gusto Fog Machines must be used with safety precautions in mind. Fill enough fog fluid before plugging in, empty fluid tank when not in use or moving.

- Products for indoor use only. Keep away from liquids. Never operate in rain or in damp conditions.
- Use only appropriate, grounded electric power supply for your unit. See your product specification label for appropriate power supply. This appliance must be earthed.
- Disconnect from electric mains power supply when not in use, when filling the fog fluid tank, or when changing a fuse. Keep unit dry. If moisture or liquids enter the fog machine case, immediately disconnect power supply. Contact a service technician to determine safety for use.
- Keep machine in flat position, never put it in tilted place.
- Before moving fog machine, always drain fog fluid into the tank and tighten the tank cap securely to avoid spilling.
- Without user-serviceable parts in the package, please contact your local agent or qualified technician for servicing.
- Without changeable structure by non-qualified user, please do not open the up cover or have any change at will, otherwise, it may cause accident!
- Fog machine is for adult use. Keep out of reach of children. Never leave the unit running unattended.
- Fog machine nozzle gets hot over 200 degrees (centigrade) during use. Don't touch! Maintain a safe distance over 100cm. Never aim the nozzle directly at people.

- Keep case closed while operating. Put fog machine in drafty place, do not insert objects into air vents. Allow 20cm space or above around the machine for proper ventilation.
- Keep fog machine away from flames and flammable items. Never aim the nozzle at open flames or sparks. Use only high quality water-based fog fluid. Never put flammable substances into the tank.
- Machine must cool down before cleaning, servicing or storing.
- Never put any flammable material (lipid, gas, perfume etc.) into the tank, read the user manual thoroughly before operation.
- Better use our high quality water-based fog fluid, random use with other fog fluid may jam the pipe, or even erode the components inside.
- Keep sufficient fog fluid in tank. Operating the unit without sufficient fog fluid, the pump will stop working.
- If any abnormal running occurs, stop it immediately, empty the fluid, and bring the done up unit (recommend original box) to your agent or dealer for servicing. Make sure all fluid is empty from the tank before moving or shipping.
- Never drink fog fluid. If fluid contacts eyes or skin, rinse skin thoroughly with water.
- Read user manual instructions thoroughly before operating. Follow the instruction. Never remove warning or informative labels from the unit.

Appendix-B DC-3

FUNCTION: Select first DMX address, Interval, Duration, Volume, Master, Channel, then have the numerical value changed by using UP and DOWN buttons.

DMX address: Setting of DMX address, pressing UP/Down button at the same time have the number return to"0".

Interval: Setting of Interval time from 10s~250s, effective as starting the Timer function.

Duration: Setting of Duration time from 1s~15s, effective as starting the Timer function.

Volume: Setting of fogging volume from 10%~100%, effective as starting the Timer function.

Master: When connecting all Fogs by DMX, set this unit to ON as the Master giving order. They are all controlled by the Timer, Hold, Manual in the display. Any other DMX controller is excluded at this moment, nor does other Master set to ON. Channel becomes the single one, DMX address all set to 001.

Channel: Switching DMX as one or three channels. Only "Volume" function if with single channel (refer to Figure 2)

UP: Button for increasing numerical value.

DOWN: Button for decreasing numerical value.

TIMER: Puffing timely according to the adjusted volume, duration, interval on the display. This function can be executed forcedly under any circumstances.

HOLD: Under any status, being pressed the button, it fogs the set volume continuously. Pressed again the button, it recovers the original status. This function can be executed forcedly under any circumstances.

MANUAL: Function can be executed forcedly under any circumstances. Pressed the button, it fogs maximum volume. Released pressing, the original status gets recovered at once.

Caution: Before removing or replacing the remote control Unit disconnect the power cord.

Appendix-B DC-3

LCD Display Remote Control Operation

DC-3 is a plastic LCD Display controller of Timing and Volume Control, simultaneously capacitating for DMX 512 setting function. It simply controls fogging output, puffing interval and duration. Master/Slave control of various units is functional. Cable length is 10m with 5 pin XLR connector.



Caution!

There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, doing so will void your manufactures warranty. In the unlikely event your unit may require service please contact your local dealer.

Please note:

Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

Important

The wires in this mains lead are coloured in accordance with the following code.

Green and Yellow - Earthed (E)

Blue - Neutral (N)

Brown - Live (L)

Warning: This appliance must be earthed.

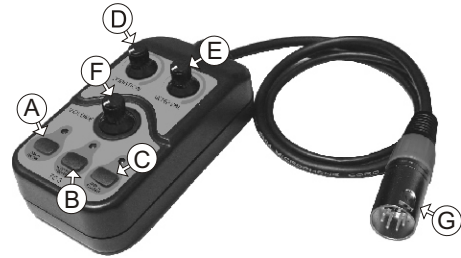


Figure 1 GT-1250 Functions



- A. Bracket
- B. Handle
- C. Fog Fluid Tank
- D. Indicator LED
- E. DMX 3 pin XLR Output
- F. DMX 3 pin XLR Input
- G. Control Socket Connection
- H. Dip Switch Setting
 - DMX Address Setting Dip
 - FDS1 off=use controller DC-3
on=use controller TC-3
 - FDS2 off=1CH DMX
on=3CH DMX
- I. Power Switch
- J. Fuse Holder
- K. Electric Power Cord

Appendix-A TC-3



	Function	Movement Instruction
A	Timers ON/OFF	Press the button; the timer of interval output stop and the upper red LED will glow.
B	Continuous Fogging	Press the button, the fog machine emits fog continuously and the upper red LED will glow.
C	Manual Fogging	Press the button, it allows the operation be controlled manually. After the machine has warmed up, the upper green LED will glow.
D	Duration	0.5s~10s±1s
E	Interval	9s~280s±20s
F	Volume	0%~100%
G	5 pin XLR cable	8 m

Appendix-A TC-3

Timing Remote Control Operation

TC-3 timing controller is suitable for GT-1250, the operating manners and functions as follows:

1. The order of fogging:
Continuous Fogging → Manual Fogging → Interval Fogging
2. No matter the fog machine has warmed up or not, that will not affect the timing control.
3. When green LED turns off, machine is warming up; when green LED turns on, machine has finished heating, indicating time is now ready for fogging.
4. When TIMERS button turns on, CONTINUOUS and MANUAL buttons turn off; the fogging duration is adjusted by turning DURATION knob (D), INTERVAL knob sets the amount of time in between every fog output, and VOLUME knob adjusts the fog volume. DURATION and INTERVAL knobs are effective at this moment.
5. When TIMERS button turns off, this should make the upper LED glows; CONTINUOUS and MANUAL buttons turn off indicates all motions stop.
6. When CONTINUOUS button turns on, the upper LED glows, the machine emits fog continuously until an OFF green LED appears (indicating time is now to warm-up again). TIMER and MANUAL button are ineffective at this moment.
7. When TIMERS button turns on and CONTINUOUS button turns off, the fog machine be controlled by MANUAL button, press it to emit fog and press it again to stop fog outputs.

Caution: Before removing or replacing the remote control unit disconnect the power cord.

User Manual

Thank you for selecting our GUSTO fogs series, you already own the high-tech, professional DMX Fogs! Better read the manual thoroughly before operation, follow instruction will help you have a smooth handling with GUSTO series to achieve the most satisfactory fog effect, it will also assist unit to further prolong life time as a whole.

Getting Ready

All products are thoroughly tested at the factory and shipped in perfect condition. If damage has occurred during shipping, or if components are missing, please contact your local dealer immediately.

Your package should include:

1. One Gusto Fog Machine with bracket
2. One TC-3 timer controller
3. One product user manual



Set Up

1. Open the shipping carton and carefully remove the unit from the shipping carton.
2. Be sure to remove packing material from around the fog machine, especially near the nozzle.
3. Set the fog machine on a dry, flat surface.
4. Place the feeder tube with filter deep inside the full fog fluid tank (C of Figure1). Use only high quality, water-based fog fluid.
5. Firmly attach the remote control mechanism to socket (G of Figure1) on the back of the unit. Or use DMX control setting (H of Figure1) on the back of the unit.
6. Plug mains power cord from the fog machine into appropriate power supply socket. Wait about 7 minutes for heating element to heat up.
7. Refer to your controller manual for operation details. (Appendix-A, B)
8. If fog is emitted continuously for a long time, the heating element temperature may drop, shutting off fog production. If so, please do not activate for emission. Wait briefly. When the heating element temperature rises, fog emissions can be resumed.

Remote Control Operation (Any of DMX Dip 1-9 "OFF")

For best result, use TC-3 timing controller or DS-3 LCD Display controller.

1. Firmly attach the remote control mechanism to socket (G of Figure1) on the back of the unit.
2. Plug mains power cord from the fog machine into appropriate power supply socket. Wait about 7 minutes for heating element to heat up.
3. Refer to your controller manual for operation details. (Appendix-A, B)

Troubleshooting

This troubleshooting guide is meant to help solve simple problems.

If a problem occurs, carry out the steps below in sequence until a solution is found. If the problem persists, refer servicing to a qualified technician.

Power Connected but No Fog Is Emitted

1. Check the power supply. Plug the unit into grounded electric power supply socket with proper voltage.
2. Check your controller connection.
3. Check your DMX address setting.
4. Disconnect fog machine from electric power supply. Replace fuse with one of the same type.

Note Other Important Detail:

Plugging GT-1250 in, the red LED under tank bottom will glow indicating power on & warming-up. Check if with correct voltage in case it doesn't glow. A lit blue LED under tank bottom appears as warm-up arrives at fogging point, indicating a finished heating time. Besides, GT-1250 devises the low fluid sensor. LED under tank bottom will automatically flash to warn low fluid supply, no matter under warming-up (a lit red LED) or heating has finished (a lit blue LED), provided fluid reduces to low level. The pump stops simultaneously. Keep an eye on to ensure enough fog fluid when running.

Should there be any low fog emitted, running noisily or hindered fogging, pull out the plug immediately. Check if string enough fog fluid, or if outside fuse, controller connection and power supply improper, if not, plug-in again, still persists abnormal running, check if with an unhindered pipe, with flowing fluid. If causation is unclear, stop running to avoid any damage, shut down to cool it, and bring unit to your local agent or appointed service place for inspection, prohibit any dismantlement by yourself.

Function Dip Switch Explanation

FDS1: Controller Selection **OFF:** DC-3 **ON:** TC-3
FDS2: Channel Selection

- When you use TC-3, DMX address setting is **OFF:** 1 channel
ON: 3 channel
- When you use DC-3, this function is ineffective, and DMX address setting by DC-3 directly.

DMX Control Operation (Any of DMX Dip 1-9 “ON”)

Use DMX Dip switches 1-9 to set the unit to the desired DMX 512 address. Refer to the DMX value guide in Appendix-C.

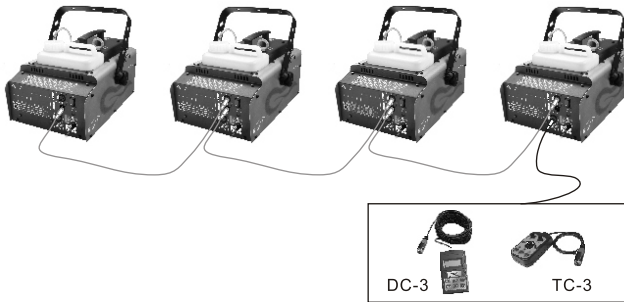
1. Connect the DMX 512 controller cable to the input socket (F of Figure 1) of the fog machine unit. Make sure the signal cable polarity is correct. Connect power lines. Your GT-1250 is now ready for operation with your DMX controller.
2. If desired, connect another fog machine: Plug one end of another signal cable in to the output socket (E of Figure 1) on the back of the first GT-1250; plug the other end of the signal cable to the input socket on the back of the second GT-1250. Follow the same procedure to link more fog machine, if desired.

Figure 2

CH1: Volume 0~4: Stop 5~255: Fog volume from small to big, range is 10%~100%
CH2: INTERVAL (single channel mode without this channel) 0~255: Interval time is 10~250 seconds
CH3: DURATION (single channel mode without this channel) 0~255: Duration of fog emission is 1~15 seconds

MASTER/SLAVE Operation (Any of DMX Dip 1-9 “OFF”)

Please use TC-3 or DC-3 for master/slave operation. Please put the GT-1250 on a dry and flat surface, and then connect the controller to the control input socket (G of figure 1) on the back of the Master fog machine. To connect another fog machine: plug one end of a signal cable into the output socket (E of figure 1) on the back of the master fogger; plug the other end of the signal cable to the input socket (F of figure 1) on the back of a second GT-1250. Follow this procedure to link more fog machine.



MASTER/SLAVE Operation (Any of DMX Dip 1-9 “OFF”)

When using TC-3 or DC-3 for master/slave operation, please follow below steps:

- TC-3 timing controller
 1. Master fogger: select ON at FDS1, and then set all DMX dip 9 keys OFF to run the DMX output mode and have all the other connected GT-1250 acting synchronously;
 2. The other connected foggers: set them at the same DMX address “1” and select ON at their FDS1 and OFF at their FDS2 (one channel mode);
 3. You foggers are now ready and you can run master/slave function with the TC-3.

Please note: any of DMX dip 9 keys ON can switch the master fogger to DMX input mode which makes it only receive signal from other connected DMX controllers instead of TC-3. Make sure there is only one master in connection (Do not turn OFF all of DMX dip 9 keys for the other connected GT-1250).

- DC-3 LCD display controller
 1. Master fogger: select OFF at FDS1 (all of DMX dip 9 keys become ineffective), and then press FUNCTION on the display to set its “Master” ON;
 2. The other connected foggers: set them at the same DMX address “1” and select ON at their FDS1 and OFF at their FDS2 (one channel mode);
 3. You foggers are now ready and you can run master/slave function with the DC-3.

Please make sure that there is only one master in connection (Do not turn OFF all of DMX dip 9 keys for the other connected GT-1250).