EXPLO SFX

IGNITION SYSTEMS • SPECIAL EFFECTS

Maintenance instructions for effect devices

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1 GX2 (ALL VARIANTS)

1.1 STORAGE

- Depressurize the system of every effect device after every show and again before moving them into storage, to avoid wearing out sealing- and moving parts!
- Clean the effect devices with rubbing alcohol to get rid of unburned fuel and dirt or grime!
- Use a toothbrush or scour pads to clean the electrodes!
- Charge batteries before moving the devices into storage and then charge at least once every 2 months!
- Remove aerosol cans and open the aerosol-adapters valves to avoid storing under pressure, aerosol-adapters can be left on the device!
- Store at room temperature. Avoid large temperature changes. Do not store close to heating devices! Store at temperatures between 10°C-35°C!

1.2 BEFORE EVERY SHOW

- Check safety distances and adjust accordingly!
- Prepare a CO2 Extinguisher just in case!
- Check the batteries, charge if necessary!
- Check the devices and hoses for leakage!
- Check the devices by firing them with the chosen controller for the upcoming show!

1.2.1 FOR DMX:

- Avoid DMX cables and Power cables running alongside each other.
- Always use DMX terminators on the last device in a DMX chain.

1.2.2 FOR RC:

- Check connection of transmitter and receivers on location!
- Check if the show has been transmitted to all receivers!

Do all the tests with enough lead-time before the next show!
This gives you the possibility to contact Explo SFX for advice and solutions in case anything is not working as intended!

1.3 AFTER THE SHOW

- Empty out the remaining gas/liquid of the tube-systems after shutting off the source, fire until no flame is emitted anymore!
- For the GX2 liquid, remove the quick connector and let the liquid flow out of the system into a container!
- Check devices for damages and mark faulty ones with tape and a description of the issue!
- Disconnect the controller and gas/liquid source and shut off the devices!
- Clean the devices when they are dirty!

2 X2 WAVEFLAME / WAVEFLAME HEAD AND LPS

2.1 STORAGE

- Depressurize the System of every effect device after every show and again before moving them into storage to avoid wearing out sealing- and moving parts!
- Clean the effect devices with rubbing alcohol to get rid of unburned fuel and dirt or grime!
- Use a toothbrush or scour pads to clean the electrodes!
- Store the X2 Wave Flames / LPS with at least 1Liter of fuel in the tank to avoid damages when pumping up the device and having forgotten to add more fuel!
- Run the system at least once a month to ensure proper lubrication and avoid drying out of the pump system!

When running the system, if possible, shoot the devices to ensure proper function!

2.2 BEFORE EVERY SHOW

- Check safety distances and adjust accordingly!
- When changing nozzles, only fasten them hand tight!
- Shoot the device with 3 long bursts before a show to get rid of the old liquid/excess air from the solenoid valves up to the nozzle to ensure proper ignition!
- Prepare a CO2 Extinguisher just in case!
- Check the devices by firing them with the chosen controller for the upcoming show!
- Check if enough liquid is in the tank and prepare more canisters to fast swap if necessary!

2.2.1 FOR DMX:

- Avoid DMX cables and Power cables running alongside each other.
- Always use DMX terminators on the last device in a DMX chain.

2.2.2 FOR RC:

- Check connection of transmitter and receivers on location!
- Check if the show has been transmitted to all receivers!

2.3 AFTER EVERY SHOW

- Check devices for damages and mark faulty ones with tape and a description of the issue!
- Depressurize the system by disarming the devices!
- Press the "E / Minus / Vent" Button before taking the devices off power to check once more if all the pressure is gone!
- Clean the devices when they are dirty!

3 X2 POWERFLAME

3.1 STORAGE

- Depressurize the System of every effect device after every show and again before moving them into storage to avoid wearing out sealing- and moving parts!
- Clean the effect devices with rubbing alcohol to get rid of unburned fuel and dirt or grime!
- Use a toothbrush or scour pads to clean the electrodes!
- Check if the pressure inside is "0" before moving devices into storage!

3.2 BEFORE EVERY SHOW

- Check safety distances and adjust accordingly!
- Prepare a CO2 Extinguisher just in case!
- Check the devices by firing them with the chosen controller for the upcoming show!
- Check the devices and hoses for leakage!

3.2.1 FOR DMX:

- Avoid DMX cables and Power cables running alongside each other.
- Always use DMX terminators on the last device in a DMX chain.

3.2.2 FOR RC:

- Check connection of transmitter and receivers on location!
- Check if the show has been transmitted to all receivers!

3.3 AFTER EVERY SHOW

- Check devices for damages and mark faulty ones with tape and a description of the issue!
- Disconnect the manifold from the Nitrogen and Propane tank!
- Open the inlet quick coupling to avoid pressurized gas to remain in the tube system!
- Empty the tank completely either by shooting until no more flame is expelled, or by using channel 24 on the transmitter to discharge the unburned gas from the tank!
- Clean the devices when they are dirty!

Make sure no one is in the vicinity of the device when emptying the tank and only do this outdoors!

4 CO2 EFFECT DEVICES (CO2 WAVE JET, CO2 JET, CO2 GUN)

4.1 STORAGE

- Depressurize the System of every effect device after every show and again before moving them into storage to avoid wearing out sealing- and moving parts!
- Clean the effect devices with rubbing alcohol to get rid of dirt or grime!

4.2 BEFORE EVERY SHOW

- Check safety distances and adjust accordingly!
- Check the devices and hoses for leakage!
- Check if the area is well ventilated, if using the devices indoors!
- Shoot the devices to see the effect when changing the CO2 tank!
- Use the desired controlling method to test all devices to check if they will work on location!
- Anchor CO2 tanks to prevent them from tipping over!
- Anchor the CO2 device to prevent them from sliding!
- Instruct personnel on the noise and enforce the use of ear protection!
- Always use DMX terminators on the last device in a DMX chain! (Wave Jet)

CO2 devices have recoil, anchor them accordingly!
Instruct actors who use the CO2 gun to hold firmly onto the device!

4.3 AFTER EVERY SHOW

- Check devices for damages and mark faulty ones with tape and a description of the issue!
- Close the tank and fire the device to depressurize the system including the hose!
- Wait until the devices are dry or wipe them down with a cloth before packing them!
- Clean the devices when they are dirty!

5 GX3 SFX TORCH

5.1 STORAGE

- Depressurize the System of every effect device after every show and again before moving them into storage to avoid wearing out sealing- and moving parts!
- Charge batteries before moving the devices into storage and then charge at least once every 2 months!
- Use a toothbrush or scour pads to clean the electrodes!
- Clean the effect devices with rubbing alcohol to get rid of dirt or grime!
- Remove aerosol cans and open the aerosol-adapters valves to avoid storing under pressure!
- Store at room temperature! Avoid large temperature changes! Do not store close to heating devices! Store at temperatures between 10°C-35°C!

5.2 BEFORE EVERY SHOW

- Check safety distances and adjust accordingly!
- Prepare a CO2 Extinguisher just in case!
- Check the devices' function, by using it without any aerosol cans connected to hear the solenoid valve and see the spark on the tips of the electrode!
- Connect aerosol cans and test fire the device to ensure function.
- Charge the devices!
- Instruct the user on how to handle the device properly and how to react in emergency situations.

Never look down into the nozzle of the GX3 when checking the spark!

5.3 AFTER EVERY SHOW

- Check devices for damages and mark faulty ones with tape and a description of the issue!
- Close the blue aerosol valves and remove the aerosol cans, then fire the device in a safe environment until no more flame is expelled!
- Clean the devices when they are dirty!

6 FIRE BOWL

6.1 STORAGE

- Depressurize each device after every show and before any extended storage to avoid damage to sealing surfaces and moving parts!
- Wipe off sooty areas first with a dry cloth, then use a soot remover!
- Use an old toothbrush or abrasive fleece to clean the electrodes!
- Clean the devices with alcohol (spirit) to remove dirt and soot!
- Store in a dry place at room temperature!

6.2 BEFORE EVERY SHOW

- Check safety distances and adjust accordingly!
- Check what is located above the device and ensure that the flame height is adjusted accordingly!
- Prepare a CO2 Extinguisher just in case!
- Test the functionality with the gas cylinder closed; listen to the sound of the solenoid valve and check for the ignition spark! The spark should only arc at the tips of the electrodes!
- Connect the gas cylinders and test the devices for proper operation!
- Check the gas cylinder heater if one is being used!
- Instruct the user on how to handle the device properly and how to react in emergency situations.

For burn durations longer than 10 minutes, it is recommended to use a gas cylinder heater, as the flame pattern may otherwise become smaller!

6.3 AFTER EVERY SHOW

- Wait until the devices have cooled down before touching or moving them.
- Inspect the devices for damage and mark any faulty ones!
- Close the gas cylinder and activate the device in a safe environment until no flame is produced!
- Clean the devices when they are dirty!

After extended use, soot may accumulate—wear gloves when carrying the device to avoid getting your hands dirty!

THE FIRE BOWL MUST NOT BE OPERATED WITH LIQUID GAS!

7 IMPORTANT INFORMATION

EXPLO RECOMMENDS A SERVICE OF THE EFFECT DEVICES EVERY 2 YEARS!

INSTRUCT ALL PERSONNEL AND ACTORS ON THE EFFECTS AND MARK SAFETY AREAS ACCORDINGLY!

IF YOU EXPERIENCE ISSUES IMMEDIATELY CONTACT office@explo.at!
PROVIDE A DETAILED DESCRIPTION OF THE PROBLEM AND ALWAYS INCLUDE THE ID AND THE FIRMWARE VERSION OF THE DEVICE!

ALWAYS USE DMX TERMINATORS ON THE LAST DEVICE OF A DMX CHAIN!

WHEN CHANGING NOZZLES, ONLY FASTEN THEM HAND TIGHT!
OVERTIGHTENING WILL DAMAGE THE THREADS OF THE DEVICE!

USE A TARP TO COVER DEVICES IN BETWEEN SHOWS, IF THE EVENT LASTS SEVERAL DAYS!
DO THE SAME FOR FIXED INSTALLATIONS!

ONLY EVER USE CO2 EXTIGUISHERS!
POWDER EXTINGUISHERS WILL DESTROY THE DEVICE BEYOND REPAIR AND VOID THE WARRANTY!