



XM42 - X

User Manual

Transportation, shipping, and/or use of the XM42-X may be regulated by federal, state, and/or local law. Verify applicable laws before using, transporting, or shipping. XM42 and its members, managers, agents, and representatives shall not be liable for any special or consequential damages that result from the use of products offered, even if XM42 has been advised of the possibility of such damages. Applicable law may not allow the limitation or exclusion of liability or incidental or consequential damages.

Although the contents of this manual are believed to be accurate, XM42-X does not assume responsibility as to the accuracy, correctness, completeness, reliability and up-to-dateness of information made available through the manual. The contents of the manual are provided "as is" and without any expressed or implied warranties of any kind. XM42-X disclaims liability for any damages that arise as a result of the direct or indirect use of its manual and/or websites, which it controls, without prior notice.

IMPORTANT SAFETY WARNINGS AND INSTRUCTIONS

When the XM42-X is turned on and the trigger is pressed, the XM42-X sends out a stream of fuel that's ignited. The stream may extend beyond 25 feet. The XM42-X is intended for proper use in accordance with the user manual by legally-competent persons over the age of 18. XM42-X and its members, managers, agents, and representatives shall not be liable for any damages that result from improper or unauthorized use.

1. Read all instructions before operating product. Failure to follow all instructions listed below may result in burns, unintentional fires, and/or serious injury or death. Save these instructions and review frequently before use and when instructing others.
2. KEEP OUT OF REACH OF CHILDREN
3. The XM42-X fuel container must be placed on the ground or a grounded surface during refueling. As with filling any fuel container, there is a risk of static charge buildup.
4. Inspect for leaks before operation. Check all visible fittings and ensure there is no fuel leaking anywhere on or inside the device. If you suspect or notice any leakage (through sight, smell, or otherwise), discontinue use immediately and contact us for technical support.
5. Never aim in any unsafe direction.
6. Keep all parts of your body as far away as possible from the nozzle during use.
7. Do not aim towards anything you do not intend to ignite.
8. When refilling the tank, ensure the device is off.
9. Do not use in windy conditions. The fuel stream and droplets of fuel can travel toward the operator or other unintended areas.
10. Do not drop or impact in any way. If the XM42-X is dropped, although it is rugged, it may cause a component failure. If the unit fails to operate correctly, immediately contact us for repairs and do not attempt to use.
11. Do not expose to or use in temperatures higher than 120F or lower than 0F.
12. Fuel has the ability to drip from the nozzle of the device at any time. Always be sure the XM42-X is directed safely away from people and any flammable surfaces, and that all parts of the operator's body are as far away from the nozzle as possible. Never aim the XM42-X higher than 45 degrees: risk of fuel drip onto the operator increases significantly.
13. The insulation plates may absorb fuel which may lead to the XM42-X to continue burning after fuel flow has stopped.
14. DO NOT DISASSEMBLE IN ANY WAY unless you have been authorized by XM42-X to do so. Disassembly instructions for aftermarket finishing or end-user repairs are available by contacting support@XM42.com.

15. The XM42-X is not waterproof. It may be slightly water resistant (light rain) for a brief period, but it would be wise to prevent liquids from entering the unit in any way to prevent short circuits. If any liquid gets inside the main body, allow it to completely dry before using. Nozzle area and electrodes become hot and aflame during use. **DO NOT TOUCH NOZZLE AREA OR ELECTRODES.**
16. **DO NOT TRANSPORT WHILE FILLED WITH FUEL.** Pressure can build up and force fuel out the nozzle making a hazardous mess.
17. **DO NOT USE SOLVENTS ANYWHERE NEAR THE XM42-X.**

LITHIUM BATTERY SAFETY WARNINGS

1. **CHECK VOLTAGE DURING EVERY USE. DO NOT** allow overall battery pack voltage to drop below 10.5 volts. The battery may not re-charge or may become hazardous. A low voltage alarm will sound if the voltage dips below 10.5 volts to alert the user to stop use immediately and recharge or change the battery.
2. **DO NOT** charge with any charger other than the one provided or one that XM42-X recommends.
3. Failure to read and follow these instructions may result in fire, personal injury, and damage to property if charged or used improperly.
4. Lithium polymer battery packs may explode and cause fire if misused or short circuited.
5. **DO NOT PUNCTURE THE BATTERY, DO NOT SHORT CIRCUIT THE BATTERY, DO NOT INCINERATE THE BATTERY. DO NOT EAT THE BATTERY.**
6. **DO NOT EXPOSE TO WATER, EXCESSIVE MOISTURE, OR ANY LIQUID.**
7. When charging the battery, place the battery in a fire proof area. Do not leave unattended. **DO NOT LEAVE BATTERY CHARGING OVERNIGHT!**
8. If you notice any damaged or frayed wiring, discontinue use immediately, place in a safe area, and contact us for technical assistance.
9. **NEVER** make a wrong polarity connection when charging and discharging battery packs.
10. Replace battery with a new one at least every 3 years for safety and longevity of charge.
11. **NEVER** leave the battery where it is subjected to extremes in temperature. This includes low levels as well as high.
12. **DO NOT** leave the battery in direct sunlight.
13. There are fire risks when batteries are overcharged or short circuited, or if they have become submerged in water (even if they have been dried out) or if their cases have become damaged.
14. Remove the battery from the charging source as soon as the indicator shows that charging is complete. The charger should protect against overcharging, but why not be extra safe?
15. Inspect battery for physical damage or degradation before each use. Do not use a battery that is damaged.
16. The battery should **NOT** be left for a long period of time fully charged (can ruin LiPo batteries) or fully discharged. Ideally they should be stored long-term at around 50% charge.

HOW TO USE

STEP 1: Access Battery Compartment

Ensure the unit is powered off. The battery compartment is located on the back of the unit. Pop the battery door open to gain access to the battery.

STEP 2: Charge Battery

The battery comes 30%-50% charged from the factory, but it needs to be fully charged (12.4-12.6 volts) before use.

Plug the charger's AC plug into a 110-120V wall outlet. The lights will blink. Plug the battery's small white connector into the charger. Ensure the ridges align with the spaces in the charger.

The lights will turn solid red, indicating that the battery is charging. These lights will turn solid green when charging is complete. Use care when removing the charging wire from the charger.

Lithium Polymer batteries should NOT be charged overnight (significant fire hazard) and also should NOT be left for a long period of time fully charged (can ruin the battery).

STEP 3: Install the Battery

Plug the charged battery's yellow power connector into the body power connector and close the battery door. The door is fully closed when an audible click is heard.

STEP 4 Fill up with Fuel

Remove the tank from the unit. Set the tank down on a flat surface and remove the fuel cap. Carefully pour a choice of below approved fuels into the tank. We recommend using a funnel while fueling to minimize spillage. Do not fill past the MAX FILL line. Install the fuel tank by screwing it into the unit until it is hand-tight.

USE ONLY APPROVED FUELS

- Gasoline (unleaded)
- Gasoline-diesel mixture (50%-70% gasoline)
- Unapproved fuels may not have been tested and could damage the o-rings or fuel pump.

Do NOT use or store diesel fuel if the unit will be exposed to temperatures below freezing. The fuel will gel and clog the fuel pump.

STEP 5 Turn on the System

Press the power button and the light will illuminate green. The power button will click in and depress. Aim the XM42-X in a safe direction and press the trigger button to emit fuel and a flaming stream.

STEP 6 When you're done

Turn off the unit by pressing the power button again. The button will now return to its original place after a click is heard and the green light will no longer be illuminated. Ensure the switch is off when not in use to prevent any inadvertent fuel emission or fires.

Small amounts of fuel trapped between the pump and nozzle can continue to spurt from the nozzle after the system is off. Put a rag over the end after the XM42-X cools.

ACCESSORIES

The XM42-X has various forms available. The unit comes with a drop-grip as well as a top grip. You may also want to exchange the fuel tank for a bigger, wearable back tank.

CHANGING GRIPS

STEP 1

Remove the four screws holding the grip to the housing using the provided 9/64s hex L-key.

STEP 2

Unplug the installed grip from the housing and plug in your chosen grip to the female port.

STEP 3

Use the 9/64s hex L-key to screw the four screws back into the housing.

STEP 4

If using the top grip: Remove the dip tube adapter.
If using the drop grip: Insert the dip tube adapter.

NOTICE: The threaded inserts may cross thread. When inserting the screws into the inserts, start slowly and verify you are not cross threading the inserts.

CHANGING TANKS

STEP 1

Remove the current tank and the dip tube using the provided tool.

STEP 2

Insert the external tank adapter using the provided tool.

STEP 3

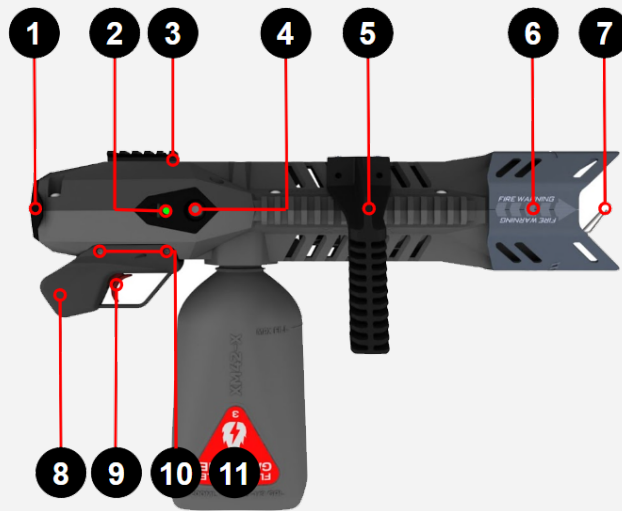
Connect the external tank and tubing to the adapter.

FOREGRIP

Attach foregrip to housing in desired position using provided hardware.

DROP GRIP VARIANT:

- | | |
|-----------------------------------|---------------------------------------|
| 1. Quick-Access Battery Door | 7. Plasma Emitting Ignition Electrode |
| 2. 3 Color LED Indicator | 8. Drop Grip |
| 3. Picatinny Rail | 9. Trigger |
| 4. Aluminium On/Off Button | 10. Grip Screws |
| 5. Multi-position Foregrip | 11. 1/3 Gallon Fuel Tank |
| 6. Anodized Aluminium Heat Shield | |



TOP GRIP VARIANT:

- | | |
|---------------------------------------|-------------------------------|
| 1. Plasma Emitting Ignition Electrode | 8. Insulator |
| 2. Fuel Stream Fuel Nozzle | 9. Picatinny Rail |
| 3. Anodized Aluminium Heat Shield | 10. Power Button |
| 4. Multi-position Foregrip | 11. Picatinny Rail |
| 5. 1/3 Gallon Fuel Tank | 12. 3 Color LED Indicator |
| 6. Flip Cap Trigger Cover | 13. Quick-Access Battery Door |
| 7. Top Grip | 14. Grip Screws |



TROUBLESHOOTING

While the XM42-X is a precision built product using industrial grade components, there's always a chance that a mechanical part can fail or degrade. Here are some solutions to try in case you run into any problems. For anything not solvable using this manual, reach out to support@xm42.com and we will do everything we can to correct it.

PROBLEM	POSSIBLE ISSUE
The pump sounds like it runs, but nothing is expelled.	<ul style="list-style-type: none"> • Lack of fuel in the fuel tank. • The feed tube, hose, or filter is obstructed. • The nozzle is clogged. • The fuel pump is faulty.
The power button does not illuminate.	<ul style="list-style-type: none"> • Battery is not connected. • Battery is faulty. • The wiring is not routed properly.
The power button is illuminated, but the trigger button does not activate the pump.	<p>Is there a clicking sound?</p> <p>YES:</p> <ul style="list-style-type: none"> • The relay's contacts may be moving, but not fully touching. • It may be a faulty fuel pump. <p>NO:</p> <ul style="list-style-type: none"> • The momentary switch may be faulty. • A wire may have jostled loose from the relay harness. • The wire to/from the trigger switch may be disconnected. • The fuel pump may be faulty.
My flamethrower is beeping/buzzing.	The battery voltage is below the recommended usage level. Stop using the flamethrower and charge the battery.
The charger's lights continue to flash red when the battery is connected for charging.	The battery has a serious fault and should be replaced immediately.
One or two lights on the charger have remained red while the rest have been green for at least 30 minutes.	The cells that remain red are faulty. The battery should be replaced immediately.
The electrode is firing but isn't igniting fuel.	<ul style="list-style-type: none"> • There may be too much carbon buildup on the electrode. • The electrode may be shorting, inspect the ceramic for cracks or a break. • The electrode isn't close enough to the fuel stream.
The electrode isn't firing.	<ul style="list-style-type: none"> • The battery isn't charged enough. • The coil pack or electrode is faulty. • Wiring is faulty.

MAINTENANCE

The XM42-X is designed to be generally maintenance-free. All components are designed for industrial use. Nevertheless, failures can occur in any mechanical device. The internals utilize aluminum plumbing as well as fluoroelastomer o-rings. Inspect for leakage before every use to be safe.

- The current industry recommendation is to replace LiPo batteries every 3 years. Use a quality 2200mAh or larger 3s 12.6 volt XT60 connector lithium-polymer battery and recycle the old unit where applicable. **DO NOT DISCARD IN TRASH.**
- Do not store the device with fuel in the tank.
- Keep the fuel tank and plumbing clean and free of debris.

Contact us directly at support@xm42.com if you require service parts that are not listed in our online store.

1 YEAR LIMITED WARRANTY

Subject to the terms, conditions, and limitations outlined below, XM42 guarantees your XM42-X against defects in materials and workmanship for a 1-year period of time for the original consumer purchaser.

To make a claim under this warranty please contact us via email at support@xm42.com and include your product serial number and brief description of the problem. A copy of a bill of sale in your name or other verifiable proof showing that you are the original consumer purchaser may be required. For repairs that are covered by the warranty, XM42 will pay the transportation charges to return your XM42-X and transport it back to you. Shipping insurance is NOT included and if desired may be purchased from XM42 by the consumer who is sending the XM42-X for repairs. If a material or workmanship defect is found, and a valid claim is received within the warranty period, XM42 will (1) repair the XM42-X or (2) replace the XM42-X. In the event of a defect, these are your exclusive remedies. Once XM42 validates your claim, we will determine whether the defect is user-repairable, XM42 will provide you with the replacement part and thorough instructions. If not, XM42 will provide a return label (and packaging if needed) and make it right. In no event will XM42 accept any shipment that is sent C.O.D.

If an XM42-X flamethrower needs repair after the 1-year limited warranty period has expired, then XM42 will repair the flamethrower for parts cost + labor + shipping at the expense of the consumer.

LIMITATIONS OF WARRANTY

The warranty will be void if any of the following occur:

1. The instructions in the user manual are not followed;
2. The XM42-X or any of its parts are altered or modified from their original state;
3. Damage is caused by misuse, abuse, or improper maintenance; or
4. The XM42-X is disassembled beyond the instructions in the user manual or the direct instruction of XM42.

There are no warranties which extend beyond the description on the face hereof. The sole and exclusive remedy pursuant to this warranty is the repair or replacement of the XM42-X, at the sole discretion of XM42. The implied warranties of merchantability and fitness for a particular purpose are expressly disclaimed.

All disclaimers and limitations of liability shall still apply even if the limited remedy of repair and replacement fails of its essential purpose. In states where permitted, XM42 assumes no liability for incidental or consequential damage or for incidental expenses. Any action against XM42 based on an alleged breach of this warranty must be brought within one (1) year of the claimed breach. XM42's liability for breach of warranty shall be limited to repair or replacement of the XM42-X, at the sole discretion of XM42. The XM42-X is a dangerous device. The purchaser assumes all liability resulting from unsafe handling or any action that constitutes a violation of any applicable laws or regulations. XM42 will not be responsible for injuries or damages resulting from careless handling, unauthorized or unsafe adjustments or modifications, the use of incorrect fuel, the use of incorrect or damaged electrodes, the use of incompatible or improperly installed accessories, corrosion, neglect, fire damage, water damage, theft, abuse, ordinary wear and tear, or unreasonable use of the XM42-X. Under no circumstances shall XM42 be responsible for incidental or consequential damages with respect to economic loss or injury or property damage, whether as a result of breach of express or implied warranty, negligence or otherwise.

