XC-APLM Operator's Manual

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XC-APLM Anti-Personnel Landmine Simulator

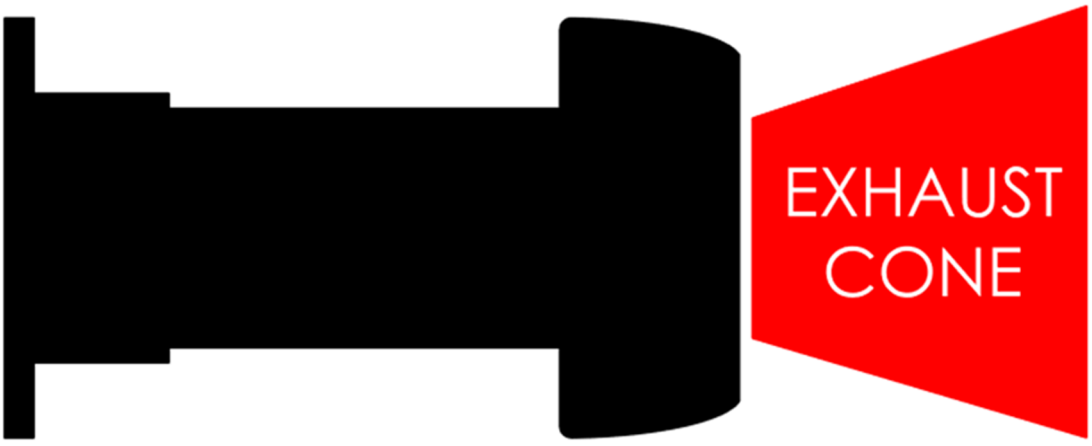
The XC-APLM is a victim operated device that simulates the sound of a landmine when triggered. The loud report is created by the release of compressed CO2 from a disposable cartridge that slowly increases the pressure on a consumable burst disc. When the disc bursts, it creates a loud report and any visual effects powder used is released in a cloud simulating the dust and smoke dispersal of an actual device.

XC-APLM Components

FIGURE 1	
1. VS-50 AP Mine replica	5. Burst Disc (consumable)
2. XC-CO2 Main Body	6. Cartridge Holder
3. Base	7. CO2 Cartridge (12g)
4. Exhaust Cap	

Loading and Firing the XC-APLM

1. Insert a disposable CO2 Cartridge in the orientation shown in Figure 1.
2. Screw the Cartridge Holder into the XC-CO2 Main Body. Some resistance will be felt as the O-Ring seal engages, but the Cartridge Holder must be screwed in until it bottoms out.
3. Fill the XC-CO2 Main Body approximately 1/3 full with 0.5oz of visual effects powder if desired (Do Not Overfill). Make sure threads are clear of powder.
4. Firmly seat a Burst Disc with the smooth side facing outwards into the groove inside the Exhaust Cap and firmly tighten onto the XC-CO2 Main Body. The Exhaust Cap must be tightened firmly in order to provide a good seal (hand tighten only, do not use tools). The unit is now loaded, but the CO2 Cartridge has not been punctured.
5. Carefully place the assembled XC-APLM device in the desired location.
6. The XC-APLM device will Fire when stepped on. *Stepping on the device punctures the CO2 cartridge and allows the CO2 to fill the chamber of the XC-CO2 Main Body where it will reach a pressure sufficient to rupture the Burst Disc immediately. The rupturing Burst Disc will produce a loud report and also release the visual effects powder if used.*
7. To reload and re-fire, remove the Exhaust Cap, discard the used Burst Disc, and unscrew the Cartridge Holder, and repeat steps 1-5.



Do not place unprotected body parts in the high pressure exhaust cone shown in red as bodily injury may result.

Troubleshooting and Maintenance

If the Burst Disc does not pop:

- Burst Disc does not inflate- CO_2 Cartridge was not punctured.
  Exhaust Cap was not tightened to seal Burst Disc .
  CO_2 Cartridge was empty or missing.
- Burst Disc inflates- Extreme cold may lower CO_2 below requisite burst pressure.
  Exhaust Cap was not tightened to seal Burst Disc.

If Burst Disc pops after extended period of time:

- CO_2 Cartridge was improperly punctured.
- Extreme cold may extend pressurization time.
- Rapid reloading may allow ice to build up in the bleed hole.

If CO_2 Cartridge is punctured upon assembly:

- Insert CO_2 Cartridge in reverse orientation to reposition Needle.
- Check CO_2 Cartridge for length (3.274”-3.253”).

If Burst Disc pops too soon:

- Overfilling with visual effects powder reduces the CO_2 expansion volume causing pressure to rise more quickly. Use less visual effects powder.
- Extreme heat will increase the CO_2 pressure resulting in faster fill times.

Maintenance

Keep the threads and sealing surfaces of the XC-CO_2 Main Body, Cartridge Holder, and Exhaust Cap clean and in good condition. Failure to do so may prevent sealing of the Burst Disc or internal surfaces to contain the CO_2 .

Please contact Explotrain at (850) 862-5344 if you have any questions or concerns about our products, or would like any assistance in their use.

Please see MSDS sheet for CO_2 for handling and storage information.

Some of your Explotrain products may exhibit signs of light use, such as dusty surfaces, tool marks, etc. These indications are from test firing operations after final assembly performed as part of our quality control procedures. All of your products are new and unused.