

a pronounced wall. Continue to pull past this second stage wall to fire PANDORA™.

- 7) If PANDORA™ fails to fire, release the Trigger to reset the device and pull the Trigger rearward again to fire. Repeat as many times as necessary or in accordance with unit standard operating procedure.

## SAFETY PRECAUTIONS

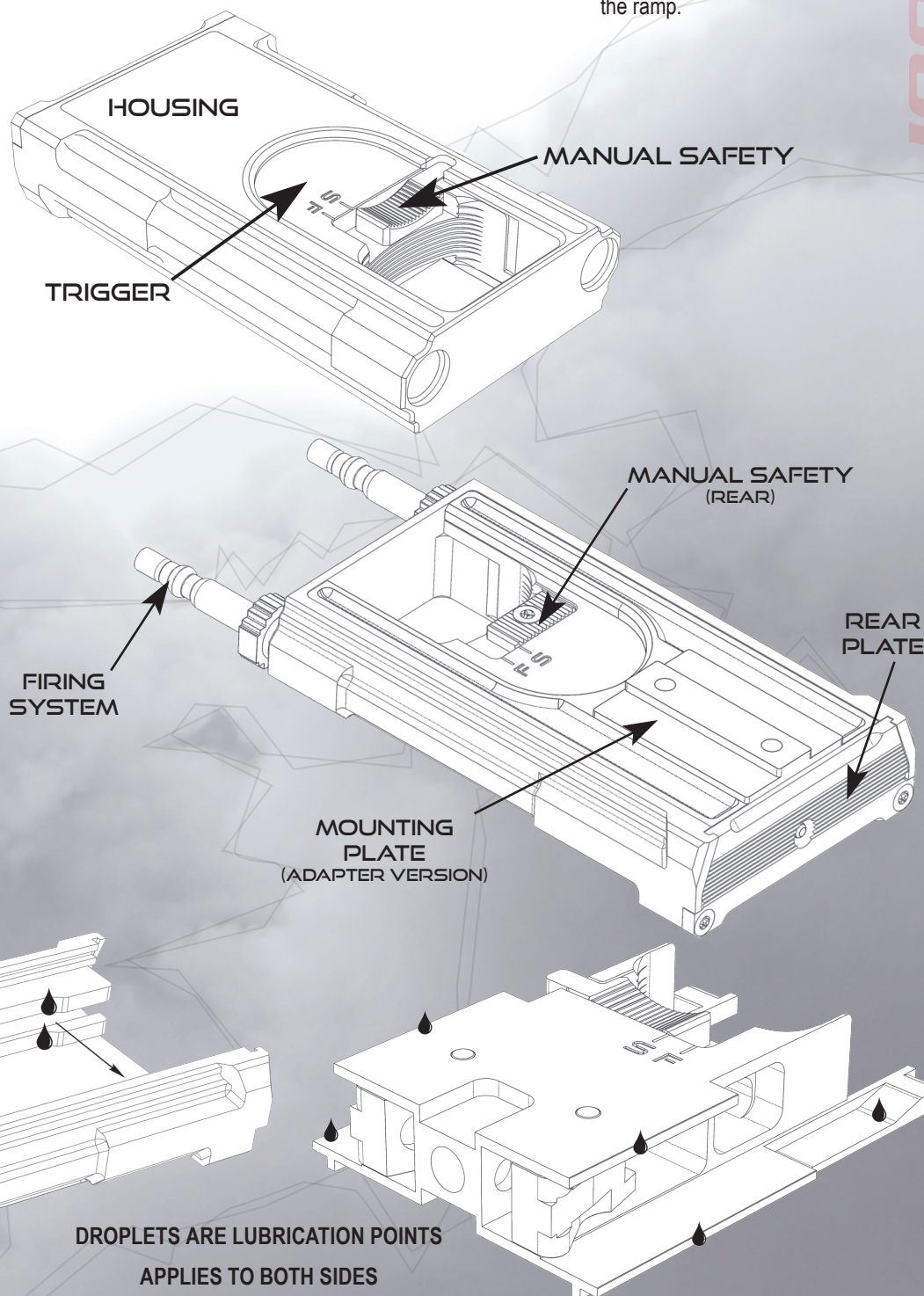
- Use PANDORA™ only with compatible Firing Systems approved for use with PANDORA™.
- Do not point PANDORA™ toward any friendly personnel or hazardous material when firing.
- Do not slide the Safety Switch to FIRE (F) until immediately ready to fire, or in accordance with unit standard operating procedures.

## DISASSEMBLY

- 1) Remove the two T10 Torx® screws holding the Rear Plate in place.
- 2) Push inward on the Guide Rod protruding into the Rear plate and slide the Rear Plate out of the Housing.
- 3) Slide the trigger rearward and remove the Guide Rod and Guide Rod Spring (not captive). This will cause the Sear to engage the Striker Lugs and will pull the Striker assemblies out of the Housing. Pull each Striker assembly out of the Housing.
- 4) Slide the Mounting Plate out of the Housing.
- 5) Remove the Trigger the rest of the way out of the Housing. Note that the Striker Blocks are no longer captive and can fall out of the Housing. Be mindful of the position of the Housing so the Striker Blocks and Striker Block Springs do not get lost. Keep Housing positioned so the largely open side is facing upward until the trigger is reinstalled.

## MAINTENANCE AND CARE

- 1) Ensure all Safeties are in working order.
  - a. To test the passive Striker Blocks, remove the Rear Plate assembly, Mounting Plate, and Trigger assembly from the device. Push forward on the Striker Lugs sticking out of their slot in the Housing. There should be no protrusion of the Striker into the breach face. Push in on the Striker Block, and
  - b. Ensure the device is free of debris.
  - c. Lubricate the four rails of the Trigger, as well as the ramps on the Trigger forward actuator arms.
  - d. Lubricate the Sear ramp in the Housing on each side by coating the surface of the ramp.



then push forward on the Striker Lug again. This time it should protrude into the breach face. Repeat for the other side of the device.

Please don't hesitate to contact us at anytime. We are here to provide the best customer service we can and we truly appreciate you purchasing our products and supporting our company.

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PANDORA™  
INSTRUCTION / OPERATOR MANUAL

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The **CGS PANDORA™** is designed, manufactured, and assembled in Artesia, New Mexico, USA to the highest standards.

The **CGS PANDORA™** employs multiple redundant safety features in a useable but small 4.4 x 2.5 x .88" form factor and was specifically designed for ambidextrous one handed operation.

A bit smaller in length and width than a standard iPhone®, the **CGS PANDORA™** weighs in at a mere 8.7 ounces and is light and sleek in form factor.

The **CGS PANDORA™** will actually fit perfectly in any common M16 Magazine pouch.

The **CGS PANDORA™** is hands down the safest, easiest to use, most modular, and user friendly firing device ever designed.

While remaining incredibly safe, the **CGS PANDORA™** double-action only, striker fired method of operation is effortless to use and requires very little end user training.

Very simply slide the trigger block safety switch to the fire position from either side of the device and pull the trigger rearward when ready to fire.

The ease of use associated with the **CGS PANDORA™** allows the end user to focus on

the tactical countdown as well as his or her surroundings prior to detonation.

The only time the **CGS PANDORA™** is ever fully cocked and capable of firing is when the end user has intentionally squeezed the trigger rearward nearly 90% through its firing cycle motion range.

The **CGS PANDORA™** strikers remain constantly, positively, and mechanically locked into a safe position before and after firing.

The dual independent striker block safeties ensure that the strikers remain held away from the primers of the direct fire system to ensure safety at all times up until the moment the device is intentionally fired.

The patent pending **CGS PANDORA™** firing mechanism achieves true dual independent striker, sear, and safety operation using two firing channels physically separated by the trigger assembly.

Capable of unparalleled mission specific modularity, a vast collection of mounting plates are available which the end user can employ to meet his or her operational needs.

Some of the modular attachments available for the **CGS PANDORA™** include; a quick detach method for attachment to breaching poles in

both vertical and horizontal configuration, a quick detach method for attachment to MIL-STD-1913 rail, a quick detach method for attachment to MIL-STD-MOLLE, even a rear cover plate is available with a deployable non electric shock tube cutter.

**CGS PANDORA™** is simple to assemble and disassemble, easy to clean, and is user serviceable in the field should any maintenance be required.

Simply remove two T10 Torx® screws on the rear of the device and push in the guide rod protruding into the rear cover plate to slide the plate out of the way.

With the rear cover plate removed, the guide rod/spring, trigger pack, Striker packs, and mounting plate will all freely slide out of the rear housing effectively field stripping the device.

Constructed using a combination of 7075T6 Aircraft Aluminum, 17-4 Heat Treated Stainless Steel, and S7 Tool Steel, the **CGS PANDORA™** internals are nearly 100% sealed off from external elements.

This sealed design coupled with fixed headspace ensures the utmost reliability and far less end user level maintenance.

All aluminum parts are MIL-A-8625 Type III black

hard-coat Anodized while the Stainless Steel and Tool Steel parts have been heat treated for strength and hardness followed by black oxide coating for corrosion resistance.

The **CGS PANDORA™** is the only device of its kind ever devised and its design was completely end user driven.

A multitude of experienced special operations personnel collaborated with CGS to enable this product to provide the best, most reliable, and safest Dual Mechanical Firing Device ever created.

The multitude of problems, end user dislikes, design flaws, and documented operational failures associated with the multitude of currently issued initiation devices were considered and the **CGS PANDORA™** was specifically designed to satisfactorily address all of these.

It is our hope that a highly simplified standard method of operation can be devised and universally adopted surrounding the **CGS PANDORA™** and in doing so we can work to eliminate or greatly reduce the operator injuries historically and currently associated with the non-standardized use of other inferior initiation devices.

It has always been the goal of the **CGS PANDORA™** project to provide the operator with a well thought out, end user developed, complete

deployment kit that specifically addresses all of the mission specific requirements currently associated with the current in-theatre Breaching, EOD and Engineering tasks.

CGS will continue the development of end user requested modular attachment methods and accessories to support the **CGS PANDORA™** and are seeking to completely replace current devices offering a standardized system designed to ensure the safety and operational capability of our armed forces for years to come.

## CGS GROUP PANDORA™ INSTRUCTION / OPERATOR MANUAL

This device has been designed from the start with safety as its primary focus. **PANDORA™** features an external manual Safety Switch and two internal passive Striker Blocks, one per Striker.

When in the process of firing **PANDORA™**, the passive Striker Blocks are both disengaged simultaneously by the forward actuator arms of the Trigger right before the Sears release the Strikers. This pushes the Striker Blocks out of the path of the Strikers so that the Strikers can go forward uninhibited and hit the Primers of the Firing System attached to **PANDORA™**.

## LIST OF ASSEMBLIES

- 1) HOUSING ASSEMBLY (1 each)
  - a. 1 Housing
  - b. 2 Striker Blocks (not captured)
  - c. 2 Striker Block Springs (not captured)
  - d. 2 permanently installed Steel Inserts
- 2) TRIGGER ASSEMBLY (1 each)
  - a. 1 Trigger
  - b. 2 Sears
  - c. 2 Sear Springs
  - d. 2 Sear Pins
  - e. 1 Top Safety Switch
  - f. 1 Bottom Safety Switch
  - g. 1 Safety Detent Ball Bearing
  - h. 1 Safety Detent Spring
  - i. 1 Flat Head Cap Screw 4-40 T10 Torx®

- 3) STRIKER ASSEMBLY (2 each)
  - a. 1 Striker
  - b. 1 Striker Sleeve
  - c. 1 Striker Return Spring
  - d. 1 Striker Spring
  - e. 2 Spring Cups
- 4) REAR PLATE ASSEMBLY (1 each)
  - a. 1 Rear Plate
  - b. 2 Flat Head Cap Screws 4-40 T10 Torx®
- 5) GUIDE ROD ASSEMBLY (1 each)
  - a. 1 Guide Rod
  - b. 1 Guide Rod Spring (not captured)
- 6) MOUNTING PLATE ASSEMBLY (1 each)
  - a. 1 Mounting Plate

## OPERATION INSTRUCTIONS

- 1) Prior to attaching **PANDORA™** to the compatible Firing System, ensure the applicable Firing System is attached to the explosive charge in accordance with standard operating procedures and training instructions.
- 2) Ensure the external manual Safety Switch is in the SAFE (S) position.
- 3) Thread (finger tight) the compatible Firing System into **PANDORA™**.
- 4) When ready to fire, or in accordance with unit standard operating procedures, slide the external manual Safety Switch to the FIRE (F) Position.
- 5) Grip the device so the serrated face of the Rear Plate is situated at the base of the palm of your hand while gripping the Trigger with 1-2 fingers.
- 6) Pull the Trigger to the rear with deliberate action to fire the device. There will be two distinct stages of Trigger travel. You will feel a smooth rearward motion followed by

