

NONLETHAL CAPABILITIES - M5 MCCM

This graphic training aid (GTA) assists soldiers in the operation of the M5 modular crowd control munition (MCCM). It increases fixed-site and area security against potentially hostile forces without sole reliance on the application of deadly force. It is used by military forces to apply the minimum force necessary, while performing the missions of site and area security of key facilities.



Headquarters, Department of the Army

October 2001

DISTRIBUTION: United States (US) Army Training Support Centers (TSCs).

DISTRIBUTION RESTRICTION: Approved for public release.

PACKAGING

The M5 and its components are packaged in a bandoleer. Included in the bandoleer are—

- An instruction sheet (sewn into the bandoleer).
- An M5 (in a barrier bag).
- A shock-tube/blasting-cap assembly.
- An M81 igniter, a shock-tube cutter, a supplemental instruction sheet, and a shock-tube sealing nut (all in one barrier bag).

The shock tube is precrimped to the blasting cap. The opposite end of the shock tube is factory sealed with a heat crimp for moisture protection. The shock tube is on a spool for easy unspooling once the M5 is primed.

WARNING

Striking, yanking, or abusing the blasting cap may cause detonation.

WARNING

Lethal trauma may occur to individuals within 5 meters of the front of the munition when fired. Do not hold the shock tube when firing.

WARNING

Keep hands clear of the shock-tube insertion point when detonating the munition; there is the possibility of hot gaseous by-products being released.

PREPARATION AND SETUP

Select the area of engagement and proceed as follows:

Step 1. Remove the M5 from the bandoleer and the barrier bag.

Step 2. Open the M5's legs, and separate them at the hinged points (make sure the legs are at their WIDEST point).

Step 3. Set the M5 in position, and push the legs firmly into the ground (fist height from the ground to the bottom of the M5).

Step 4. Pace off 5 meters from the M5, and place an object (such as a stone or a branch) at that point on the cable.

Step 5. Roughly aim the M5.

Step 6. Remove one of the shipping plug's priming adapters (either side will work) (*Figure 1A*).

Step 7. Place the blasting cap (from the shock-tube assembly) in the adapter and slip the shock tube into the groove (*Figure 1B*).

Step 8. Thread the adapter back into the cap well of the M5 (*Figure 1C*).

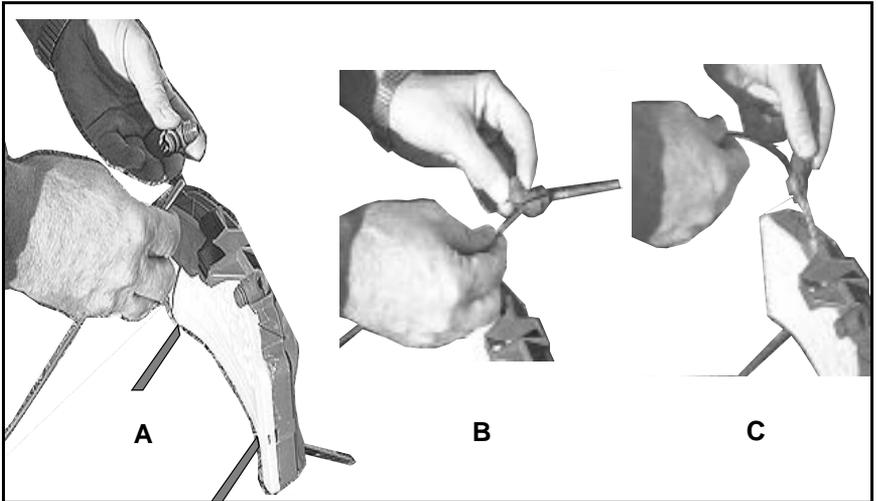


Figure 1. Attaching the Blasting Cap to the M5

Step 9. Final aim the M5 as follows (*Figure 2*):

- Select an aiming point about 5 meters in front of the munition and about 30 centimeters above the ground (boot/calf height).
- Position eye about 15 to 23 centimeters to the rear of the sight.
- Aim the munition by aligning the front and rear edges of the sight with the aim point.
- Align the front and rear sights to aim.
- Sight at the bottom of the object (aim sector is between 5 and 15 meters at a 45° angle in front of the munition).

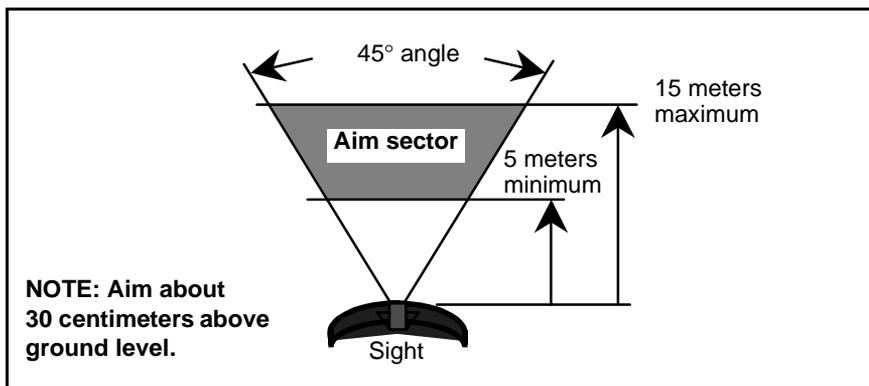


Figure 2. Aiming

Step 10. Place a sandbag 30 centimeters behind the M5.

Step 11. Place a rock, a double handful of dirt, or a sandbag on the shock tube (about 60 centimeters from the M5) to keep it stationary. Damaging the shock tube when securing it with a heavy object may cause it to malfunction.

Step 12. Continue to unspool the shock-tube assembly back to a safe detonating distance (15 meters if a barrier such as a vehicle or sandbag is used or 30 meters if no barrier is used).

Step 13. Place the empty spool into the bandoleer pocket for reuse if the munition is recovered.

Step 14. Remove the barrier bag containing the M81 igniter, the supplemental instruction sheet, the cutter, and the sealing nut from the bandoleer.

Step 15. Cut the barrier bag 1 centimeter from the seal so that the bag can be reused if the shock tube is recovered. Leave the sealing nut in the bag in case the shock tube is recovered.

Step 16. Remove the M81, the supplemental instruction sheet, and the shock-tube cutter from the barrier bag.

Step 17. Loosen, but do not remove, the M81 fuse cap holder (soft clear plug) by turning it counter-clockwise three to four full turns.

Step 18. Pull (do not twist) and remove the plastic weatherproofing plug (solid green plug) from the fuse cap holder. Do not remove the fuse cap holder (*Figure 3*). Place the plug in the barrier bag for possible reuse.

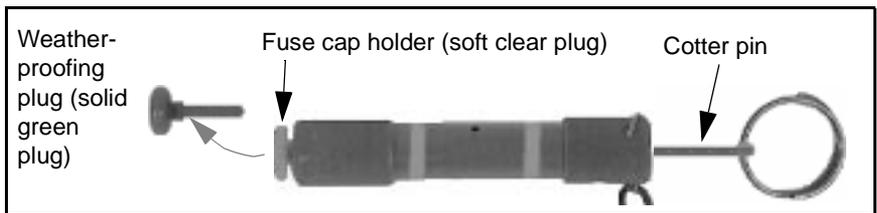


Figure 3. M81 Igniter

Step 19. Place the barrier bag back into the bandoleer pocket.

Step 20. Make a straight, 90° cut about 15 to 20 centimeters off the crimped/sealed end of the shock tube. Do not cut the tube at an angle because the M81 may not ignite the shock tube.

Step 21. Insert the open end of the shock tube all the way into the hole (from which the weatherproofing plug was removed) of the M81 until it stops (about 3 centimeters). Twist while pushing the shock tube in a little to ensure that it makes good contact with the M81 igniter primer.

Step 22. Tighten the M81 fuse cap holder (shipping plug adapter). The end of the shock tube must sit fully in the M81 fuse cap holder to properly initiate the shock tube. Do not hold the shock tube when firing it.

Step 23. Hold the igniter around the body with one hand. Wear a leather-palmed glove on the hand that is holding the M81.

Step 24. Remove the cotter-pin safety from the igniter and store it in the barrier bag.

Step 25. Push the plunger ring in and twist $\frac{1}{4}$ turn; fire by pulling sharply on the M81 igniter. Use following procedure if the M81 misfires:

- Recock the M81 and attempt to fire again (the M81 can be recocked twice). If it still does not fire and an additional M81 igniter is available (and time permits), start the misfire procedures.
- Remove the original M81 and measure about 1 meter down the shock tube.
- Make a straight, 90° cut at that point with the shock-tube cutter, and cut an additional 15 centimeters of shock tube off and conduct a blow test.
- Blow through those 15 centimeters of shock tube with the open end in the palm of your hand.

NOTE: Ingesting or inhaling the explosive powder in the shock tube may cause illness. Do not breath in when applying the blow test because explosive powder may be swallowed instead of being blown out through the tube. Wash hands before eating or drinking after handling the shock tube.

- If a small amount of silver powder is noticed, reinstall a new M81 and attempt to fire. If no silver powder is noticed, repeat the 1-meter measurement and cut and blow-test that piece of shock tube until some silver powder shows (this can be done two additional times or up to 3 meters).
- If an additional M81 is not available, wait 30 minutes before approaching (mandatory per *FM 5-250*), flag the M5, and notify the explosive ordnance disposal (EOD) office for proper disposal procedures.
- Install a new M81, and attempt to fire. If the M5 still does not function, wait 30 minutes before approaching (mandatory per *FM 5-250*). Flag the M5 and notify EOD for proper disposal procedures.

DISARMAMENT AND RECOVERY

Disarm and recover the M5 by following the preparation and setup steps (identified above) in reverse order. Do not disassemble the M5. Return all items to the bandoleer.