APPENDIX A

Mines

GENERAL

A unit may use mines during security, defensive, retrograde, and offensive operations in order to reduce the enemy's mobility. In those operations, leaders pick the places for the mines and their men emplace them and, when required, retrieve them (See TM 9–1345-203-12P).

The mines you will most commonly use are:

- **M14, Antipersonnel**
- **M16Al, Antipersonnel**
- **M18Al, Antipersonnel**
- **M26, Antipersonnel**
- **M15, Antitank**
- **M21, Antitank**
- **M24, Off-Route Antitank**

CONTENTS

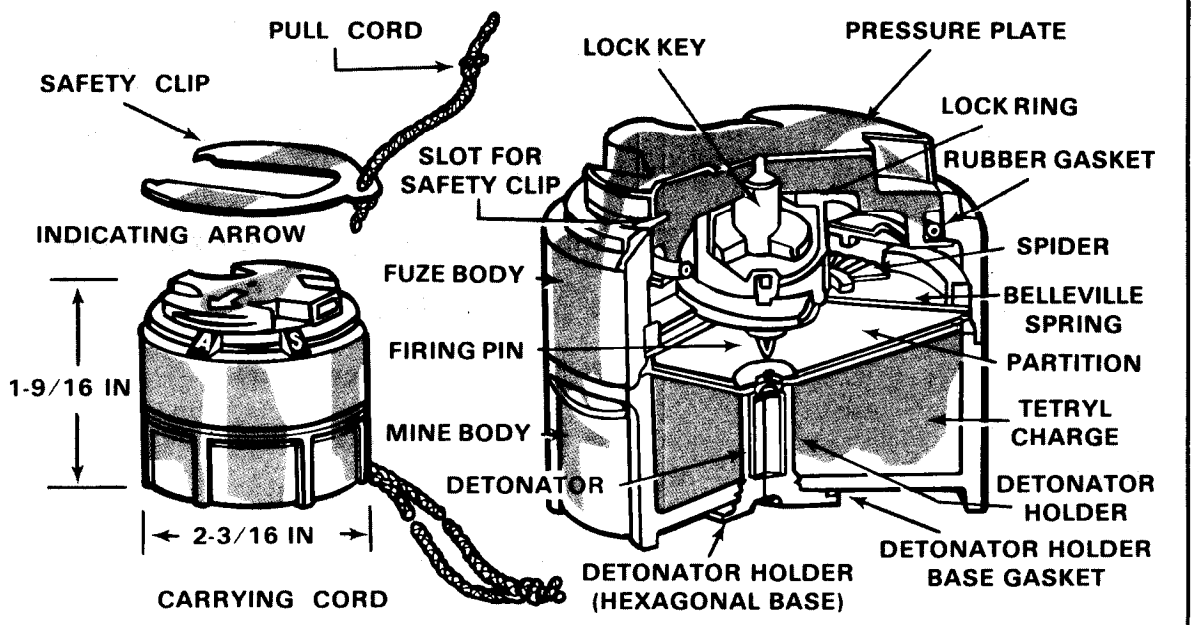
ANTIPERSONNEL

M14, ANTIPERSONNEL MINE

This is a blast-type, high-explosive mine with a plastic body. A pressure of 9 to 15.8kg (20 to 35 lb) will detonate it.

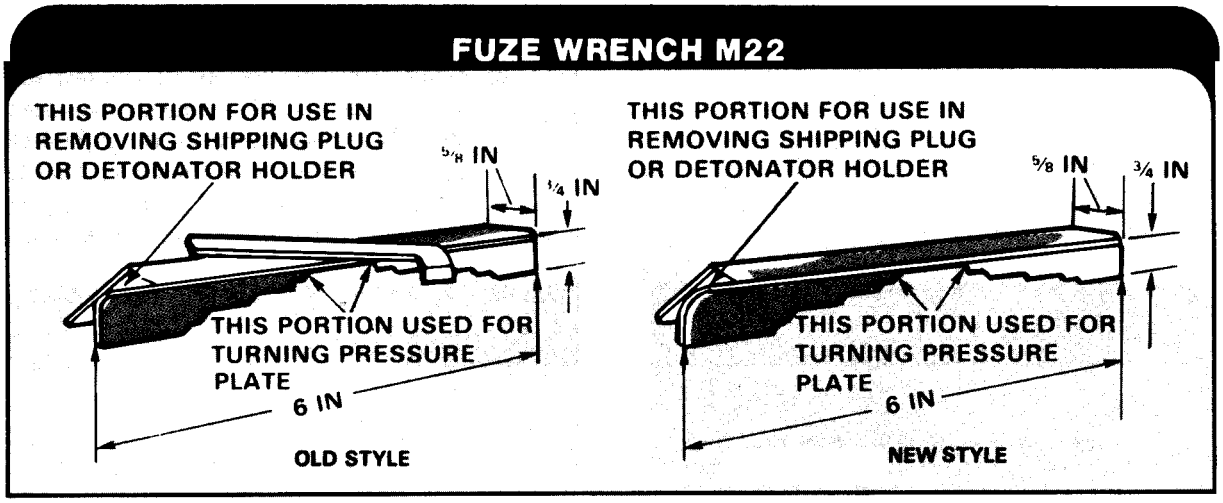
M14 BLAST ANTIPERSONNEL MINE

Nonmetallic (NM), M14, With Safety Clip Removed and Detonator Installed

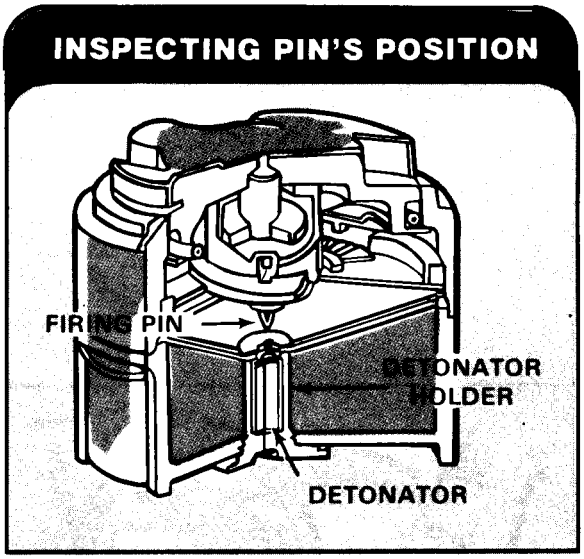


To emplace an **M14 mine**:

- **Remove the mine from the packing box and inspect it. If the mine is cracked or otherwise damaged, do not use it.**
- **Use the M22 wrench from the packing box to unscrew the white plastic shipping plug from the detonator well in the bottom of the mine. Keep the shipping plug for possible future use.**



- Inspect the firing pin's position. If it extends into the detonator well. the mine is unsafe to use.

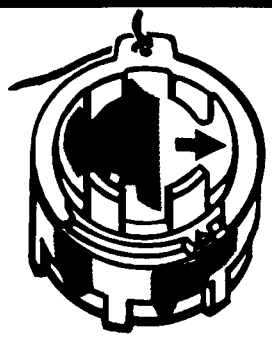


- Inspect the detonator well for foreign matter. If foreign matter is present, carefully remove it by tapping the mine against the palm of the hand.

- Dig a hole about 10 cm (4 in) in diameter and just deep enough (about 3.8 em [1.5 in]) so that the pressure plate of the mine will extend above the ground.
- Make sure the ground at the bottom of the hole is solid enough to support the mine when pressure is applied to the pressure plate. If the ground is too soft, place a block of wood or other solid support in the bottom of the hole.

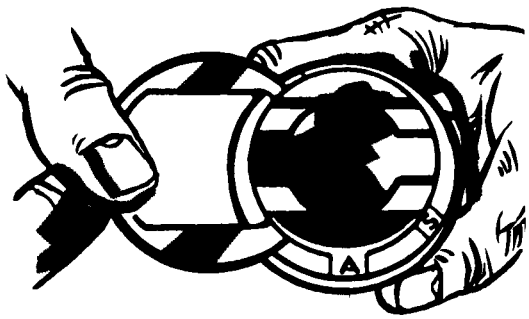
TO EMPLACE AN M14 ANTIPERSONNEL MINE

GRASP THE MINE IN ONE HAND AND TURN THE MINE SO THAT THE FUZE WITH THE SAFETY CLIP IS FACE UP. WITH YOUR OTHER HAND, PULL ON THE CARRING CORD ATTACHED TO THE SAFETY CLIP. KEEP THE SAFETY CLIP FOR DISARMING THE MINE LATER, IF REQUIRED.



UNSCREW SHIPPING PLUG FROM BOTTOM OF MINE. TURN PRESSURE PLATE TO ARMED POSITION WITH ARMING TOOL.

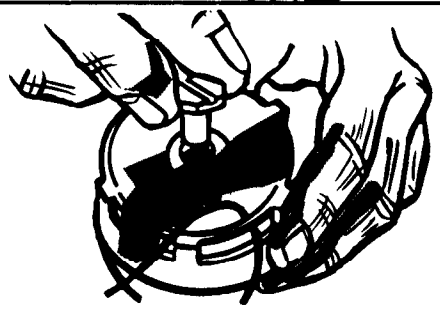
REMOVE SAFETY CLIP AND CHECK FOR MALFUNCTIONING.



TO EMPLACE AN M14 ANTIPERSONNEL MINE (CONTINUED)

REPLACE SAFETY CLIP.

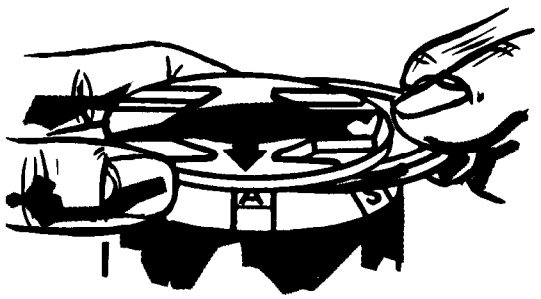
SCREW DETONATOR INTO DETONATOR WELL.



TO BURY: PRESSURE PLATE SHOULD BE SLIGHTLY ABOVE GROUND LEVEL.

BURY MINE AND REMOVE SAFETY CLIP.

USE THE M22 WRENCH TO ARM THE MINE BY TURNING THE PRESSURE PLATE CLOCKWISE FROM S TO A (SAFE TO ARMED(. IF THE PRESSURE PLATE SNAPS DOWNWARD SO THAT THE BODY OF THE MINE, AND THE SAFETY CLIP CANNOT BE INSERTED, DO NOT USE THE MINE.



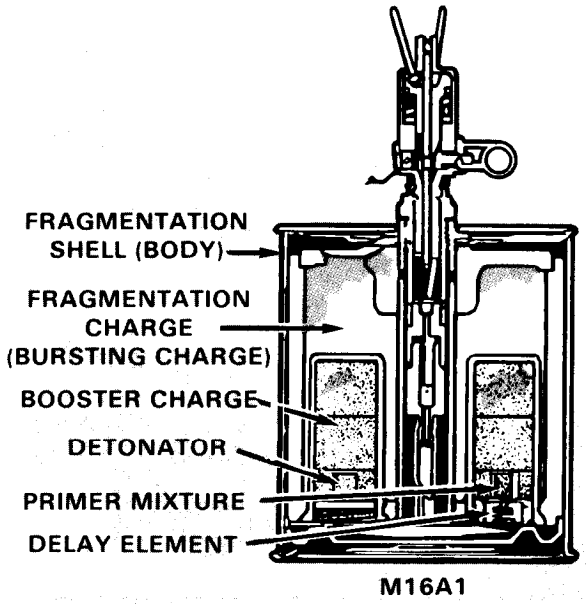
To disarm and remove an M14 mine, reverse the steps used to arm and emplace it.

- **Inspect the area around the mine to see if the mine has been tampered with. If it has been, do not try to disarm it. Report the tampering to your leader.**
- **Remove the soil from the mine without putting pressure on the mine.**
- **Grasp the body of the mine with one hand and insert the safety clip with the other.**
- **With the safety clip in place, turn the pressure plate so that the arrow points to S (SAFE). That disarms the mine.**
- **Remove the mine from the hole.**
- **Turn the mine over and carefully remove the detonator from the detonator well.**
- **Screw the plastic shipping plug into the detonator well.**
- **Clean off the mine and put it in a packing box.**

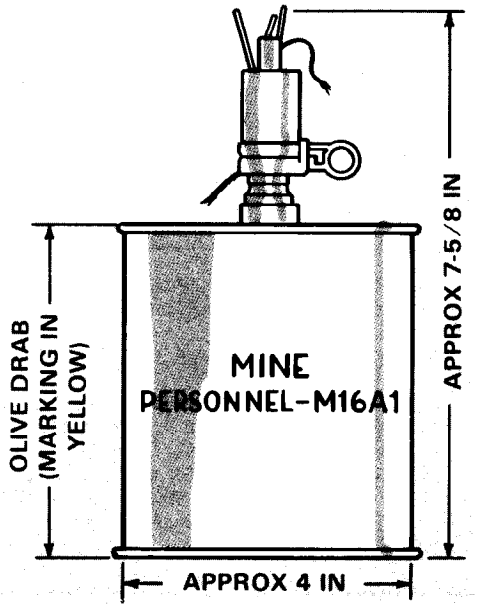
M16Al, ANTIPERSONNEL MINE

This is a bounding, fragmentation mine with a metallic body. It can be set for pressure detonation or set with a tripwire attached to a release-pin ring. A pressure of 3.6 kg (8 lb) or more against one or more of the three prongs of the fuze, or a pull of 1.3 kg (3 lb) or more on the tripwire, will detonate the mine.

M16A1 SERIES BOUNDING ANTIPERSONNEL MINE



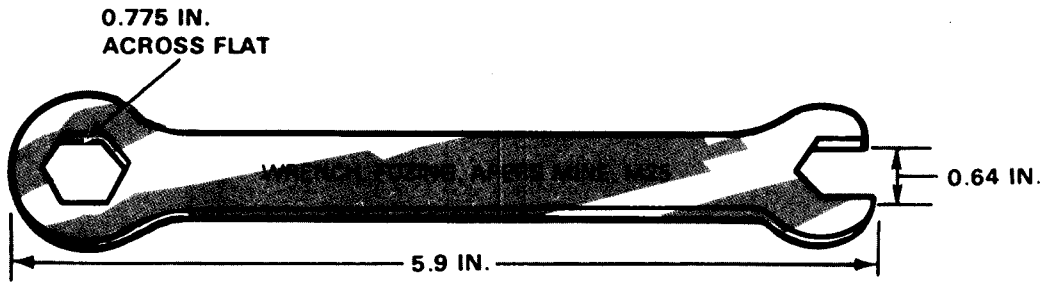
M16A1



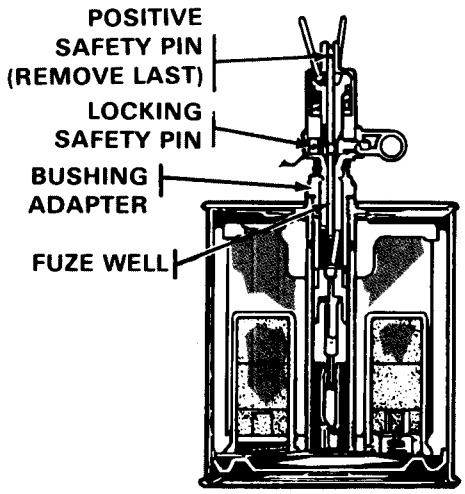
To emplace an **M16Al mine**:

- **Remove the mine from its packing box and inspect it for damage. If the mine is dented, cracked, or otherwise damaged, do not use it.**
- **Unscrew the shipping plug from the fuze well with the closed end of the M25 fuze wrench. Keep the shipping plug for future disarming of the mine, if required.**

FUZE WRENCH M25



EXAMINING M16A1 MINE



- Inspect the fuse well and flash tube of the mine for foreign matter. If foreign matter is present, turn the mine upside down and gently tap its bottom to dislodge the matter.
- Set the mine down and take a fuze out of the fuze box.
- Inspect the fuze for damage and for missing safety pins. Make sure that the safety pins move freely in the safety-pin holes. Also make sure that the rubber gasket is around the fuse base.
- With the open end of the wrench, make sure that the bushing adapter on the fuze well is tight.
- Screw the fuze assembly into the fuze well with the fuze wrench.
- Dig a hold about 15 cm (6 in) deep and 13 cm (5 in) in diameter.
- Put the mine in the hole.

TO EMPLACE AN M16A1 ANTIPERSONNEL MINE

M16A1 DATA

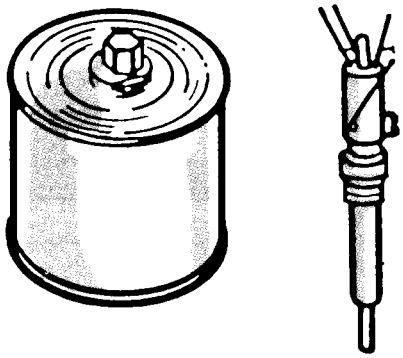
WT . . . . . 8.25 LB.

PROJECTILES . . . . . STEEL

FUZE . . . . . M605 (COMBINATION)

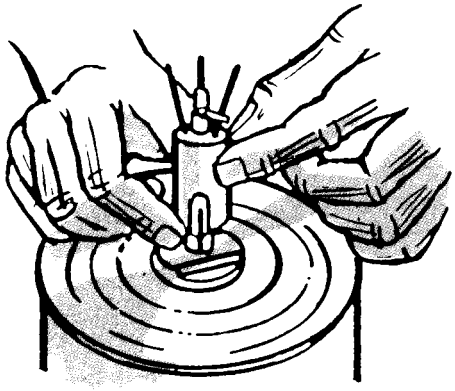
FUNCTIONING
PRESSURE . . . . . 8 to 20 LBS
PULL . . . . . 3 to 10 LBS

BOUNDING HT 0.6—1.2M



PRESSURE DETONATION

REMOVE SHIPPING PLUG AND SCREW IN FUZE



BURY THE MINE, LEAVING THE FUZE PRESSURE PRONGS EXTENED SLIGHTLY ABOVE GROUND LEVEL.

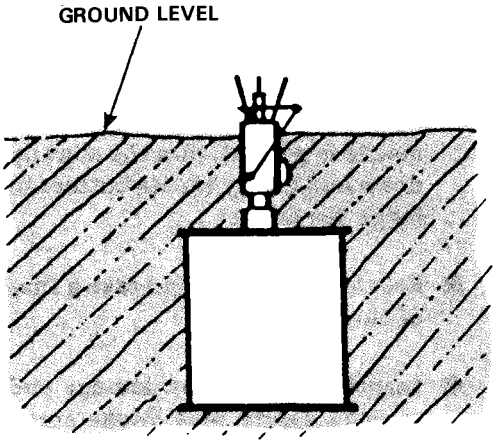
COVER THE MINE WITH DIRT, PRESSING IT FIRMLY AROUND THE SIDES OF THE MINE. LEAVE THE HEAD OF THE FUZE EXPOSED.

REMOVE THE LOCKING SAFETY PIN, THEN REMOVE THE INTERLOCKING SAFETY PIN FROM THE POSITIVE SAFETY PIN. KEEP THE SAFETY PINS FOR FUTURE DISARMING, IF REQUIRED.

ARRANGE THE PULL CORD ON THE POSITIVE SAFETY PIN SO THAT IT WILL PULL OUT EASILY.

COMOUFLAGE THE MINE.

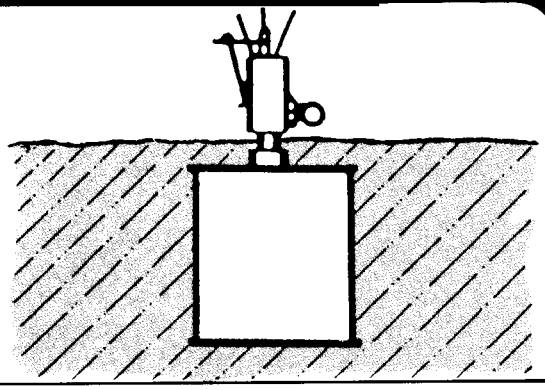
REMOVE THE POSITIVE SAFETY PIN TO ARM THE MINE. IF THE PIN IS HARD TO REMOVE, DO NOT FORCE IT. GET ANOTHER FUZE ASSEMBLY AND START OVER.



TO EMPLACE AN M16A1 ANTIPERSONNEL MINE (CONTINUED)

TRIP WIRE DETONATION

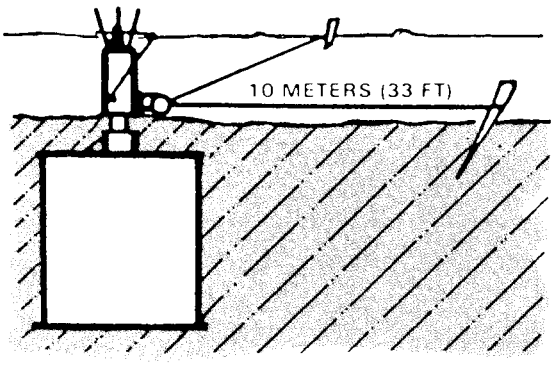
COVER THE MINE WITH SOIL, LEAVING THE RELEASE PIN RING OF THE FUZE AND PRESSURE PRONGS EXPOSED.



CASUALTY RADIUS 30M

DRIVE TWO ANCHOR STAKES INTO THE GROUND ABOUT 10 METERS (33 FT) FROM THE MINE SO THAT THE TRIPWIRES FROM A WIDE "V" WHEN ATTACHED TO THE MINE AND STAKES.

ATTACH A SEPARATE WIRE SECURELY TO EACH STAKE AND TO THE RELEASE PIN RING. LEAVE SLACK IN THE WIRE SO THAT NO PULL WILL BE EXERTED ON THE RELEASE PIN RING WHEN THE SAFETY PINS ARE REMOVED.



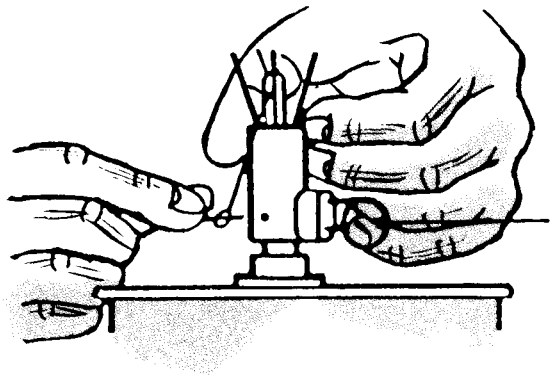
REMOVE THE LOCKING SAFETY PIN, THE THE INTERLOCKING PIN FROM THE POSITIVE SAFETY PIN. KEEP THE SAFETY PINS FOR FUTURE DISARMING, IF REQUIRED.

ARANGE THE PULL CORD ON THE POSITIVE SAFETY PIN SO THAT IT WILL PULL OUT EASILY.

CAMOUFLAGE THE MINE.

REMOVE THE POSITIVE SAFETY PIN TO ARM THE MINE. IF THE PIN IS HARD TO REMOVE, DO NOT FORCE IT. GET ANOTHER FUZE ASSEMBLY AND START OVER.

Mine bounds into air and explodes at height of 0.6 meters to 1.2 meters.



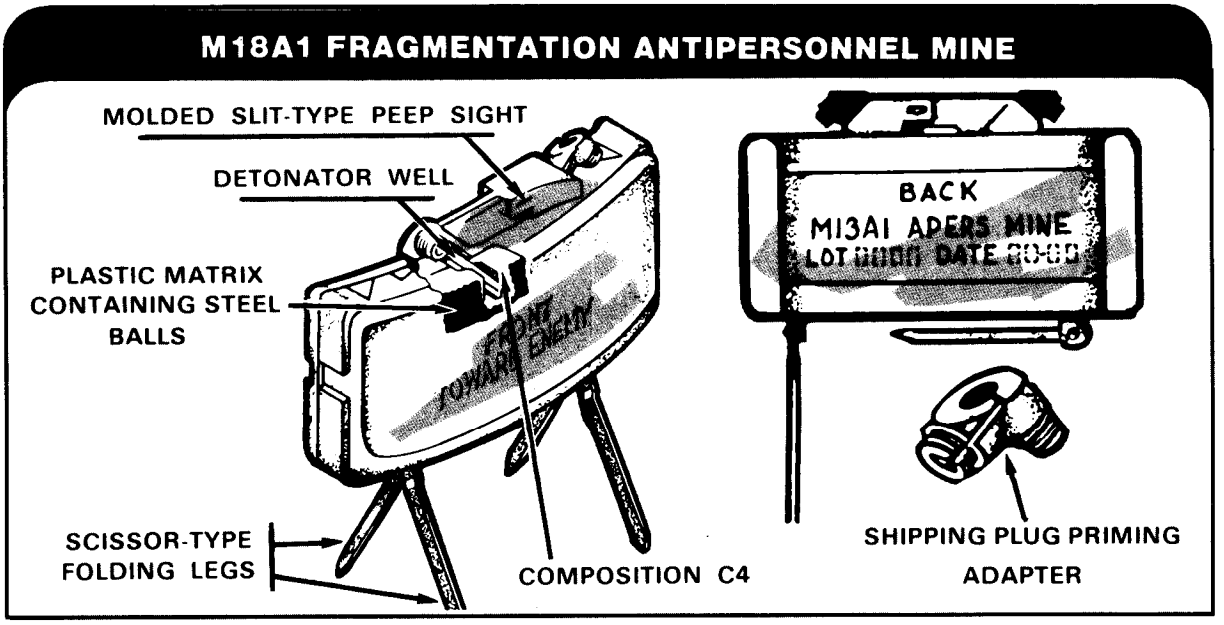
To disarm and remove an M16A1 mine, reverse the steps used to arm and emplace it.

- **Check the mine and the area around it to see if the mine has been tampered with.**
- **If it has been, do not try to disarm it.**
- **Report the tampering to your leader.**
- **Uncover the top of the mine.**
- **Insert the positive safety pin through the positive safety pin hole.**
- **Insert the locking safety pin through the locking safety pin hole opposite the release-pin ring.**
- **Insert the interlocking safety pin between the positive safety pin and locking safety pin.**
- **If tripwires are attached to the release-pin ring, cut all of them after the safety pins have been inserted.**
- **Remove the dirt from around the mine and then lift the mine out of the hole.**
- **Unscrew and remove the fuze assembly.**
- **Replace the plastic shipping plug in the fuze well.**
- **Replace the mine and fuze in the packing box.**

M18Al, ANTIPERSONNEL MINE (CLAYMORE)

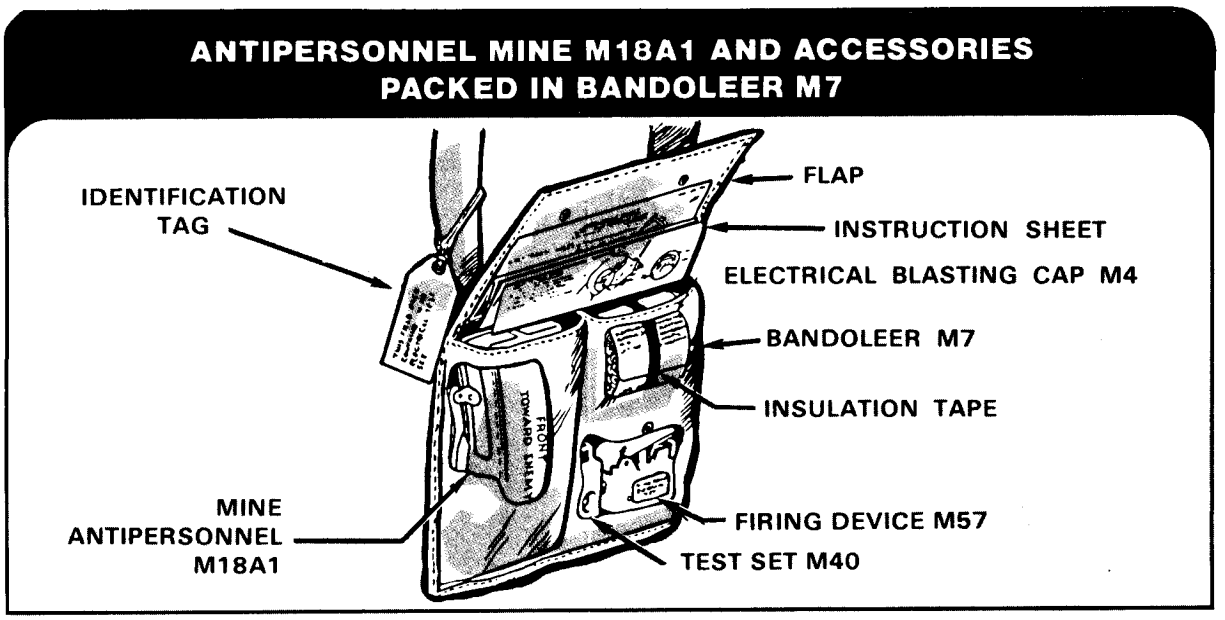
This is a curved, rectangular mine containing C4 explosive and 700 steel balls. It can be fired electrically or nonelectrically.

The Claymore projects 700 steel balls in a fan-shaped pattern about 2 meters (6.6 ft) high and 60 degrees wide to a range of 50 meters (165 ft). These balls are effective as far as 100 meters (328 ft) and are dangerous up to 250 meters (825 ft) forward of the mine.

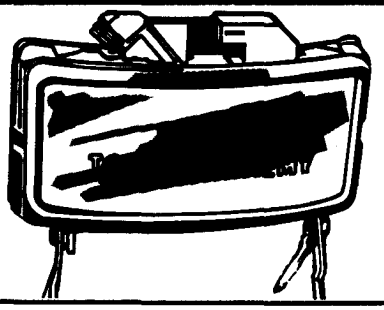


To emplace a Claymore for **command detonation:**

- **Remove the electrical firing wire, the firing device, and test set from the bandoleer. Do not take the mine out of the bandoleer.**
- **Position the firing-device safety bail in the FIRE position and squeeze the firing-device handle with a firm, quick squeeze.**

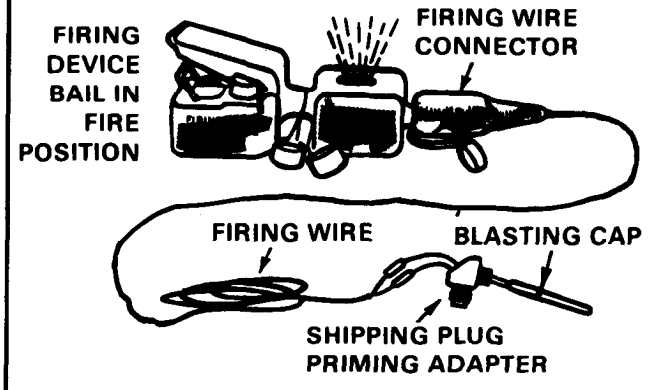


TO EMPLACE AN M18A1 ANTIPERSONNEL MINE



DATA

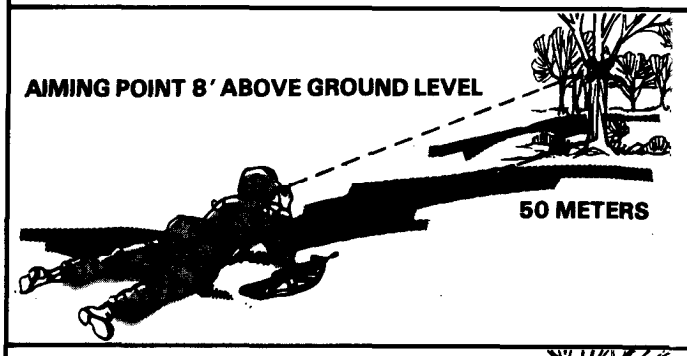
Wt. . . . . 3.5 lb.
Explosive . . . . . 1.5 lb. C4
Projectiles . . . . . 700 steel balls
Equipment: One electric cap with 100 ft firing wires per mine. One circuit tester per 6 mines. One electirc firing device per mine.



FIRING DEVICE TEST

Remove the dust covers from the firing device and the test set. Plug the test set into the firing device.

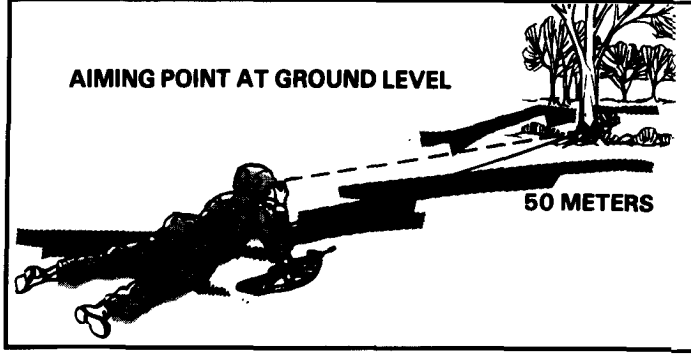
Position the firing device bail at the FIRE position, squeeze the handle on the firing device, and watch the window of the test set for a flash of light. The light means that the firing device and test set are functioning properly.



SLIT-TYPE PEEPSIGHT

Pick an aiming point (tree, bush) about 50 meters (164 ft) from the mine and about 2.5 meters (8 ft) above the ground.

Position one eye about 15 cm (6 in) behind the mine and aim the mine by looking through the slit-type peepsight.



KNIFE-EDGE SIGHT

Pick an aiming point (tree, bush) about 50 meters (164 ft) from the mine and at ground level.

Position one eye about 15 cm (6 in) behind the mine and aim the mine by aligning the two edges of the sight with the aiming point.

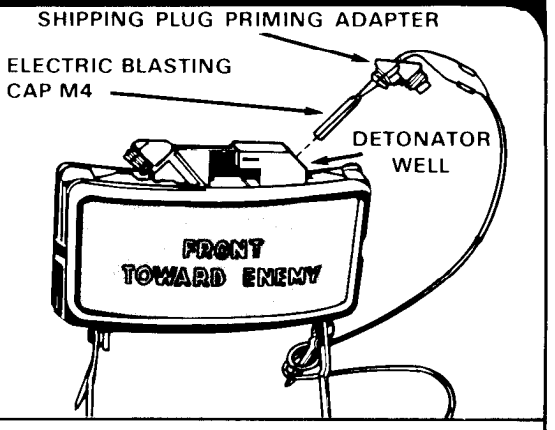
TO EMPLACE AN M18A1 ANTIPERSONNEL MINE (CONTINUED)

PREPARE TO FIRE

Unscrew one of the shipping plug priming adapters and keep if for possible later use.

Slide the slotted end of the shipping-plug priming adapter onto the firing wire of the blasting cap between the crimped connections and the blasting cap.

Insert the blasting cap into the detonator well and acrew on the adapter.

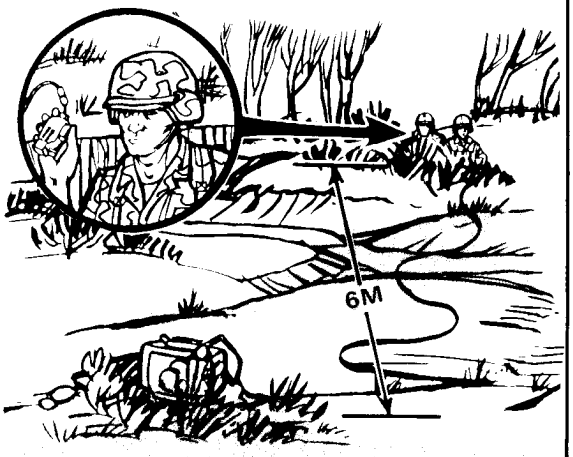


POSITION MINE

Tie the shorting-plug end of the firing wire to a fixed object (stake, tree) at the firing position.

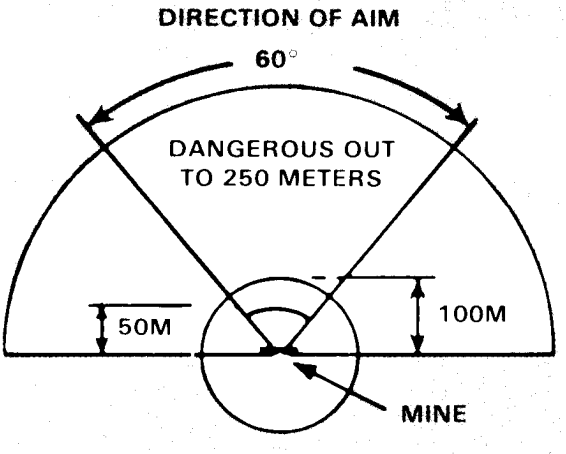
Unroll firing wire and connect directly to firing device with the safety engaged.

Position the mine on the ground with the surface marked FRONT TOWARD ENEMY pointing toward the enemy or the desired sector of fire (kill zone).



BACKBLAST AREA OF M18A1 (CLAYMORE)

A Claymore's backblast can cause injury by concussion in an area 16 meters (53 ft) to the rear and sides of the mine. It can injure you by fragmentation in an area 100 meters (328 ft) to the rear and sides of the mine. You should not be within 16 meters (53 ft) of the rear of the mine. If within 100 meters (328 ft) of the rear of the mine, you should be under cover.



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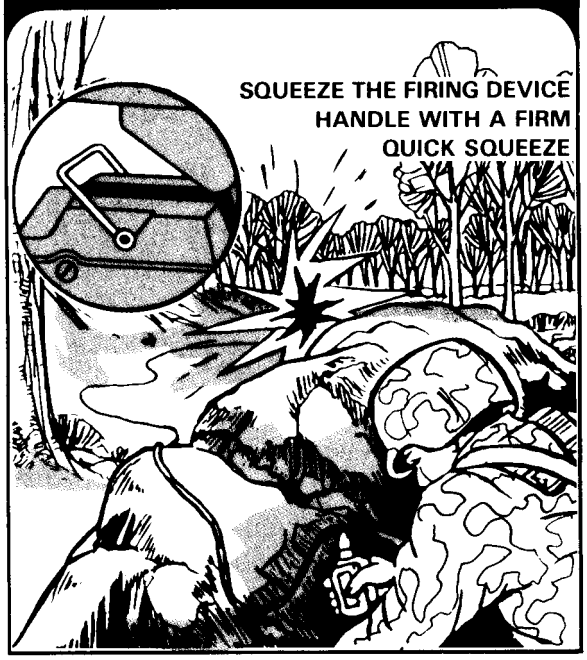
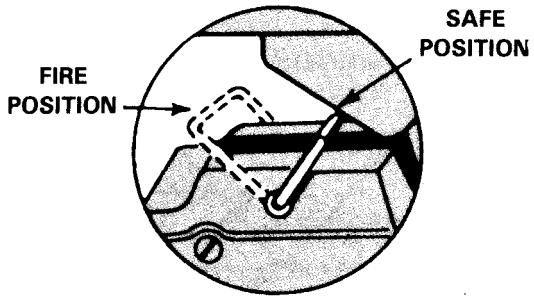
FIRING A CLAYMORE MINE



To disarm and remove a Claymore, reverse arming and emplacing procedure.

- **Make sure that the firing-device safety bail is in the SAFE position.**

FIRING-DEVICE SAFETY BAIL

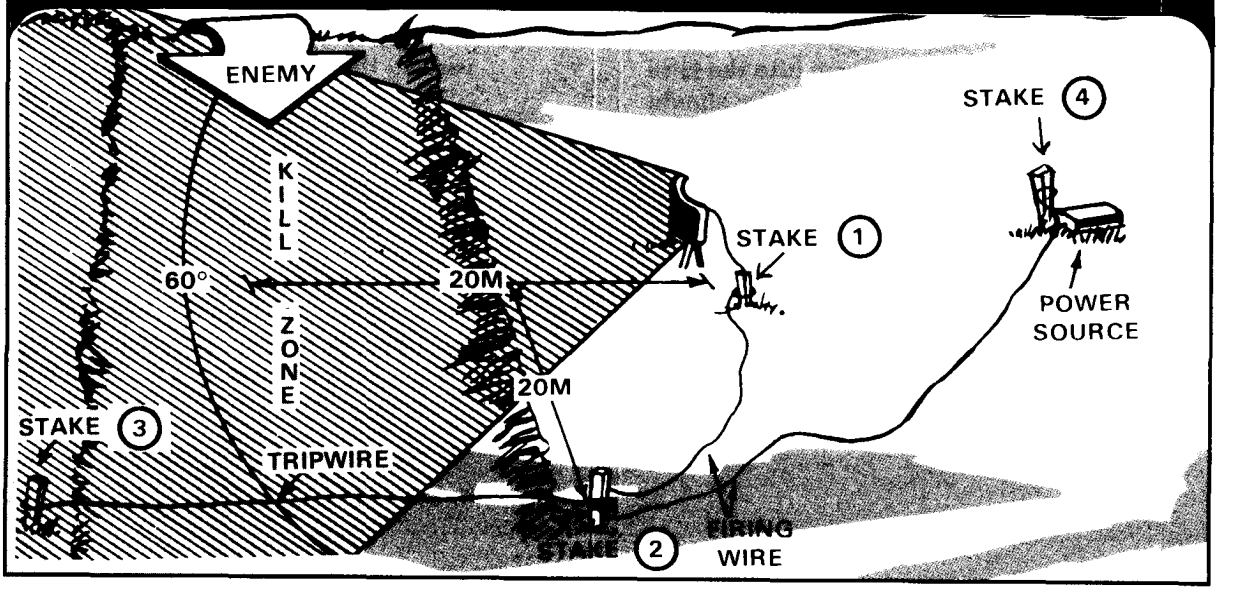


- **Disconnect the firing wire from the firing device and replace the dust covers.**
- **Move to the mine and unscrew and remove the shipping-plug priming adapter from it. Take the firing device with you.**
- **Remove the blasting cap from the shipping-plug priming adapter and then screw the adapter back into the detonator well.**
- **Put the blasting cap inside its cardboard container, remove the firing wire from the stake, and reroll the firing wire.**
- **Pick up the mine and put it in the bandoleer.**
- **Remove the firing wire from the stake at the firing position and put it in the bandoleer.**

To emplace a Claymore with a **tripwire**:

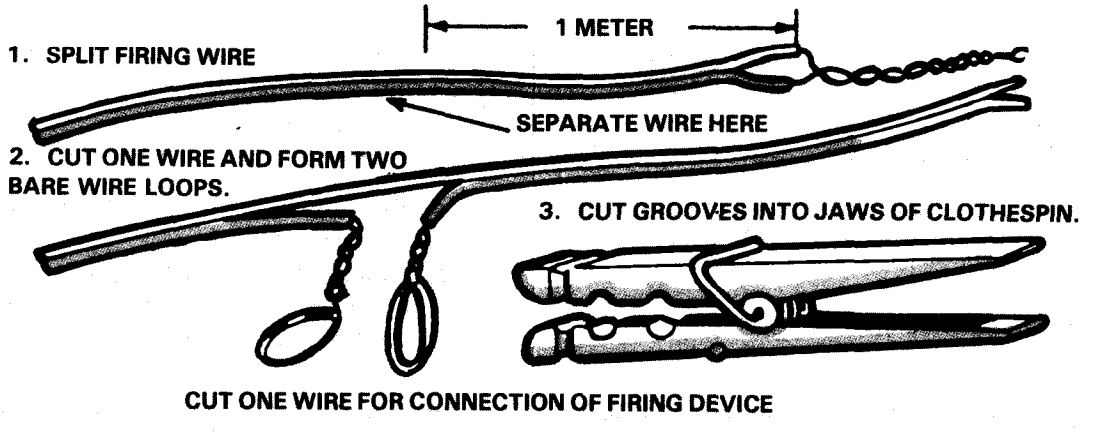
- **Emplace and aim the mine to cover the desired kill zone.**
- **Put an anchor stake (1) about 1 meter (3.3 ft) to the rear of the mine and attach the firing wire to it, leaving about 1.5 meters (5 ft) of slack. Do not insert the blasting cap into the mine at this time.**
- **Unroll the firing wire to a point about 20 meters (66 ft) to either the left or right front of the mine. Put an anchor stake (2) at that point.**
- **Attach a clothespin (or other improvised device) to stake (2) with its closed end pointing toward the kill zone. The clothespin can be tied or nailed to the stake.**
- **Move across the kill zone and put in another stake (3).**
- **Attach the trip wire to stake (3) and unroll the tripwire to stake (2).**

EMPLACING A CLAYMORE WITH A TRIPWIRE



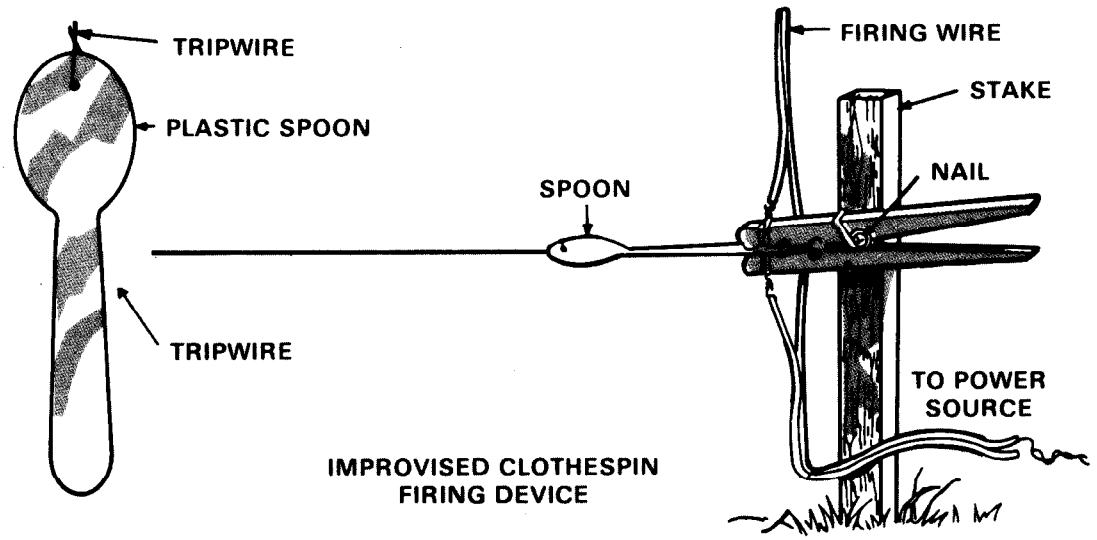
- Attach the end of the tripwire to a C-ration plastic spoon or some other nonconductor of electricity. Connect the tripwire and spoon before setting up the mine.
- Prepare the firing wire at stake (2) for connection to the clothespin by cutting one strand of the firing wire and forming two bare wire loops that can fit over the ends of the clothespin. (Do that before setting up the mine.)

FIRING WIRE PREPARED FOR CONNECTION



- Slide the loops over the ends of the clothespin and tighten them to fit in the grooves of the clothespin.
- Insert the tripwire spoon into the jaws of the clothespin. The tripwire should be about ankle-high and not too tight.
- Unroll the firing wire to a site to the rear of the mine and put in another anchor stake (4).
- Attach the firing wire to stake (4).
- Move to the mine, insert the blasting cap into the detonating well, screw in the shipping-plug priming adapter, and recheck the aim.
- Move to stake (4) to attach the firing wire to the power source.
- Cut the shorting plug and dust cover from the end of the firing wire and remove about 2.54 cm (1 in) of insulation from each strand of the firing wire.
- Twist the ends of the wires and attach them to a power source (BA 206 or BA 4386 battery or any other power source that produces at least 2 volts of electricity). The system is now ready.

TRIPWIRE CONNECTION TO SPOON AND CLOTHESPIN

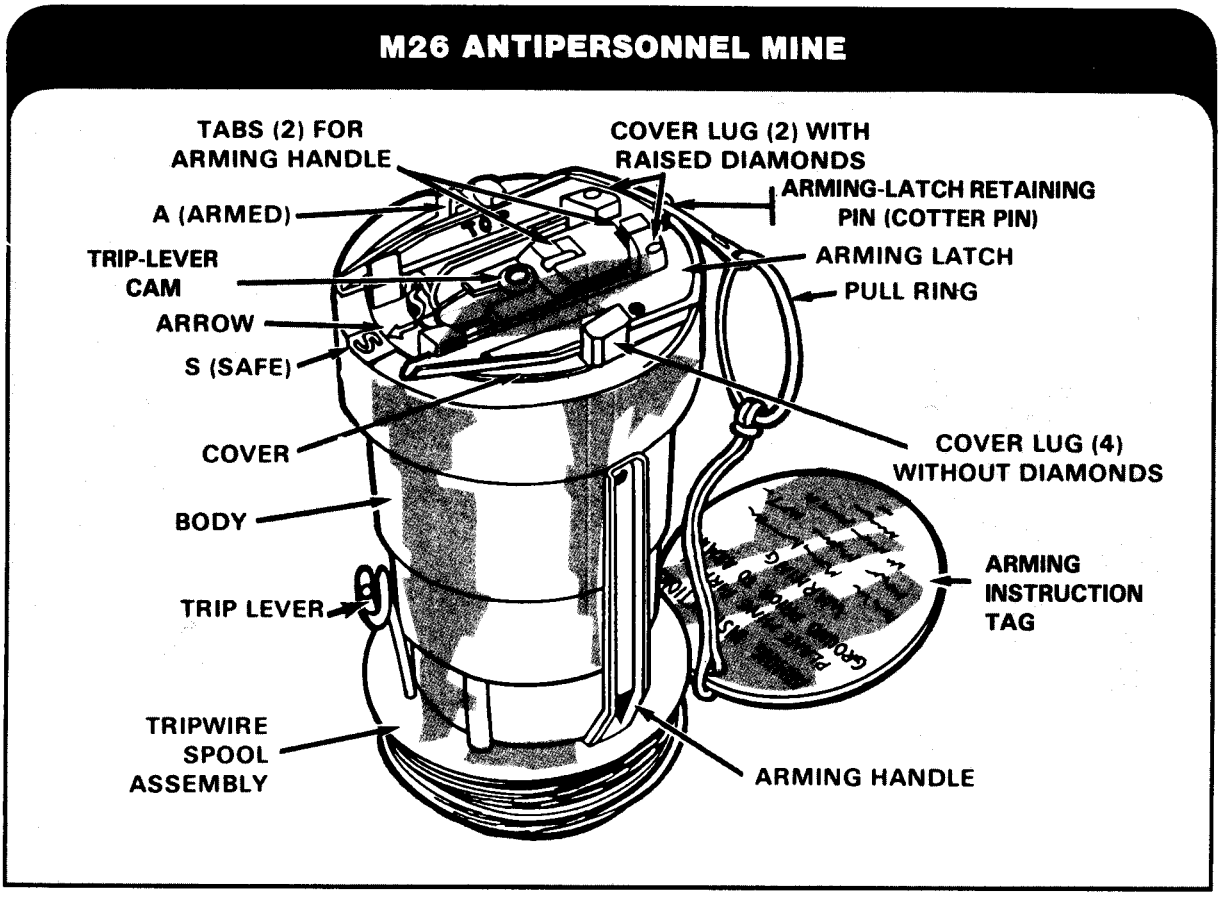


To disarm and remove a Claymore with a tripwire, reverse the steps used to arm and install it.

- Disconnect the firing wire from the power.
- Remove the blasting cap from the mine and place the cap in its protective cover.
- Place the mine in the bandoleer.
- Roll up the firing wire and recover the other items, going from stake (1) to (2), (2) to (3), and (3) to (4).
- Put all of the accessories in the bandoleer and move back to your position.

M26, ANTIPERSONNEL MINE

This is a small, bounding, fragmentation mine. It can be set for either pressure or tripwire activation. A pressure of 13 kg (28 lb) on top of the mine, or a pull against the tripwire will detonate it.



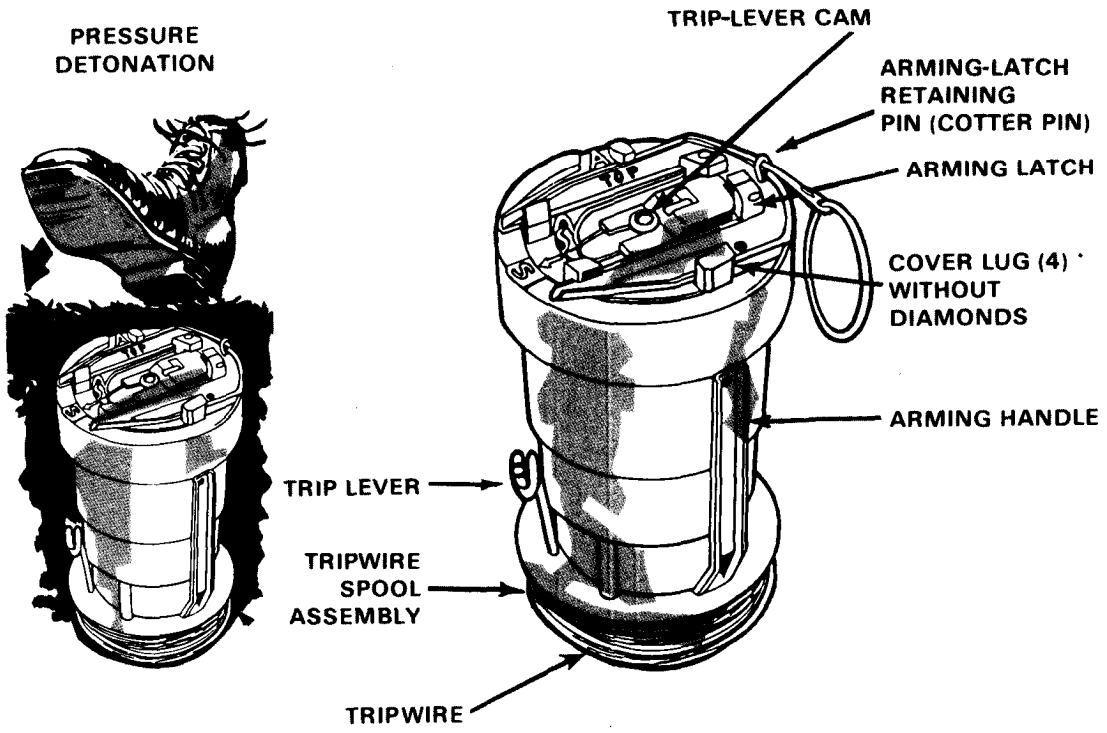
To emplace an M26 mine for **pressure detonation**:

- **Dig a hole in the ground about 13 cm (5 in) deep and wide enough to accept the mine.**
- **Remove a 2.5 cm (1 in) layer of dirt out to about 15 cm (6 in) from around the mine to allow knuckle clearance needed when turning the arming handle.**

NOTE: Leave the tripwire spool assembly attached to the mine This helps to stabilize the mine in the hole.

- Remove the arming handle from the tripwire spool by pulling it upward from the spool.

EMPLACING THE M26 MINE FOR PRESSURE DETONATION



- Close the spread ends of the arming-latch retaining pin (cotter pin) to aid its removal after the mine is emplaced.
- Place the mine in the hole, with cover end up, so that the mine cover lugs extend just slightly above ground level.

- **Pack the dirt around the mine, leaving the cover lugs exposed.**
- **Remove the arming-latch retaining pin by pulling the ring straight up.**
- **Attach the arming handle to the lugs on the arming latch. Hold the mine firmly with the thumb and finger of one hand to keep it from turning. Turn the cover clockwise (about ¼ turn) until it stops.**
- **The arrow on the mine cover should be slightly past the center of the red A (armed) position.**
- **Camouflage the mine.**
- **Remove the arming latch from the mine by pulling straight out on the arming handle. Keep the arming latch and arming handle for future use. The mine is now armed.**

ARMING THE M26 MINE

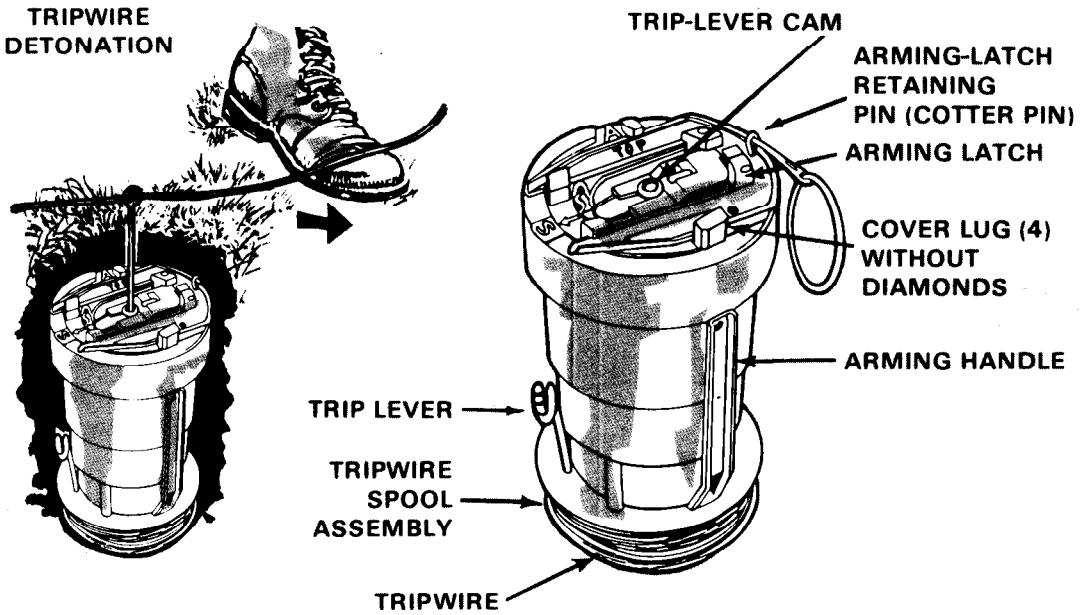
To disarm and remove an M26 mine set for pressure detonation, reverse the steps used to arm and install the mine.

- **Carefully remove all camouflage from around the top of the mine.**
- **If there is any sign of boobytrapping or tampering, do not try to disarm and remove the mine. Instead, destroy the mine in place.**
- **If there are no signs of boobytrapping or tampering, replace the arming latch by sliding it under the arming handle lugs from the side opposite the arrow.**
- **Make sure that the middle prong of the arming latch engages the trip-lever cam.**
- **Remove a 2.5 cm (1 in) layer of dirt out to about 15 cm (6 in) from the edge of the mine to allow knuckle clearance.**
- **Attach the arming handle to the arming latch.**
- **Hold the mine with one hand and turn the cover counterclockwise with your other hand until it stops (about ¼ turn).**
- **The arrow on the cover should line up with the S (SAFE) position on the mine.**
- **Remove the arming handle.**
- **Insert the arming-latch retaining pin through the holes in the arming latch and mine body. (It may be necessary to rotate the latch back about ½ cm [¼ in] to align the holes.)**
- **Remove the mine from the hole.**
- **Clear the mine and repackage it.**

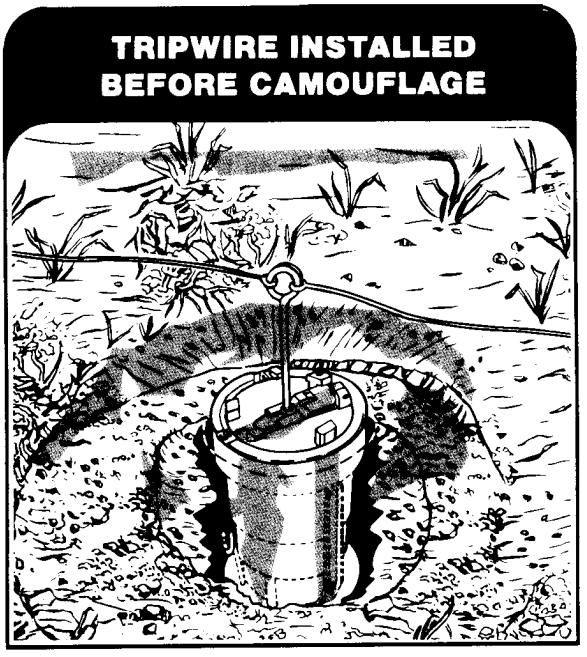
To emplace an M26 mine for **tripwire detonation**:

- Dig a hole in the ground about 13 cm (5 in) deep and wide enough for the mine.
- Remove a 2.5 cm (1 in) layer of dirt out to about 15 cm (6 in) from around the mine to allow knuckle clearance needed when turning the arming handle.
- Remove the tripwire spool assembly by pulling it away from the mine body.
- Remove the arming handle from the tripwire spool by pulling it upward.
- Unscrew and remove the trip lever from the tripwire spool.
- Remove one or more tripwires, as required, from the tripwire spool by pressing in on the plastic tripwire retainer(s) and lifting the tripwire(s) off the top of the spool.

EMPLACING THE M26 MINE FOR TRIPWIRE DETONATION



- Retain or replace any unused tripwires on the spool.
- Replace the tripwire spool assembly on the mine. Leave the spool on the mine to help stabilize it.
- Close the spread ends of arming-latch retaining pin (cotter pin) to aid its removal after the mine is emplaced.
- Place the mine in the hole with the cover end up, so that the mine cover lugs extend just slightly above ground level.
- Pack the dirt around the mine, leaving the cover lugs exposed.
- Screw the trip lever about four turns into the trip-lever cam (in the top center of the mine cover) until it is tight.



- **Cut the tape holding the coils of wire.**
- **Attach the loop end(s) of the tripwire(s) to the loop of the trip lever.**
- **Leaving some slack, attach the other end of the tripwire(s) to a firm anchor stake(s).**
- **Remove the arming-latch retaining pin by pulling the ring straight up.**
- **Assemble the arming handle to the lugs on the arming latch. Hold the mine body firmly with your thumb and finger of one hand to keep the mine from turning. Rotate the cover clockwise (from S to A) until it stops (about ¼ turn).**
- **Camouflage the mine.**
- **Remove the arming latch from the mine by pulling straight out on the arming handle. Keep the arming latch and arming handle for future use. The mine is now armed.**

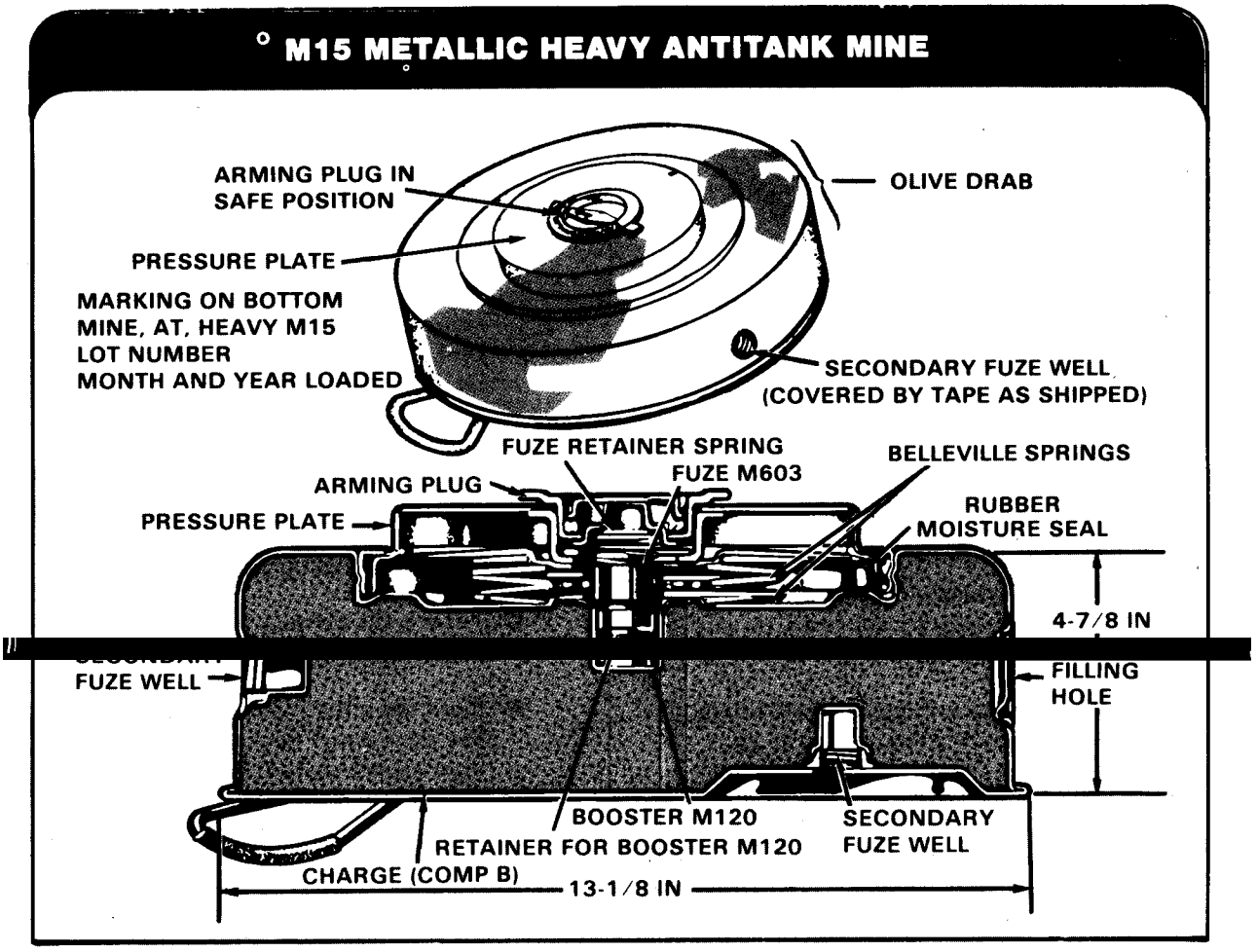
To disarm and remove an M26 mine emplaced for tripwire detonation, reverse the steps used to arm and install the tripwire detonation.

- **Carefully remove all camouflage from around the mine.**
- **If there is any evidence of boobytrapping or tampering, do not try to disarm and remove the mine. Take care not to move the trip lever or press on the mine cover.**
- **Replace the arming latch. With the two raised arming handle lugs facing upward, slide the arming latch under the six lugs of the mine cover from the side opposite the arrow. Make sure that the middle prong of the arming latch engages the trip-lever cam.**
- **Remove a layer of dirt about 2.5 cm (1 in) deep for a distance of about 15 cm (6 in) from the edge of the mine to allow knuckle clearance for turning and removing the arming latch.**
- **Attach the arming handle to the lugs on the arming latch.**
- **Hold the mine with one hand and turn the mine cover counterclockwise with your other hand until it stops (about ¼ turn). The arrow on the cover should point to the S (SAFE) position on the mine body.**
- **Remove the arming handle from the mine and keep it for future use.**
- **Insert the arming-latch retaining pin through the holes in the arming latch and mine body. It may be necessary to turn the latch back (up to ½ cm [¼ in]) to align the holes of the latch and body.**
- **Remove the mine from the ground. Clean the mine and repackage it.**

ANTITANK

M15, ANTITANK MINE

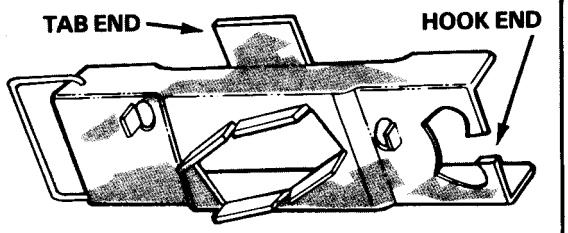
This antitank mine has a cylindrical steel body. It is pressure detonated. A force of 159 to 340 kg (350 to 750 lb) on the pressure plate will detonate the mine.



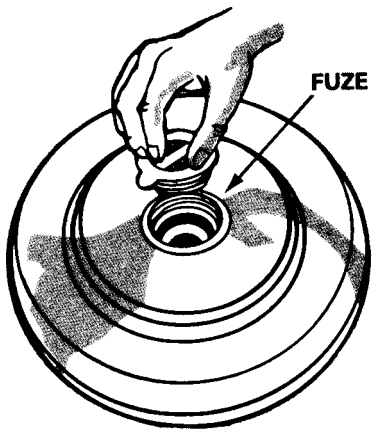
To emplace an M15 mine:

- **Remove the mine from its packing box.**
- **Using the M20 wrench, unscrew the arming plug by turning it counterclockwise. Take it out of the mine.**
- **Inspect the fuze well for foreign matter. Remove any found.**

ARMING WRENCH M20

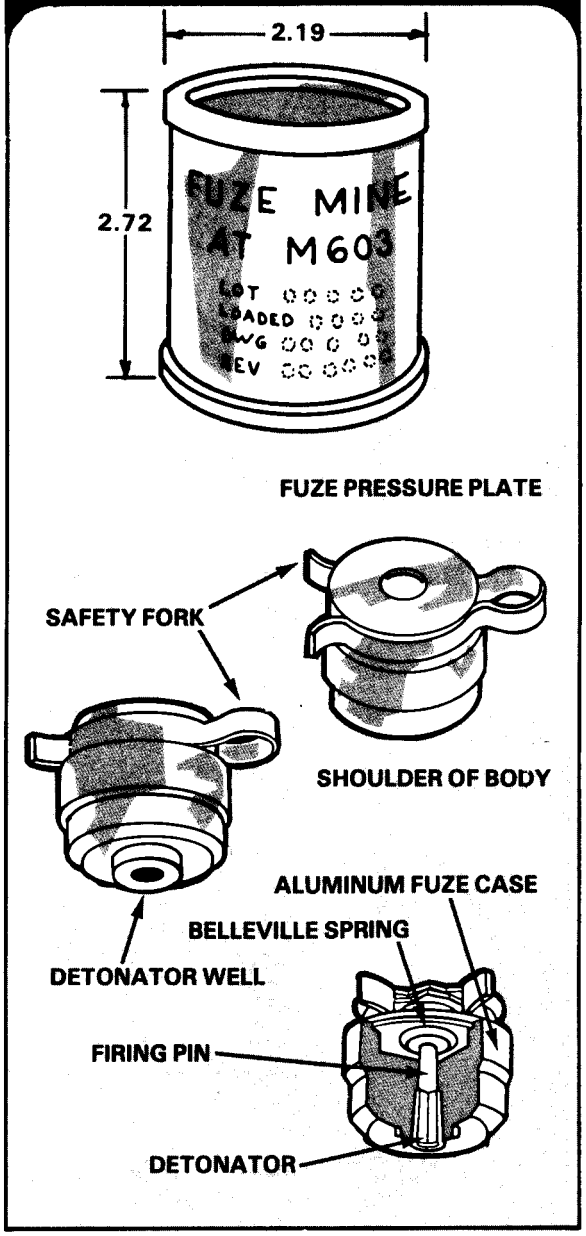


REMOVING ARMING PLUG FROM MINE



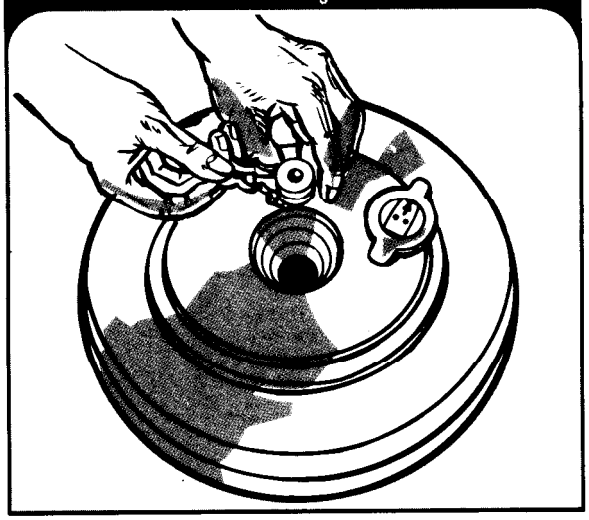
- Make sure that the booster retainer is seated in the fuze well. If it is missing, replace the mine.
- Put the mine down and pick up the metal fuze container.
- Open the container with the key attached to its bottom.
- Remove the fuze from the container.
- Make sure that the green end of the detonator shows in the bottom of the fuze and that the safety clip is in place between the pressure plate and the body of the fuze.

CONTAINER AND MINE FUZE M603



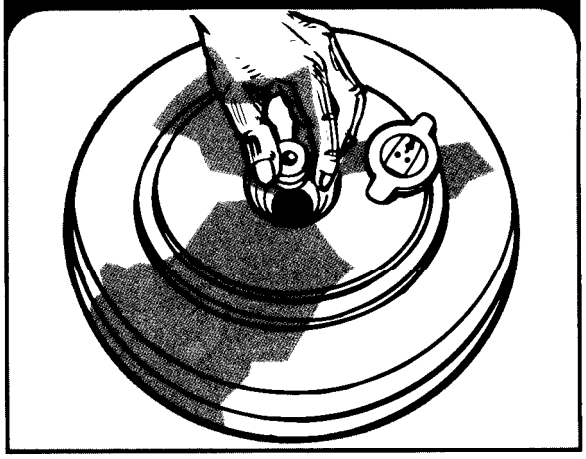
- Remove the safety fork from between the pressure plate and the body of the fuze. Keep the safety fork for future use.

REMOVING SAFETY FORK FROM FUZE



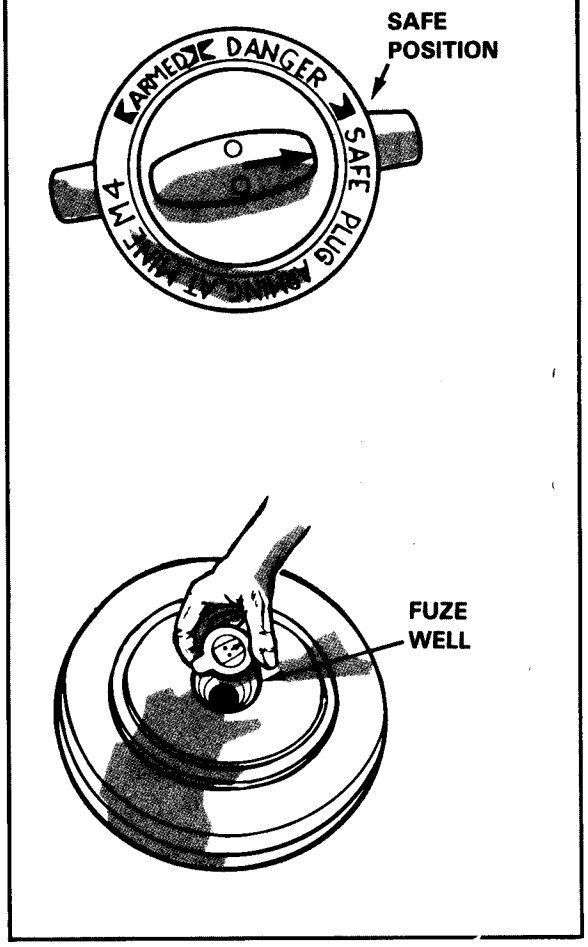
- Insert the fuze into the fuze well. Make sure that the fuze is seated securely on top of the booster retainer. Put no-pressure on the pressure plate when handling the fuze.

INSERTING FUZE IN MINE

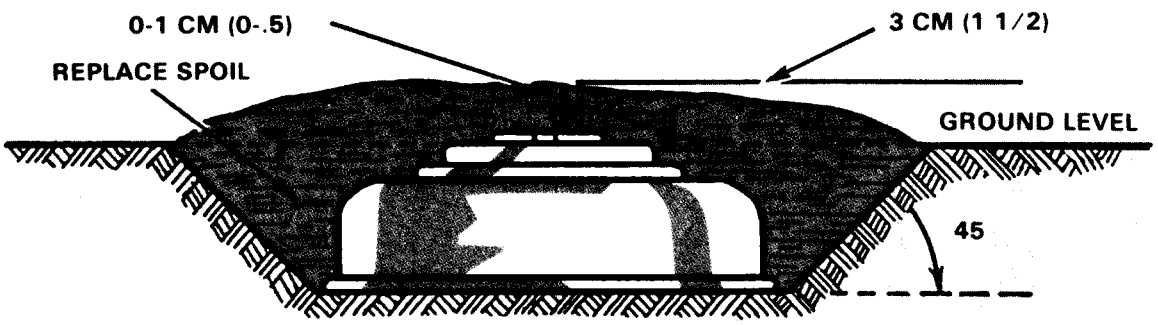


- Check the clearance of the pressure plate of the fuze in the fuze well by using the tab end of the M20 wrench. If the pressure plate is too high, the button on the plate will interfere with the movement of the arming shutter in arming the mine. If the fuze does not fully seat, remove it and replace it with another fuze.
- Pick up the arming plug M4 and turn the setting knob to the SAFE position — if it is not already on SAFE.

ARMING PLUG AND WELL

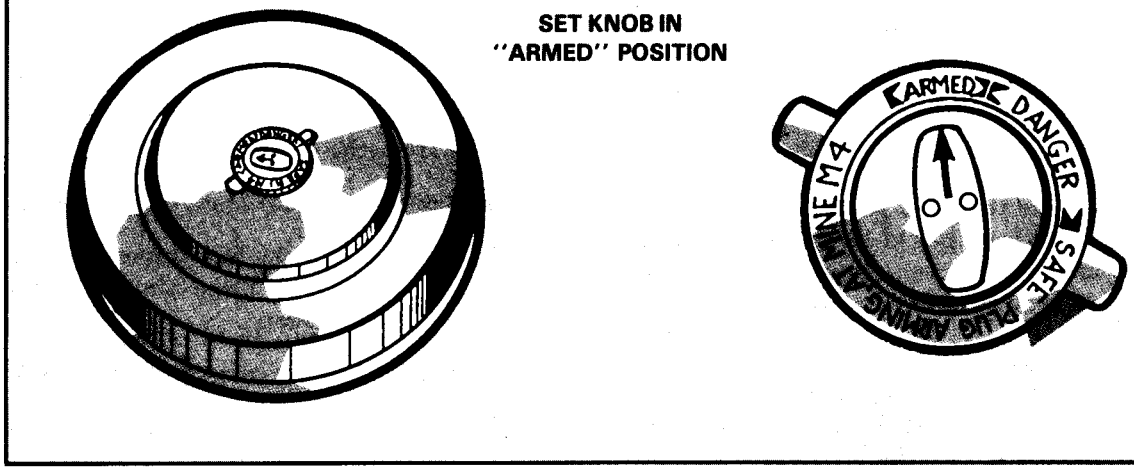


RECOMMENDED BURIAL FOR PRESSURE FUZED MINES

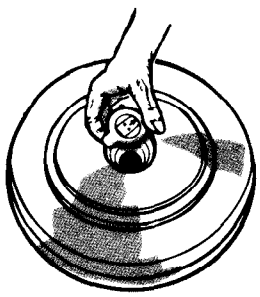


- Dig a hole about 38 cm (15 in) in diameter and 15 cm (16 in) deep, with walls sloping 45 degrees.
- Check the bottom of the hole to make sure that the ground is solid so that the mine will not sink into the ground. If it is not solid, insert a wooden board or other support to give the mine a firm foundation.
- Lay the mine in the hole so that the top surface of the pressure plate is about 3 cm (11/2 in) below ground level.
- Fill in the dirt around the mine and pat it down.
- Using the M20 wrench, arm the mine by turning the setting knob from SAFE through DANGER to ARMED.
- Camouflage the mine.

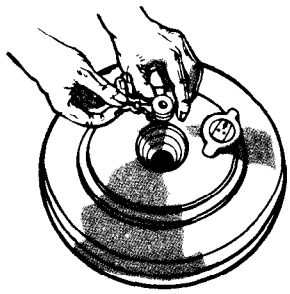
ARMING THE M15 MINE



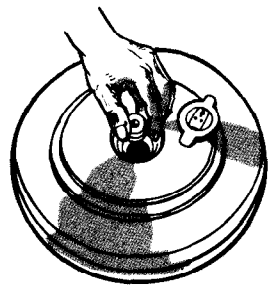
STEPS IN ARMING THE M15 MINE WITH FUZE AT M603



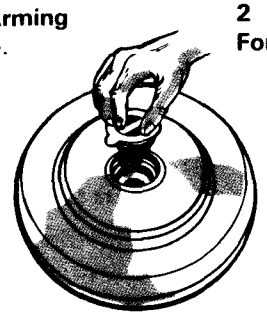
1 Removing Arming Plug From Mine.



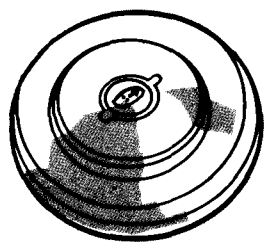
2 Removing Safety Fork From Fuze.



3 Inserting Fuze In Mine.



4 Inserting Arming Plug With Indicator At "SAFE" Position Into Mine Before Laying.



5 Indicator Turned To "ARMED" Position After Laying Mine.

WARNING

Ice in the fuze well during fuzing operations can cause a serious accident. During freezing weather, make sure none is present.

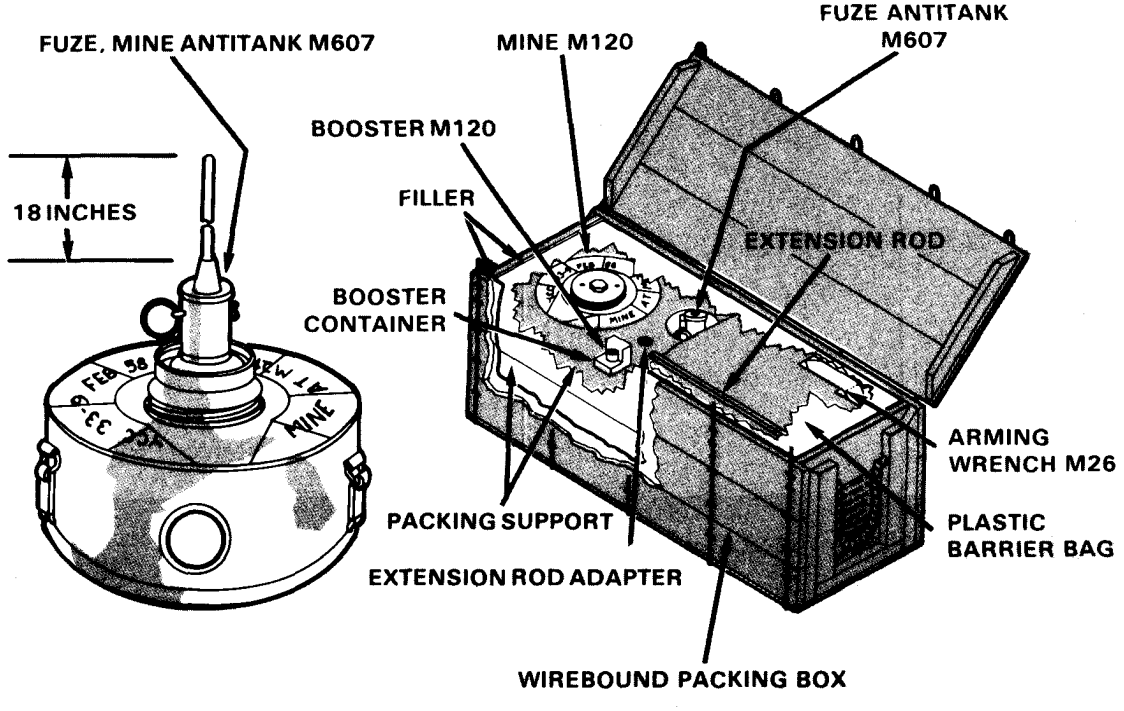
To disarm and remove an M15 mine, reverse the steps used to arm and install it.

- **Carefully remove all camouflage from around the mine. Look for boobytraps and other signs of tampering. If there are signs of tampering or boobytraps, destroy the mine in place.**
- **If there are no signs of tampering or boobytraps, slowly turn the setting knob from ARMED through DANGER to SAFE. Use the M20 wrench.**
- **Turn the arming plug counterclockwise with the M20 wrench and remove it from the mine.**
- **Remove the fuze from the fuze well.**
- **Insert the safety fork under the pressure plate and place the fuze in a secure container.**
- **Put the arming plug in the fuze well.**
- **Remove the mine from the hole and put it in the packing box.**

M21, ANTITANK MINE

This antitank mine has a cylindrical steel body. It is pressure detonated. A pressure of 1.7 kg (3.75 lb) against the tilt rod (causing the rod to tilt 20 degrees or more) will detonate the mine. When not using the tilt rod, a pressure of 131.5 kg (290 lb) on the pressure ring will detonate the mine.

ANTITANK MINE, M21 AND COMPONENTS

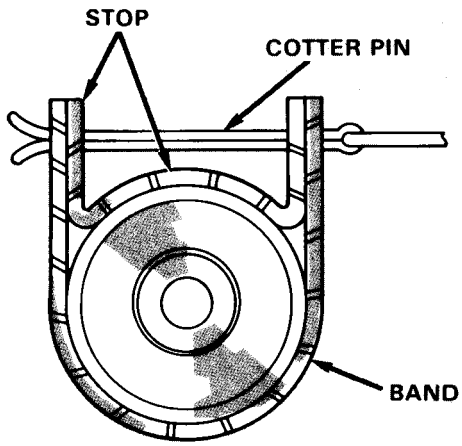


To emplace an **M21 mine**:

- **Remove the mine and its components from the packing box.**
- **Inspect the mine and components for serviceability. Check for cracks, dents, or other signs of damage. If a damaged item is found, replace it.**

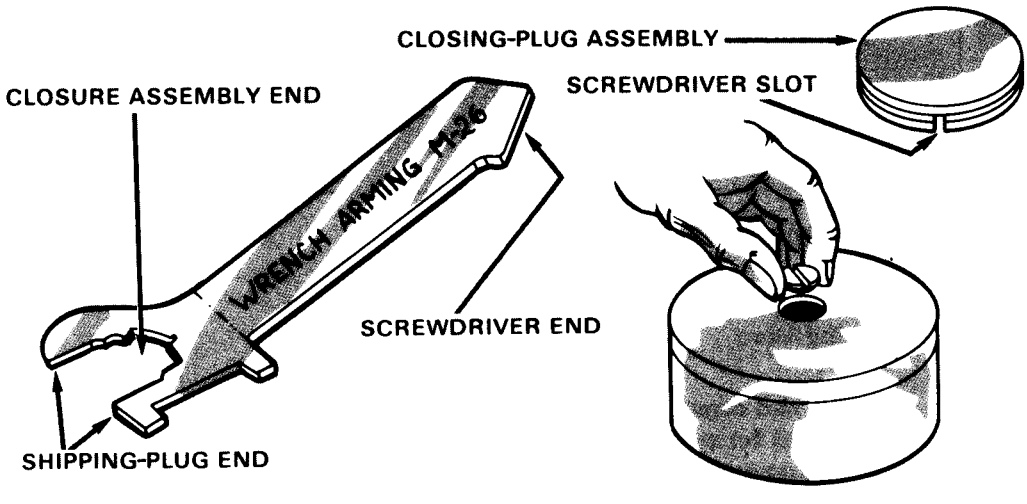
- Make sure that the cotter pins of the fuze pull-ring assembly and the fuze closure assembly are in place and secure.

PIN AND FUZE CLOSURE ASSEMBLY



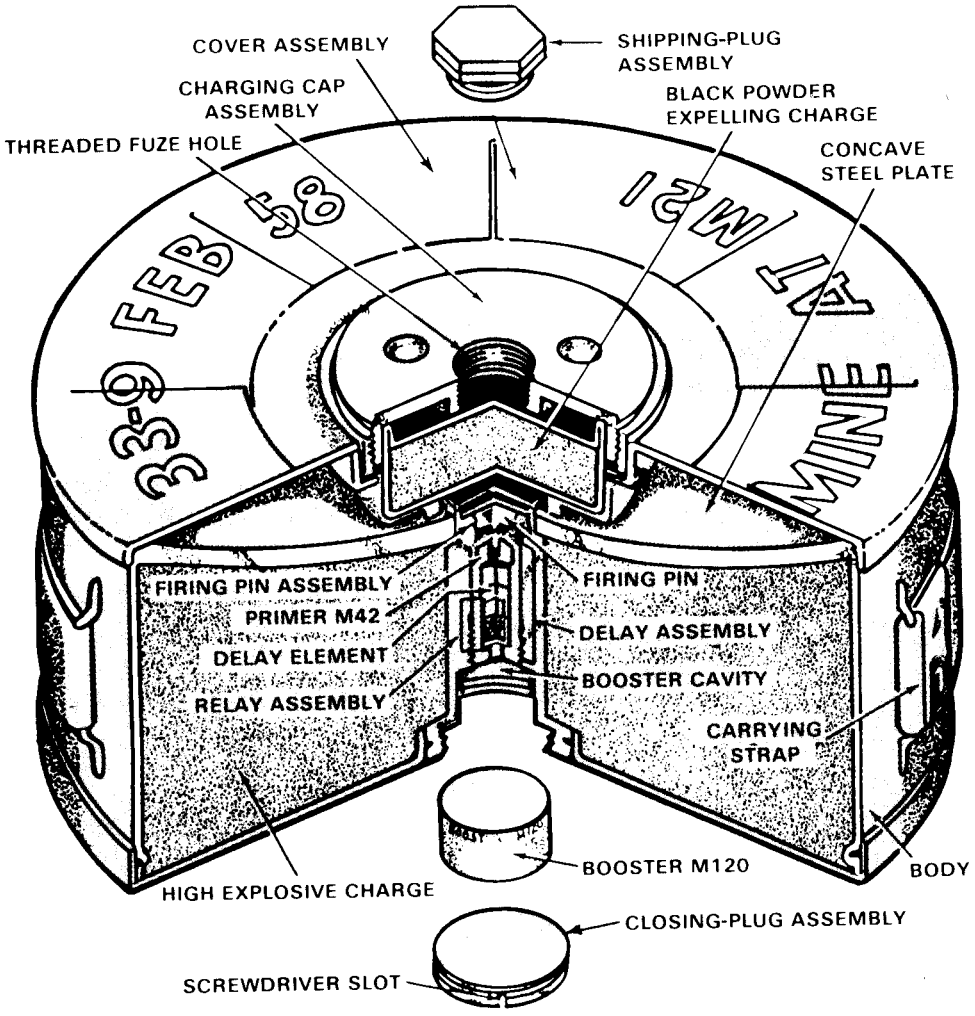
- Turn the mine bottom up and, with the screwdriver end of the M26 wrench, remove the closing plug assembly by turning it counterclockwise.

REMOVING CLOSING PLUG



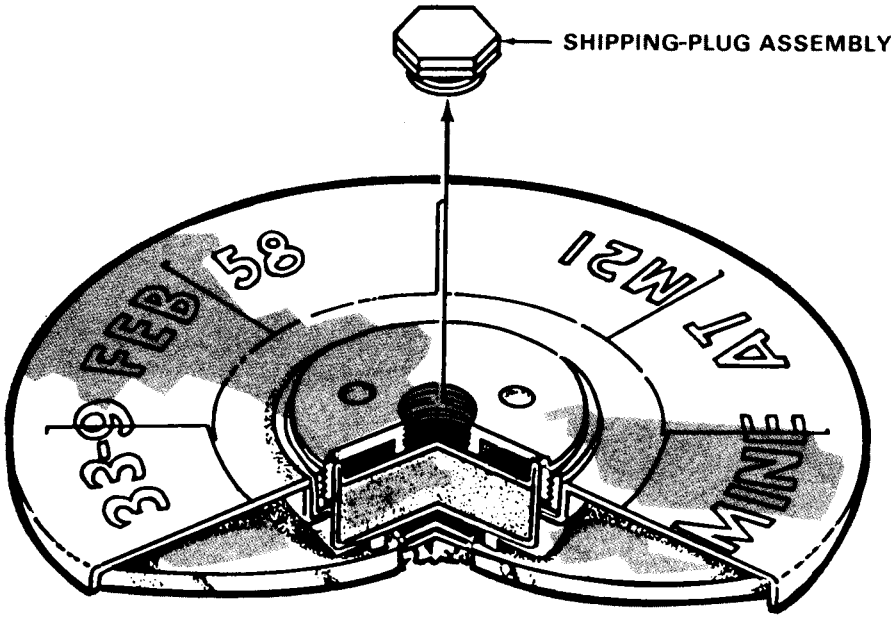
- Inspect the booster cavity for foreign matter. Remove any found.
- Insert the M120 booster (with the washer side toward the fuze) into the booster cavity.
- With the M26 wrench, replace the closing-plug assembly by turning it clockwise until tight. The gasket of the closing-plug assembly should be against the booster.
- Turn the mine bottom down.
- With the M26 wrench, remove the shipping-plug assembly from the fuze hole of the mine.

MINE ANTITANK HEAVY M21 (INTERNAL) CUTAWAY VIEW



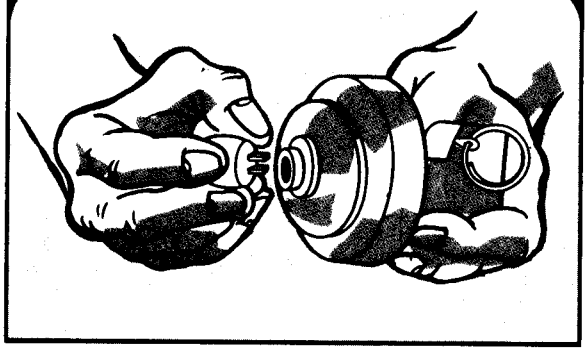
- Inspect the fuze hole. If foreign matter

REMOVING THE SHIPPING PLUG



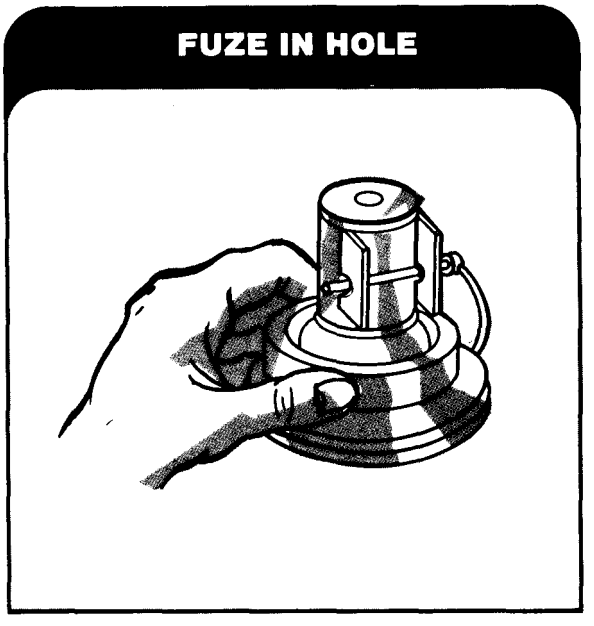
- **With the closure end of the M26** wrench, remove the closure assembly from the M607 fuze. The gasket on the bottom of the fuze should stay in place.

DISCONNECTING FUZE FROM CLOSURE ASSEMBLY



- **Screw the fuze hand-tight into the threaded fuze hole of the mine charge cap. Set the mine down.**

FUZE IN HOLE



- **Dig a hole in the ground 30 cm (12 in) in diameter and 15 cm (6 in) deep.**
- **Check the bottom of the hole to make sure that the ground is solid and has a firm, flat foundation for the mine to rest on. If the ground is soft, the mine may tilt and lose effectiveness.**
- **In soft ground, place a board or other flat object under the mine as a firm foundation.**
- **Place the mine in the hole.**
- **Press the ground firmly against the sides of the mine, leaving the fuze uncovered.**
- **Screw the extension rod into the threaded pressure ring of the fuze.**
- **Make sure that the extension rod is vertical.**

If the mine is being set for pressure detonation with the pressure rings, do not use the extension rod. **Instead:**

- **Remove the pull ring assembly band and stop on the fuze. This arms the mine.**
- **Keep the above items for future use, if needed, to disarm the fuze.**
- **Camouflage the mine.**

To disarm and remove an M21 mine, reverse the steps used to arm and install it.

- **Check the area for boobytraps or any signs of tampering. If there are boobytraps or signs of tampering, destroy the mine in place.**
- **If there are no boobytraps or signs of tampering, remove the camouflage material from around the mine.**
- **Reassemble the band, stop, and pull-ring assembly on the fuze so that the pressure ring is immobilized. When the cotter pin is in place, spread the ends so that it is not easily removable.**
- **Remove the extension rod and the extension-rod adapter, if present. Be careful not to damage them.**
- **Remove the dirt from around the mine and remove the mine from the hole.**
- **Remove the fuze from the mine and install the closure assembly on the fuze.**
- **Install the shipping-plug assembly into the fuze hole of the mine.**
- **Turn the mine bottom up and remove the closing-plug assembly.**
- **Remove the booster, then reinstall the closing-plug assembly with the gasket toward the booster cavity.**
- **Put the mine, fuze, and components in their original container.**

M24, OFF-ROUTE ANTITANK MINE

This is a remotely detonated mine system. It is activated by vehicles running over a linear switch (called a discriminator) which causes a 3.5-inch HEAT (HIGH EXPLOSIVE ANTITANK) rocket to be launched from an "off-route" launch position. The launcher should be between 3 and 30 meters (10 to 100 feet) from the edge of the path.