

A full-page background image of a Marine in dress uniform. The Marine is wearing a white-topped dress cap with a gold emblem, a dark blue jacket with red piping and gold buttons, and a white belt. He has several medals on his left chest and a sergeant's rank insignia on his right sleeve. In the background, several rifles are held vertically, and another Marine is partially visible behind him.

Figures From

**THE MARINE
GUIDEBOOK OF
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Fig 3-1. Attention.



Fig 3-2. Hand salute.

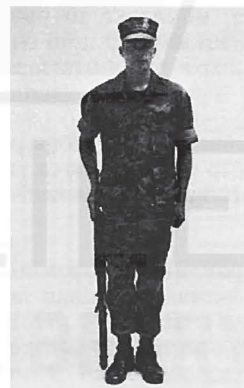
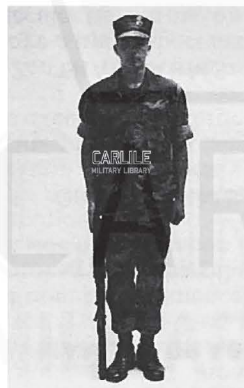


Fig 3-3. Order arms. Fig 3-4. Trail arms.



Fig 3-5. Parade rest.

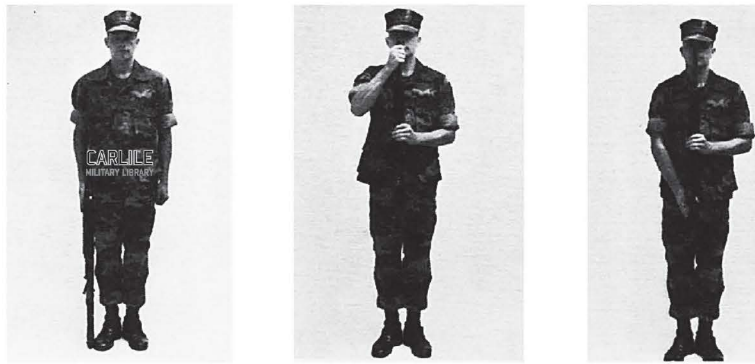


Fig 3-6. Present arms from order arms.

Fig 3-7. Order arms from present arms.

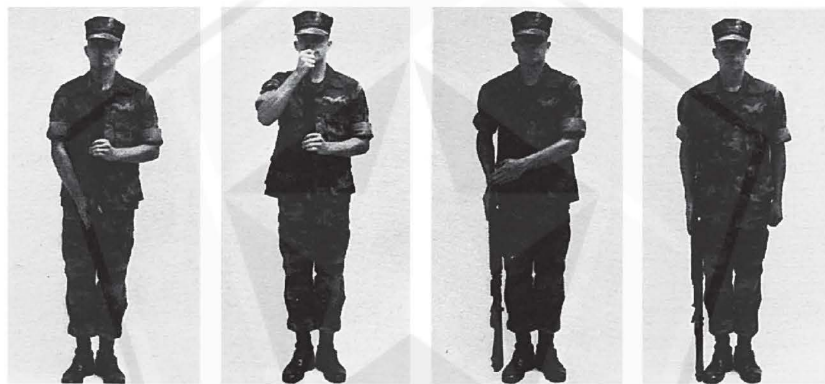


Fig 3-8. Order arms to port arms.



Fig 3-9. Port arms to order arms.

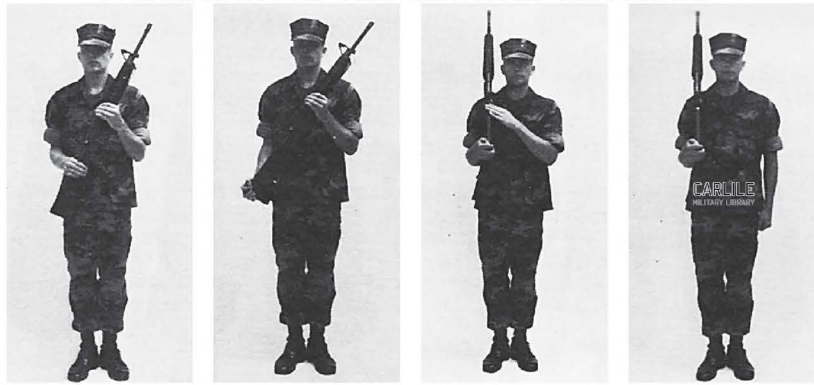


Fig 3-10. Port arms to right shoulder arms.



Fig 3-11. Port arms to left shoulder arms.



Fig 3-12. Right shoulder arms to order arms.

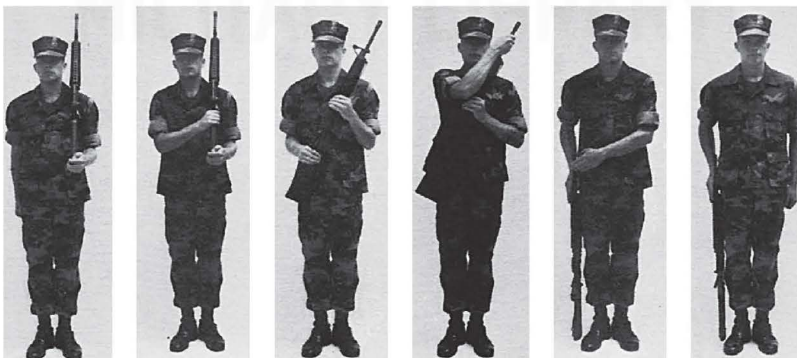


Fig 3-13. Left shoulder arms to order arms.



Fig 3-14. Rifle salute from right shoulder arms.



Fig 3-15. Rifle salute from order arms.



Fig 3-16. Rifle salute from left shoulder arms.



Fig 3-17. Rifle salute from trail arms.



Fig 3-18. Order arms to inspection arms.



Fig 3-19. Inspection arms to port arms.

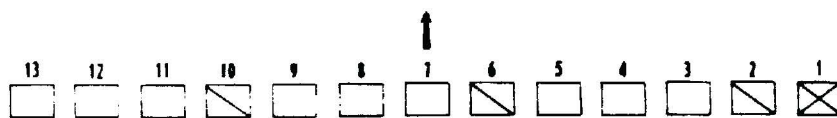


Fig 3-20a. Squad in rank (line).

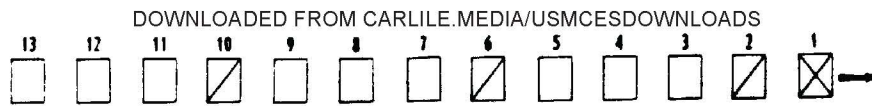


Fig 3-20b. Squad in file (column).



Fig 3-21. Normal interval.



Fig 3-22. Close interval.

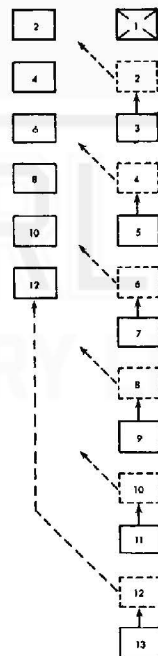


Fig 3-23. Forming column of twos from a single file.

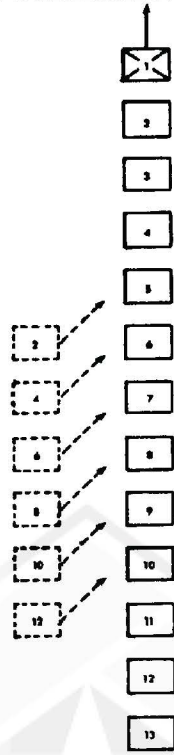


Fig 3-24. Forming single file from a column of twos.

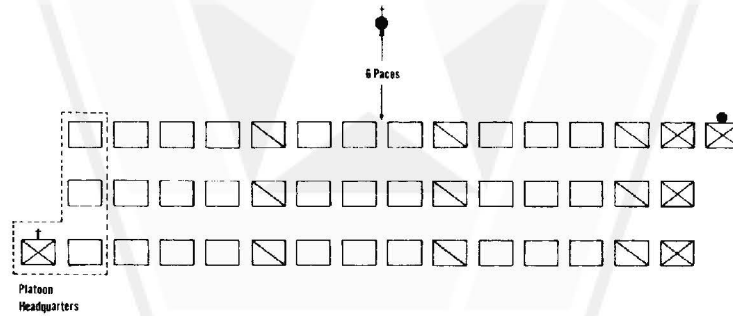


Fig 3-25. Platoon on line.

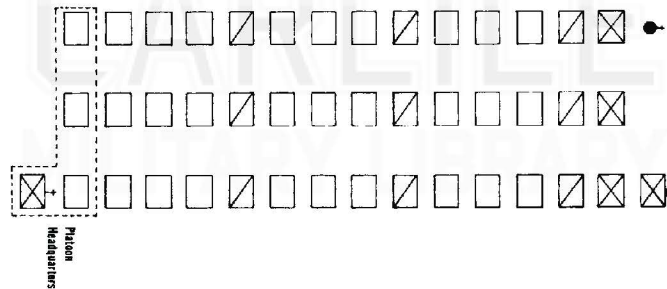


Fig 3-26. Platoon in column.

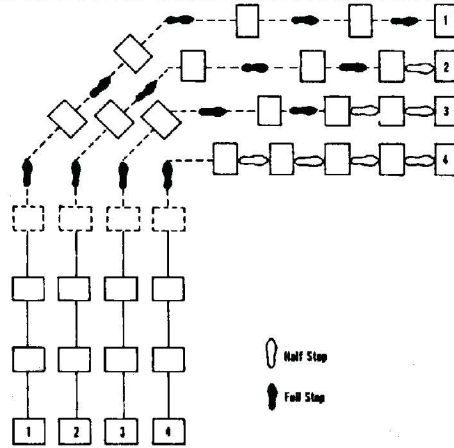


Fig 3-27. Column right (left).

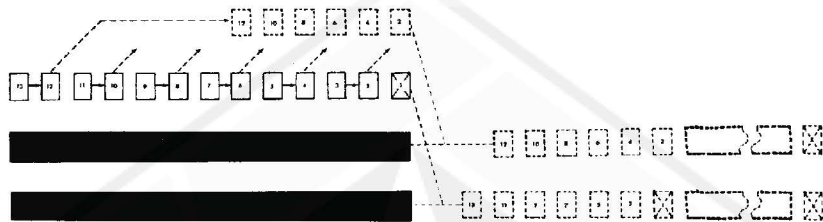
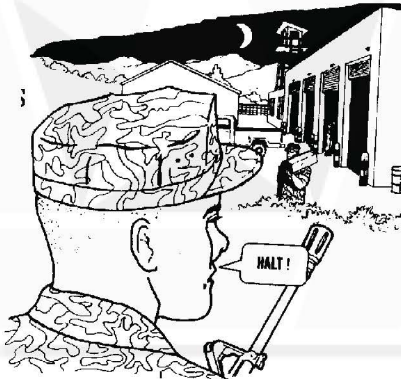


Fig 3-28. Column of twos from a column of threes and reform.



Fig 3-29. Column of threes from a column of twos.





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**ACTION OF THE MARINE
SENTRY**

**ACTION OF THE PERSON
CHALLENGED**

To a person about to enter his post:

"HALT WHO IS (GOES) THERE?"

Person halts immediately and answers:

"LT JONES, THE SUPPLY OFFICER."

Sentry will order person forward:

"ADVANCE LT JONES TO BE RECOGNIZED."

Person will advance without replying.

When person is close enough to identify, the sentry commands:

"HALT!" (LT JONES IS NOT RECOGNIZED.)

Person will halt on command and wait for further instructions.

Challenge—The sentry will challenge in a low voice:

"The WATER in the river is low."

Person challenged will reply with the password in a low voice:

"It's always low in the SUMMER."



When the sentry has identified the person, he will permit him to proceed:

"PASS SIR!"

Person will proceed on his way when told to pass.

**ACTION OF THE MARINE
SENTRY**

**ACTION OF THE GROUP
CHALLENGED**

To a group of persons about to enter his post:

"HALT, WHO IS (GOES) THERE?"

Group will immediately halt, and senior will answer.

"CORPORAL OF THE GUARD WITH THE RELIEF."

Sentry will order the senior
(Cpl of the Guard) forward:

"ADVANCE CORPORAL
OF THE GUARD TO BE
RECOGNIZED."

Person will advance without
replying.

When the Corporal of the
Guard is close enough to
identify, the sentry will
command:

"HALT!"

Corporal of the Guard will
halt.

Upon recognizing the
Corporal of the Guard,
the sentry will command:

"ADVANCE THE RELIEF
TO BE RECOGNIZED."

The relief will come forward
when directed to be identified
by the Corporal of the Guard.

The sentry will halt,
identify and/or control
the relief as the
situation demands.

Relief will be effected by the
Corporal of the Guard.

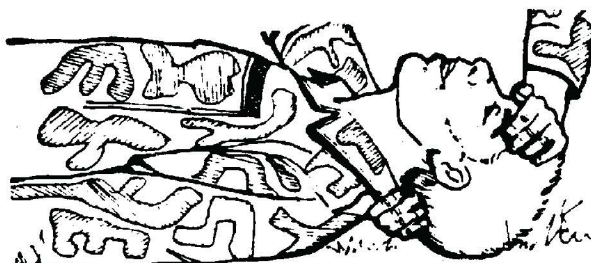


Fig 5-1. Head tilt-neck lift technique.

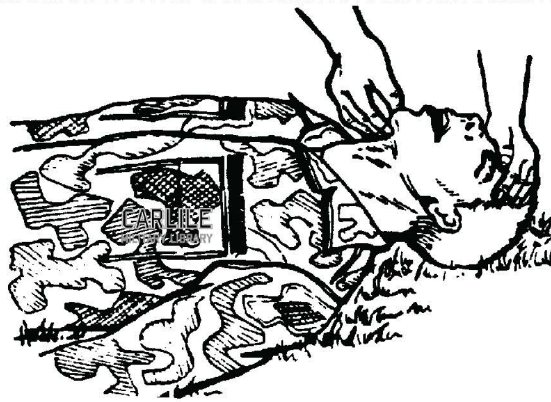


Fig 5-2. Head tilt-chin lift technique.



Fig 5-3. Jaw thrust technique.



Fig 5-4. Mouth-to-mouth method of artificial respiration.

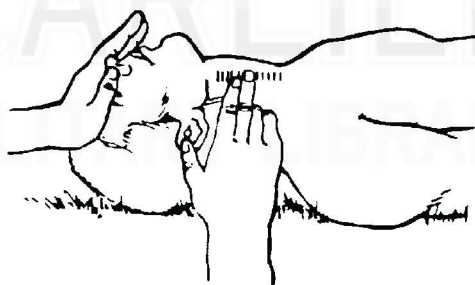


Fig 5-5. Checking for a pulse.

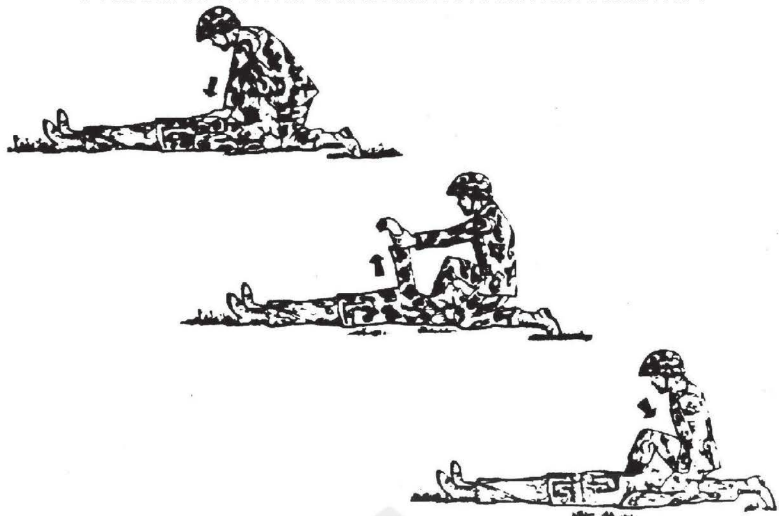


Fig 5-6. Chest pressure arm-lift.



Fig 5-7. Fingers and hand on the lower breastbone.



Fig 5-8. Positioning of the hands.



Fig 5-9. Giving chest compressions.



Fig 5-10. Back blows.

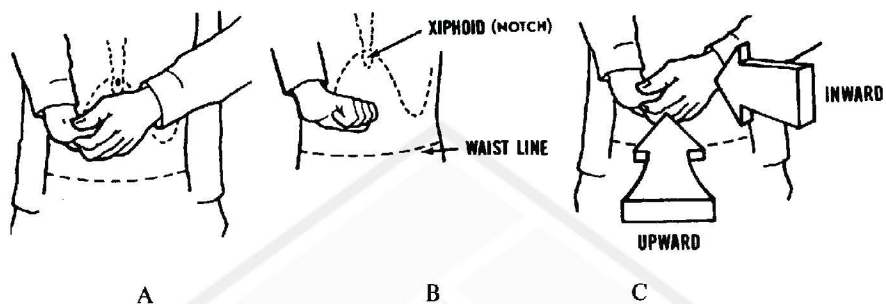


Fig 5-11. Abdominal thrusts.

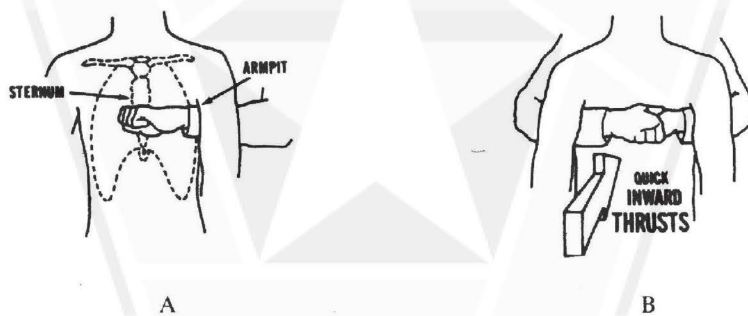


Fig 5-12. Chest thrust.



Fig 5-13. Back blows on a victim who is lying or unconscious.



Fig 5-14. Abdominal thrust on unconscious casualty.

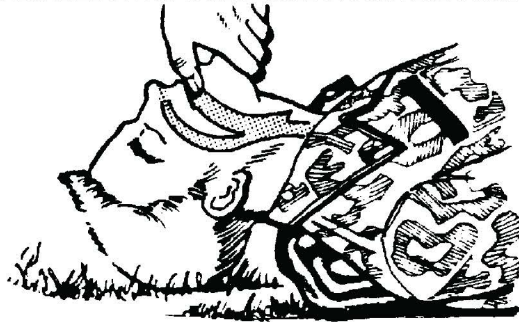


Fig 5-15. Opening casualty's mouth (tongue-jaw lift).



Fig 5-16. Using finger to dislodge foreign body.



Fig 5-17. Placing the dressing directly over the wound.

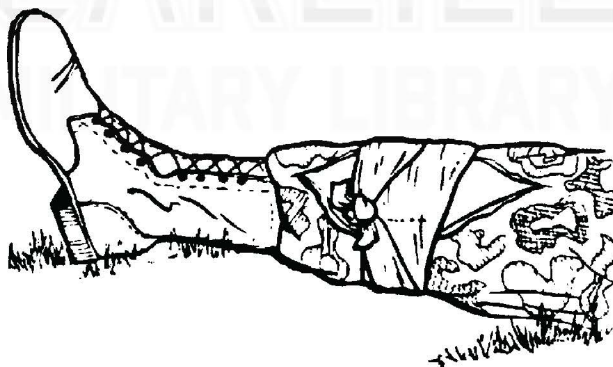


Fig 5-18. Tails tied into a nonslip knot.

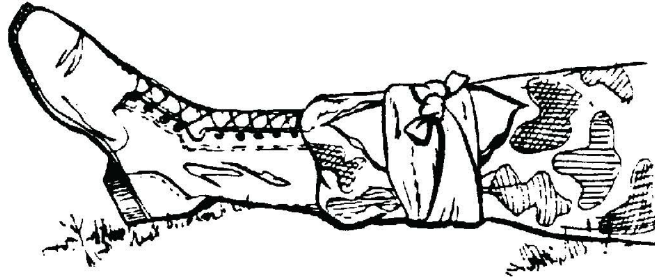


Fig 5-19. Pressure dressing tied in a nonslip knot.



Fig 5-20. Rigid object on top of the half knot.



Fig 5-21. Twisting the stick.

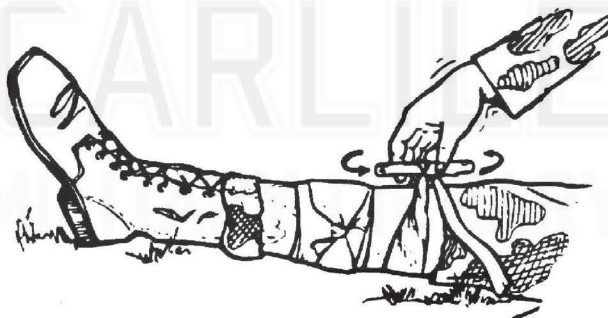


Fig 5-22. Free ends looped and tied.

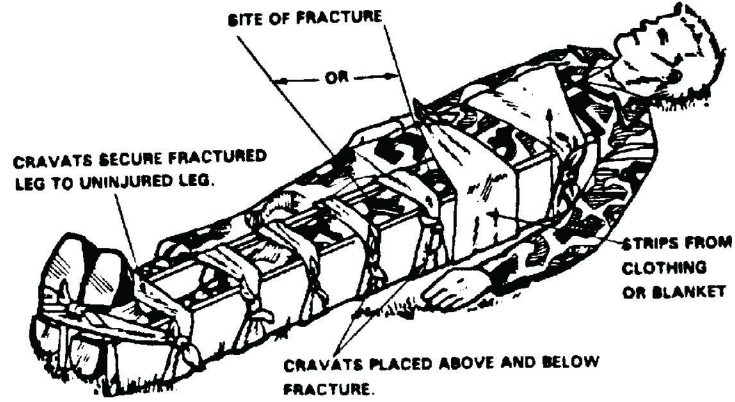


Fig 5-23. Board splints applied to fractured hip or thigh.

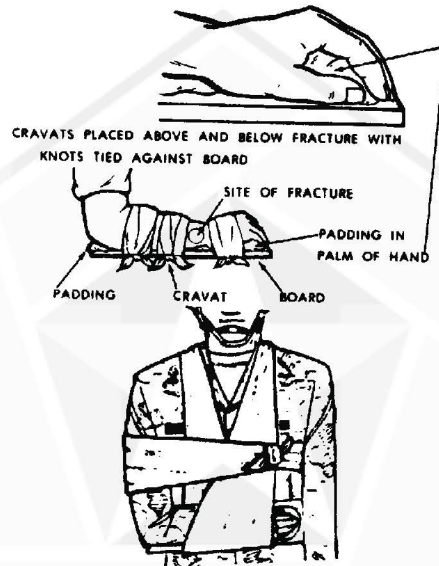


Fig 5-24. Board splint of wrist and hand.



Fig 5-25. Chest wall used as splint.

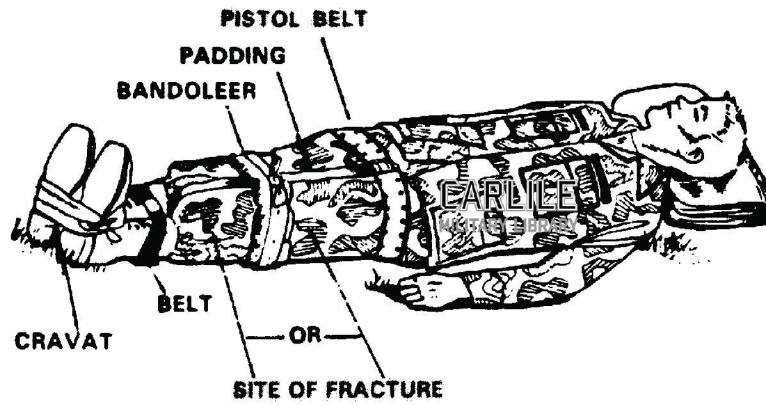


Fig 5-26. Uninjured leg used as splint.

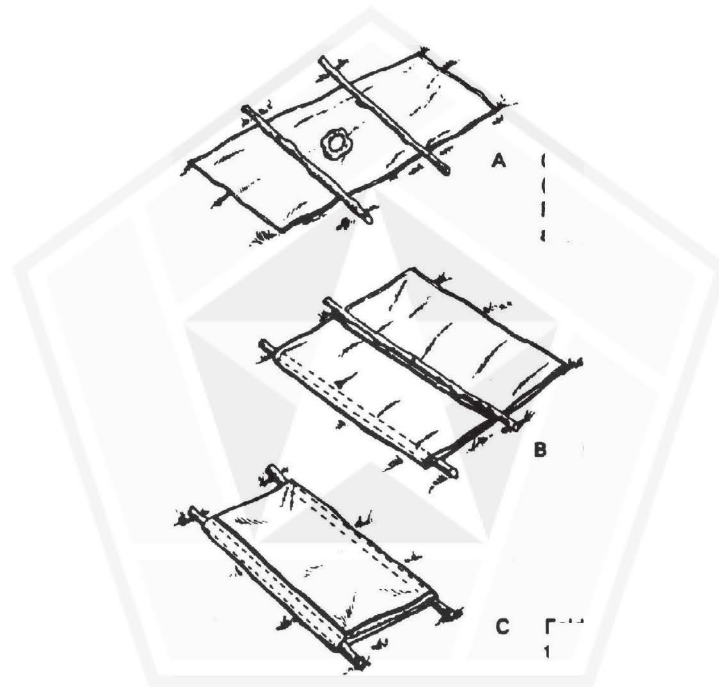
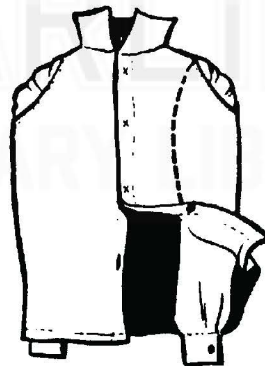


Fig 5-27. Improvised litter with poncho and poles.



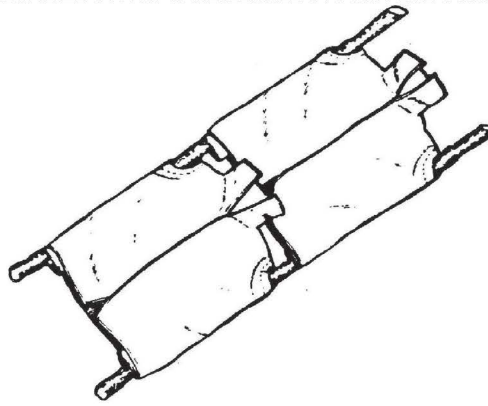


Fig 5-28. Litter made with poles and jackets.

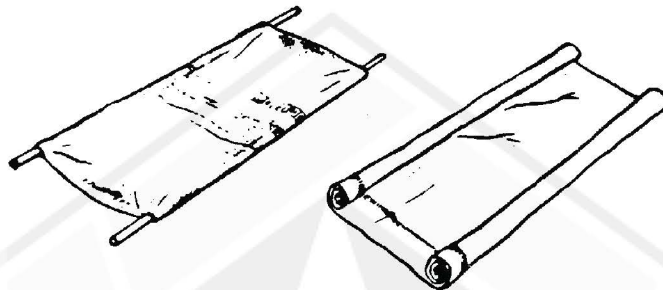


Fig 5-29. Litters made with poles/sacks and by rolling blanket.

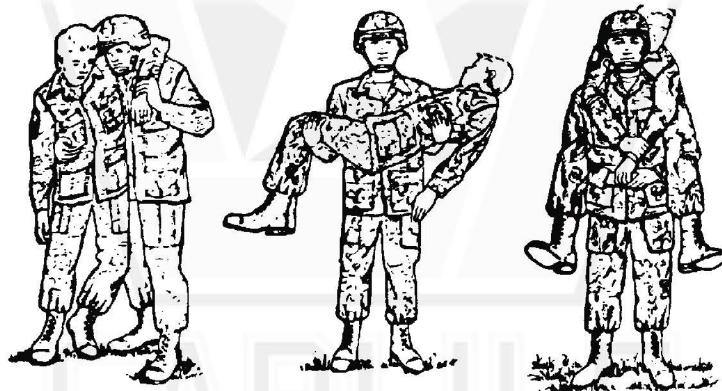


Fig 5-30. One-man carries.

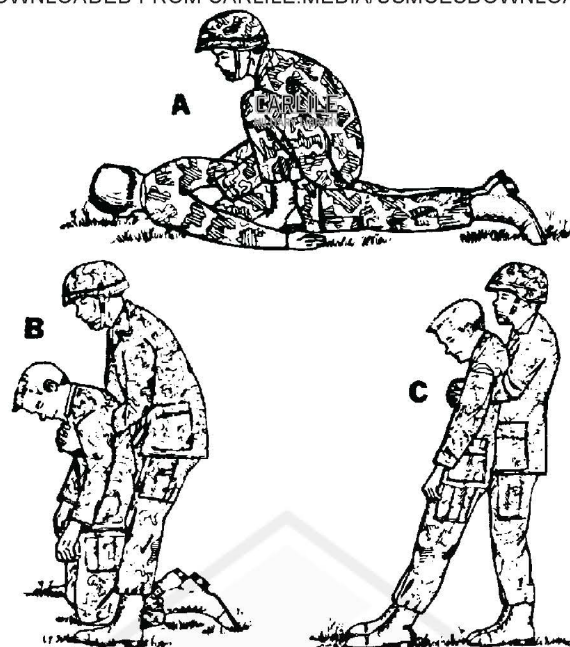


Fig 5-31. Fireman's carry.



Fig 5-31. Continued.

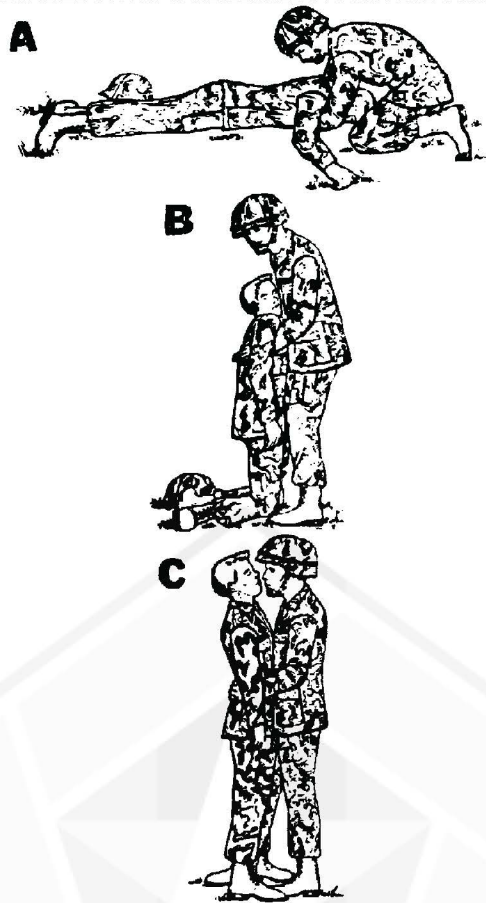


Fig 5-32. Alternate method of lifting for the fireman's carry.

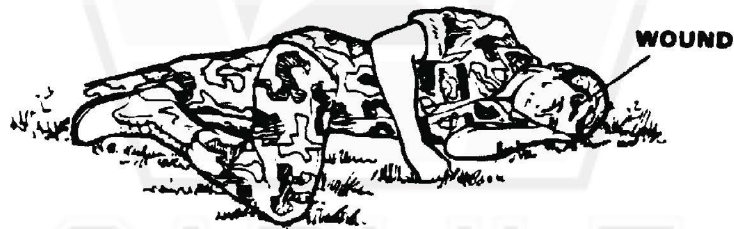


Fig 5-33. Casualty on opposite side of injury.



Fig 5-34. Field dressings on head injuries.

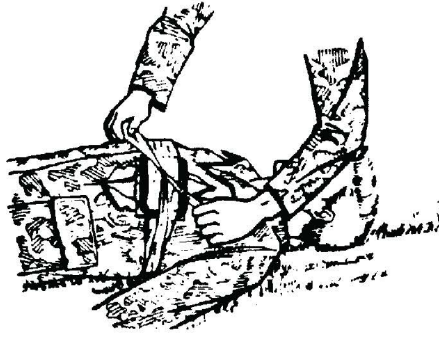


Fig 5-35. Nonslip knot over center of dressing.

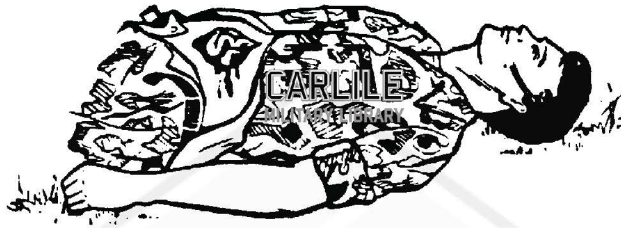


Fig 5-36. Protruding organs placed near wound.



Fig 5-37. Characteristics of nonpoisonous snakebites.

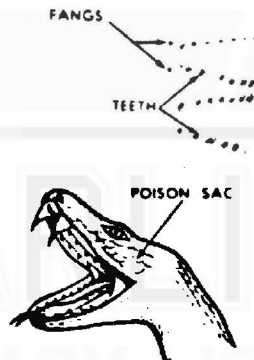


Fig 5-38. Characteristics of poisonous snakebites.

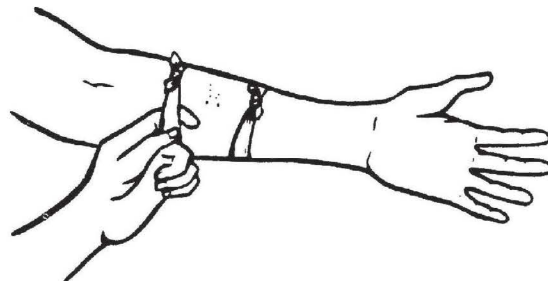


Fig 5-39. Constricting bands.

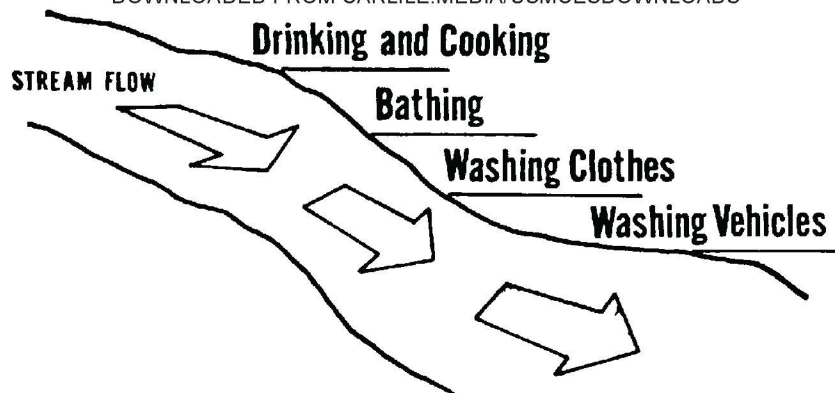


Fig 5-40. Drawing water.

Fig 5-41. Cleaning eating utensils.

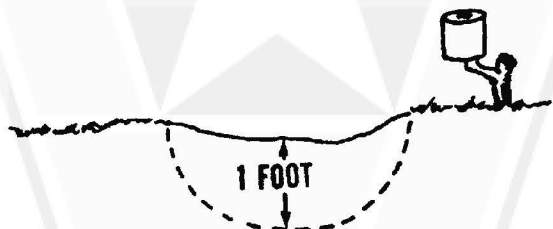
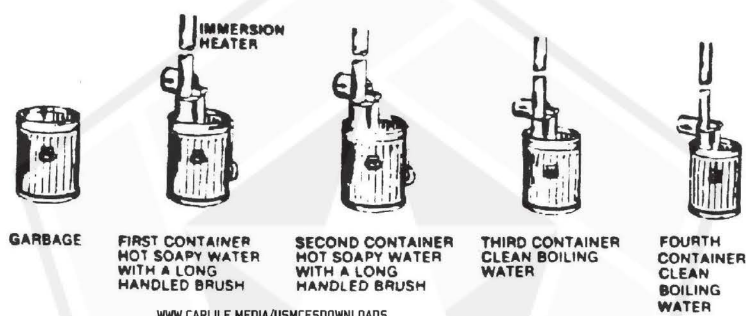


Fig 5-42. Cat hole.

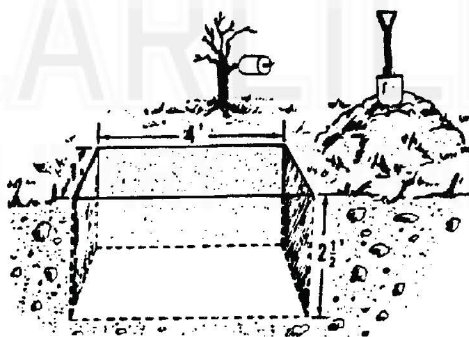


Fig 5-43. Straddle trench.

Fig 6-1. Field equipment and service rifle-bunk display. (See footnotes 1 and 2 on page 6-18 and 11, 12, 13, and 14 on page 6-19.)



Fig 6-2. Field equipment and pistol-bunk display. (See footnote 1 on page 6-18 and 11, 12, 13, and 14 on page 6-19.)

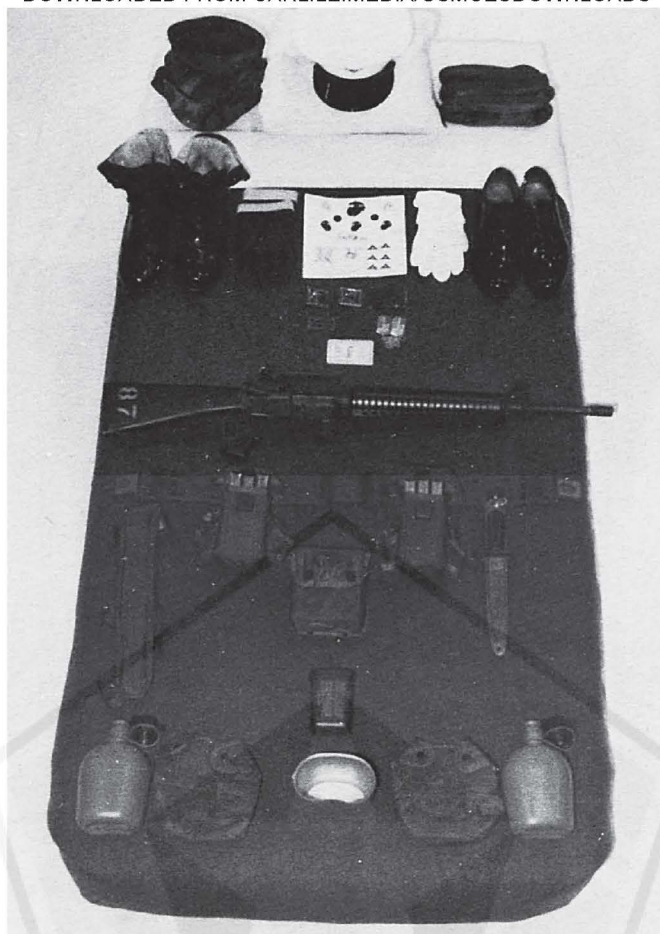


Fig 6-3. Garrison equipment and service rifle-bunk display. (See footnotes 1,2, 3, 4, and 5 on page 6-18.)



Fig 6-4. Garrison equipment and pistol-bunk display. (See footnotes 1,2, 3, 4, and 5 on page 6-18.)

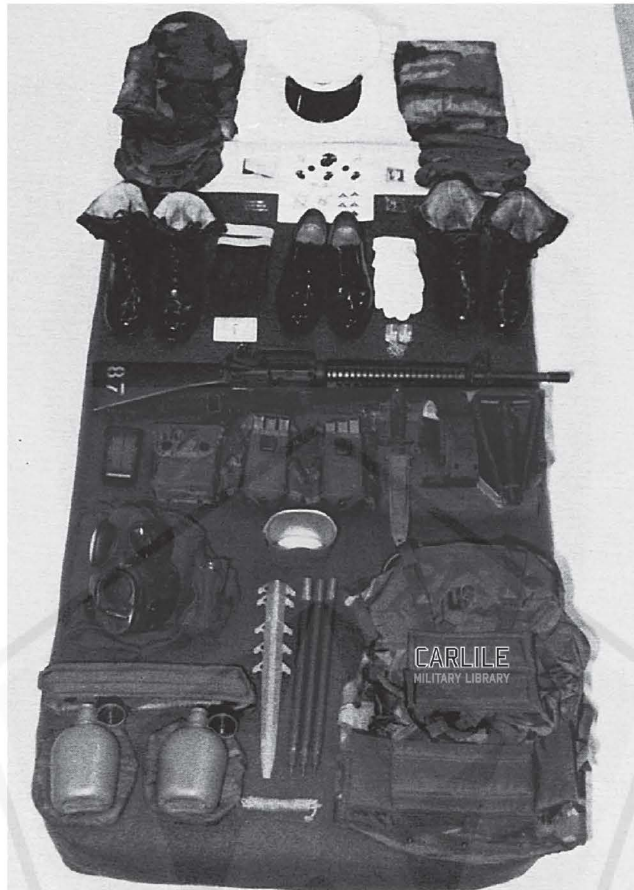


Fig 6-5. Field equipment, partial uniform clothing, and service rifle-bunk display. (See footnotes 1,2, 3, 4, and 5 on page 6-18 and 11, 12, 13, and 14 on page 6-19.)

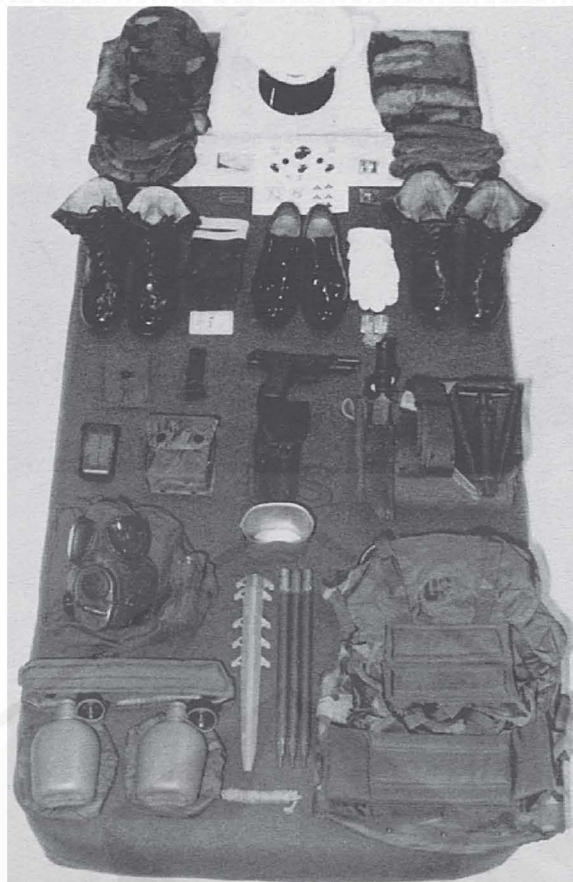


Fig 6-6. Field equipment, partial uniform clothing, and pistol-bunk display. (See footnotes 1,2, 3, 4, and 5 on page 6-18 and 11, 12, 13, and 14 on page 6-19.)

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Fig 6-7, Uniform clothing-BEQ wardrobe display. (See footnotes 3 and 6 on page 6-18.)



Fig 6-8. Field equipment and service rifle-field display. (See footnotes 1,2, and 8 on page 6-18 and 11,15, and 16 on page 6-19.)



Fig 6-9. Field equipment and pistol-field display. (See footnotes 1 and 8 on page 6-18 and 11, 15, and 16 on page 6-19.)

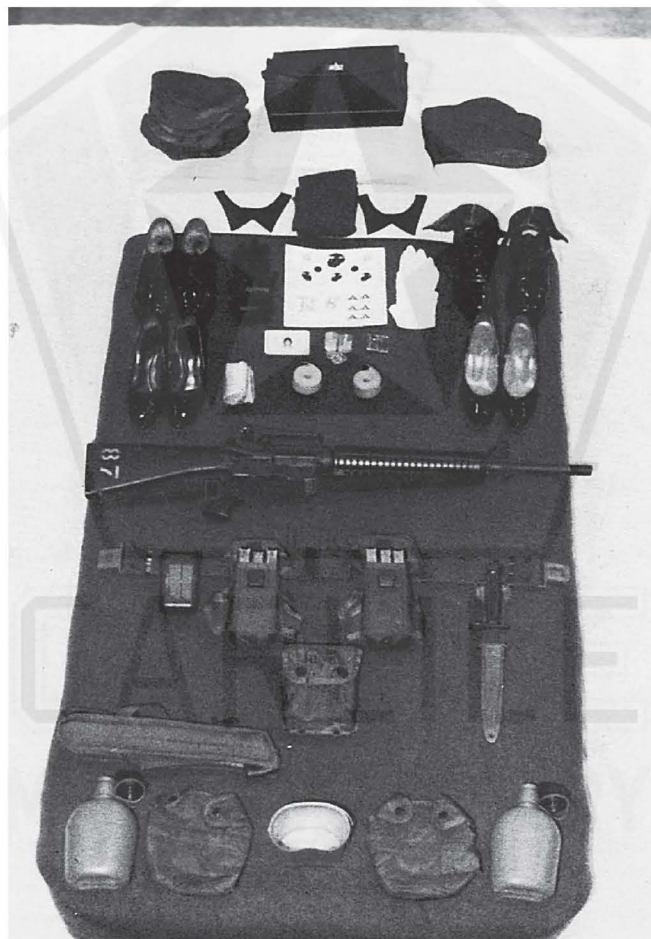


Fig 6-10. Garrison equipment and service rifle-bunk display. (See footnotes 1, 2, 3, 4, and 5 on page 6-18.)

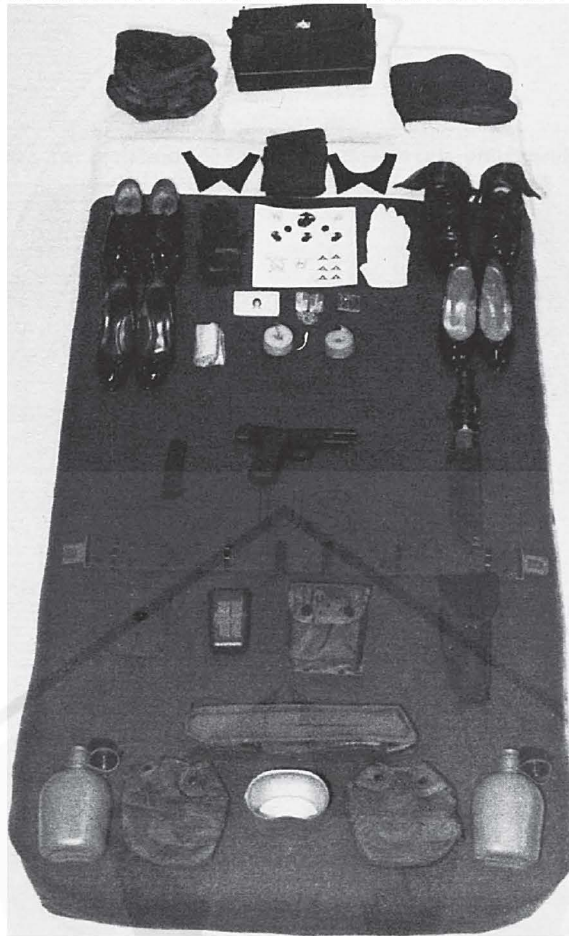


Fig 6-11. Garrison equipment and pistol-bunk display. (See footnoted 1,2, 3, 4, and 5 on page 6-18.)

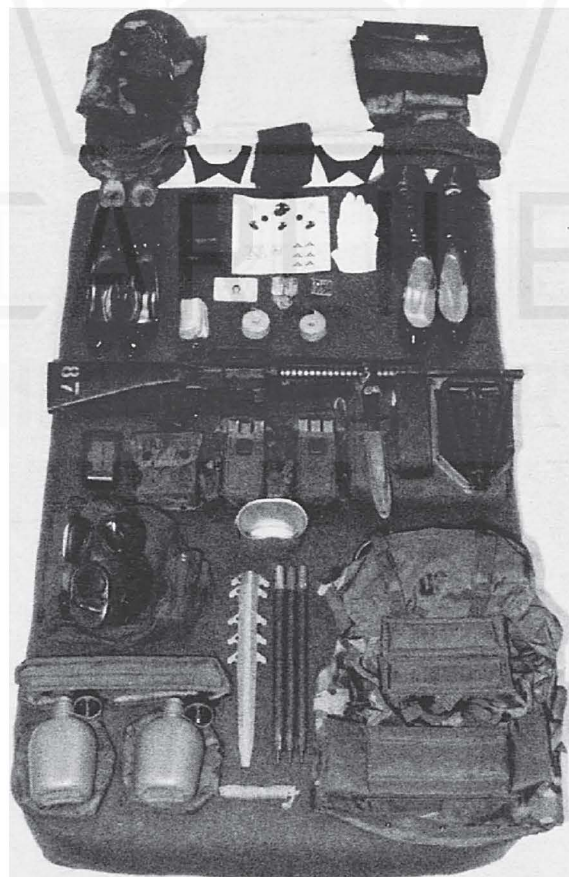


Fig 6-12. Field equipment, partial uniform clothing, and service rifle-bunk display. (See footnotes 1,2, 3,4, and 5 on page 6-18 and 11,12,13, and 14 on page 6-19.)



Fig 6-13. Field equipment, partial uniform clothing, and pistol-bunk display. (See footnotes 1,2,3, 4, and 5 on page 6-18 and 11, 12, 13, and 14 on page 6-19.)



Fig 6-14. Uniform clothing-BEQ wardrobe display. (See footnotes 3 and 10 on page 6-18.)

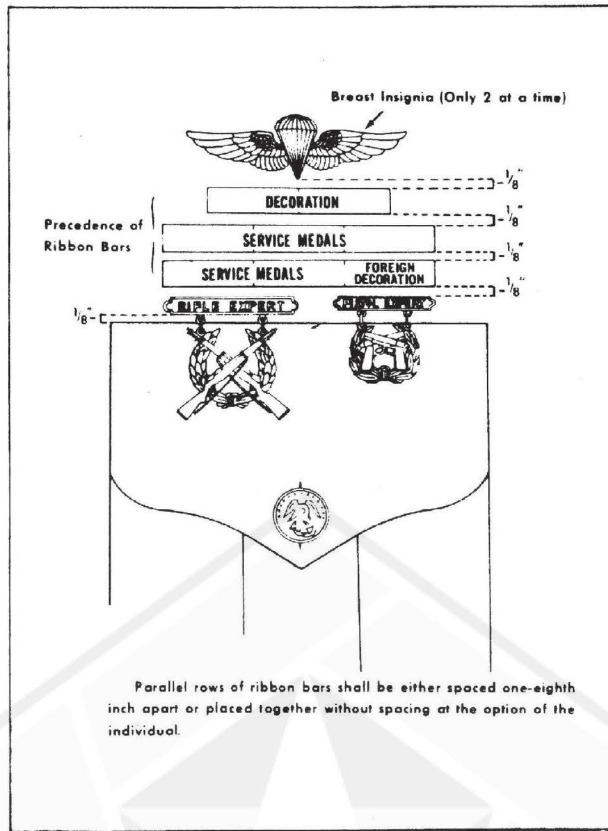


Fig 6-15. Proper wearing of ribbons and badges, (male Marines)

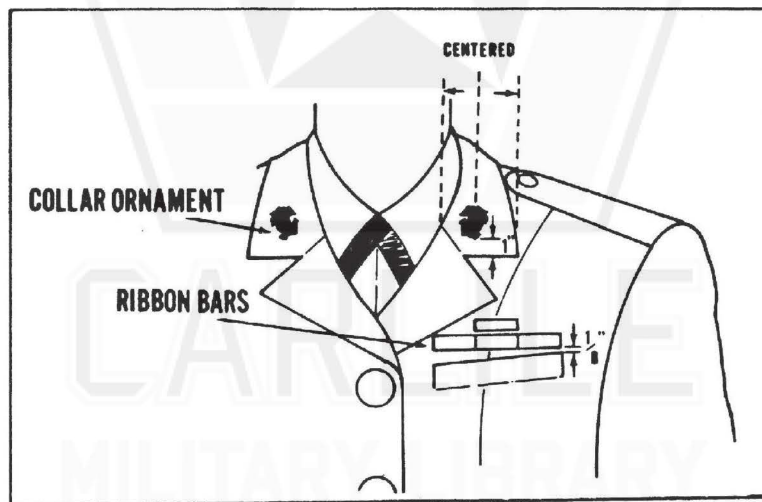


Fig 6-16. Proper wearing of ribbons, (female Marines)

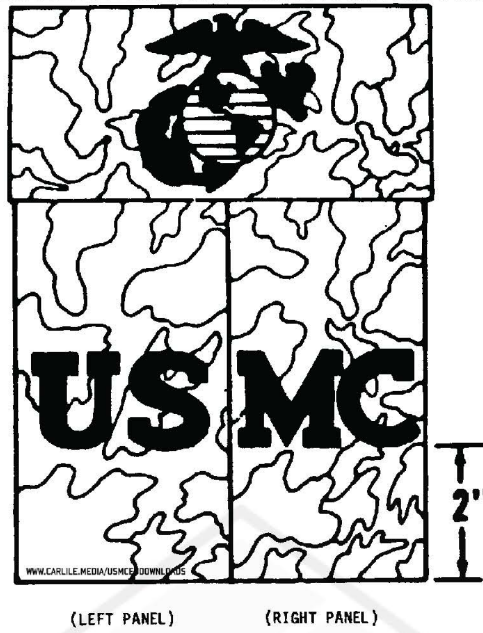


Fig 6-17. Placement of USMC decal on camouflage utilities, (with split pocket)

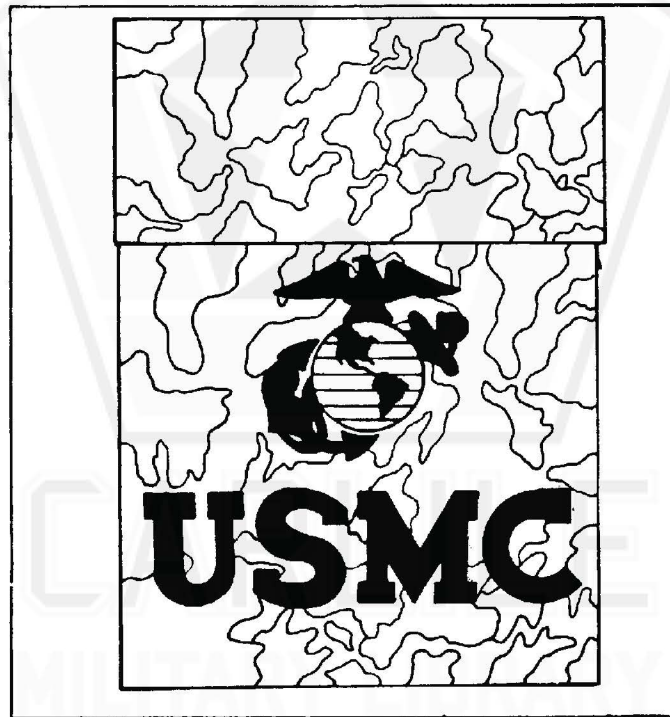


Fig 6-18. Placement of USMC decal on camouflage utilities, (w/out split pockets)

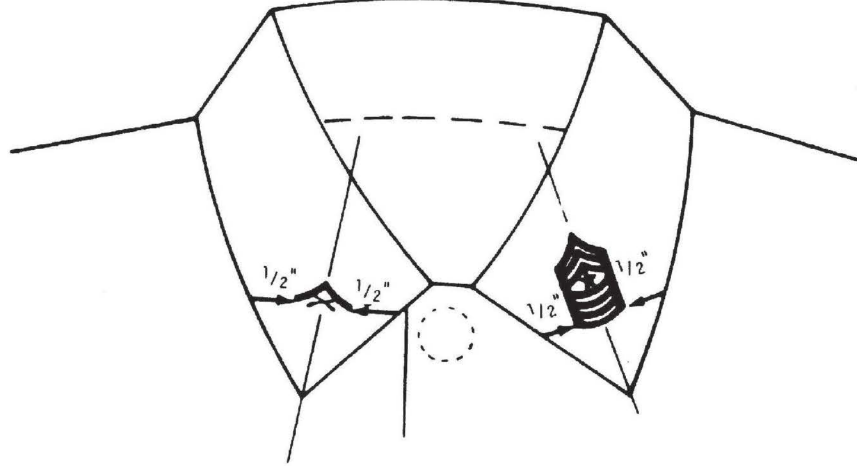


Fig 6-19. Insignia grade on collar.

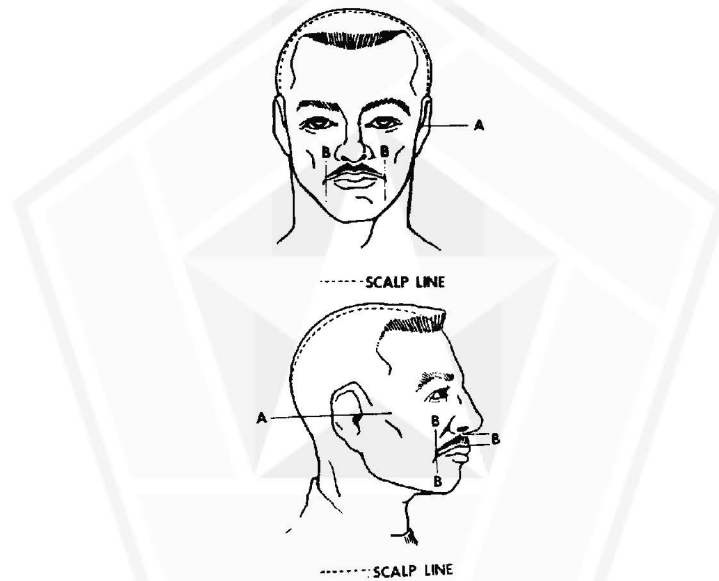


Fig 6-19. Frontal view of hair and mustache limits.

Fig 6-20. Side view of hair and view of hair and mustache limits.

Point system. The table below will be used to assign a point value to each of the three events. Maximum attainable score for any one event is 100 points, while 300 points represents a perfect score.

Example: 6 pullups = 30 points
 40 situps = 40 points
 23.50 run = 65 points

Total score 135 points

Points	Pullups	Situps	3-mile run	Points	Pullups	Situps	3-mile run	Points	Pullups	Situps	3-mile run	Points	Pullups	Situps	3-mile run
100	20	80	18:00	75	15		22:10	50	10	50	26:20	25	5	25	30:30
99			18:10	74		67	22:20	49		49	26:30	24		24	30:40
98		79	18:20	73			22:30	48		48	26:40	23		23	30:50
97			18:30	72		66	22:40	47		47	26:50	22		22	31:00
96		78	18:40	71			22:50	46		46	27:00	21		21	31:10
95	19		18:50	70	14	65	23:00	45	9	45	27:10	20	4	20	31:20
94		77	19:00	69			23:10	44		44	27:20	19		19	31:30
93			19:10	68		64	23:20	43		43	27:30	18		18	31:40
92		76	19:20	67			23:30	42		42	27:40	17		17	31:50
91			19:30	66		63	23:40	41		41	27:50	16		16	32:00
90	18	75	19:40	65	13		23:50	40	8	40	28:00	15	3	15	32:10
89			19:50	64		62	24:00	39		39	28:10	14		14	32:20
88		74	20:00	63			24:10	38		38	28:20	13		13	32:30
87			20:10	62		61	24:20	37		37	28:30	12		12	32:40
86		73	20:20	61			24:30	36		36	28:40	11		11	32:50
85	17		20:30	60	12	60	24:40	35	7	35	28:50	10	2	10	33:00
84		72	20:40	59		59	24:50	34		34	29:00	9		9	33:10
83			20:50	58		58	25:00	33		33	29:10	8		8	33:20
82		71	21:00	57		57	25:10	32		32	29:20	7		7	33:30
81			21:10	56		56	25:20	31		31	29:30	6		6	33:40
80	16	70	21:20	55	11	55	25:30	30	6	30	29:40	5	1	5	33:50
79			21:30	54		54	25:40	29		29	29:50	4		4	34:00
78		69	21:40	53		53	25:50	28		28	30:00	3		3	34:30
77			21:50	52		52	26:00	27		27	30:10	2		2	35:00
76		68	22:00	51		51	26:10	26		26	30:20	1		1	36:00

Fig 7-3. Performance chart (men).

Maximum attainable score for any one event is 100 points, while 300 points represents a perfect score.

Example: Flexed Arm Hang 45 seconds = 50 points
 30 situps = 60 points
 13:50 run = 54 points
 Total score 164 points

Points	Flexed Arm Hang	Situps	1 1/2 Mile Run	Points	Flexed Arm Hang	Situps	1 1/2 Mile Run	Points	Flexed Arm Hang	Situps	1 1/2 Mile Run	Points	Flexed Arm Hang	Situps	1 1/2 Mile Run
100	70	50	10:00	75			12:05	50	45	25	14:10	25	25		16:15
99			:05	74	57	37	:10	49			:15	24	24	12	:20
98	69	49	:10	73			:15	48	44	24	:20	23	23		:25
97		:15		72	56	36	:20	47			:25	22	22	11	:30
96	68	48	:20	71			:25	46	43	23	:30	21	21		:35
95		:25		70	55	35	:30	45			:35	20	20	10	:40
94	67	47	:30	69			:35	44	42	22	:40	19	19		:45
93		:35		68	54	34	:40	43			:45	18	18	9	:50
92	66	46	:40	67			:45	42	41	21	:50	17	17		:55
91		:45		66	53	33	:50	41			14:55	16	16	8	17:00
90	65	45	:50	65			12:55	40	40	20	15:00	15	15		:10
89		10:55		64	52	32	13:00	39	39		:05	14	14	7	:20
88	64	44	11:00	63			:05	38	38	19	:10	13	13		:30
87		:05		62	51	31	:10	37	37		:15	12	12	6	:40
86	63	43	:10	61			:15	36	36	18	:20	11	11		17:50
85		:15		60	50	30	:20	35	35		:25	10	10	5	18:00
84	62	42	:20	59			:25	34	34	17	:30	9	9		:10
83		:25		58	49	29	:30	33	33		:35	8	8	4	:20
82	61	41	:30	57			:35	32	32	16	:40	7	7		:30
81		:35		56	48	28	:40	31	31		:45	6	6	3	:40
80	60	40	:40	55			:45	30	30	15	:50	5	5		18:50
79		:45		54	47	27	:50	29	29		15:55	4	4	2	19:00
78	59	39	:50	53			13:55	28	28	14	16:00	3	3	1	:30
77		11:55		52	46	26	14:00	27	27		:05	2	2	1	20:00
76	58	38	12:00	51			:05	26	26	13	:10	1	1		:30

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Fig 7-4. Performance chart (women).

Figure 7.3 and 7.4. Performance charts (men and women).

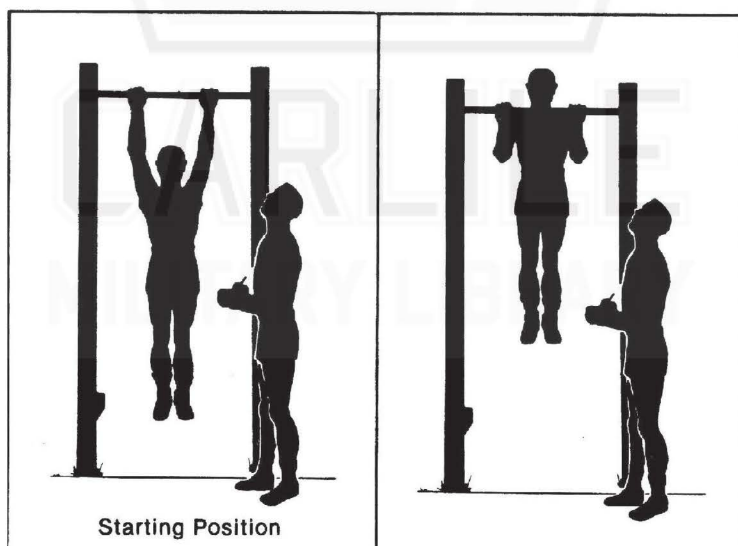


Fig 7-5. Pullups.

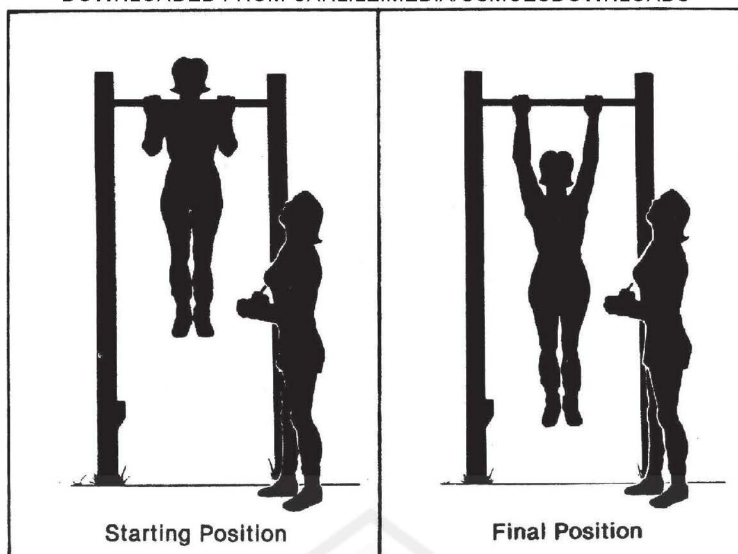


Fig 7-6. Flexed arm hang.

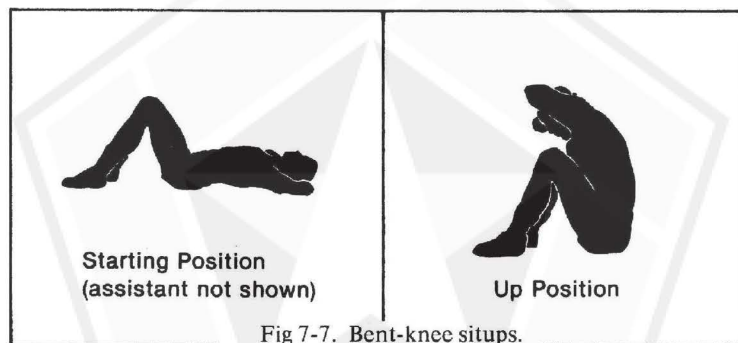


Fig 7-7. Bent-knee situps.

Fig 7.7. Bent-knee situps

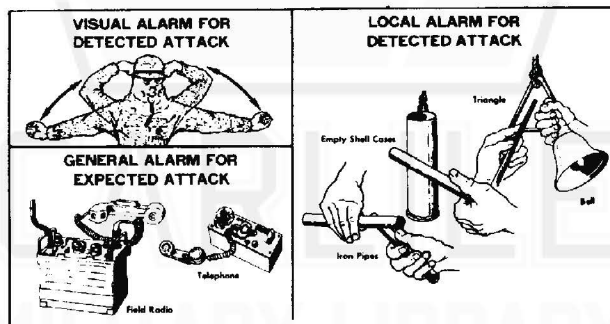


Fig 8-1. Alarm systems for chemical or biological attack.

Fig 8.1. Alarm systems for chemical or biological attack.

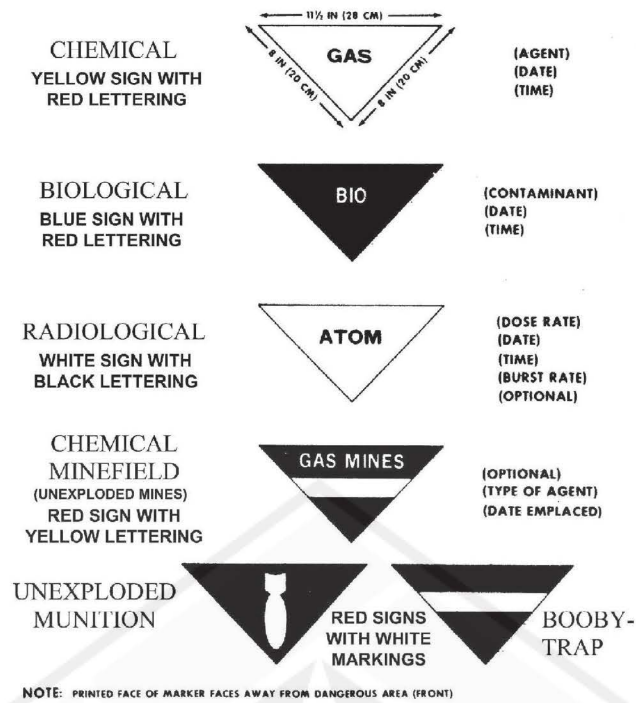


Fig 8-2. Markers for contaminated or dangerous land areas.





Fig 8-3. Donning the mask.

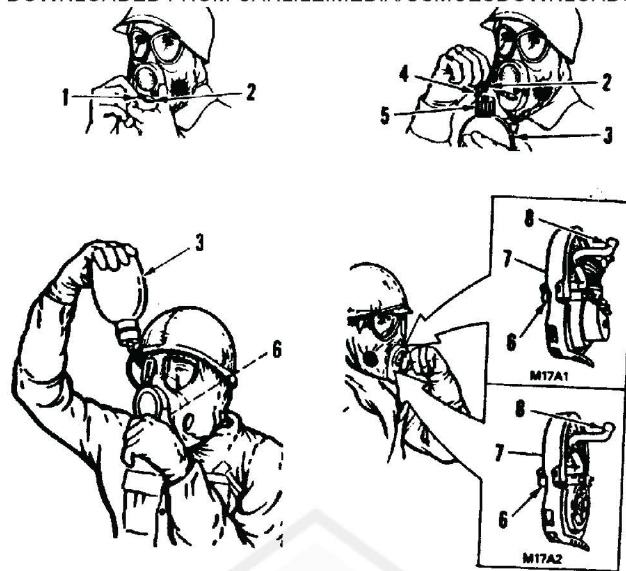


Fig 8-4. Drinking while masked.



Fig 8-5. Disconnecting the drinking system.

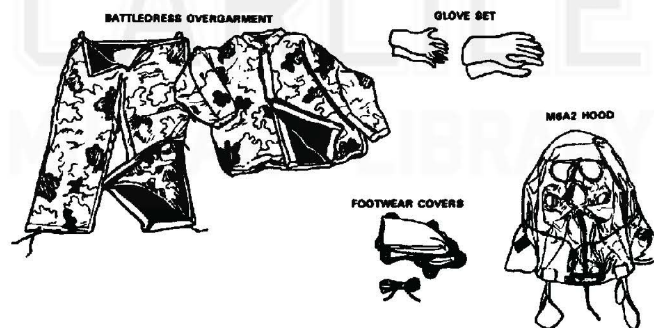


Fig 8-6. MOPP gear.

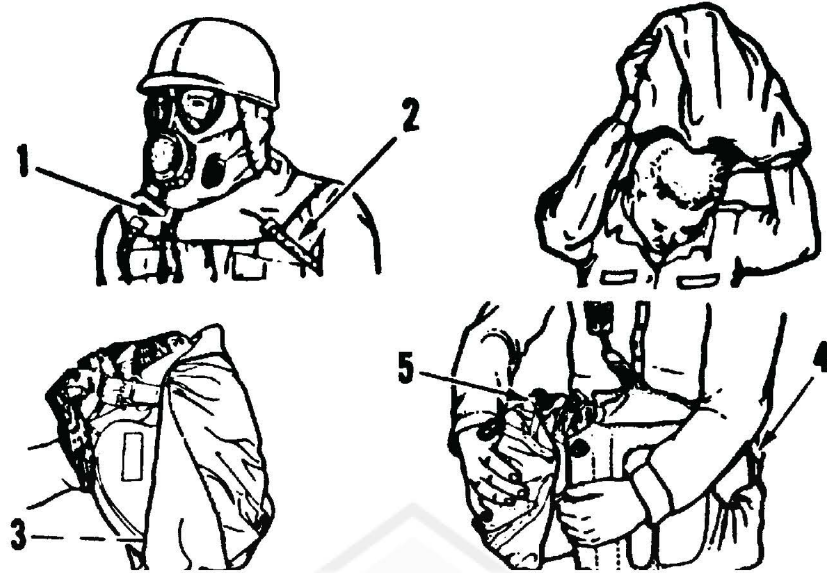


Fig 8-7. Unmasking.



Fig 8-8. Action at the command "SPRAY."

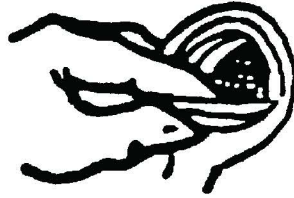


Fig 8-9. Removing filter elements.

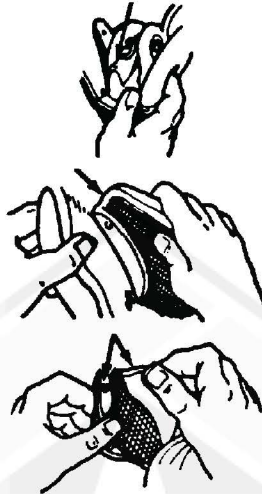


Fig 8-9. Continued.

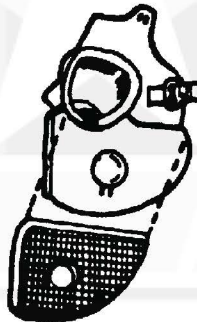
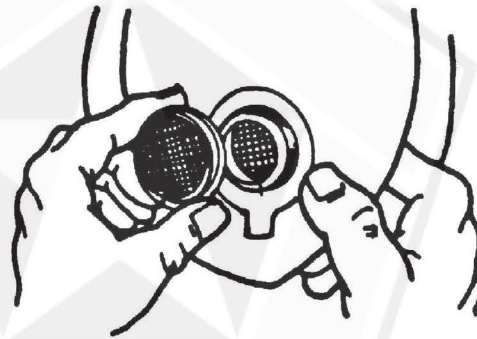


Fig 8-10. Installing filter elements.





Fig 8-10. Continued.



j. Install inlet valves.

Fig 8-10. Continued.



Fig 8-11. No-warning reaction position.

1. Move into the nearest fighting hole or shelter. Stay as low as possible.

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Move into the nearest
fighting hole or
shelter. Stay as low as
possible.

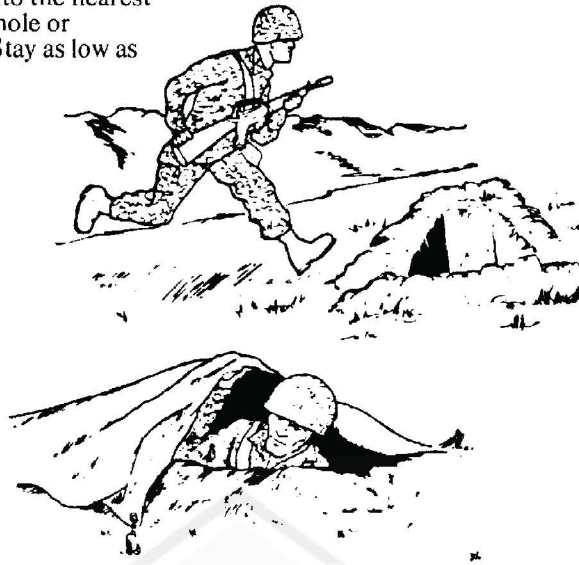
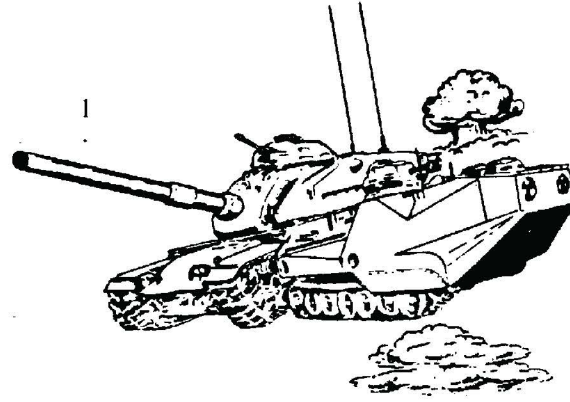


Fig 8-12. With-warning reaction position.



Fig 8-12. Continued.



Culverts are excellent protection.

Culverts are excellent protection.

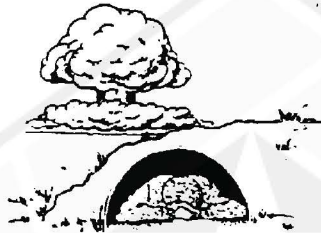


Fig 8-13. Excellent protection shelters.

Deep fighting holes are very good protection.

Deep fighting holes are very good protection.

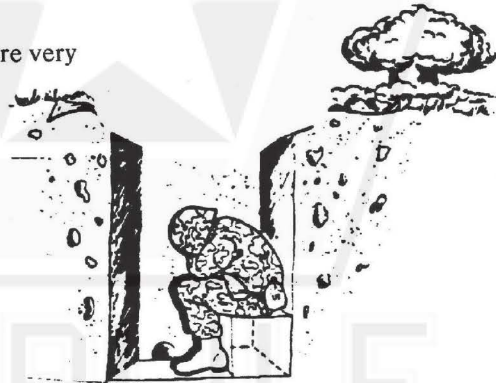
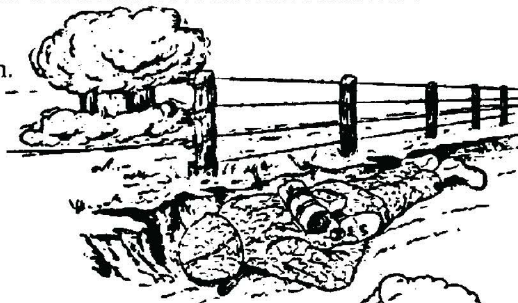


Fig 8-14. Very good protection shelter.

Good Protection
Ditches are good protection.
Hills are good protection.

3. Good Protection

Ditches are good protection.



Hills are good protection.



Fig 8-15. Good protection shelters.



Fig 8-16. Fair protection shelter.

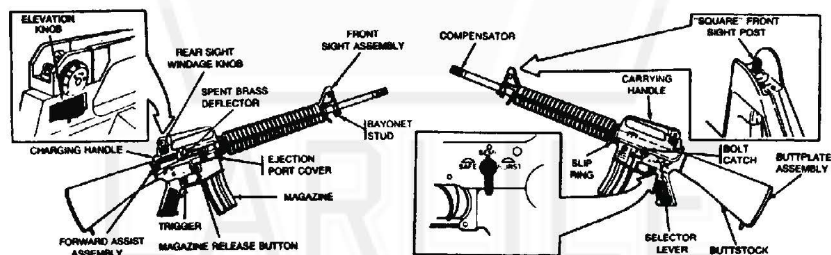


Fig 9-1. Nomenclature.

Fig 9-2. Removal of the handguards.



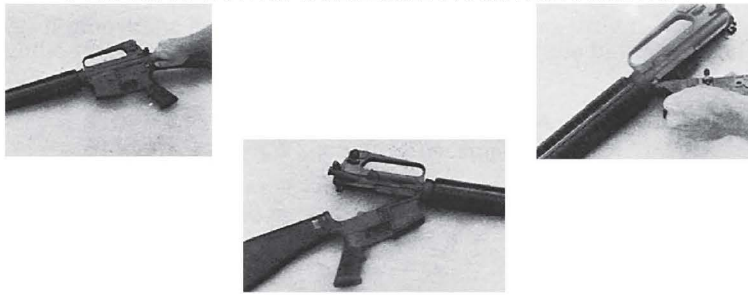


Fig 9-3. Pressing of the takedown pin.

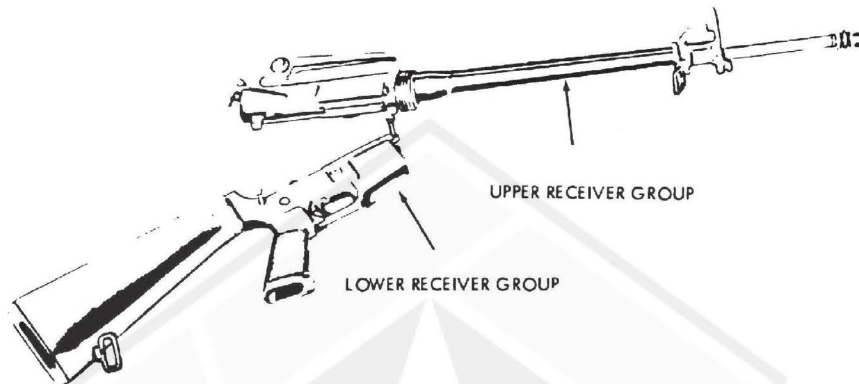


Fig 9-4. Main groups.

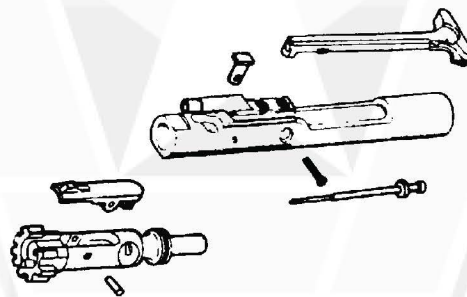


Fig 9-5. Bolt carrier group.

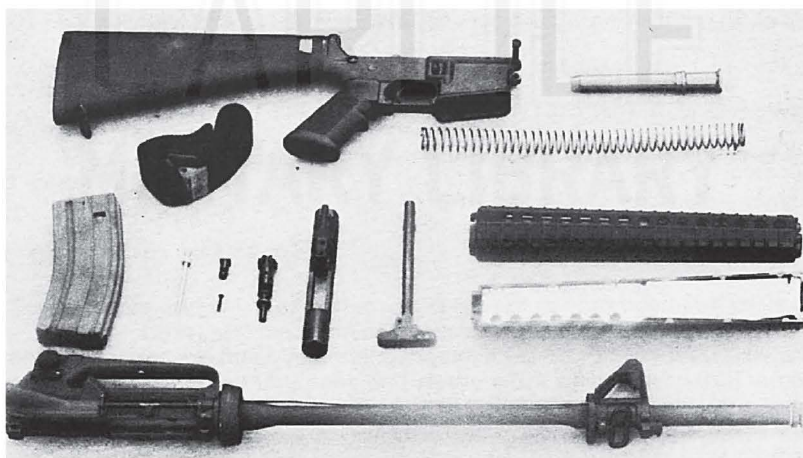


Fig 9-6. Field stripped M16A2 rifle.

Fig 9-7. Proper steps for cleaning the bore.

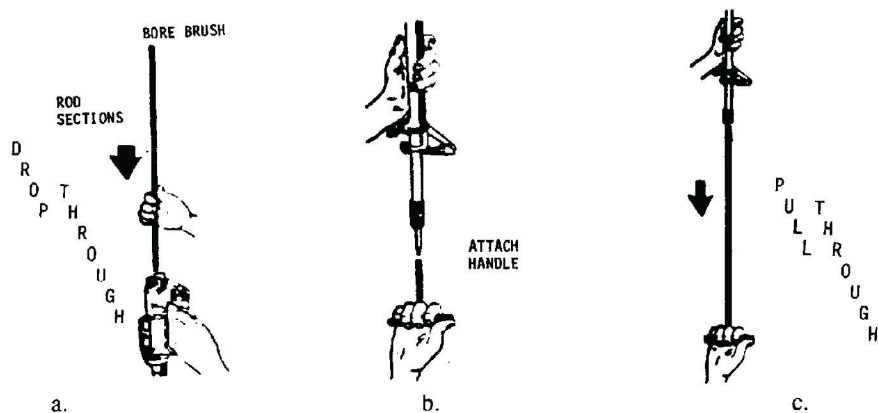


Fig 9-7. Proper steps for cleaning the bore.



Fig 9-8. Clean chamber.

Fig 9-8. Clean chamber.

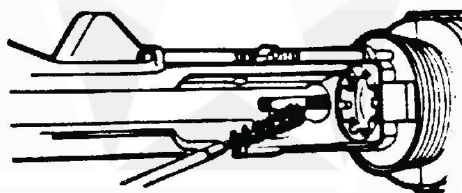


Fig 9-9. Clean gas extension.

Fig 9-9. Clean gas extension.

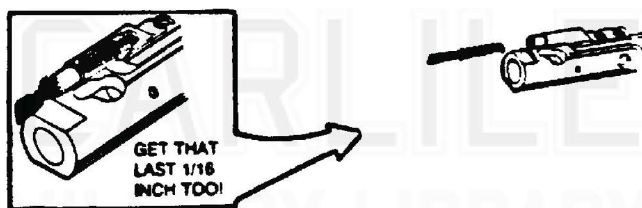


Fig 9-10. Clean carrier key.

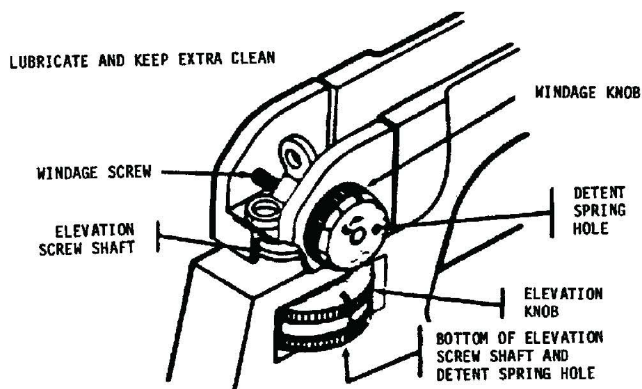


Fig 9-11. Lubricating the rear sight.

PROBLEM	CHECK FOR	WHAT TO DO
WON'T FIRE	Selector lever on SAFE.	Put it on SEMI or BURST
	Improper assembly of firing pin.	Assemble correctly. Retaining pin goes in back of large shoulder of firing pin.
	Too much oil in firing pin recess.	Wipe out with pipe cleaner.
	Defective ammo.	Remove and discard.
	Too much carbon on firing pin or in firing pin recess.	Clean.
BOLT WON'T UNLOCK	Dirty or burred bolt.	See your NCO or unit armorer.
WON'T EXTRACT	Broken extractor spring.	See your armorer.
	Dirty or corroded ammo	Remove. Push out stuck round with cleaning rod.
	Carbon in chamber.	Clean chamber.
	Fouling or carbon in extractor recess or lip.	Clean.
WON'T FEED	Dirty or corroded ammo.	Clean.
	Dirty magazine.	Clean.
	Defective magazine.	Replace.
	Too many rounds in the magazine.	Take out excess.
	Action of buffer assembly is restricted.	Take out buffer and spring and clean.

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PROBLEM	CHECK FOR	WHAT TO DO
WON'T FEED (continued)	Magazine not fully seated.	Adjust magazine catch. Press button on right side, turn catch on left side clockwise to tighten and counterclockwise to loosen.
DOUBLE FEED	Defective magazine.	Replace.
WON'T CHAMBER	Dirty or corroded ammo.	Clean.
	Damaged ammo.	Replace.
	Carbon in chamber or on gas tube	Clean
WON'T LOCK	Dirt, corrosion, or carbon buildup in barrel locking lugs.	Clean lugs.
WON'T EXTRACT	Frozen extractor.	Remove and clean.
	Restricted buffer assembly.	Remove and clean.
	Restricted movement of bolt carrier group.	Remove, clean, and lube. Before putting bolt back in, ensure gas tube fits into carrier key and that the carrier moves freely
SHORT RECOIL	Gaps in bolt rings (not staggered).	Stagger ring gaps.
	Carbon or dirt in carrier key or on outside of gas tube.	Clean.
	Q-Tip stuck inside carrier key (check with pipe cleaner).	See your armorer.

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PROBLEM	CHECK FOR	WHAT TO DO
BOLT FAILS TO LOCK AFTER LAST ROUND	Dirty or corroded bolt latch.	Clean.
	Faulty magazine.	Replace.
SELECTOR	Needs oil.	Lubricate with CLP.
LEVER BINDS	Dirt or sand under trigger.	Clean.
BOLT CARRIER "HUNG UP"	Round jammed between bolt and charging handle and/or double feed.	Remove magazine. Push in on the bottom of the bolt latch.

WARNING: KEEP CLEAR OF THE MUZZLE.

Bang rifle butt on the ground.
Bolt should lock to the rear.

CAUTION: AFTER ROUND IS REMOVED, BOLT IS UNDER TENSION.

While bolt is held to the rear, round should fall through magazine well.

NOTE: IF THIS PROCEDURE FAILS, USE A SECTION OF CLEANING ROD TO PUSH BOLT FULLY TO THE REAR THROUGH EJECTION PORT.



Fig 9-12. Front sight mechanical zero.

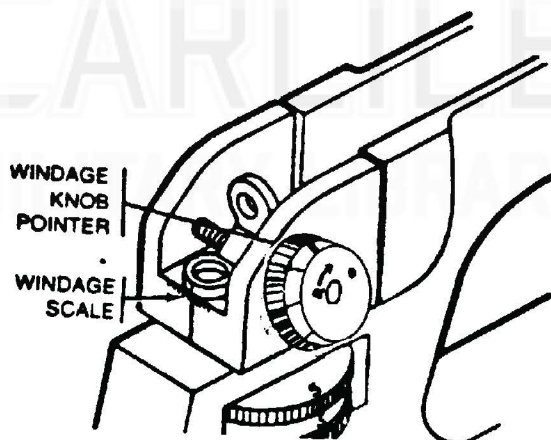


Fig 9-13. Windage mechanical zero.

Fig 9-14. 25-meter zeroing target.

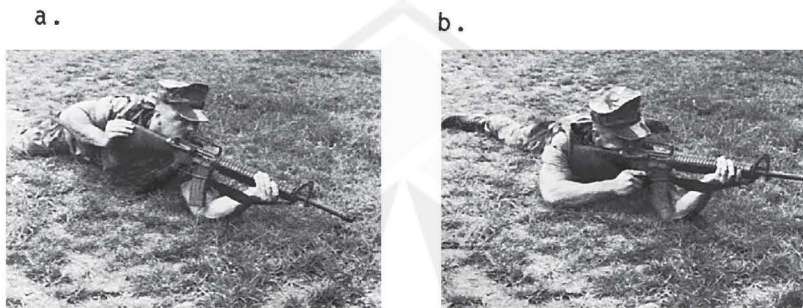
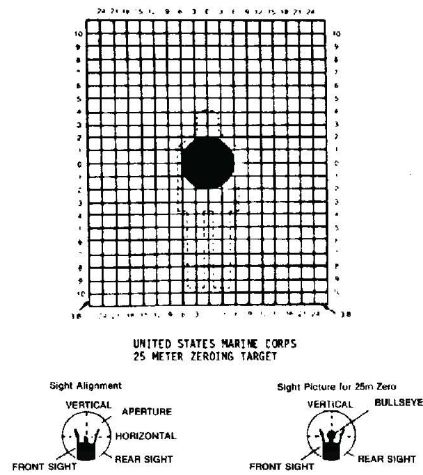


Fig 9-15. Assuming the prone firing position.

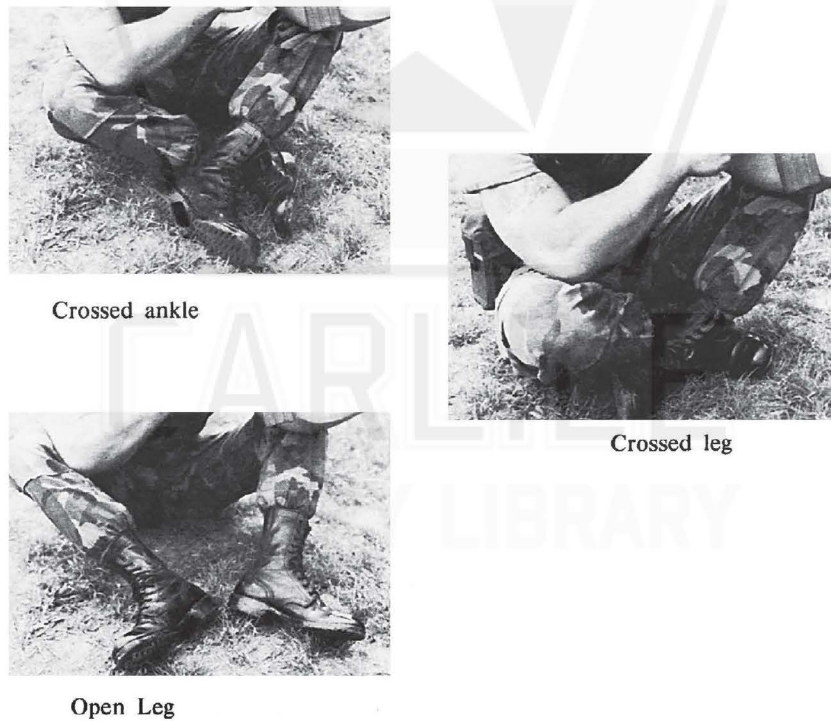


Fig 9-16. Sitting position.

Fig 9-17. Kneeling position.



High kneeling



Medium kneeling



Low kneeling



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b.



Fig 9-18. Assuming a standing position.

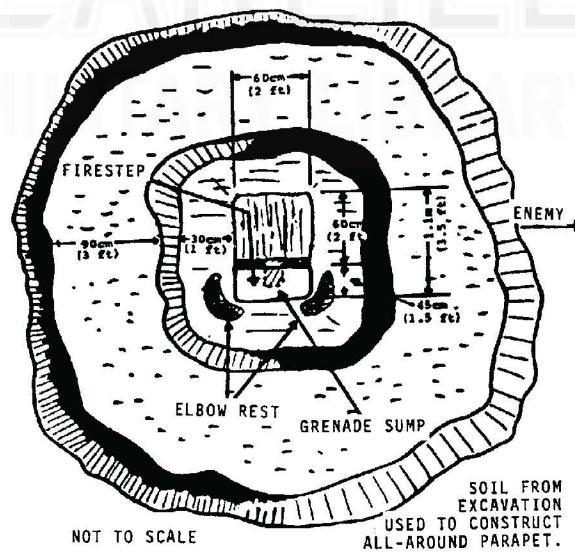


Fig 10-1. One-man fighting hole without overhead protection.

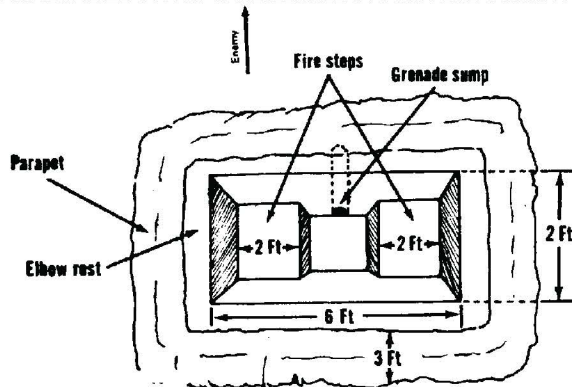


Fig 10-2. Two-man fighting hole (overhead view).



Fig 10-3. Techniques of camouflaging the helmet.



Fig 10-4. Camouflaging the face.

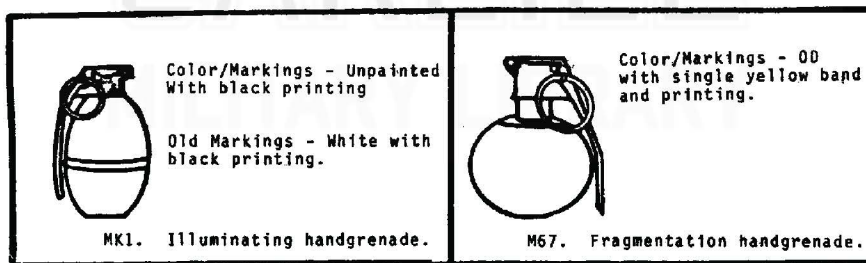


Fig 10-5. Handgrenades.

Fig 10-6. Grenade nomenclature.

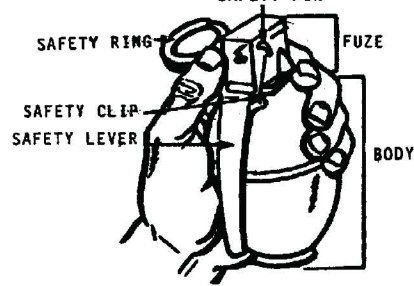


Fig 10-6. Grenade nomenclature.

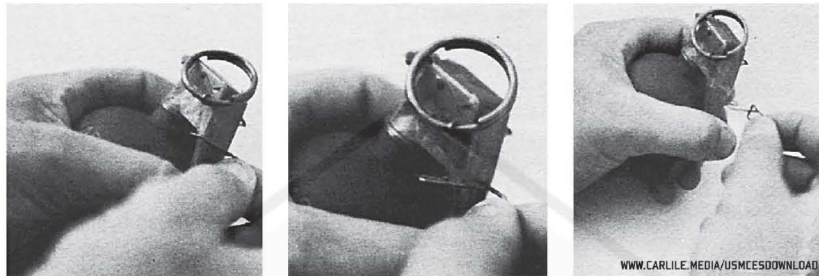
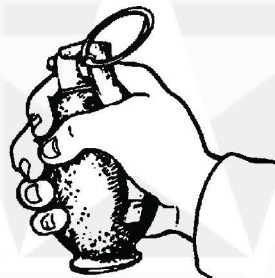
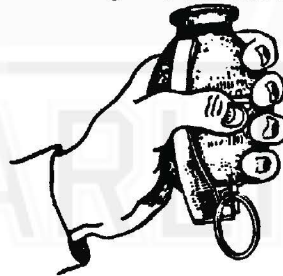


Fig 10-7. Removing the safety clip.



Right-handed thrower



Left-handed thrower

Fig 10-8. Holding the grenade.





Fig 10-9. Standing position.



Fig 10-10. Kneeling position.



Fig 10-11. Prone to kneeling.





Fig 10-12. Alternate prone.



Fig 10-12. Continued.

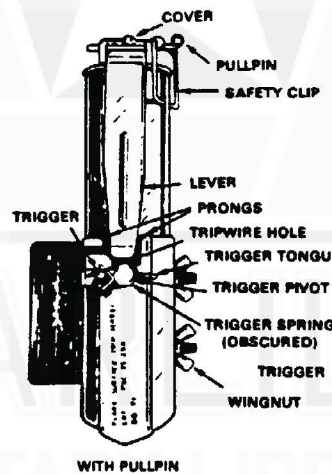


Fig 10-13. M49A1 tripflare.

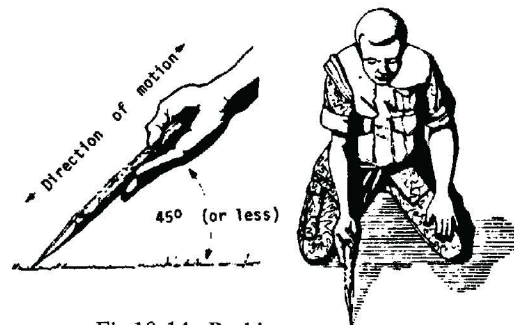
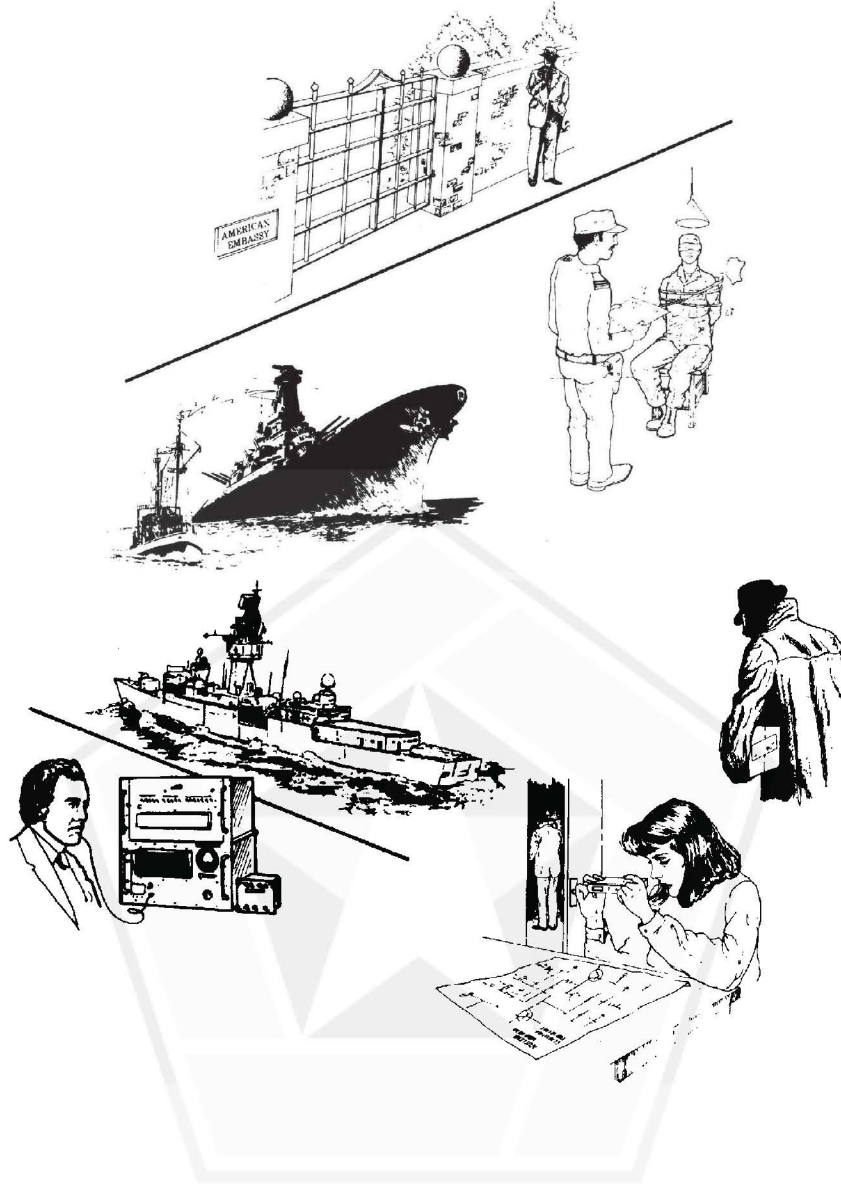


Fig 10-14. Probing.

Fig 10-4. Probing.



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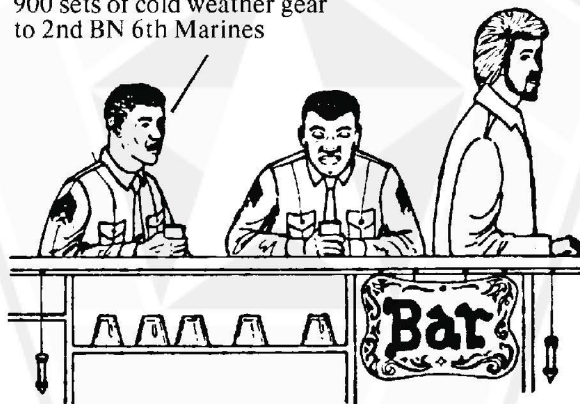
Bill's unit is leaving for Norway for a five-week operation



Well, Business should be slow for you all next week with 2/6 leaving Monday.



Man, what a day, we had to issue 900 sets of cold weather gear to 2nd BN 6th Marines



ROADS	
Divided highway with median strip	
Primary all weather, hard surface, two or more lanes wide	
Secondary all weather, hard surface, two or more lanes wide	
Light duty, all weather, hard or improved surface	
Fair or dry weather, unimproved surface	
Trail	
Route markers: Interstate, Federal, State	
RAILROADS (Standard gauge: 1.44m-4.8 1/2')	
Single track	
Multiple track	
Multiple track, non-operating	
Railroad station: Position known; Position unknown	
Car line	
BOUNDARIES	
National	
State, territory	
County, parish, municipio	
Civil township, precinct, town, barrio	
Incorporated city, village, town, hamlet	
Reservation: National, state, Military	
Power transmission line	
Buildings or structures	
Church, School	
Watermill	
Windmill, wind pump	
Mine, vertical shaft	
Mine, horizontal shaft	
Open pit mine or quarry, inactive	
Open pit mine or quarry, active	
Horizontal control station	
Bench mark, monumented	
Bench mark, non-monumented	
Spot elevations in meters: Checked; Unchecked	
Woodland	
Vineyard, Orchard	
Intermittent lake	
Intermittent stream; Dam	
Marsh or swamp	
Rapids; Falls	
Large rapids; Large falls	

Fig 13-1. Map legend.

Fig 13-2. Manmade features.

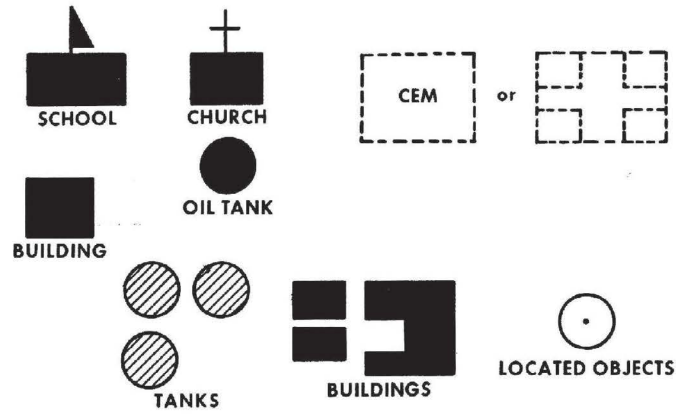


Fig 13-3. Water features.

Fig 13-4. Trees and vegetation.

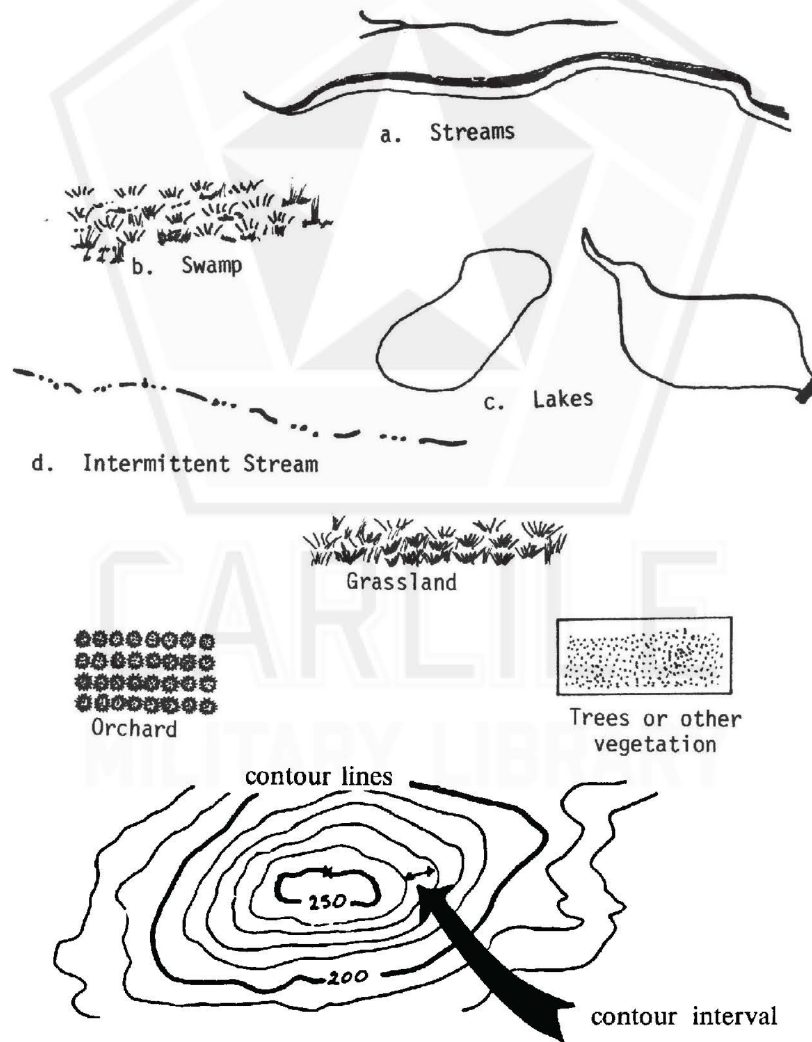


Fig 13-5. Contour lines.



Fig 13-6. Hill.

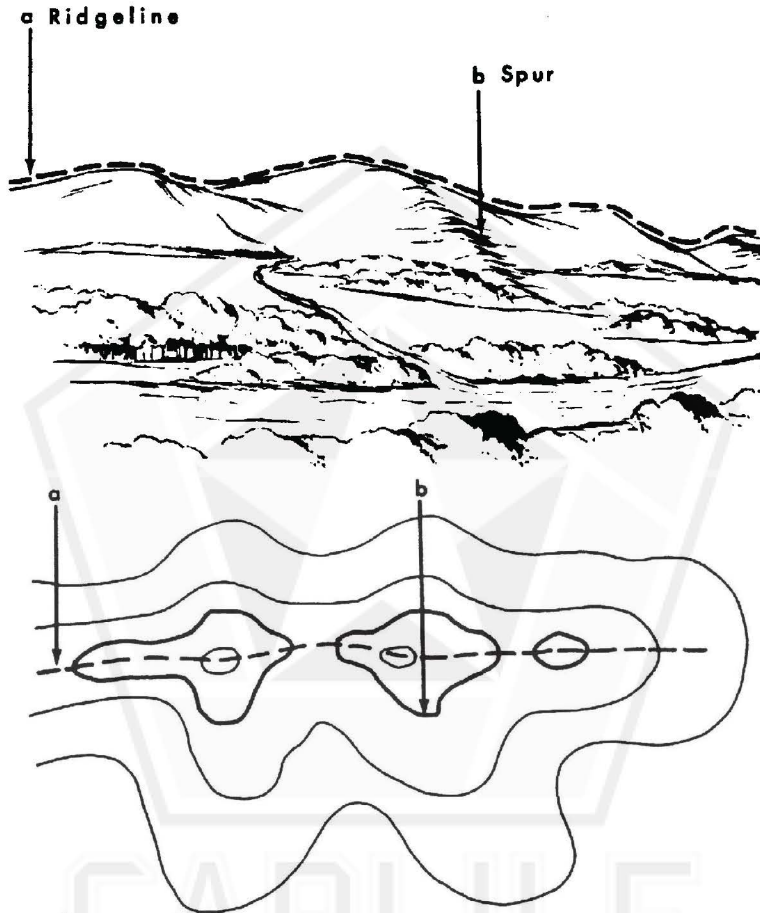
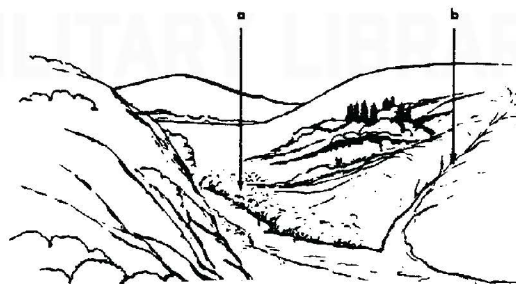


Fig 13-7. a. Ridge, b. Spur.



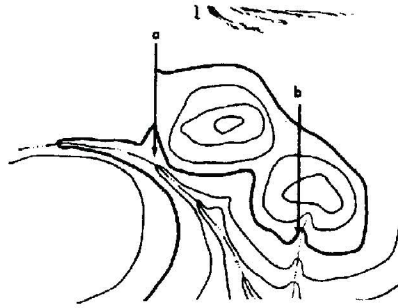


Fig 13-8. a. Valley, b. Draw.

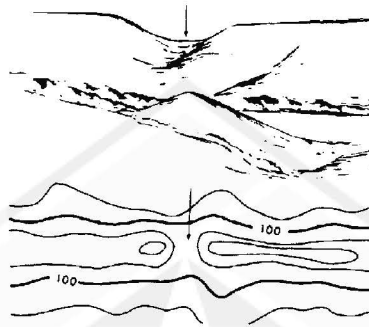


Fig 13-9. Saddle.

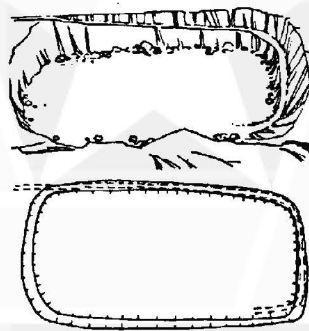


Fig 13-10. Depression.

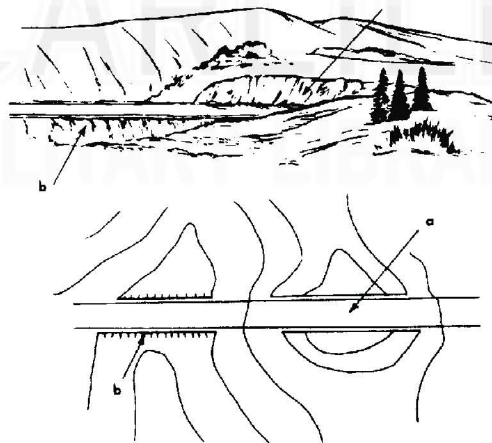


Fig 13-11. a. Cut. b. Fill.



Fig 13-12. Cliff.

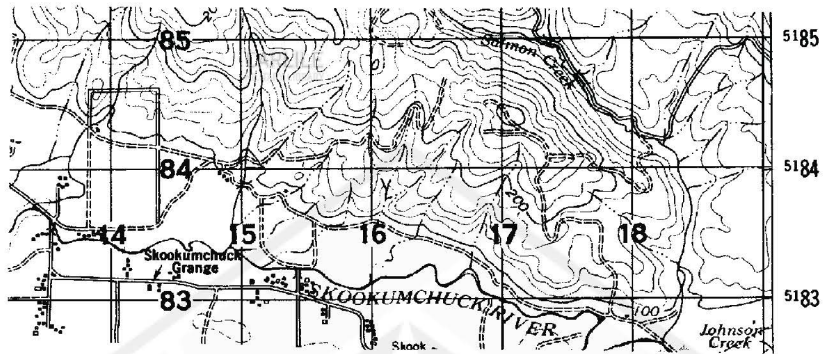


Fig 13-13. Grid squares.

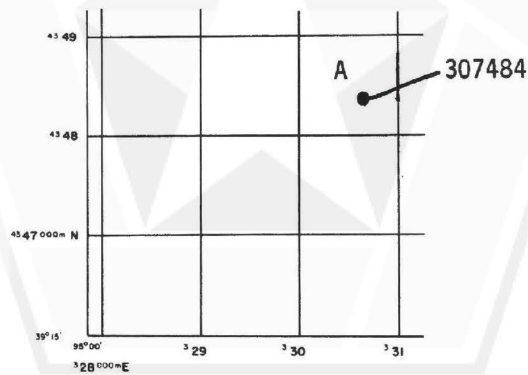


Fig 13-14. Six-digit coordinate.

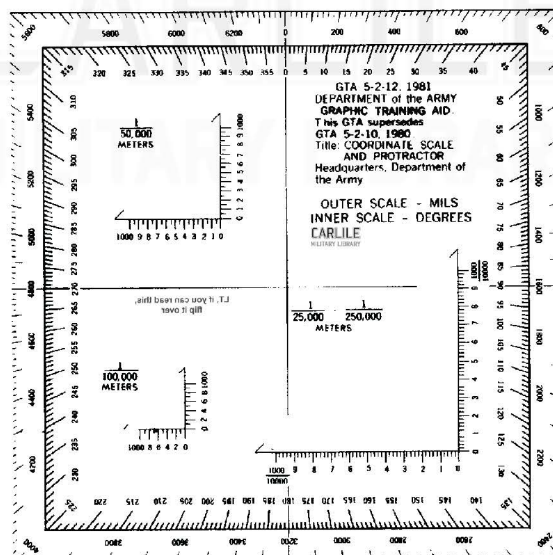


Fig 13-15. Coordinate scale.

Fig 13-16. Using the coordinate scale.

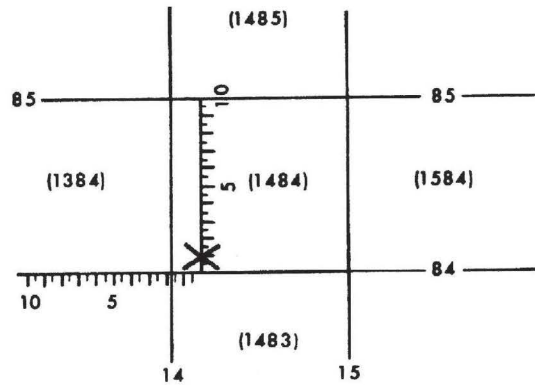


Fig 13-17. Graphic scales.

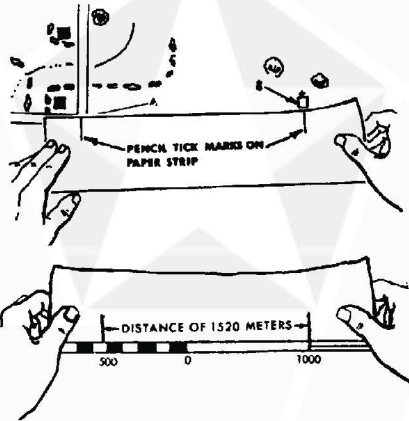
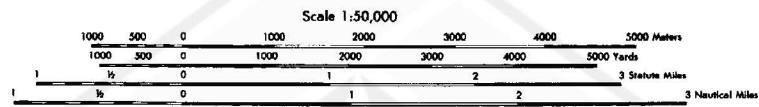


Fig 13-18. Measuring straight line distance.

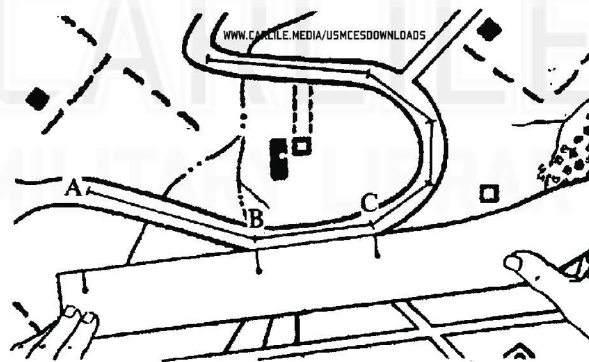


Fig 13-19. Measuring curved line distance.

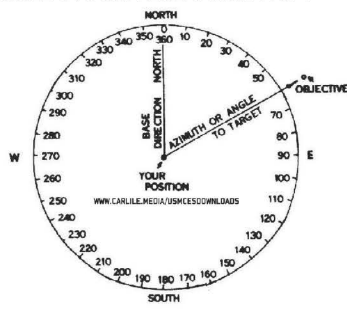
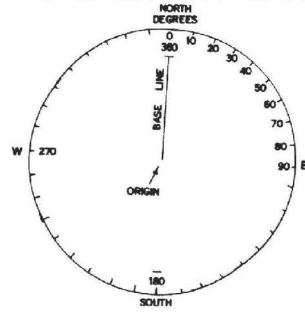


Fig 13-20. Directional circle. Fig 13-21. Locating an azimuth.



Fig 13-22. Declination diagram.

Fig 13-23. Using the declination diagram.

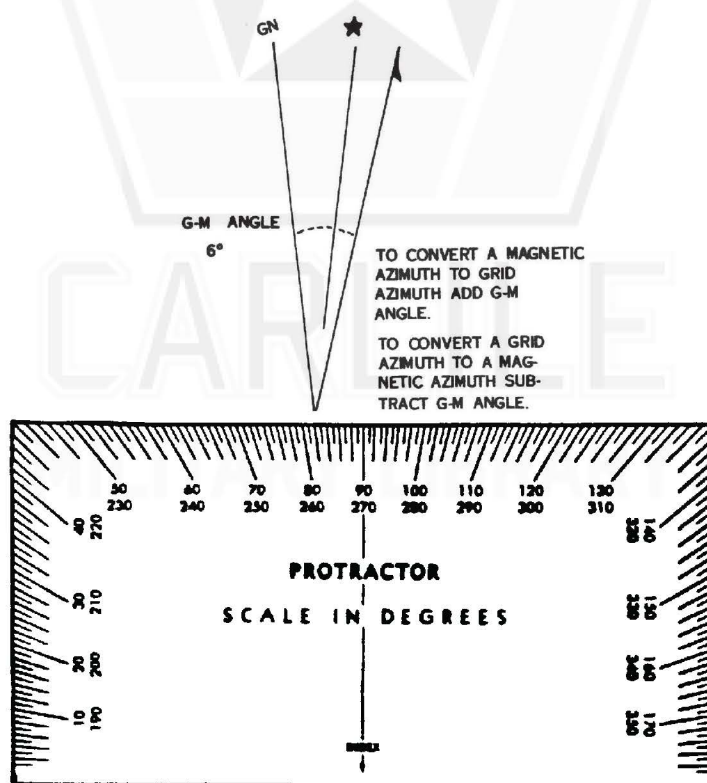


Fig 13-24. Protractor.

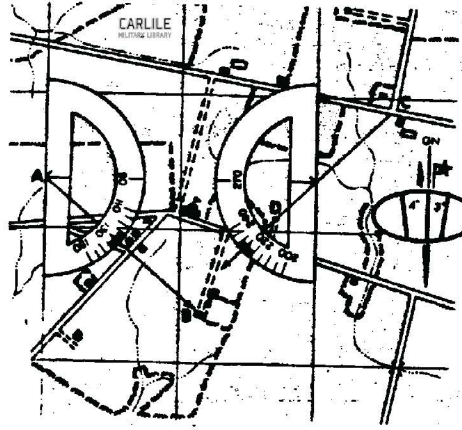


Fig 13-25. Measuring and locating a grid azimuth with protractor.

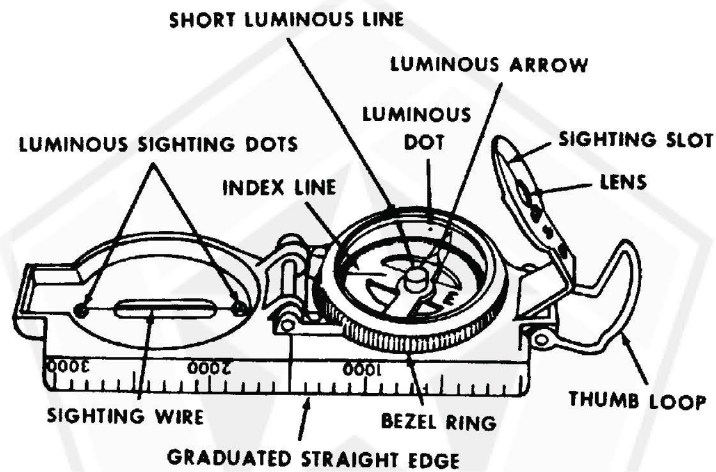


Fig 13-26. Lensatic compass.

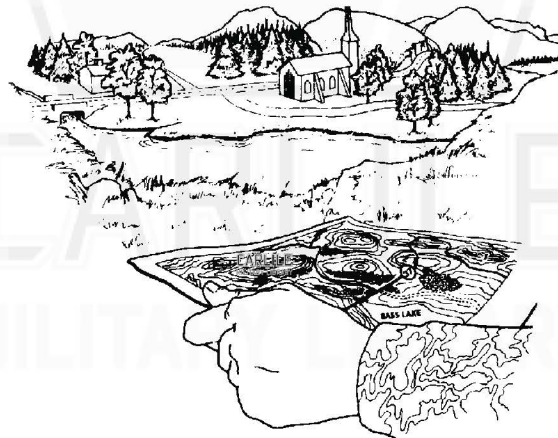


Fig 13-27. Orientation by inspection.

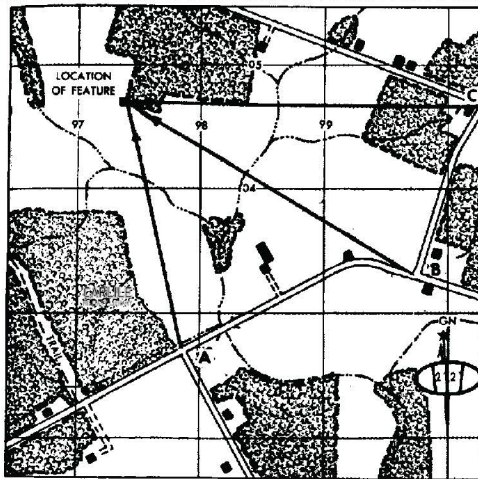


Fig 13-28. Intersection using the map and compass.

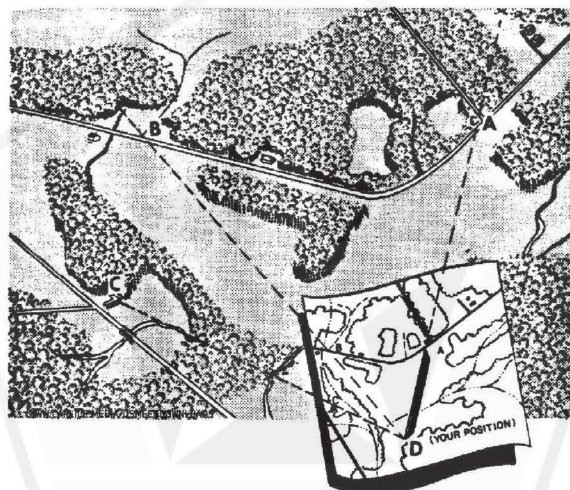


Fig 13-29. Resection.

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