

APPENDIX B

MP COMPANY WEAPONS, VEHICLES, AND EQUIPMENT

		Distribution of Military Police Equipment									
		MP CO LT INFANTRY DIV	MP CO AIRBORNE DIV	MP CO AIR ASSAULT DIV	MP CO HEAVY DIV	MP CO AIM DIV	MP COMBAT SPT CO	MP HEAVY SECURITY CO	MP SECURITY CO	MP ESCORT GUARD CO	MP GUARD CO
WEAPONS	PISTOL (M1911A1, .45 cal or M9, 9mm)	O	O	O	O	O	O	O	O	O	O
	RIFLE (M16A1 or M16A2)	O	O	O	O	O	O	O	O	O	O
	GRENADE LAUNCHER (M203)	T	T	T	T	T	T	T	T	S	T
	MACHINE GUN, SQUAD AUTOMATIC WEAPON (M249)	T	T	T	T	T	T	T	T	T	T
	MACHINE GUN (M60) <sup>1</sup>	T	T	T	T	T	T	T	T	T	T
	MACHINE GUN (M2 HB, .50 cal) <sup>1</sup>	S	S	S	S		C*	C*	C	C	C
	GRENADE MACHINE GUN (MK19) <sup>1</sup>	T	T	T	T	T	T	T	T	T	T
	RIOT CONTROL DISPERSER						P	P	P	P	P
	SHOTGUN (12-GAGE)										C
MOBILITY	TRUCK (5-TON)	C			C	C					
	TRUCK (2 1/2-TON)		C	C	C	C	C	C	C	C	C
	TRUCK (5/4-TON) <sup>2</sup>	C	C	C	C	C	C	C	C		
	TRUCK (1/4-TON) <sup>3</sup>	T	T	T	T		T	T	T	S	
	HMMWV (TROOP/CARGO) <sup>2</sup>	C	C	C	C		C	C			C
	HMMWV (ARMAMENT) <sup>3</sup>	T	T	T	T	T	T	T	T	S	
	CUCV (5/4-TON) <sup>2</sup>					C			C		S
	CUCV (3/4-TON) <sup>3</sup>										C
	TRAILER (1 1/2-TON)	C	C	C	C	C	C	C	C	C	C
	TRAILER (3/4-TON)	C	C	C	C	C	C	C	C		C
	TRAILER (1/4-TON)	T	T	T	T		T	T	T	S	
WATER TRAILER						C	C	C		C	
COMMUNICATIONS	RADIO (AN/VRC-46), dismount, short-range/long-range <sup>7, 8</sup>	T	T	T	T	T	T	T	T	T	T
	RADIO (AN/VRC-47), vehicle, short-range/long-range <sup>8, 8</sup>	P	P	P	P		P	P	P	P	P
	RADIO (AN/VRC-49), retrans, dual/vehicle, short-range <sup>9</sup>	C	C	C	C		C				
	RADIO (AN/PRC-77), manpack, short-range/long-range <sup>4</sup>	S	S	S	S		S	S	S	S	S
	RADIO (AN/PRC-119), manpack, short-range <sup>4, 8</sup>					PP					
	RADIO (AN/VRC-88), SINCGARS, dismount, short-range <sup>5</sup>										S
	RADIO (AN/VRC-89), SINCGARS, vehicle, short-range/long-range <sup>6</sup>	C*	C*	C*	C*	C*	C*	C*	C*	C	C*
	RADIO (AN/VRC-90), SINCGARS, vehicle, long-range <sup>7, 8</sup>					T					
	RADIO (AN/VRC-91), SINCGARS, dismount, short-range/long-range <sup>8</sup>	T	T	T	T		T	T	T	T	S
	RADIO (AN/VRC-92), SINCGARS, retrans, dual/vehicle, long-range <sup>9</sup>	C	C	C	C	C	C	C			
	RADIO (AN/GRC-160), dismount, short-range <sup>5</sup>								SS		
	RADIO, AM, long-range (AN/GRC 213)	C*	C*	C*	C*		C*	C	C	C	
	TACTICAL ARMY COMBAT COMPUTER SYSTEM	C	C	C	C	C		C	C		C
	SPEECH SECURITY EQUIPMENT	TT	TT	TT	TT	TT	TT	TT	TT	TT	TT
	REMOTE CONTROL FOR RADIO	C	C	C	C		C			C	
DIGITAL NONSECURE VOICE TELEPHONE	C*	C*	C*	C*	C*	C*	C*	C*	C*	C*	
MOBILE SUBSCRIBER RADIO TELEPHONE	C*	C*	C*	C*	C*	C	C	C			
MISC	NIGHT-VISION GOGGLES	TT	TT	TT	TT	TT	TT	TT	TT	TT	TT
	NIGHT-VISION SIGHT	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
	PLATOON EARLY WARNING SYSTEM	PP	PP	PP	PP	PP	PP	P	PP		
CHEMICAL	RADIATION MONITOR (AREA)	S	S	S	S	T	S	S	S	S	S
	RADIATION MONITOR (INDIVIDUALS)	T	T	T	T	T	T	T	S	T	C
	RADIACMETER/RADIAC SET	C	C	C	C	C	C	C	C	C	C
	CHEMICAL AGENT MONITOR	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
	CHEMICAL AGENT AUTOMATIC ALARM	S	S	S	S	S	S	S	S	S	S
	CHARGER (RADIAC DETECTOR)	P	P	P	P	S	P	P	P	P	P




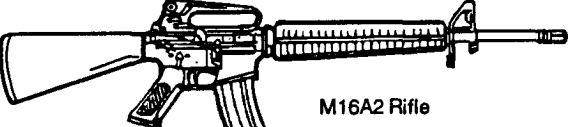
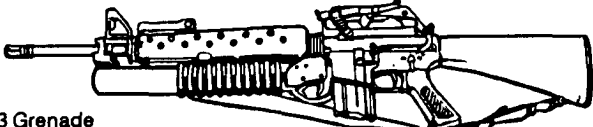
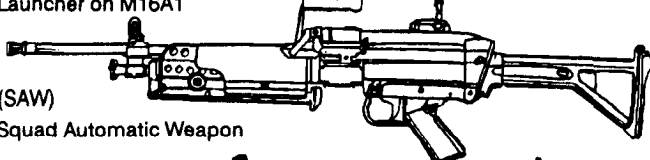
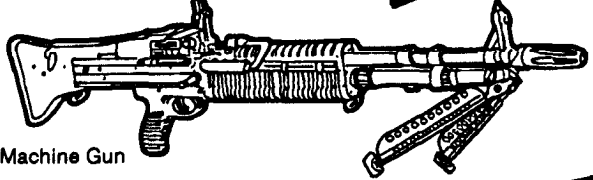
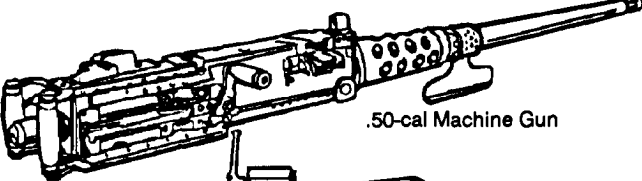
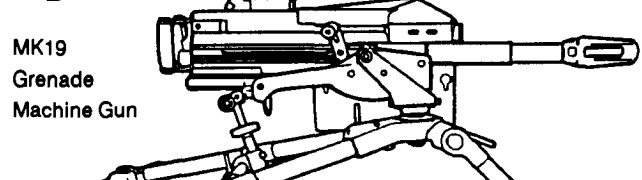
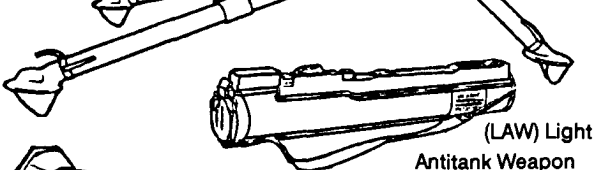
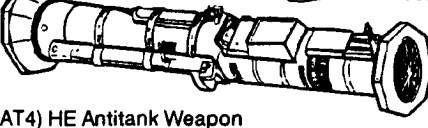
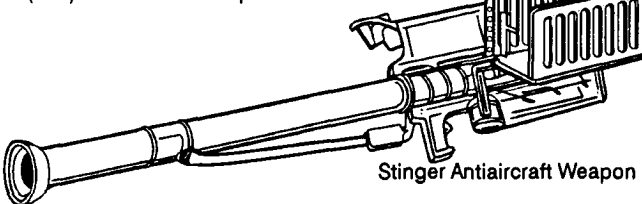
O 1 per individual  
 X 1 per machine gun  
 T 1 per MP team  
 S 1 per MP squad  
 P 1 per MP platoon

C 1 per MP company  
 C\* 1 or more per MP company  
 TT 2 per MP team  
 SS 2 per MP squad  
 PP 2 per MP platoon

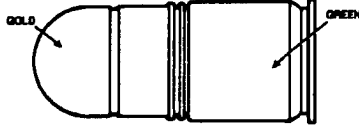
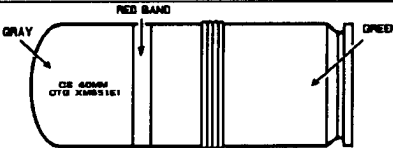
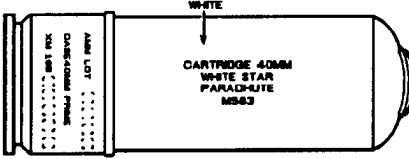
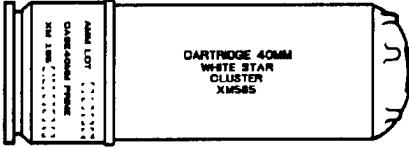

1. MK 19 GMG replacing M60 MG and .50 cal MG (all three will be fielded for a time).  
 2. HMMWV (troop/cargo) and CUCV (5/4-ton) replacing the truck (5/4-ton).  
 3. HMMWV (armament) and CUCV (3/4-ton) replacing the truck (1/4-ton).

4. AN/PRC-119 replacing the AN/PRC-77.  
 5. AN/VRC-88 replacing the AN/GRC-160.  
 6. AN/VRC-89 replacing the AN/VRC-47.  
 7. AN/VRC-90 replacing the AN/VRC-46.  
 8. AN/VRC-91 replacing the AN/VRC-46, 47, 77.  
 9. AN/VRC-92 replacing the AN/VRC-49.


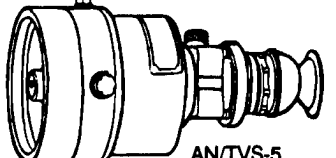
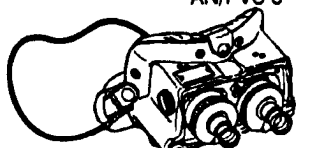
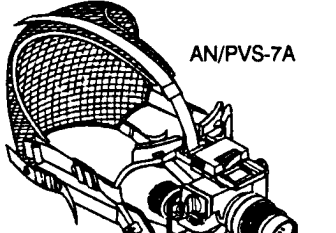
Military Police Weapons Characteristics						
WEAPON/ CALIBER	OPERATING SYSTEM	SAFETY FEATURE	LENGTH/ WEIGHT	FRONT SIGHT/ REAR SIGHT	AMMO FEED SYSTEM/ TYPES OF AMMO	EFFECTIVE RANGE/ MAXIMUM RANGE
M9 PISTOL (9-mm)	Short recoil semiautomatic	Decocking safety lever; firing pin block	21.7 cm (8.54 in)  960 gm (2.1lb) with empty mag	Blade integral w/slide  Notched bar dovetail w/slide	15-shot staggered mag  Ball parabellum	Effective range: 50 m
M1911A1 PISTOL (.45-cal)	Short recoil semiautomatic	Safety lever; grip safety; half-cock position	22 cm (8.6 in)  1.4 kg (3 lb) with loaded mag	Blade integral w/slide  Notched bar dovetail w/slide	7-round mag  Ball	Effective range: 50 m Maximum range: 1,500 m
REVOLVER (.38-cal)	Rotating chambers	No safety	23.5 cm (9.25 in )  (Weight varies by model)	Fixed blade  Fixed groove	6-shot cylinder  Ball	Effective range: 60 m Maximum range: 992 m
M16A1 RIFLE (5.56-mm)	Gas-operated; semiautomatic/ automatic	Selector lever	99.06 cm (39 in); 3.45kg (7.6 lb)	Adjustable post	20-round, 30-round mags	Effective range: 460 m Maximum range: 2653 m
M16A2 RIFLE (5.56-mm)		Safety position; hammer lock	100.7cm (39.63 in); 3.85 kg (8.48 lb) with 20-rd mag	Adjustable peep	Ball, tracer	Effective range: 550 m Maximum range: 3,534 m
M203 GRENADE LAUNCHER (40-mm)	Pump action	Safety lever; trigger block	38.89 cm (15.31 in )  1.59 kg (3.5 lb)	Adjustable post (quadrant sight) Adjustable peep (pop-up leaf)	Single shot, breach-loaded HEDP, CS, star parachute, star cluster, smoke (ground marker)	Effective range: 350 m (area target); 150 m (point target) Maximum range: 400 m
M249 SQUAD AUTOMATIC WEAPON (5.56-mm)	Gas-operated, air-cooled; auto; fires from open bolt position.	Safety button; bolt lock	103.8 cm (40.87 in)  6.89 kg (15.16 lb); or with sling, bipod, 200 rds 10.05 kg (22.08 lb)	Hooded, semifixed  Adjustable peep	Belt-fed (200-round drum, also 30-round mag)  Ball, tracer	Effective range: 900 m  Maximum range: 3,600 m
M60 MACHINE GUN (7.62-mm )	Gas-operated, air-cooled; auto; fires from open bolt position	Safety lever; bolt lock	110.5 cm (43.5 in)  10.43 kg (23.00 lb)	Fixed blade  Adjustable spring-loaded leaf	Belt-fed (100-round belt)  Ball, tracer, armor-piercing	Effective range: 1,100 m Maximum range: 3,725 m
M2 HB MACHINE GUN (.50-cal)	Recoil-operated, air-cooled	Bolt latch release lock	165 cm (65.13 in)  38 kg (84 lb)	Fixed blade  Adjustable spring-loaded leaf	Belt-fed (50-round belt)  Ball, tracer, incendiary, armor- piercing	Effective range: 1,830 m Maximum range: 6,764 m
MK19 GRENADE MACHINE GUN (40-mm)	Air-cooled blow back	Safety lever; bolt lock	109.5 cm (43.1 in)  34.09 kg (75.6 lb)	Fixed blade  Adjustable spring-loaded leaf	Belt-fed (48-round cannister)  HEDP	Effective range: 2,212 m (area target); 1,500 m (point target) Maximum range: 2,212 m
M72A1/2 LIGHT ANTITANK WEAPON (66-mm)	Rocket-propelled	Safety handle; trigger block	66 cm (26 in) closed, 89 cm (35.16 in) open  2.36 kg (5.2 lb)	Spring-loaded leaf  Spring-loaded peep	Single-shot, self-contained  HEAT	Effective range: 165-200 m Maximum range: 1,000 m
M136 HE ANTITANK WEAPON (AT4) (84-mm)	Rocket-propelled	Triple safety; firing rod and pin blocks	101.6 cm (40 in)  6.73 kg (14.8 lb) with projectile	Sight blade: center post, right /left lead posts  Sight blade: range setting knob, range ind, 2 mm peephole 7 mm peephole	Single-shot, self-contained  HEAT	Effective range: 300 m Maximum range: 2,100 m
STINGER ANTIAIRCRAFT WEAPON (2.75-in)	Rocket-propelled	Safety & actuator device	60 in (152.4 cm)  34.9 lb (15.86 kg)	Aperture sight assembly range ring  Rear sight reticle	Single-shot, self-contained  Infrared homing AA missile (explosive warhead)	Maximum range 17 sec flight time

<b>Military Police Weapons Operating Characteristics</b>	
 9-mm Pistol	<p><b>M9 PISTOL (9-mm)</b>                      Double-action weapon. Fire, work the safety with either hand; has reversible magazine release; can be field stripped. Rate of fire is limited only by the ability of the user to rapidly reload, aim, and fire. See FM 23-35.</p>
 .38-cal Revolver	<p><b>M1911A1 PISTOL (.45-cal)</b>                      Single-action weapon. Rate of fire is limited only by the ability of the user to rapidly reload, aim, and fire. See FM 23-35.</p>
 .45-cal Pistol	<p><b>REVOLVER (.38-cal)</b>                      Double-action weapon. Comes in several models: the 2-inch barreled revolvers are used mainly by Army CID and CI; the 4-inch barreled revolvers are used by aviators and MP. Rate of fire is limited only by the ability of the user to rapidly reload, aim, and fire. See FM 23-35.</p>
 M16A2 Rifle	<p><b>M16A1/M16A2 RIFLE (5.56-mm)</b>                      Most stable firing positions: prone-supported and foxhole-supported. A2 has automatic 3-round burst control; increased accuracy (flash suppressor/muzzle compensator keeps muzzle from rising with multiple shots.) A1/A2 cyclic rate of fire is 700-800 rpm, sustained rate of fire is 12-15 rpm. Support equipment: M203 grenade launcher. See FM 23-9.</p>
 M203 Grenade Launcher on M16A1	<p><b>M203 GRENADE LAUNCHER (40-mm)</b>                      Suppresses targets in defilade; can suppress/disable lightly armored vehicles; rounds can penetrate concrete, timber, or sandbagged weapons positions in some buildings. Most stable firing positions: standing-supported and prone-supported. See FM 23-31.</p>
 (SAW) Squad Automatic Weapon	<p><b>M249 SQUAD AUTOMATIC WEAPON (5.56-mm)</b>                      Lightweight, one-man portable MG; can be mounted; fighting position is same as that for automatic rifleman; gunner uses aiming stakes. Cyclic rate of fire is 750 rpm, sustained rate of fire is 85 rpm. Support equipment: bipod, tripod. See FM 23-14.</p>
 M60 Machine Gun	<p><b>M60 MACHINE GUN (7.62-mm)</b>                      Provides heavy volume of close and continuous fire. The long-range, close defensive, and final protective fires form an integral part of a unit's defensive fires. Cyclic rate of fire is 550 rpm, sustained rate of fire 100 rpm. Support equipment: bipod, tripod, vehicular mount. See FM 23-67.</p>
 .50-cal Machine Gun	<p><b>M2 HB MACHINE GUN (.50-cal)</b>                      Shoots farther than the M60; penetrates lightly armored vehicles; provides heavy volume of close, accurate, and continuous fire. Cyclic rate of fire is 450-550 rpm, sustained rate of fire 40 rpm. Support equipment: M3 tripod, M36 vehicular mount. See FM 23-65.</p>
 MK19 Grenade Machine Gun	<p><b>MK19 GRENADE MACHINE GUN (40-mm)</b>                      Barrel does not overheat even after prolonged firing; can defeat lightly-armored vehicles upon impact and exposed enemy within 15 meters of the impact out to weapon's maximum range. Cyclic rate of fire is 325-375 rpm, sustained rate of fire 40 rpm. Support equipment: M3 tripod, M4 pedestal, M66 ring mount, 36-in universal ring mount, MK 64 gun cradle (holds weapon to mount). See FM 23-27.</p>
 (LAW) Light Antitank Weapon	<p><b>M72A1/2 LIGHT ANTITANK WEAPON (66-mm)</b>                      A self-contained, lightweight, disposable HEAT rocket in a fiberglass and aluminum launcher tube; missile can penetrate more than 30 cm (12 in) of armor; can be used against enemy armor, bunkers, and other hard targets out to 200 meters. Most stable firing positions are the standing-supported, prone, and prone-supported. See FM 23-33.</p>
 (AT4) HE Antitank Weapon	<p><b>M136 HE ANTITANK WEAPON (AT4) (84-mm)</b>                      Like the M72-series LAW it is replacing, but more reliable; has a higher hit probability; longer effective range. Lethal against light armor combat vehicles, also against main battle tanks if hits side or rear. See FM 23-25.</p>
 Stinger Antiaircraft Weapon	<p><b>STINGER ANTI-AIRCRAFT WEAPON (2.75-in)</b>                      The launcher includes the launch tube assembly and a separable gripstock. It provides the means to transport, aim, and fire the missile. The launch tube is discarded after the missile is fired. The missile is a supersonic, surface-to-air, high-explosive warhead. It is shoulder-fired. Its navigation system allows it to intercept a flying target. After the missile has traveled a safe distance from the gunner, its main engine ignites and propels it to the target. MP do not have the accompanying IFF equipment that visually acquires the Stinger's target and electronically checks to see if the target is a friend or foe. See FMs 44-18-1 and 44-1-2.</p>

**M203 40-mm Ammunition**

PHYSICAL APPEARANCE	TYPE AND PURPOSE
	<p><b>High-Explosive Dual-Purpose</b></p> <p>M433 High-Explosive Dual-Purpose. This round can penetrate 5 centimeters of armor, 30 centimeters of pine logs, 40 centimeters of concrete blocks, or 50 centimeters of sandbags at ranges up to 400 meters. It has a 5-meter casualty radius against exposed troops.</p>
	<p><b>CS</b></p> <p>M651 CS. This round is used to drive the enemy from bunkers or enclosed positions in built-up areas.</p>
	<p><b>Star Parachute Illumination Rounds</b></p> <p>M583 White Star Parachute, M661 Green Star Parachute, and M662 Red Star Parachute. These are used to signal and illuminate. One can be placed 300 meters forward of a squad to illuminate an area 200 meters in diameter for 40 seconds.</p>
	<p><b>Star Cluster Illumination Rounds</b></p> <p>M585 White Star Cluster, M663 Green Star Cluster and M664 Red Star Cluster. They are used to signal. Caution: The green star cluster may appear white in bright sunlight.</p>
	<p><b>Smoke, Ground Marker Signal Rounds</b></p> <p>M713 Red Smoke, Ground Marker; M715 Green Smoke, Ground Marker; and M716 Yellow Smoke, Ground Marker. These are used to mark locations and targets, not for screening.</p>

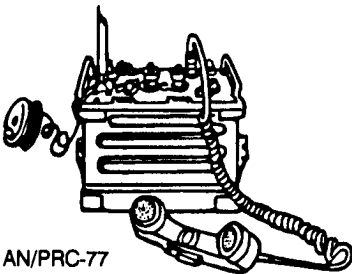
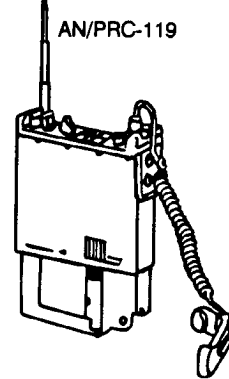
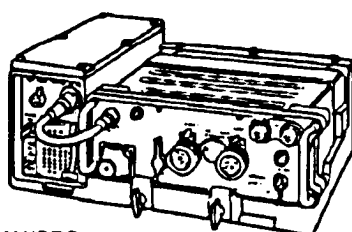
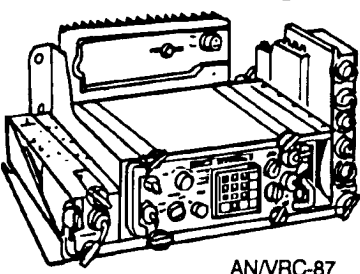
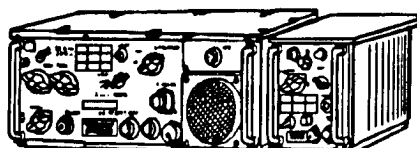
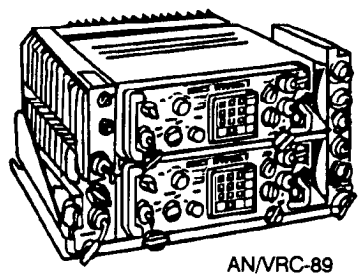
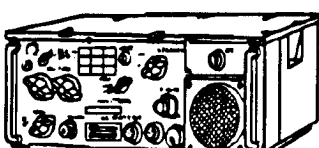
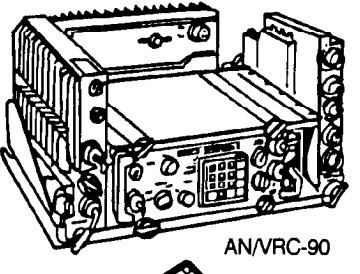
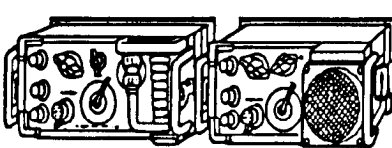
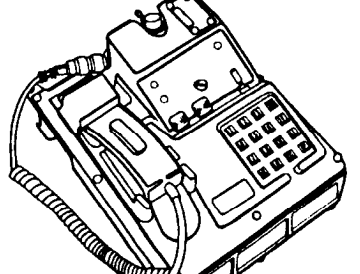
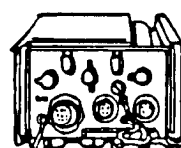
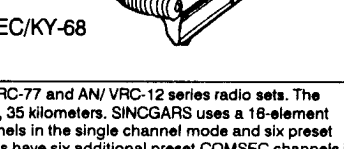
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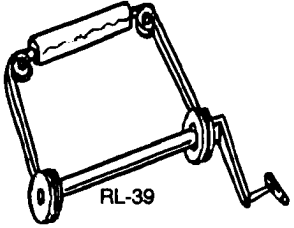
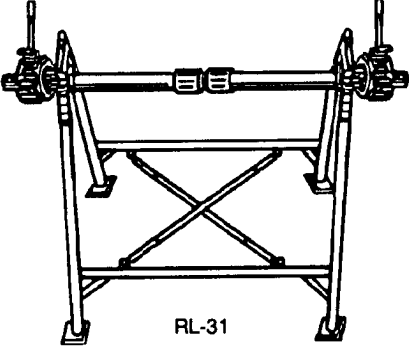
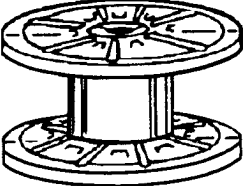
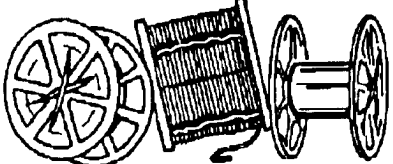
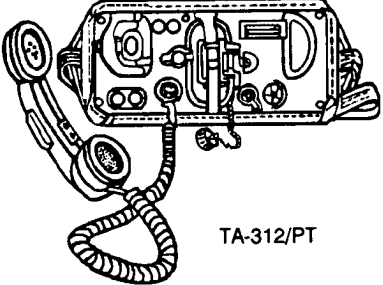
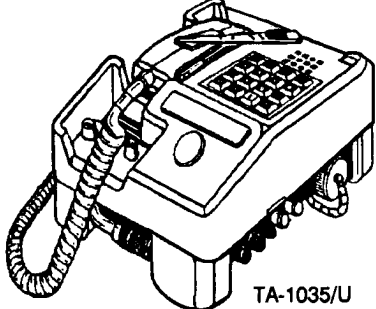
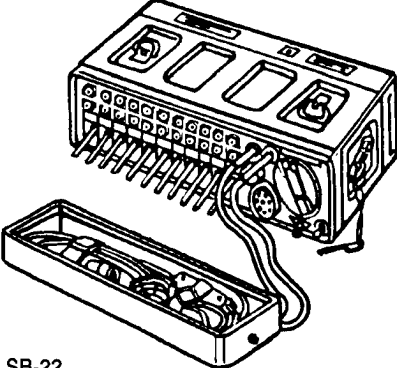
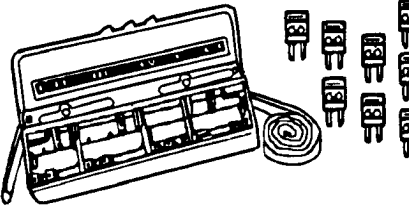
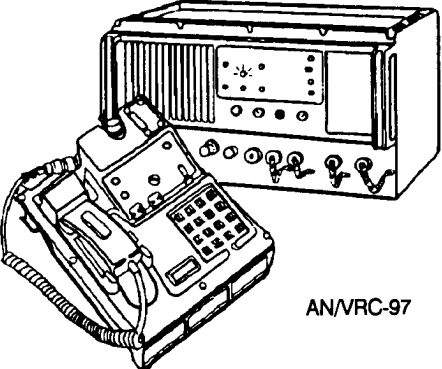

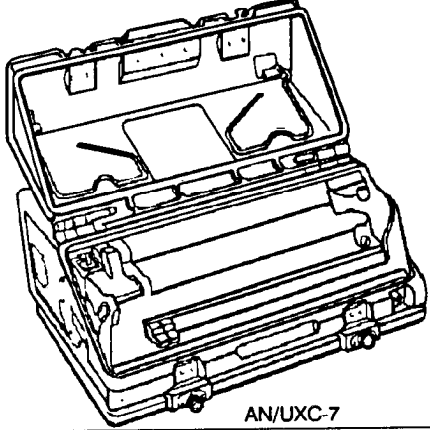
 <p>AN/PVS-4</p>	MODEL	WEIGHT	VIEWING DISTANCE		FIELD OF VIEW	POWER SOURCE	OPERATING LIFE	MOUNTED ON
			MAN-SIZED TARGET	VEH-SIZED TARGET				
 <p>AN/TVS-5</p>	AN/TVS-5 Electro-optical	7.7 lb		1000 to 2000 m	9 degrees	2.7 volt battery	50 hours at normal temperatures	M60, M2, MK19
 <p>AN/PVS-5</p>	AN/PVS-5 Goggles	1.9 lb	150 m	300 m	40 degrees	2.7 volt battery	16 hours	face mounted
 <p>AN/PVS-7A</p>	AN/PVS-7A Goggles  (Replacing AN/PVS-5 to provide improved night vision at lower light levels)	1.5 lb	50 m		40 degrees	2.7 volt battery	15 hours	face mounted

Military Police Vehicles											
VEHICLE	PEOPLE	CARGO DECK		CARGO LOAD CAPACITY		PAYLOAD & MAXIMUM TOWED LOAD*			FUEL TANK		SPEED
(US Army Designation)	CAPACITY	DECK LENGTH	DECK WIDTH	LOAD HEIGHT	LOAD VOLUME	CROSS-COUNTRY	HIGHWAY	CARGO TRAILER	CAPACITY & TYPE	CRUISING RANGE	MAXIMUM
M151 1/4-ton Utility Truck	4 in cab	NA	NA	NA	NA	363.6 kg (800 lb)	545.5 kg (1,200 lb)	M416A1 (1/4-ton)	64.3 l (17 gal)	488 km (300 mi)	89 kmph (55 mph)
						*681.8 kg (1,500 lb)	*909.1 kg (2,000 lb)		MOGAS		
M1025/26 1 1/4-ton HMMVV	3 or 4 in cab	NA	NA	NA	NA	1,135 kg (2,500 lb)	1,135 kg (2,500 lb)	M101A2 (3/4-ton)	90.8 l (24 gal)	488 km (300 mi)	89 kmph (55 mph)
						*681.8 kg (1,500 lb)	*1,022.7kg (2,250 lb)		Diesel		
M998 1 1/4-ton Cargo Troop Carrier	2 in cab, plus 6 passen- gers	248.9 cm (98 in)	167.6 cm (66 in); at fenders, 129.5 cm (51 in)	49.5 cm (19.5 in )	5.4 m <sup>3</sup> (190 ft <sup>3</sup> )	1,135 kg (2,500 lb)	1,135 kg (2,500 lb)	M101A2 (3/4-Ton)	75.7 l (20 gal)	569 km (350 mi)	89 kmph (55 mph)
						*681.8 kg (1,500 lb)	*1,022.7kg (2,250 lb)		Diesel		
M35A1 2 1/2-ton Cargo Truck	3 in cab, plus 14-18 passen- gers	372.9 cm (146.8 in)	223.5 cm (88 in)	92.7 cm (36.5 in) top of side racks, 152.4 cm (60 in) under bows	7.64 m <sup>3</sup> (272.8 ft <sup>3</sup> ) top of side racks, 12.37 m <sup>3</sup> (441.9 ft <sup>3</sup> ) under bows	2,270 kg (5,000 lb)	4,545 kg (10,000 lb)	M105A2 (1 1/2-ton)	189.3 l (50 gal)	812 km (500 mi)	89 kmph (55 mph)
						*2,727.3kg (6,000 lb)	*4,545kg (10,000 lb)		Diesel		
M813 5-ton Cargo Truck	3 in cab, plus 14-18 passen- gers	426.7 cm (168 in)	223.5 cm (88 in)	92.7 cm (36.5 in) top of sides, 152.4 cm (60 in) under bows	8.0 m <sup>3</sup> (286.1 ft <sup>3</sup> ) top of sides, 13.45 m <sup>3</sup> (480.2 ft <sup>3</sup> ) under bows	4,545 kg (10,000 lb)	9,090 kg (20,000 lb)	M105A2 (1 1/2-ton)	295.2 l (78 gal)	650 km (400 mi)	84 kmph (52 mph)
						*6,810 kg (15,000 lb)	*13,620 kg (30,000 lb)		Diesel		
M1009 CUCV	5 in cab	194.6 cm (76.6 in)	165 cm (65 in)	100 cm (39.4 in)	NA	545.5 kg (1,200 lb)	545.5 kg (1,200 lb)	M101A2 (3/4-ton)	102.2 l (27 gal)	488 km (300 mi)	89 kmph (55 mph)
						*681.8 kg (1,500 lb)	*1,022.7kg (2,250 lb)		Diesel		
M1008 1 1/4-ton Tactical Cargo Truck	3 in cab, plus 8 passen- gers	248.9 cm (98 in)	167.6 cm (66 in); at fenders, 129.5 cm (51 in)	49.5 cm (19.5 in)	5.2 m <sup>3</sup> (184 ft <sup>3</sup> )	1,317 kg (2,900 lb)	1,317 kg (2,900 lb)	M101A2 (3/4-ton)	75.7 l (20 gal)	325- 488 km (200- 300 mi)	89 kmph (55 mph)
						*1,409.1 kg (3,100 lb)	*1,409.1kg (3,100 lb)		Diesel		

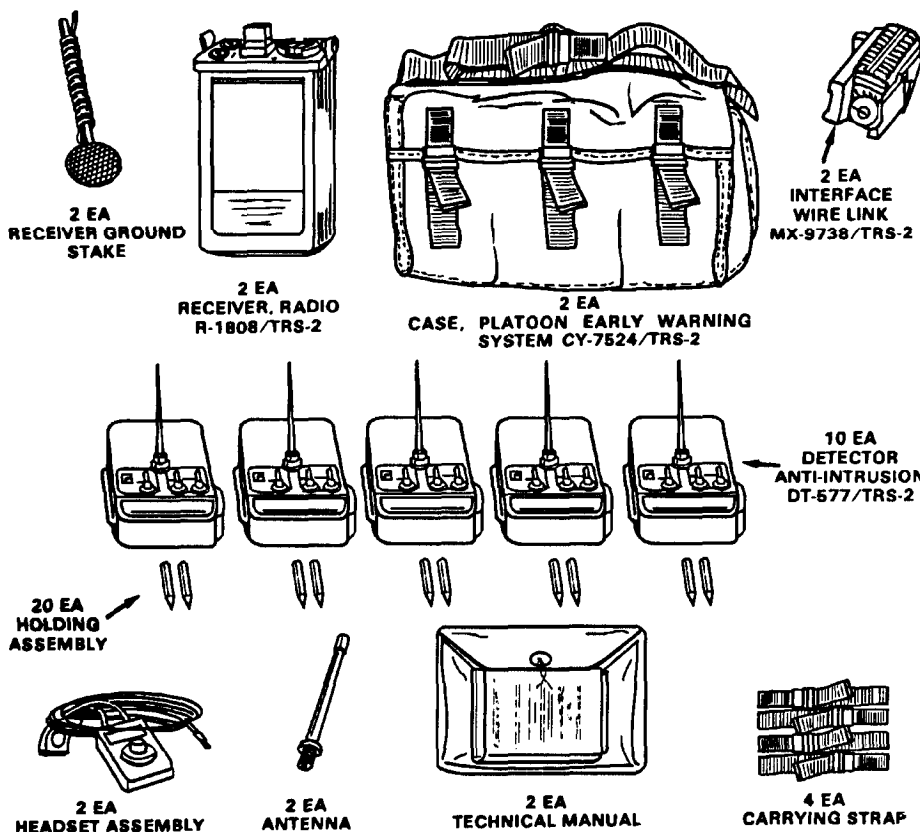
Military Police Cargo Trailers										
TRAILER	CARGO DECK AREA		CARGO LOAD HEIGHT			CARGO LOAD CAPACITY			PAYLOAD	
(US Army Designation)	DECK LENGTH	DECK WIDTH	TOP OF SIDES	TOP OF RACKS	UNDER BOWS	TOP OF SIDES	TOP OF RACKS	UNDER BOWS	CROSS-COUNTRY	HIGHWAY
M416A1 1/4-ton Cargo Trailer	182.9 cm (72 in)	104.9 cm (41.3 in)	45.7 cm (18 in)	NA	NA	.88 m <sup>3</sup> (31.0 ft <sup>3</sup> )	NA	NA	227.2 kg (500 lb)	340.9 kg (750 lb)
M101A2 3/4-ton Cargo Trailer	240.8 cm (94.8 in)	165.9 cm (65.3 in)	46.5 cm (18.3 in)	84.6 cm (33.3 in)	124.5 cm (49 in)	1.71 m <sup>3</sup> (60.9 ft <sup>3</sup> )	3.21 m <sup>3</sup> (114.6 ft <sup>3</sup> )	4.77 m <sup>3</sup> (170.5 ft <sup>3</sup> )	681.8 kg (1,500 lb)	1,023 kg (2,250 lb)
M105A2 1 1/2-ton Cargo Trailer	278.9 cm (109.8 in)	188 cm (74 in)	45.7 cm (18 in)	114.3 cm (45 in)	152.4 cm (60 in)	2.21 m <sup>3</sup> (79 ft <sup>3</sup> )	5.77 m <sup>3</sup> (205.9 ft <sup>3</sup> )	7.75 m <sup>3</sup> (276 ft <sup>3</sup> )	1,363 kg (3,000 lb)	2,045 kg (4,500 lb)
M149A2 400-gallon Water Tank Trailer	414.5 cm (163.2 in)	209 cm (82.3 in)	195.1 cm (76.8 in) height of tank	NA	NA	1,514 l (400 gal) nominal tank capacity	NA	NA	1,516 kg (3,335 lb)	1,516 kg (3,335 lb)

**Radio Communication Equipment**

RADIO EQUIPMENT FOUND IN MOST MP UNITS*	MODEL/CONFIGURATION	SINCARS/MODEL	SINCARS REPLACEMENT EQUIPMENT**
 <p>AN/PRC-77</p>	<p><b>AN/PRC-25/77</b> Radio set AN/PRC-77 is a short-range, man pack, portable VHF-FM transceiver used for two-way communication. The radio is powered by its own battery (BA 4366). Its transmission range is 16 kilometers.</p>	<p><b>AN/PRC-119</b> This is a short-range, man-pack portable, radio set. It is powered by a battery capable of 20 hours of operation. It replaces the AN/PRC-25/77.</p>	 <p>AN/PRC-119</p>
 <p>AN/GRC-160</p>	<p><b>AN/VRC-53/64</b> Radio set AN/VRC-64 is a short-range, two-way FM radio set that is vehicle-mounted.</p>	<p><b>AN/VRC-87</b> This is a vehicle-mounted, short-range radio set. It replaces the AN/VRC-53/64.</p>	 <p>AN/VRC-87</p>
 <p>AN/VRC-47</p>	<p><b>AN/GRC-125/160</b> Radio set AN/GRC-160 is a short-range, two-way FM radio set that is used for vehicular, manpack, or fixed station operations. Its transmission range is 16 kilometers.</p>	<p><b>AN/VRC-88</b> This is a vehicle-mounted, short-range radio set. It can be dismounted and used with the addition of the manpack accessories. It becomes the same as the AN/VRC-87. It replaces the AN/GRC125/160.</p>	 <p>AN/VRC-89</p>
 <p>AN/VRC-46</p>	<p><b>AN/VRC-12/47</b> Radio set AN/VRC-47 is a short-range, two-way FM radio set that is mounted on vehicles. This radio has the same characteristics as the AN/VRC-46 but has the added ability to monitor two frequencies at the same time.</p>	<p><b>AN/VRC-89</b> This is a vehicle-mounted short- or long-range radio set. The long-range system uses a power amplifier to increase the transmission range. It replaces the AN/VRC-12/47.</p>	 <p>AN/VRC-90</p>
 <p>AN/GRA-39</p>	<p><b>AN/VRC-43/46</b> Radio set AN/VRC-47 is a short-range, two-way FM radio set that is mounted on vehicles. This radio is powered by the vehicle battery. Its transmission range is 40 kilometers.</p>	<p><b>AN/VRC-90</b> This is a vehicle-mounted, long-range radio system which uses a power amplifier. It replaces the AN/VRC-43/46.</p>	 <p>AN/VRC-91</p>
 <p>TSEC/KY-57</p>	<p><b>AN/GRA-39</b> Radio set control group AN/GRA-39 is a battery-operated, remote control system that allows the operator to use the FM radio set from a remote location, (from a distance of up to 3 kilometers). The control group also can be used to connect radio and telephone networks.</p>	<p><b>AN/VRC-91</b> This is a vehicle-mounted long-range or dismounted short-range radio set. It is the same as the AN/VRC-89 with the addition of the manpack accessories. It replaces the AN/GRC-125/160 and AN/VRC-46.</p>	 <p>TSEC/KY-68</p>
<p>* AN/VRC-46, AN/VRC-47, and AN/PRC-77 FM radios are the bulwark of organic MP communications. They are capable of secure voice transmission when fitted with the TSEC/KY-57.</p>	<p><b>TSEC/KY-57 Speech Security Device</b> TSEC/KY-57 is a secure-speech device used with most FM radios. It allows MP to speak while preventing enemy forces from understanding the transmissions.</p>	<p><b>AN/VRC-92</b> This is a vehicle-mounted (dual) long-range radio set (retransmit). It is the same as the AN/VRC-89 with the addition of a second power amplifier and a retrans cable. It replaces the AN/VRC-45/49.</p> <p><b>TSEC/KY-68 Digital Subscriber Voice Terminal</b> This device is used with the SINCARS nonsecure models to ensure secure speech.</p>	<p>** SINCARS is a series of two-way VHF-FM radio sets that replace the AN/PRC-77 and AN/VRC-12 series radio sets. The short-range radios have a transmission range of 8 kilometers; the long-range, 35 kilometers. SINCARS uses a 18-element key pad for tuning a total of 2,320 channels. This includes eight preset channels in the single channel mode and six preset channels in the jam-resistant frequency-hopping mode. Also, A and C models have six additional preset COMSEC channels in either mode to handle secure traffic without attached equipment.</p>

Wire and Mobile Subscriber Communication Equipment		
COMMUNICATION EQUIPMENT	MODEL/CONFIGURATION	COMMUNICATION EQUIPMENT
	<p><b>RL-27</b> MP use the axle RL-27 to lay and recover field wire. The axle is a steel bar, which mounts wire reel RL-159/U. The axle can be carried by two men or placed on an improvised mounting.</p>	
	<p><b>RL-31</b> MP use reel unit RL-31 to lay and recover field wire. RL-31 is a lightweight, portable folding A-frame. It can carry two wire reels RL-159/U. The unit can be set up on the ground or mounted on a vehicle. A kit is available for mounting the reel unit on trucks.</p>	
	<p><b>RL-159/U</b> MP use wire reel RL-159/U, a metal spool-type container, to store, transport, lay, and recover field wire. It will hold 1.6 kilometers of field wire. It is mounted on the RL-27 or the RL-31.</p>	
	<p><b>RL-39</b> The chest-type reel unit RL-39 is an axle with carrying handles, carrying straps, and a crank for rewinding. The RL-39 mounts spool DR-8. MP use RL-39 to lay wire on foot. It is easy to carry. The carrying straps allow the weight of the wire to be evenly distributed.</p>	
	<p><b>DR-8</b> Spool DR-8 is a metal container used to lay and recover field wire. It will hold up to 400 meters of field wire. It is mounted on reel unit RL-39.</p>	
	<p><b>TA-312/PT</b> Telephone set TA-312/PT is a small, rugged, waterproof, portable field telephone. It operates on two BA-30 batteries. It can be connected to battalion, division, corps, or area communications nets or, if needed, to the defense communications system.</p>	
	<p><b>SB-22</b> Manual telephone switchboard SB-22 is used mostly in field wire systems. It is small, lightweight, and portable. It needs no special mounting equipment. The switchboard can handle up to 12 field telephones. The SB-22 is powered by four BA-30 batteries.</p>	
	<p><b>SB-993</b> Telephone switchboard SB-993 is a lightweight, portable, local battery switching center. It is usually used in MP security companies. It can handle an operator's line and six local-battery wire circuits.</p>	
	<p><b>TA-1035/U</b> The digital nonsecure voice terminal (DNVT), TA-1035/U, provides voice access to wire subscribers, usually at command post locations, and, through its data port, facsimile and data access to networks.</p>	
	<p><b>AN/VRC-97</b> The mobile subscriber radio terminal (MSRT), permits mobile users to communicate secure voice and data traffic throughout the tactical AO on a discrete-address basis. The MSRT consists of the RT 1539 radio equipped with a digital interface and COMSEC module. With a frequency range of 30 to 88 MHz for worldwide operation, the radio can store four plans of up to 96 sets of frequencies each in its memory. The MSRT includes the digital subscriber voice terminal (DSVT), TSEC/KY-68. It can interface with facsimile or data subscriber terminals.</p>	
	<p><b>AN/UXC-7</b> The facsimile terminal AN/UXC-7 provides high-speed, high-quality graphic communications. The terminal operates directly into the DNVT or DSVT data port. The unit is lightweight but rugged.</p>	

**Platoon Early Warning System (PEWS) AN/TRS-2**



The AN/TRS-2 PEWS has 10 ground-implanted sensors. PEWS transmits a radio or wire signal to a receiving set. The signal indicates movement in the area. It also indicates which sensor is transmitting.