



DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
WASHINGTON, DC 20380-0001

MCO 4400.187
CBG
11 Nov 92

MARINE CORPS ORDER 4400.187

From: Commandant of the Marine Corps
To: Distribution List

Subj: MATERIEL FIELDING PLAN FOR THE LAUNCHER, PRACTICE,
SUBCALIBER AMMUNITION: M287

Ref: (a) MCO P4105.3
(b) MCO P5000.10C
(c) MCO 4855.10

Encl: (1) Materiel Fielding Plan (MFP) for the Launcher,
Practice, Subcaliber Ammunition: M287

1. Purpose. To provide logistics information to field commanders regarding the introduction of the Launcher, Practice, Subcaliber Ammunition, M287 (hereafter referred to as the M287 Trainer) into the Marine Corps inventory per references (a), (b), and (c) and as detailed in the enclosure.

2. Information. This is a nondevelopmental item acquisition program in which many of the events in the acquisition schedule are being executed concurrently. The U.S. Army, Armament, Munitions and Chemical Command (AMCCOM), Rock Island, IL has been assigned as the Single Item Manager. An interim distribution of the M287 Trainer was made to provide an initial training capability. The Marine Corps will fund AMCCOM via a Military Interdepartmental Purchase Request for the FMF and the base support provisioning requirements. No additional purchases of the M287 Trainer are planned.

3. Action. The procedures contained within this Order and reference (a) will be adhered to for fielding and placing the M287 Trainer in service.

4. Reserve Applicability. This Order is applicable to the Marine Corps Reserve.

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J. A. BRABHAM
By direction

MATERIEL FIELDING PLAN (MFP)
FOR THE
LAUNCHER, PRACTICE, SUBCALIBER AMMUNITION: M287

1. Introduction

a. Source of the Requirement. The M287 Trainer is needed to support the M136 AT4 Light Antiarmor Weapon. Procurement of the M287 Trainer is in response to Required Operational Capability No. INS 1.04A Improved LAAW. The M136 AT4 Light Antiarmor Weapon is a nondedicated gunner system and includes potential employment in virtually every tactical scenario where enemy armor may be encountered. Therefore, every Marine who may be involved in combat must know how to employ the AT4. There are no additional purchases planned and the quantity of 1100, that the Marine Corps now has, must last for the life of the AT4.

b. Essential Points of Contact

<u>TITLE</u>	<u>NAME</u>	<u>ADDRESS/CODE</u>	<u>TELEPHONE</u>
Project Officer	Major T. Young	COMMARCORSSYSCOM (CBGA) Quantico, VA	(DSN) 278-2006
Weapon System Manager	Mr. C. Higham	COMMARCORLOGBASES (Code 833) Albany, GA	(DSN) 278-6613
Training Coordinator	Mr. Shirmer	CG MCCDC (TE35) Quantico, VA	(DSN) 278-3716

c. Fielding Methodology

(1) General Fielding Plan. The M287 Trainer will be fielded horizontally. Shipment assets held by the COMMARCORLOGBASES, Albany, GA will be made to all Training and Audiovisual Support Centers (TAVSC) simultaneously. Delivery will be dependent upon shipping times. The TAVSC will be the reporting entity between NWSC, Crane, IN and 4th Marine Division units.

(2) Method of Fielding. Initial fielding of the M287 Trainer will be accomplished by force-feeding the items to the receiving TAVSC's. No requisitioning action from receiving TAVSC's is necessary. Appendix A contains the list of allowances for each TAVSC and the quantity to be subsigned by units from each TAVSC. The initial deliveries will be from the items now at MARCORLOGBASES, Albany, GA. Follow-on deliveries will be a redistribution from units having an

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excess of onhand assets to TAVSC's with allowance deficiencies. Units now holding the M287 will report them to their TAVSC for accountability and issue. Redistributions will be coordinated with the Weapon System/Equipment Support Manager, MARCORLOGBASES (Code 833), Albany, GA.

d. Replaced Items. The M287 Trainer replaces the M190 (NSN 1055-00-143-6900, ID 07504A, TAMCN N60217) Subcaliber Device for use in training to employ the M136 AT4. The AT4 has replaced the M72A2 LAAW and the M287 will be replacing the M190. However, the M190 may be retained if there is a need to conduct training for the M72A2. When no requirements exist for the M190 disposition, instructions will be requested from COMMARCORLOGBASES (Code 833), Albany, GA.

2. System Description

a. Administrative Information

- (1) Nomenclature: Launcher, Practice, Subcaliber
Ammunition, M287
- (2) TAMCN: Not required
- (3) ID Number: 09134A
- (4) NSN: 1055-01-207-2684
- (5) Unit of issue: Each
- (6) Unit Standard Package: 5
- (7) Unit Cost: \$1,995
- (8) Support Cost: N/A
- (9) SAC: 3
- (10) Equipment Density: Normal
- (11) Standardization: Yes
- (12) Readiness Reporting: N/A
- (13) Petroleum, Oil and Lubricants: Per TM
09134A-12&P/1

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b. Physical Characteristics

Operation
Configuration

- (1) Length: 40 in
- (2) Diameter: 6 1/2 in
- (3) Cube: .7681 ft
- (4) Weight: 15 lbs ea
- (5) Stowage: .7681 cu ft
- (8) Power Requirements: N/A

c. Operational Characteristics and Capabilities

(1) The M287 Trainer is a fully self-contained, lightweight, man-portable, shoulder-fired training device similar in appearance and operation to the M136 AT4 LAAW system. The M287 Trainer consists of a 9mm practice launcher with specifically designed 9mm tracer ammunition, DODID A358 (unique round). The M287 Trainer comes complete with front and rear sights. As with the actual AT4, the sights are protected by sliding covers and when the covers are opened, the sights will automatically erect. The rear sight is adjustable from 100 to 500 meters (initially set at 200 meters). A shoulder strap and carrying sling are provided. This item does not contain any radioactive components.

(2) The M287 Trainer is a reusable system capable of being fired from the standing, sitting, kneeling, and prone positions. The M287 Trainer shall not be used during classroom instruction on the AT4, during handling drills or during field exercises. These restrictions are placed on the use of the M287 Trainer to prolong its service life.

d. Associated New Systems. N/A

3. Logistics Support

a. Maintenance Support

(1) General Maintenance Plan. The M287 Trainer requires only first and second echelon maintenance. Maintenance for the

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entire M287 Trainer system will be accomplished at the organizational level, and calibration is not required.

(2) Maintenance Concept. The M287 Trainer will be maintained per TM 09134A-12&P. Maintenance will be limited to first echelon procedures performed by the user, and second echelon maintenance performed by an Infantry Weapon Repairer, MOS 2111. The Marine Corps will use the Maintenance Allocation Chart for the M287 Trainer as illustrated in TM 09134A-12&P. When corrective maintenance actions by the Infantry Weapon Repairer fail to restore the M287 Trainer to serviceable condition, it should be returned to the TAVSC for disposal per Support Activity Supply System procedures of UM P4400.124.

b. Contractor Support Requirements. N/A

(1) Depot Support. N/A

(2) Interim Contractor Support. N/A

c. Manpower/Personnel and Training

(1) Personnel Requirements. There are no new manpower and personnel requirements resulting from the fielding of the M287 Trainer.

(2) Training Requirements

(a) Instructor and Key Personnel Training. This training was completed during 4th Qtr, FY87 at Marine Corps Schools of Infantry.

(b) New Equipment Training (NET). NET will be the responsibility of gaining units. Material presented in the TM 09134A-12&P is sufficient to provide the basis for developing local lesson plans.

(c) Maintenance Training. First and second echelon maintenance training will be the responsibility of local commanders. No special training is required for the unit's Infantry Weapon Repairer, MOS 2111. The units will use TM 09134A-12&P/1 as a guide in conducting maintenance training.

(3) Training Support Items. A low cost mockup of the AT4 can be fabricated from expended AT4 Field Handling Trainer launch tubes as described in TI 09134-34/2.

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Manuals	Maintenance and Operation of M287	TM 09134A-12&P/1
	Employment of the AT4	FM 23-25
	Maintenance & Operation of AT4	TM 9-1340-886-14

Ranges The M287 has a maximum range of 1600 meters. Firing of this subcaliber device is restricted to appropriate live-fire ranges.

d. Supply Support. The initial issue package (IIP), project code F3F, was issued during the 4th Qtr, FY90. The IIP included spares for the M287's already fielded and those that will be fielded. Any additional purchases will be requisitioned through normal supply channels.

e. Support Equipment

(1) Special Tools. The items listed below are required for organizational maintenance:

<u>Tool</u>	<u>NSN</u>
Rod & Brush Set	1005-00-726-6109
Socket Head Key (6mm)	5120-01-045-4891
Socket Head Key (5mm)	5120-00-900-9344
Socket Head Key (4mm)	5120-01-045-4889
Socket Head Key (3mm)	5120-01-045-4888

(2) Common Tools. The item listed below is required for organizational maintenance:

<u>Nomenclature</u>	<u>TAMCN</u>
Tool Kit, Small Arms Repair	E2900

(3) Special Purpose Test Equipment. N/A

(4) General Purpose Test Equipment. N/A

(5) Test Program Sets. N/A

(6) Other Support Equipment. N/A

f. Technical Publications

(1) Title: Operator and Organizational Maintenance Manual

(2) PCN: 18409131000

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(3) TM No.: 09134A-12&P/1

(4) Type: Final

g. Computer Resource Support. N/A

h. Facilities. N/A

i. Packaging, Handling, Storage, and Transportation.

There are no special packaging, handling, storage or transportation requirements for the M287 Trainer. The Trainer comes from the manufacturer sealed in cellophane and packed five to a plywood box. A cutting tool for removing the cellophane barrier is included in each box. Four boxes are banded to a pallet for shipment.

j. Warranties. N/A

4. Actions Required by Gaining Commands to Place Equipment in Service

a. Material Defects Reporting. Defects will be expeditiously reported to COMMARCORLOGBASES (Code 808), Albany, GA with an information copy to COMMARCORSYSCOM (CBG), Quantico, VA. Any telephone notification will be followed by a SF368 prepared per MCO 4855.10. A copy of all Defects Reporting will be provided to the local TAVSC's and CG MCCDC (TE35DM4), Quantico, VA 22134-5080.

b. Security. The M287 Trainer is classified as a Category 4 sensitive weapon by the DoD 5100.76-M, Physical Security of Sensitive Conventional Arms, Ammunition, and Explosives. It must be stored in a secure facility as described in OPNAVINST 5530.13A.

c. Reporting. TAVSC's will report all serial numbers, subsigned to each unit, to NWSC, Crane per MCO 8300.1C. The M287 may be placed inservice upon receipt, provided all technical manuals are onhand, with an information copy to CG MCCDC (TE35DM4), Quantico, VA 22134-5080.

d. Allowances. Per MCO 4400.172 all allowance changes will be approved by the CG MCCDC (TE35), Quantico, VA.

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M-287 QUANTITIES TO THE TAVSC'S

<u>COMMAND</u>	<u>AUTH</u> <u>QUANTITY</u>	<u>AAC</u> <u>CODE</u>
CG, MCCDC, Quantico		M93031
TBS, MC School, MCCDC	20	
MARCOR Instr-Admin, Aberdeen Prov Gnd, MD	1	
HQ BN, Quantico	4	
Sub-Total	25	
CG, MCAS, Cherry Point, NC		M00146
H&HS, MCAS	5	
Sub-Total	5	
CG, MCB, Camp Lejeune, NC		M67001
School of Infantry-East	35	
HQ Bn, MCB, Camp Lejeune		
2d Marine Division	10	
HQ Co, HQ Bn	5	
3 - HQ Co, Inf Regt	12	
9 - H&S Co, Inf Bn, Inf Regt	90	
HQ Btry, D/S (T)Bn (M198), Arty Regt	15	
HQ Btry, G/S (T)Bn (M198), Arty Regt	5	
HQ Btry, G/S (SP)Bn, Arty Regt	5	
H&S Co, Recon Bn	5	
H&S Co, Cbt Engr Bn	5	
H&S Co, 2d LAI Bn	5	
H&S Co, 2d Tank Bn	5	
H&S Co, AAV Bn		
2d SRI Group	5	
H&S Co	5	
Force Recon Co	3	
H&S Co, Radio Bn	5	
H&S Co, Comm Bn		
2d FSSG	5	
H&S Co, H&S Bn	20	
Sub-Totals	240	
CO, MCAS, New River		M00146
H&HS, MCAS, New River	2	
Sub-Totals	2	
CO, MCAS, Beaufort		M60169
H&HS, MCAS, Beaufort	2	
Sub-Totals	2	

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CG, MCRD, Parris Island		M00263
MCRD, PI	50	
Sub-Totals	50	
COMMARCORLOGBASES, Albany		M67004
MARCORLOGBASES, Albany	2	
Sub-Totals	2	
CG, MCB, Camp Pendleton		M00681
Schools Bn, MCB CPCA	10	
School of Infantry-West		
1st Marine Division	75	
HQ Co, HQ Bn	5	
3 - HQ Co, Inf Regt	12	
12 - H&S Co, Inf Bn, Inf Regt	120	
HQ Btry, D/S (T)Bn, (M198), Arty Regt	15	
HQ Btry, G/S (T)Bn, (M198), Arty Regt	5	
HQ Btry, G/S (SP) Bn, Arty Regt	5	
H&S Co, Recon Bn	5	
H&S Co, Cbt Engr Bn	5	
H&S Co, 1st LAI Bn	5	
H&S Co, 1st Tank Bn	5	
H&S Co, AAV Bn		
1st SRI Group	5	
H&S Co	5	
Force Recon Co	3	
H&S Co, 1st Radio Bn	5	
H&S Co, 1st Comm Bn		
1st FSSG	5	
H&S Co, H&S Bn	20	
Sub-Totals	310	
CG, MCRD, San Diego		M34202
MCRD, San Diego	50	
Sub-Totals	50	
CG, MCB, Camp Butler		M20210
H&S Bn, MCB, Camp Butler	5	
H&HS, MCAS, Futenma		
3d Marine Division	2	
HQ Co, HQ Bn	5	
2 - HQ Co, Inf Regt	8	
HQ Btry, D/S(T) Bn (M198), Arty Regt	15	
HQ Btry, G/S(T) Bn (M198), Arty Regt	5	
HQ Btry, G/S (SP) Bn, Arty Regt	5	

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H&S Co, Recon Bn	5	
H&S Co, 3d LAI Bn	5	
H&S Co, Cbt Engr Bn	5	
H&S Co, AAV Bn		
3d SRI Group	5	
H&S Co	5	
Det Force Recon Co	3	
Det Radio Bn	5	
H&S Co, Comm Bn		
3d FSSG	5	
H&S Co, H&S Bn	20	
Sub-Totals	103	
CG, MCAS, El Toro		M60050
H&HS, MCAS, El Toro	5	
Sub-Totals	5	
CO, MCAS, Yuma		M62974
H&HS, MCAS, Yuma	2	
Sub-Totals	2	
CO, MCAS, Kaneohe Bay		M00318
H&HS, MCAS, Kaneohe Bay		
1st Marine Brigade	3	
1 - HQ Co, Inf Regt	4	
3 - HQ Co, Inf Bn, Inf Regt	30	
Det HQ Btry, 12th Mar Regt	2	
HQ Btry 1/12	2	
A Co (Rein), 3d CEB	2	
A Co (Rein), 3d Recon	2	
Det A Co, 3d AA Bn	2	
Sub-Totals	47	
CO, MCAS, Iwakuni		M62613
H&HS, MCAS, Iwakuni	5	
Sub-Totals	5	
CG, MARCORLOGBASES, Barstow		M38010
MARCORLOGBASES, Barstow	2	
Sub-Totals	2	
CG, MCAGCC, Twentynine Palms		M67399
HQ Bn, MCAGCC	5	
HQ Co, 7th Mar Regt	4	
H&S Co, 1st Bn, 7th Mar	10	
H&S Co, 3d Bn, 7th Mar	10	

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TOW Co, 3d Tank Bn	10	
H&S Co, 3d LAI	5	
Sub-Totals	44	
USMCR (Reserve)		
4th Marine Division		M21405
+H&S Co, 4th Tank Bn	2	
H&S Co, 8th Tank Bn	2	
H&S Co, Recon Bn	6	
Force Recon Co	2	
HQ Btry, Arty Regt		
4th FSSG	20	
H&S Co, H&S Bn		
4th MAW	40	
H&HS Co, 4th MAW	5	
9 - H&S Co, Inf Bn, Inf Regt	90	
+ (1st Bn, 23d Marines - 10)		
+ (1st Bn, 24th Marines - 10)		
+ (1st Bn, 25th Marines - 10)		
+ (2d Bn, 23d Marines - 10)		
+ (2d Bn, 24th Marines - 10)		
+ (2d Bn, 25th Marines - 10)		
+ (3d Bn, 23d Marines - 10)		
+ (3d Bn, 24th Marines - 10)		
+ (3d Bn, 25th Marines - 10)		
(+ - See Below for Unit Addresses with Activity Address Codes)		
Sub-Totals	167	

AAC

CODE

ADDRESS

H&S Company

M14111

1st Bn, 23d Marines

1902 Old Spanish Trail

Houston, TX 77054-2004

H&S Company

M14121

2d Bn, 23d Marines

Navy and Marine Corps Reserve Center

6337 Balboa Blvd

Encino, CA 91316-1501

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H&S Company 3d Bn, 23d Marines Navy and Marine Corps Reserve Center 5010 Parkshore Drive New Orleans, LA 70146-8656	M14131
H&S Company 1st Bn, 24th Marines Navy and Marine Corps Reserve Center 7600 E. Jefferson Avenue Detroit, MI 48214-9982	M14161
H&S Company 2d Bn, 24th Marines Marine Corps Reserve Training Center 3034 60 W. Foster Avenue Chicago, IL 60625-4830	M14170
H&S Company 3d Bn, 24th Marines 10810 Natural Bridge Road Bridgeton, MO 63044-2314	M14181
H&S Company 1st Bn, 25th Marines Building 1017 Camp Edwards, MA 02542-0013	M14211
H&S Company 2d Bn, 25th Marines Marine Corps Reserve Training Center 605 Stewart Avenue Garden City, NY 17530-4761	M14221
H&S Company 3d Bn, 25th Marines Marine Corps Reserve Training Center 5572 Smith Road Brookport, OH 44142-2027	M14231

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H&S Company
4th Tank Bn
9955 Pomerado Road
San Diego, CA 92145-5860

M21405

TOTAL M-287'S FIELDDED TO FMF:	1061
BALANCE	39*
TOTAL QUANTITY ACQUIRED	1100

* - RECOMMEND MARCORLOGBASES, ALBANY STORE THIS QUANTITY AND WILL BE ISSUED WHEN REQUIRED TO THE FMF FOR REPLACEMENTS. THE FMF WILL BE PROVIDED REPLACEMENTS UNTIL THIS QUANTITY HAS BEEN EXPENDED. CG MCCDC (TE35DM4) WILL ADVISE COMMARCORLOGBASES, ALBANY IN WRITING WHEN REPLACEMENTS ARE ISSUED.

Appendix A to
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