



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

MCO 3571.12
SSED-38
6 Aug 92

MARINE CORPS ORDER 3571.12

From: Commandant of the Marine Corps
To: Distribution

Subj: MATERIEL FIELDING PLAN (MFP) FOR THE TOOL SET, EXPLOSIVE
ORDNANCE DISPOSAL, X-RAY, MK 32 MOD 1

Ref: (a) MCO P4105.3

Encl: (1) Materiel Fielding Plan (MFP) for the Tool Set,
Explosive Ordnance Disposal, X-Ray, MK 32 MOD 1

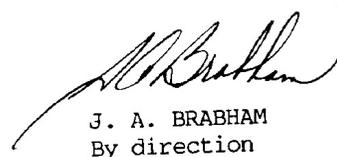
1. Purpose. To provide field commanders with information and instructions concerning the Tool Set, EOD, X-Ray, MK 32 MOD 1. This Order is being published in accordance with the reference.

2. Action. The commanders of each organizational element concerned shall ensure implementation of the provisions of the enclosure.

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

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J. A. BRABHAM
By direction

6 Aug 92

MATERIEL FIELDING PLAN (MFP)
FOR THE
TOOL SET, EXPLOSIVE ORDNANCE DISPOSAL,
X-RAY, MK 32 MOD 1

1. Introduction

a. Source of Requirement. The TOOL SET, EOD, X-RAY, MK 32 MOD 1 is an upgraded version of the TOOL SET, EOD, X-RAY, MK 32 MOD 0 which has been in service since 1982. No original source data exists for the TOOL SET, EOD, MK 32 MOD 1. It is a third-generation portable X-Ray instrument, fulfilling a requirement originally set in the late 1950's. That requirement provides EOD technicians the capability to examine explosive ordnance and Improvised Explosive Devices (IED's) rapidly and remotely without disturbing the explosive item. Hereafter, refer to the TOOL SET, EOD, X-RAY, MK 32 MOD 1 as the MK 32 MOD 1.

b. Point of Contact. The point of contact responsible for fielding and logistical support is:

MARCORSYSCOM (SSED-38)
PROJECT OFFICER

LtCol John Kierepka
(DSN) 364-6814/6815

c. Fielding Methodology

(1) General Fielding Plan. The MK 32 MOD 1 is an upgrade of the TOOL SET, EOD, X-RAY, MK 32 MOD 0 currently held within EOD teams. Fielding of the MK 32 MOD 1 will be vertical. All MK 32 MOD 0 Tool Sets will be modified at the Naval Explosive Ordnance Disposal Technology Center (NAVEODTECHCEN), Indian Head, MD. NAVEODTECHCEN (Code 45) is the joint service depot repair facility for this tool set. MK 32 MOD 0 Tool Sets held at the Marine Corps Detachment (MCD), NAVEODTECHCEN will be upgraded first. After upgrade to the MK 32 MOD 1 configuration they will be exchanged on a one-for-one basis with EOD units located in a geographical area. This will ensure the uninterrupted operational readiness of those co-located EOD teams. Appendix A shows the allowances and planned delivery schedule for the MK 32 MOD 1.

(2) Method of Fielding. Upgraded MK 32 MOD 0 Tool Sets held at MCD, NAVEODTECHCEN will be force-fed to field commands along with instructions to return the MK 32 MOD 0 Tool Set to MCD, NAVEODTECHCEN. All MK 32 MOD 0 Tool Sets returned to MCD, NAVEODTECHCEN will in turn be modified, then force-fed to field commands in the next geographical area as identified in appendix A. This process will continue until all MK 32 MOD 0 Tool Sets have been upgraded to the MK 32 MOD 1 configuration and MCD, NAVEODTECHCEN stocks replenished. New components

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added as part of this upgrade will be procured by MCD, NAVEODTECHCEN and inserted in the tool set prior to fielding. No modification kit or special equipment is required to support initial fielding of the MK 32 MOD 1.

d. Replaced Systems Equipment

(1) The MK 32 MOD 0 Tool Set indicated below will be replaced by the MK 32 MOD 1. Field commands will be force-fed the MK 32 MOD 1 by MCD, NAVEODTECHCEN. Upon receipt, field commands will return the replaced equipment to MCD, NAVEODTECHCEN.

<u>TAMCN</u>	<u>NOMENCLATURE</u>	<u>NSN</u>
E3018 II E	Tool Set, EOD, X-Ray, MK 32 MOD 0	1385-01-022-3598.

(2) Upon completion of the upgrade process, MCD, NAVEODTECHCEN will request disposition instructions for replaced components from the Commander (Code 833-2), Marine Corps Logistics Bases, Albany, GA, citing the appropriate condition code per MCO P4400.82F.

2. System Description

a. Administrative Information

- (1) Nomenclature: TOOL SET, EOD, X-RAY, MK 32 MOD 1
- (2) TAMCN: E3018 IIE
- (3) SAC: 3
- (4) NSN: 1385-01-270-4670
- (5) ID Number: 08545B
- (6) Unit of Issue: SE
- (7) Unit Cost: \$6650.00
- (8) Support Cost: \$600.00 Actual costs will differ between units based on the quantity of radiographic paper (X-Ray film) used.
- (9) Petroleum, Oil, and Lubricants: Not Applicable
- (10) Equipment Density: Normal Density
- (11) Readiness Reporting: Non-MARES reportable

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b. Physical Characteristics. The major components of the MK 32 MOD 1 are stored and transported in two carrying cases. Its two carrying cases are similar in appearance to those of the MK 32 MOD 0, but provide different storage arrangements. Figure 2-1 shows the general arrangement of the MK 32 MOD 1. The following information is provided for the tool set.

	<u>Operational, Storage, and Shipping Configuration</u>
(1) Length: Box 1 or 2	17.75 in. ea.
(2) Width: Box 1 or 2	21.25 in. ea.
(3) Height: Box 1 or 2	10.75 in. ea.
(4) Square: Box 1 or 2	2.75 ft. ea.
(5) Cube: Box 1 or 2	2.50 ft. ea.
(6) Weight: Box 1 (X-Ray)	50 lbs.
Box 2 (Processor)	52 lbs.
(7) Stowage:	5 cu ft.

c. Operational Characteristics. The MK 32 MOD 1 is a lightweight, portable X-Ray system which enables an operator to obtain completed radiographs of an object within minutes. The system is intended primarily to be used by EOD technicians for radiographing Improvised Explosive Devices (IED's). The radiographs enable the EOD technician to determine the presence or absence of possible explosive components and/or associated fuzing without disturbing, opening, or disassembling a suspected item. Radiographs can also be used to determine the internal design and method of operation of munition items for technical intelligence and EOD purposes.

The MK 32 MOD 1 contains the components necessary to expose and process radiographic film and some spare parts for required maintenance. It provides the same capabilities as the MK 32 MOD 0 Tool Set and shares many identical components. The only differences are the processor and type of radiographic paper (X-Ray film). The MK 32 MOD 1 uses 8 X 10-inch radiographic paper and electromechanical processor which gives the EOD technician significantly better radiographs at lower cost.

d. Associated Systems/Equipment. Not applicable.

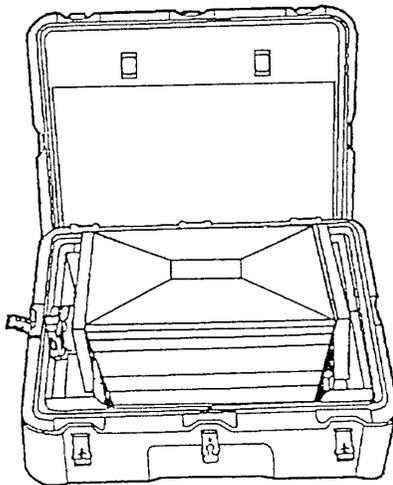
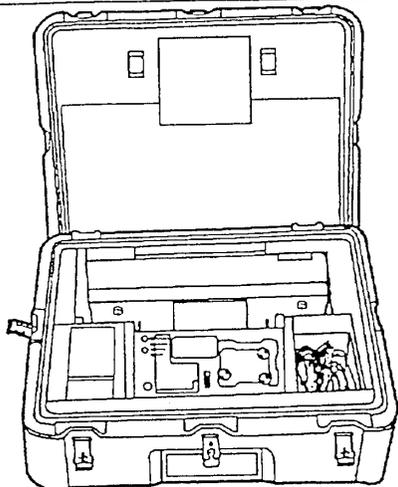
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1385-01-270-4670

TOOL SET, X-RAY, EOD, MK32, MOD 0
TOOL SET, X-RAY, EOD, MK32, MOD 1

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FIGURE 2-1. TOOL SET, EOD, MK 32, MOD 0 AND 1 (X-RAY)

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3. Logistic Support

a. Maintenance Support. There are no changes in existing maintenance support required.

b. Contractor Support Requirements. Not applicable.

c. Manpower, Personnel, and Training

(1) Personnel Requirements. No new or additional personnel requirements exist with this tool set. The MK 32 MOD 1 will be used by existing MOS's 2305 and 2336.

(2) Training Requirements. There are no new or additional training requirements for this tool set. Normal EOD team training will maintain the proficiency of technicians in the use of this tool set.

(3) Training Support Items. Not applicable.

d. Supply Support. Supply support for this upgraded tool set will not change.

e. Support Equipment. This tool set is a stand alone item. No support equipment from 1st through 4th echelon is required.

f. Technical Publications

<u>PUB NUMBER</u>	<u>PUBLICATION TITLE</u>	<u>PCN</u>
SL-3-08545	Components List For Tool Set, X-Ray, EOD, MK 32 MOD 0/1	12308545000

g. Computer Resources Support. Not applicable.

h. Facilities. No facilities requirements or Military Construction (MILCON) projects are pertinent to this item.

i. Packaging, Handling, Storage and Transportation. No special requirements exist for this tool set.

4. Actions Required to Place Equipment in Service

a. Gaining Command

(1) On receipt of the MK 32 MOD 1 make appropriate changes to unit records to reflect the new tool set serial number.

(2) Material defects reporting will be in accordance with MCO 4855.10A.

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(3) Return the replaced tool set, MK 32 MOD 0, NSN 1385-01-022-3598, to Officer in Charge, Marine Corps Detachment, NAVEODTEHCEN, 2008 Stump Neck Road, Indian Head, MD 20640-5098. All 10 X 12 in. radiographic paper should be disposed of per local procedures.

(4) Requests for authorization to place the MK 32 MOD 1 in service are not required.

b. Marine Corps Detachment, NAVEODTEHCEN. (Remote storage site for EOD equipment)

(1) Procure new components for the MK 32 MOD 1 and issue complete MOD 1's to all commands.

(2) Notify all concerned activities of shipping information or any delays that will affect delivery to commands.

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LIST OF ALLOWANCES AND DELIVERY SCHEDULES

<u>T/E NO</u>	<u>UNIT</u>	<u>ALLOWANCE</u>	<u>PLANNED</u>			
			<u>FY92/3 QTR</u>			
			<u>4</u>	<u>1</u>	<u>2</u>	<u>3</u>
7401	HQ MCCDC QUANTICO VA	1	X			
7511	HDQTRS & SUP BN MCB CAMP LEJEUNE, NC	1	X			
7611	HDQTRS & SUP BN MCB CAMP PENDLETON, CA	1	X			
7700	MC AIR-GROUND COMBAT CENTER 29 PALMS, CA	1		X		
7800	MCB CAMP SMEDLEY D. BUTLER, OKINAWA, JA	1				X
8411	H&HS MCAS CHERRY POINT, NC	1		X		
8421	H&HS MCAS EL TORO, CA	1		X		
8451	H&HS MCAS IWAKUNI, JA	1				X
8472	SOMS MCAS KANEOHE BAY, OAHU, HI	1		X		
8476	SOMS MCAS YUMA, AZ	1		X		
8485	H&HS MCAS BEAUFORT, SC	1	X			
9935	*EOD DET NSWC INDIAN HEAD, MD (HQMC)	12				X
B3351	LANDING SPT CO, BRIG SERV SPT GROUP-1	1	X			
B8910	MALS, MAG ROTARY-WING/1ST MEB	1	X			
N3151	H&SCO ENGR SPT BN 1ST FSSG	4		X		
N3251	H&SCO ENGR SPT BN 2D FSSG	4		X		
N3351	H&SCO ENGR SPT BN 3D FSSG	4		X		
N3422	*AMMO CO SUP BN 4TH FSSG	4				X
N8810	*MALS, MAG FIXED-WING (X8)	1				X
N8910	*MALS, MAG ROTARY-WING (X7)	1				X

* Purpose Code A and C held by MCD, NAVEODTEHCEN, Indian Head,
MD

Appendix A to
ENCLOSURE (1)