



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

MCO 1543.8

C21

21 Dec 92

MARINE CORPS ORDER 1543.8

From: Commandant of the Marine Corps  
To: Distribution List

Subj: MATERIEL FIELDING PLAN FOR THE TOOL SET, SHOP, OXYGEN  
EQUIPMENT

Encl: (1) Materiel Fielding Plan for the Tool Set, Shop,  
Oxygen Equipment

1. Purpose. Enclosure (1) is provided as information and instructions concerning the fielding and support for the Tool Set, Shop, Oxygen Equipment.
2. Information. The Tool Set, Shop, Oxygen Equipment provides a standard set of tools needed for maintenance on closed circuit diving equipment. The set contains tools and test equipment that are needed to complete preventive and corrective maintenance at the organizational and intermediate levels. This tool set will only be used in an oxygen safe room.
3. Action. The commanders of each organizational element concerned shall ensure implementation of the provisions of this Order.
4. Reserve Applicability. This Order is applicable to the Marine Corps Reserve.

  
J. A. BRABHAM  
By direction

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MATERIEL FIELDING PLAN  
FOR THE  
TOOL SET, SHOP, OXYGEN EQUIPMENT

1. Introduction

a. Source of Requirement. Commanding General (CG), Marine Corps Combat Development Command (MCCDC) message 252000Z Jul 90 identified the requirement for additional closed circuit diving equipment for Special Operational Capable (SOC) units in the Marine Corps. This Tool Set will be primarily used to perform up to fourth echelon maintenance on the Breathing Apparatus, Underwater (UBA), TAMCN C4185; Life Preserver Vest, TAMCN K4516; Oxygen Transfer Pump System (OTPS), TAMCN C2276; and other Oxygen transferring equipment.

b. Points of Contact

<u>Name</u>	<u>Command/Telephone</u>
GySgt Scriven	Project Officer Diving Equipment MARCORSYSCOM (C2IA) Quantico, VA 22134-5010 AV/DSN 278-2914 COML: (703) 640-2914
Maj Thompson	ILS Officer Diving Equipment MARCORSYSCOM (C2IL) Quantico, VA 22134-5010 AV/DSN 278-2234 COML: (703) 640-2234
Bob Greenleaf	Inventory Manager MARCORLOGBASES (Code 835-1) Albany, GA 31704-5000 AV/DSN 567-6534 COML: (912) 439-6534
Thomas Linden	Equipment Specialist MARCORLOGBASES (Code 835-1) Albany, GA 31704-5000 AV/DSN 567-6534 COML: (912) 4399-6534

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C. Fielding Methodology

(1) General Fielding Plan. The Tool Set, Shop, Oxygen Equipment will be fielded vertically to the units with the greatest need. Appendix A identifies the List of Allowances and Delivery Schedule. Appendix B identifies the Schedule of Events.

(2) Method of Fielding. There will not be an initial issue of the tool set. The owning units will requisition their tool sets with Operations and Maintenance (O&M) funds. Additional or replacement sets must be requisitioned using Military Standard Requisitioning and Issue Procedures (MILSTRIP) from Commander, Marine Corps Logistics Bases (COMMARCORLOGBASES) (Code 835-1), Albany, GA.

d. Replaced Systems/Equipment. This tool set does not replace any specific Marine Corps Tool Set. This set will replace all locally purchased closed circuit diving tools which may currently exist in a using/owning unit's inventory and in return provide a standard tool set.

2. System Description

a. Administrative Information

(1) Nomenclature. Tool Set, Shop, Oxygen Equipment

(2) TAMCN. K4994IIE

(3) Stores Account Code (SAC). 1

(4) NAN. 5180-01-352-5497

(5) Unit of Issue (UI). Set

(6) Unit Cost (UC). \$10,000.00 (est)

(7) Support Cost. N/A

(8) Equipment Density. Normal

(9) Readiness Reporting. N/A

(10) Identification Number. 09658A

b. Physical Characteristics. The operational configuration of the tool set includes the dimensions of the OTPS since the tool set will only be used in an oxygen safe room.

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	<u>Operational Configuration</u>	<u>Storage/Shipping Configuration</u>
(1) <u>Length</u>	20 ft	6 ft
(2) <u>Width</u>	8 ft	3 ft
(3) <u>Height</u>	8 ft	18 fty
(4) <u>Square</u>	160 fty	18 fty
(5) <u>Cube</u>	1280 ft(3)	36 ft(3)
(6) <u>Weight</u>	4550 lbs	350 lbs
(7) <u>Stowage</u>	1280 ft(3)	18 ft(3)
(8) <u>Power Requirements</u>	N/A	N/A

c. Operational Characteristics. The tool set has been developed to provide a standard list of tools necessary to perform repairs on closed circuit diving equipment up to and including fourth echelon maintenance. Since closed circuit diving equipment is used to transfer pure oxygen to divers, it is imperative that the tools remain extremely clean to prevent contamination to the diving equipment. Therefore, other tools which may be used to repair other items or equipment should not be used in lieu of the tools in this set. In addition, the tools in this tool set should only be used to maintain oxygen transferring equipment. All intermediate (third and fourth echelon) maintenance tasks must be completed in an oxygen safe environment.

d. Associated/Related Systems/Equipment. This tool set has been designed to maintain all oxygen transferring equipment to include the UBA, TAMCN C4185; Life Preserver Vest, TAMCN 54516; and OTPS, TAMCN C2276.

### 3. Logistics Support

#### a. Maintenance Support

(1) All of the items in the tool set require first echelon maintenance by the using and the owing units. The basic tasks include the proper care, cleaning, and inventory requirements. The following items in the set require calibration and will need to be performed by a Navy calibration lab/facility as an intermediate maintenance task:

<u>NSN NUMBER</u>	<u>PART NUMBER</u>	<u>ITEM NAME</u>
	National Draegar R32272	Precision Metering Instrument

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<u>NSN NUMBER</u>	<u>PART NUMBER</u>	<u>ITEM NAME</u>
	National Draegar 4050379	Test Assembly, MPV
4220-01-249-0704		Test Assembly, Pressure
	National Draegar 4054115	Test Assembly, Regulator Pressure
	National Draegar 4054156	Test Kit, Bellows
4220-01-247-9697		Test Set, Bag, Breathing
4220-01-247-9695		Test Set, Valve, Safe
5120-01-139-5857		Wrench, Torque
5120-01-107-3733		Wrench, Torque

(2) Other than for calibration, none of the other items in the set require maintenance beyond first echelon.

b. Contractor Support Requirements

(1) Depot Support. None.

(2) Interim Contractor Support (ICS). None.

c. Manpower, Personnel, and Training

(1) Personnel Requirements. There is no impact on current personnel requirements. The current T/O strength will be used to operate and maintain the tool set.

(2) Training Requirements. There are no special training requirements needed to operate the tools in this set. Personnel (MOS 8653) that are authorized to repair the UBA or Life Preserver Vest should use the tool set to perform the necessary maintenance tasks.

(3) Training Support Items. None.

d. Supply Support

(1) Provisioning. All the provisioning has been accomplished.

(2) Replenishment. Owning units should requisition individual components and not attempt to requisition a complete tool set. Only individual components of the tool set can be replenished. This is done by submitting supply requisitions to

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COMMARCORLOGBASES (Code 835-1), Albany, GA. Since this set is a SAC 1 item, the owning units are required to use their own O&M funds.

e. Support Equipment

- (1) Special Tools. N/A
- (2) Common Tools. N/A
- (3) Special Purpose Test Equipment (SPTE). N/A
- (4) General Purpose Test Equipment (GPTE). N/A
- (5) Test Program Sets (TPS). N/A
- (6) Other Support Equipment. N/A

f. Technical Publications (TP). The Tool Set, Shop, Oxygen Equipment is supported by the SL-3-09658A for component part requisitioning and inventory purposes.

g. Computer Resources Support. N/A

h. Facilities. The tool set should be stored and used primarily in the OTPS. Using units may elect to use other facilities which qualify as oxygen safe if it is more convenient.

i. Packaging, Handling, Storage, and Transportation

(1) Packaging. There are no special packaging requirements.

(2) Handling. There are no special handling procedures.

(3) Storage. Components of the tool set should be stored in their appropriate containers. A case, NSN 6760-01-258-0449 and tool box, NSN 5140-00388-3416 are available with the set to provide sufficient storage for the tools. All the set will have a location in the OTPS.

(4) Transportability. There are no special transportation or transportability requirements.

j. Warranties. There are no specially procured warranties for items in the tool set that are marked with a Military Specification (MILSPEC) number. Applicable commercial warranties for non-MILSPEC items in the set will be overpacked with the tool set.

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4. Action Required To Place Equipment In Service

a. Gaining Commands

(1) Place the tool set on administrative deadline until all of the tasks specified in MCO P4105.3, paragraph 3b (1), page 3-17 are met.

(2) Request authorization to place the tool set in service from the Commanding Generals, FMFLant, FMFPac or 4th MarDiv once the tasks identified in 4a(1) above have been completed.

(3) Materiel Defects Reporting. If any of the contents of the tool set arrive damaged or missing, a SF 368 Quality Deficiency Report (QDR) should be submitted to COMMARCORLOGBASES, (808-1), Albany, GA. If any of the items become deficient from other than normal use, a QDR should be submitted. A QDR, with block 19 marked "yes," should also be completed if a deficiency occurs during the warranty period. The starting time of the commercial warranty will be recorded by the owning unit upon delivery. Understand the terms and conditions of the commercial warranties are the owning unit's responsibility. Any questions on the warranty should be addressed to COMMARCORLOGBASES, (Code 835-1), Albany GA.

(4) Retrograde of Existing Equipment. All of the tools or equipment which are currently being used in lieu of the tool set, should be replaced with the tools in this set. This will provide a standard set closed circuit tools for each of the OTPS's. The currently existing tools should be used to repair other items of equipment or returned to the unit Supply Officer for disposition.

(5) Obtaining Supporting Consumable. N/A

b. COMMARCORLOGBASES, Albany

(1) Assist in the life cycle management of the tool set.

(2) Ensure all items which require calibration are calibrated prior to issue.

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LIST OF ALLOWANCES AND DELIVERY SCHEDULES

ACTIVE FORCES

T/E NO	UNIT TITLE	NO. UNITS	UNIT ALLOW	PLANNED		
				FY 93 2 3 4		
N1412	Recon Co, 1st Inf Regt, 1st MarDiv	1	1	1		
N1412	Recon Co, 5th Inf Regt, 1st MarDiv	1	1	1		
N1422	Recon Co, 2d Inf Regt, 2d MarDiv	1	1	1		
N1422	Recon Co, 6th Inf Regt, 2d MarDiv	1	1	1		
N1432	Recon Co, 4th Inf Regt, 3d MarDiv	1	1	1		
N1432	Recon Co, 9th Inf Regt, 3d MarDiv	1	1	1		
N4618	Force Recon Co, 1st SRI Group	1	2	2		
N4718	Force Recon Co, 2d SRI Group	1	3	3		
N4818	Det, Force Recon Co, 3d SRI Group	1	3	3		

RESERVE FORCES

T/E NO	UNIT TITLE	NO. UNITS	UNIT ALLOW	PLANNED		
				FY 92 2 3 4		
N1442	Recon Co, Inf Regt, 4th MarDiv	2	1	2		
M4623	Force Recon Co, 4th MarDiv	1	1	1		

Total 17

Appendix A to  
ENCLOSURE (1)

SCHEDULE OF EVENTS

Begin Fielding	2d Qtr FY 93
Initiating Service Date	2d Qtr FY 93
Initial Operational Capability (IOC)	2d Qtr FY 93
Full Operational Capability (FOC)	2d Qtr FY 93

Appendix B to  
ENCLOSURE (1)