



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

MCO 10200.8  
PST  
16 Sep 91

MARINE CORPS ORDER 10200.8

From: Commandant of the Marine Corps  
To: Distribution List

Subj: MATERIEL FIELDING PLAN (MFP) FOR THE TOOL SET, FIELD  
MAINTENANCE (FM), 4TH ECHELON, FOR DETROIT DIESEL FAMILY  
OF ENGINES

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

Encl: (1) Materiel Fielding Plan (MFP) for the Tool Set, FM,  
4th Echelon, for the Detroit Diesel Family of  
Engines

1. Purpose. To provide guidance per references (a) and (b) to sustain the tool set and to document the circumstances under which the tool set was developed.

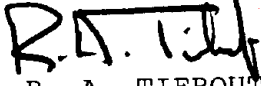
2. Information. Circa 1984 an ad hoc Tool Sets, Kits and Chests Standardization and Modernization Committee uncovered a duplication of components while reviewing special tool sets associated with tactical vehicles powered by Detroit Diesel engines. Subsequently SL-3-08827A, for a single tool set (Tool Set, FM, 4th Echelon for Detroit Diesel Family of Engines, TAMCN C6617) was developed by extracting components from three other tool sets. C6617 was later changed to C9670. Additional SAC-1 tools were procured and force-fed to using units by Commanding General (Code 835-2), Marine Corps Logistics Base, Albany, GA to complete the tool set. Using units were given a special allowance pending completion of certain actions. These actions were never formally documented. This Order corrects that deficiency. No new/additional items will be issued as a result of publication of this MFP. The enclosure is for record purposes and a basis for further action.

3. Action

- a. Gaining Command. Per paragraph 4 of the enclosure.
- b. CG MCRDAC. Per paragraph 4 of the enclosure.
- c. CG MCLB, Albany, GA. Per paragraph 4 of the enclosure.
- d. The CMC (LPP-4). Per paragraph 4 of the enclosure.

MCO 10200.8  
16 Sep 91

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

  
R. A. TIEBOU  
By direction

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MATERIEL FIELDING PLAN (MFP)  
FOR THE  
TOOL SET, FM 4TH ECHELON, FOR THE  
DETROIT DIESEL FAMILY OF ENGINES

1. Introduction

a. Source of Requirement. The Marine Corps has a variety of tactical equipment that utilizes Detroit Diesel engines. A requirement exists for 4th echelon maintenance facilities to possess certain engine tools/instruments for repair of these items. This effort is part of an overall program to standardize and modernize tool sets, kits, and chests.

b. Points of Contact

<u>TITLE</u>	<u>NAME</u>	<u>UNIT/CODE</u>	<u>COMMERCIAL/ (AV)</u>
Project Officer	Mr. R. Synder	CG MCRDAC (PST-A)	(703) 696-1157 (DSN) 226-1157
Item Manager	Ms. P. Crawford	CG MCLB Albany, GA (Code 835-1)	(912) 439-6535 (DSN) 567-6535

c. Fielding Methodology. No new or additional assets will be fielded with the publication of this Order. In 1984 (approximately), a HQMC ad hoc Tools Sets, Kits, and Chests Standardization and Modernization Committee developed Tool Sets, FM, 4th Echelon for the Detroit Diesel Family of Engines, TAMCN C6617, to provide 4th echelon maintenance shops with a full a full complement of tools and instruments to support the full range of Detroit Diesel engines. The Commanding General (Code 835-1) Marine Corps Logistics Base, Albany, GA, was tasked (and funded) to procure and distribute additional tools for the set. Engine tools were also extracted from the three tool sets listed below for inclusion into C6617.

(1) Tool Set, Field and Depot Maintenance, 4th and 5th Echelon, for Landing Vehicle, Tracked, LVTP7 Family of Vehicles, NSN 5180-00-476-1831, SL-3-07431A.

(2) Tool Kit, Euclid Tractor (Special); 2d Echelon, NSN 5180-00-800-3394; 3d Echelon, NSN 5180-00-800-3395; 4th Echelon, NSN 5180-00-800-3400; SL-3-06884 applies to all three NSN's.

ENCLOSURE (1)

(3) Tool Kit, 4th and 5th Echelon, Field and Depot Maintenance (General Support), Special Set, 1 1/4 Ton, 6X6 Truck, Cargo, M561 and Truck, Ambulance, M792, NSN 4910-00-880-4287, SL-3-06642A. Additionally, TAMCN C6617 was subsequently changed to C9670. For using units with components to tool set TAMCN C9670) missing, locally funded requisitions must be submitted to correct the deficiency. For using units that cannot account for end item assets, after local research and documentation of the circumstances, submit a requisition for the deficient asset per routine procedures.

d. Replaced Item. Not applicable

2. System Description

a. Administrative Information

(1) Nomenclature: Tool Set, FM, 4th Echelon for the Detroit Diesel Family of Engines

(2) TAMCN: C9670

(3) ID Number: 08827A

(4) NSN: 5180-01-160-4076

(5) LETDS Nomenclature: Not applicable

(6) Manufacturer: U.S. Marine Corps assembled components

(7) Manufacturer's Cage Code: Not applicable

(8) Manufacturer's Model Number: Not applicable

(9) Stores Account Code: 3

(10) Maintenance Echelon Code: 53

(11) Operational Test Code: The Tool Set contains individual components by NSN that have an OTC-3 assigned.

(12) Unit of issue: Set

(13) Unit Standard Package: 1

(14) Unit Cost: \$35,000.00

ENCLOSURE (1)

- (15) Support Cost: Not applicable
- (16) Readiness Reporting: Not applicable
- (17) Equipment Density: Normal
- (18) Petroleum, Oil, and Lubricants: Not applicable
- (19) Power Requirements: Not applicable
- (20) MHE Lift/Motor Transport Requirements: Not applicable

b. Physical Characteristics

	<u>Operational Configuration</u>	<u>Storage/Shipping Configuration</u>
(1) <u>Length</u> :	49 in	49 in
(2) <u>Width</u> :	49 in	49 in
(3) <u>Height</u> :	41 in	41 in
(4) <u>Square</u> :	16.7 sq ft	16.7 sq ft
(5) <u>Cube</u> :	57 cu ft	57 cu ft
(6) <u>Weight</u> :	600 lbs	600 lbs
(7) <u>Stowage</u> :	57 cu ft	57 cu ft
(8) <u>Power Requirements</u> :	Not applicable.	

c. Operational Characteristics. The tool set is composed of special tools, gages, instruments and mounting devices required by maintenance personnel to perform inspection and repair of Detroit Diesel engines in the following tactical vehicles:

Nomenclature

Cranes (several models)

LVS (all variants)

CUCV (all variants)

ENCLOSURE (1)

HMMWV (all variants)  
Howitzer, Self Propelled (all variants)  
LAV (all variants)  
Recovery Vehicle, Tank (all variants)  
Generator Sets (several models)  
Air Compressors (several models)  
Forklift Trucks (several models)

d. Associated Equipment. Not applicable.

3. Logistics Support

a. Maintenance Concept

(1) Organizational Level Maintenance. First echelon maintenance consists of normal cleaning, inventory, and replacement of unserviceable components as required. No 2d echelon maintenance is required.

(2) Intermediate Level Maintenance. Intermediate level maintenance is limited to components requiring calibration (and repair) and will be accomplished at 4th echelon by MOS's 2871 and 2874 at the supporting calibration facility. No 3d echelon maintenance is required.

(a) Calibration. Calibration of applicable components of the tool kit is required per TI-4733-15/1. Those items requiring calibration are identified by NSN in the Master Data List (MDL) with an Operational Test Code (OTC) of '3'.

(3) Depot Level Maintenance. Not applicable.

b. Contractor Support Requirements. Not applicable.

c. Manpower and Training. The tool set has been in use for several years. No additional manpower or training requirements are necessary.

ENCLOSURE (1)

d. Supply Support

(1) Initial Issue Provisioning. Not applicable

(2) Interim Support. Not applicable

(3) Follow-on Replenishment Support. Replenishment support is available through the normal resupply channels.

e. Support Equipment

(1) Special Tools. Not applicable.

(2) Special Purpose Test Equipment (SPTE). Not applicable.

(3) General Purpose Test Equipment. The Calibration Facility, Transportable, TAMCN A0175 and Test Instrument Repair Facility, TAMCN A2685 contain all required test equipment and calibration standards to conduct 4th echelon calibration maintenance on the tool set components requiring calibration.

(4) Test Program Sets. Not applicable.

(5) Other Support Equipment and Interfaces. Not applicable.

f. Technical Publications. Except for SL-3-08827A, PCN 12308827000 no tool set unique publications exist. For proper use of individual tools, refer to the applicable maintenance manual for the equipment previously listed.

g. Computer Resources Support. Not applicable.

h. Facilities Requirements/MILCON Project Status. No facilities requirements or MILCON projects are pertinent to this item.

i. Packaging, Handling, Storage and Transportation

(1) Packaging. No special packaging is required.

(2) Handling. Normal handling techniques employed for properly packed fragile electronic instrumentation should be used.

(3) Storage. Normal warehouse storage is required.

ENCLOSURE (1)

(4) Transportation. No special transportation requirements exist for the subject tool set.

j. Warranties. Not applicable.

k. Special Instructions. A tool box is not a component of the tool set. The tool set components are normally stored on shelves in using unit tool rooms for ready issue to mechanics. For deployment, once the components required for the mission are determined, a wooden box to accommodate transport and for protection of components must be locally constructed.

4. Action Required to Place Equipment in Service

a. Gaining Command. Assure the tool set, (C9670) is assembled/configured per SL-3-08827A.

b. CG MCRDAC. None.

c. CG MCLB, Albany, GA. None.

d. CMC (LPP-4). Activate all unit allowances upon publication of this Order. Delete all special allowances.

ENCLOSURE (1)



LIST OF ALLOWANCES

<u>T/E NO</u>	<u>UNIT TITLE</u>	<u>UNIT ALLOWANCES</u>
B3331	Maint Co, Bde Ser Spt Group	2
N3136	Gen Spt Maint Co, MaintBn, 1st FSSG	4
N3236	Gen Spt Maint Co, MaintBn, 2d FSSG	4
N3336	Gen Spt Maint Co, MaintBn, 3d FSSG	2
N3436	Gen Spt Maint Co, MaintBn, 4th FSSG	4
		16

Appendix A to  
ENCLOSURE (1)