TECHNICAL MANUAL

OPERATOR'S, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR FOOD SANITATION CENTER (FSC) NSN 7360-01-277-2558

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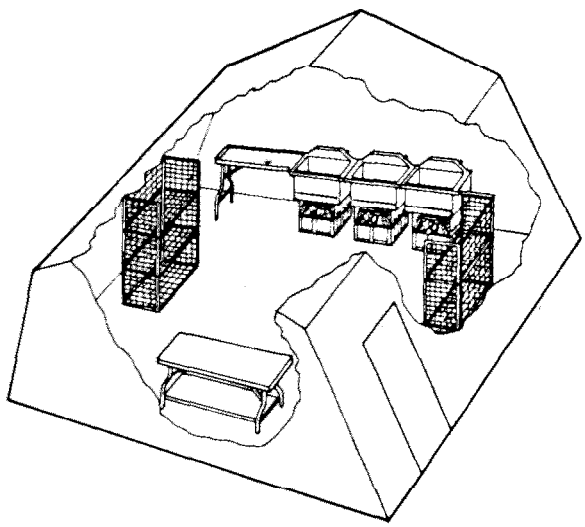

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30 MAY 1991

CHANGE
NO. 6

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DEPARTMENT OFTHE ARMY
WASHINGTON, D.C., 29 October 1999

Operator's, Unit and Direct Support
Maintenance Manual Including
Repair parts and Special Tools List

For

FOOD SANITATION CENTER (FSC)
MODEL FSC–90 NSN 7360–01–277–2558 (EIC: YCE)
MODEL FSC–99 NSN 7360–01–467–0508 (EIC:)

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Operator's, Unit and Direct Support
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3-1 through 3-4	3-1 through 3-4
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Maintenance Manual Including
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Operator's Unit and Direct Support
Maintenance Manual
Including Repair Parts and Special Tools List
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Operator's, Unit and Direct Support
Maintenance Manual
Including Repair Parts and Special Tools List
for

FOOD SANITATION CENTER (FSC)
NSN 7360–01–277–2558 (EIC: YCE)

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WARNING

CARBON MONOXIDE GAS CAN KILL YOU

- **D** Carbon monoxide gas is not visible and it has no smell, but it can kill you. Breathing air with carbon monoxide produces symptoms of headache, dizziness, loss of muscular control, a sleepy feeling, and coma. Brain damage or death can result from heavy exposure.

- **D** OPEN vents to provide ventilation and prevent the accumulation of carbon monoxide gas.

- **D** BE ALERT at all times during FSC operation for exposure symptoms. IMMEDIATELY VENTILATE the tent. If symptoms persist, move affected crew to fresh air and keep warm..

DO NOT PERMIT PHYSICAL EXERCISE:
if necessary, give artificial respiration.

FOR ARTIFICIAL RESPIRATION REFER TO FM 21–11

THE BEST DEFENSE AGAINST CARBON MONOXIDE POISONING IS GOOD VENTILATION.

- **D** Carbon monoxide occurs in exhaust fumes of fuel–burning equipment such as the Burner Units, and internal. combustion engines. Carbon monoxide can reach dangerous concentrations under conditions of no air movement. Precautions must be followed to insure crew safety when you operate this equipment.

- **D** Flammable liquids are used in the operation of the FSC. Death or severe injury may result from explosion or fire if personnel fail to observe the correct operating procedures for burner units..

- **D** Do not pressurize fuel tanks with anything other than the hand air pump to obtain starting pressure. If a fuel leak is detected, shut the unit off immediately. Do not operate the unit again until the deficiency has been corrected. .

- **D** If the flame goes out for any reason during operation, immediately close the generator flame valve to prevent accumulation of fuel and possible explosion..

- **D** Allow burner units and lanterns to cool before releasing air pressure from fuel tanks. Do not smoke and make sure there is no open flame in the vicinity. Fuel fumes are explosive and highly flammable.

- **D** If the pressure gage reaches the red area, immediately shut off the burner unit and remove it from the food sanitation equipment. Allow unit to cool before placing back in operation..

- **D** To prevent fires do not use flammable material as a base for the FSC. Fire may cause injury or death to personnel or damage the equipment.

- **D** Establish a safe lighting area that is a minimum of 50 feet from the servicing, refueling, fuel storage, cooking and sanitizing area..

- **D** When filling the fuel tank, always provide a metal to metal contact between the container and the fuel tank to avoid explosion from static electricity.

- **D** Extreme heat will cause tank pressure to increase because of fuel expansion. Make sure you start with prescribed pressure in accordance with TM 10–7360–204–13&P. For the M2/M2A and TM 10–7310–281–13&P for the Modern Burner Unit (MBU).

- **D** Do not fill the burner unit fuel tanks unless the burner unit is turned off and has been allowed to cool..

- **D** The burner units should be moved a minimum of 50 feet (15.3 meters) from the FSC and the fuel storage area prior to servicing. Do not smoke and ensure that there is no open flame in vicinity; fire or explosion may result.

- **D** Do not install an operating burner unit under a sink that is not filled with water..

- **D** Make sure you leave enough air space between the tent wall and the food sanitation equipment. When the burner units are lit, they get hot; frequently check for heating of the tent wall while the burner units are in use. Move the burner units further away from the tent wall if necessary. If hey are too close to the tent wall, they could ignite the tent..

- **D** Gasoline should be suspended only from a tent frame member. Lanterns should be located where the header and arch are seared together. Allow a minimum of 12 inches (30.5 cm) between the top of the lantern and the tent liner fabric. (See TM 10−8340−224−13). Place lanterns so that they will not be knocked down by or cause injury to personnel walking through the tent. Using 0.25 inch rope (manila) or wire secure the lantern and the liner or any fabric. After the lantern is in place fasten the hook and pile connecting finer sections together.

- **D** Allow lanterns to cool before releasing air pressure from the fuel tank. Do not smoke and make sure there is no open flame in the vicinity. Fuel fumes are explosive and highly flammable..

- **D** Do not add fuel to lanterns inside the FSC tent..

- **D** Do not hang fire extinguisher where you would have to walk through a possible fire to reach it...

- **D** Do not hang the fire extinguisher in an extremely hot or cold location (The nameplate on the unit tells you the exact temperatures it can withstand). Never throw it in a fire as it could explode.

- **D** Familiarize yourself with the location of the fire extinguisher and FSC exits. Make sure that a fire extinguisher is at hand when operating or servicing the burner units. .

- **D** Bleed all burner units and lanterns of air before storage..

- **D** Drain all fuel from equipment into fuel can before movement or storage.

- **D** Dry cleaning solvent. AA711 TY 1, used to clean parts is potentially dangerous to person and property. Avoid repeated and prolonged skin contact by wearing rubber or nonporous gloves when handling the solvent or material wet with dry cleaning solvent. Wash hands immediately after exposure with soap and water and use a lanolin based skin cream to prevent skin drying. Do not use near open flame or excessive heat. Rash point of solvent is 100 F (380C). Do not work with solvent in a closed room. Be sure there is good ventilation or the solvent vapors will build up in the air and become a poisonous mixture which can cause physical injury or even death.

- **D** Serious injury could occur if heavy equipment is moved/tilted without sufficient personnel to do the job. Use proper physical lifting procedures or use a suitable lifting device or dolly. Wear safety shoes, gloves, and other suitable protective clothing.

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TECHNICAL MANUAL
NO. 10-7360-211-13&P

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 30 May 1991

OPERATOR'S, UNIT, AND DIRECT SUPPORT, MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST

For

FOOD SANITATION CENTER (FSC)
MODEL FSC-90 NSN 7360-01-277-2558 (EIC: YCE)
MODEL FSC-99 NSN 7360-01-467-0508 (EIC:)

Current as of 1 November 1995

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes, or if you know of a way to improve these procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual directly to: Commander, US Army Soldier, Biological and Chemical Command, ATTN: AMSSB-RIM-E(N), Kansas St., Natick, MA 01760. You may also submit your recommended changes by E-mail directly to <amssb-rim-e@natick-amed02.army.mil>. A reply will be furnished directly to you. Instructions for sending an electronic 2028 may be found at the back of this manual immediately preceding the hard copy 2028.

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CHAPTER 1
INTRODUCTION

SECTION I. GENERAL INFORMATION

1-1. SCOPE.

a. Type of Manual. Operator's, Unit, and Direct Support Maintenance Manual.

b. Model Number and Equipment Name. Food Sanitation Center (FSC) NSN 7360-01-277-2558,

c. Purpose of Equipment. For sanitizing utensils and equipment used with the Modular Field Kitchen (MFK) which is covered in TM 10-7360-208-13&P. It is also used with the Trailer Mounted Field Kitchen, which is covered in TM 10-7360-206-13.

d. Equipment Requirements.

(1) The FSC includes the equipment required by Military Occupational Specialty (MOS) 94B/94F personnel for sanitizing pots, pans, and utensils used to feed troops in the field.

(2) The FSC requires water and gasoline to operate.

(3) To support the sanitizing requirements of the Modular Field Kitchen the tools and ancillary items supplied with the MFK will be used jointly to service and support the FSC and MFK.

(4) To support the sanitizing requirements of the Trailer Mounted Field Kitchen the tools and ancillary items authorized to the Kitchen will be used jointly to service and support the FSC and MFK.

1-2. MAINTENANCE FORMS AND RECORDS. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-751, The Army Maintenance Management Sys-terns (TAMMS).

1-3. REPORTING EQUIPMENT IMPROVEMENT OR RECOMMENDATIONS (EIR'S). If your Food Sanitation Center needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on an SF 368 (Quality Deficiency Report). Mail it to us at Commander, U.S. Army Soldier, Biological and Chemical Command, A'TTN: AMSSB-RIM-E(N), Kansas St., Natick, MA 01760. We will send you a reply.

1-4. DESTRUCTION OF ARMY MATERIAL TO PREVENT ENEMY USE. Refer to TM 750-244-3 for procedures covering the destruction of Army material to prevent enemy use.

1-5. PREPARATION FOR STORAGE OR SHIPMENT. Refer to para 4-15 for procedures used to prepare the FSC for storage or shipment.

a. Administrative Storage.

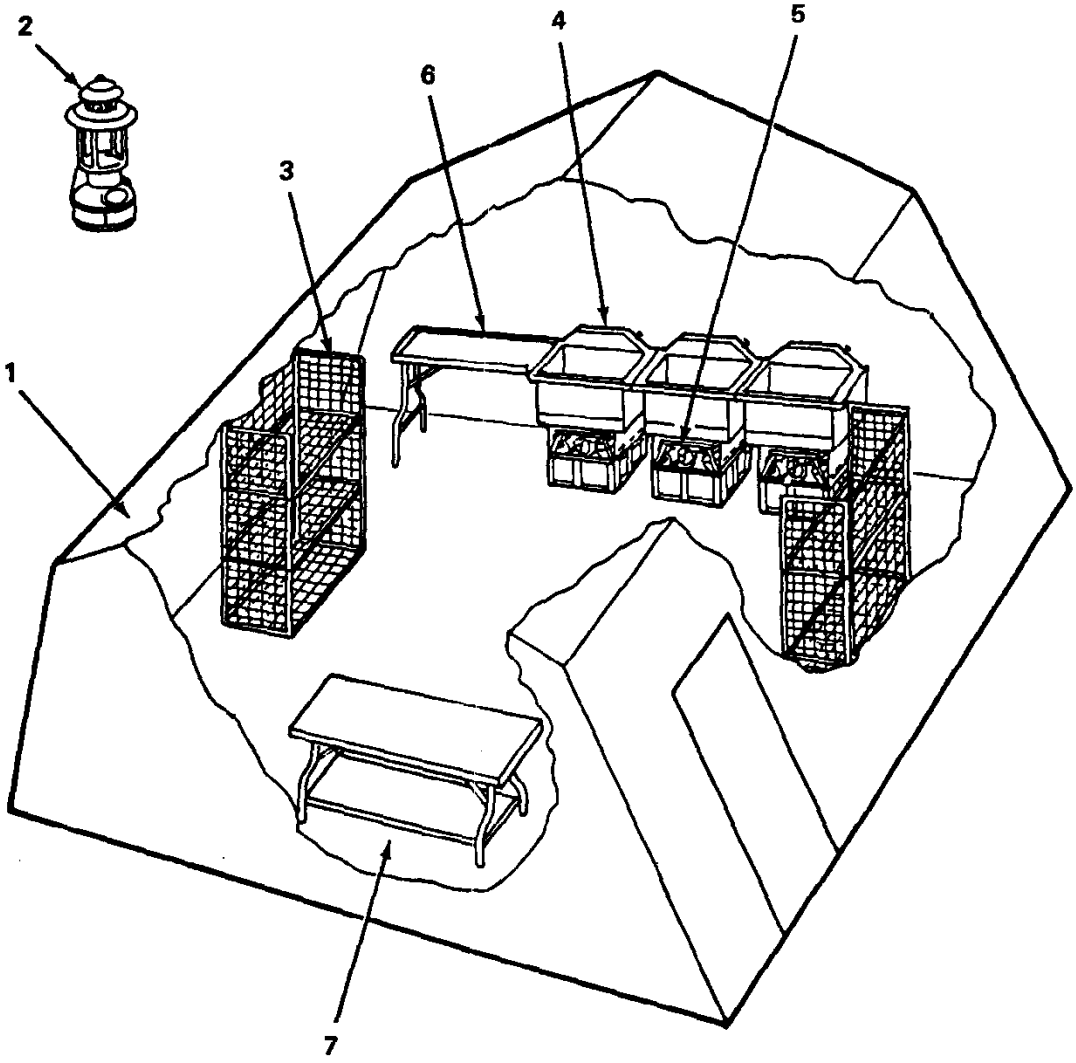
(1) Placement of equipment in administrative storage should be for short periods of time when a shortage of maintenance efforts exists. Items should be in mission readiness within 24 hours or within the time factors as determined by the directing authority. During the storage period appropriate maintenance records will be kept.

(2) Before placing equipment in administrative storage, current Preventive Maintenance Checks and Services (PMCS) should be completed, shortcomings and deficiencies should be corrected, and all Modification Work Orders (MWO's) should be applied.

b. Storage Site Selection. Inside storage is preferred for items selected for administrative storage. If inside storage is not available, trucks, vans, conex containers and other containers may be used.

1-6. NOMENCLATURE/COMMON NAME CROSS-REFERENCE LIST. A cross-reference list of the common names used throughout this manual to the official nomenclature is provided below:

COMMON NAME	OFFICIAL NOMENCLATURE
Tent	Tent, Extendable, Modular (16' x 20' Utility)
Lantern	Lantern, Gasoline
Work Table	Table Assembly, Folding Legs
Drain Table	Table Assembly, Sink Drain
M2 Burner Unit	Burner Unit, Gasoline, Model M2/M2A
MBU	Modern Burner Unit (MBU)
Modular Field Kitchen	Kitchen, Field, Modular



1. TENT
2. LANTERN, GASOLINE
3. STORAGE RACK ASSEMBLY
4. SINK ASSEMBLY
5. BURNER UNITS
6. DRAIN TABLE
7. WORK TABLE

Figure 1-1. Food Sanitation Center, Major Components/Equipment Orientation (Tent Cut-away)

Section II. EQUIPMENT DESCRIPTION AND DATA

1-7. EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES.

Characteristics, capabilities, and features of the Food Sanitation Center Include:

a. Used with the Modular Field Kitchen.

b. Used with the Trailer Mounted Field Kitchen.

c. Sanitize pots, pans and utensils used to feed troop units in the field.

d. Protects personnel, performing sanitizing activities from weather.

e. Major components are portable by two soldiers.

f. Sets-up on-site within 1-hour by four soldiers and prepares for movement within 30-minutes.

g. Provides sanitizing services for kitchens serving up to 400 troops on a sustaining basis.

h. Two FSC's may be combined to double capacity.

i. Day and night operation.

j. Transported on 5-ton tactical cargo vehicle, or 2-1/2 ton tactical cargo vehicle.

1-8. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (FIG. 1-1).

TENT (1) Contains all food sanitation equipment and protects personnel from weather.

LANTERN (2) Two gasoline lanterns used for night operations.

STORAGE RACK ASSEMBLY (3) Two storage rack assembly sets (each set formed by stacking three rack assemblies).

SINK ASSEMBLY (4) Three sink assemblies held together by two adapters over edge of sinks. Includes base and burner racks for installation of burners.

M2 BURNER UNIT/MODERN BURNER UNIT (MBU) (5) Three burner units are used to heat water In sink assemblies.

DRAIN TABLE (6) One drain table hooked to end of sink assembly: inclined for draining water.

WORK TABLE (7) Used as work area.

1-9. EQUIPMENT DATA (CONT).

a. Capabilities.

(1) Tent
- (a) Frame supported, 16 feet x 20 feet
- (b) Provided with doorways on each side
- (c) Screened roof vents with flaps
- (d) Windows on each side
- (e) One stove pipe opening In roof
- (f) Equipped with cotton liner for cold weather operations.
- (g) Provided with tent fly to minimize the solar load In hot environments, and to permit the roof vents to be opened in bad weather.

(h) Can be expanded In 8-foot sections to form a shelter of any length.
(I) Refer to TM 10-8340-224.13 for additional tent data.

(2) LANTERN
(a) Provides artificial light.
(b) Refer to FM-10-23 for lantern data.

(3) STORAGE RACK ASSEMBLIES
(a) Used to hold, store or dry items (pots, pans, etc.) until their next required use.
(b) Used as a shipping container for nested smaller items.
(c) One side removable and can be used as a shelf when rack is used as a storage rack.
(d) Three storage rack assemblies combined, form a set.

(4) SINK ASSEMBLIES
(a) Heats water to boiling point (212 ° F/100 °C).
(b) Covers available to hold heat.
(c) For sanitizing pats, pans, and utensils.
(d) Fills with up to 20-geilons (75.7 liters) of water.

(5) BURNER UNIT
(a) M2 Bums fuel at rate of 0.5 gallons (1-9 liters) per hour.
(b) Refer to TM 10-7360-204-13&P for additional M2 burner unit data.
(c) Modern Burner Unit burns fuel at rate of 0.5 gallons (1.9 liters) per hour.
(d) Refer to TM 10-7310-281-13&P for additional MBU burner unit data.

(6) DRAIN TABLE
(a) Used for eider scrubl3ing/stac~ng items needing sanitation.
(b) Or used for partially drying sanitized items.

(7) WORK TABLE
Used for stacking pots and for pre-cleaning pans and utensils.

(8) ADDITIONAL FSC COMPONENTS
(a) Sink immersion racks.
(b) Thermometer arid thermometer bracket for each sink.
(c) Single sink drain hose assembly.
(d) Three sink drain hose assembly.
(e) Shelf for the work table or drain table.
(f) Waste receptacles.
(g) See Appendix C for illustration

1-9. EQUIPMENT DATA (CONT).

(b) Specifications. Dimensions and weights for FSC equipment and accessories are listed In Table 1-1.

Table 1-1. FSC Major Components, Dimensions, and Weights

Component	Height In.	Height mm	Width in.	Width mm	Depth in.	Depth mm	Weight lbs.	Weight kg
Storage Rack Assembly	26.00	660.0	48.00	1219.0	24.00	610.0	43.90	19.95
Sink Assembly	18.91	480.0	28.29	718.0	29.31	744.0	60.15	27.28
Burner Rack	14.97	380.0	20.68	525.0	23.92	607.0	16.43	7.45
Base Rack	11.23	285.0	23.84	605.0	25.02	635.0	9.31	4.22
Sink Immersion Rack	8.00	203.0	15.00	381.0	10.00	254.0	7.00	3.20
M2 Burner Unit	9.69	246.0	18.75	476.0	23.01	584.0	43.28	19.63
Modern Burner Unit	9.75	248.0	23.00	584.0	19.00	483.0	41.5	19.00
Drain Table	38.00	965.0	48.25	1255.0	27.00	685.0	41.12	18.65
Work Table	38.00	965.0	56.00	1422.0	26.00	660.0	57.44	26.05

Section III. TECHNICAL PRINCIPLES OF OPERATION

1-10. M2 BURNER UNITS/MBU. The M2 Burner Units use gasoline that Is pressurized by a hand pump. The pressurized fuel is filtered through a hot generator. The hot generator changes the fuel into a vapor. The vapor is united to produce heat under the sink assemblies. Modern Burner Unit (MBU). The MBU uses JP8 fuel, or alternate approved diesel fuel. The MBU can be refueled either manually or by the built in powered fueling function.

1-11. SINK ASSEMBLIES. The three sink assemblies are filled with up to 20 gallons (75.7 liters) of water each. The water is heated by the burner units to appropriate temperatures for washing, sanitizing, and rinsing of pots, pans, and other kitchen utensils.

t-12. DRAIN HOSE ASSEMBLIES (SINGLE OR THREE SINK). The drain hose assemblies drain water away from the tent area. The single drain hose assembly is used for an optional single sink assembly usage.

1-13. DRAIN TABLES. A drain table is connected to one of the outer sink assemblies. The drain table is used either to hold the accumulated items that need washing and sanitizing or to partially air dry the washed items.

1-14. STORAGE RACK ASSEMBLY. These racks are used to complete the air-drying process of sanitized items and as storage until further use.

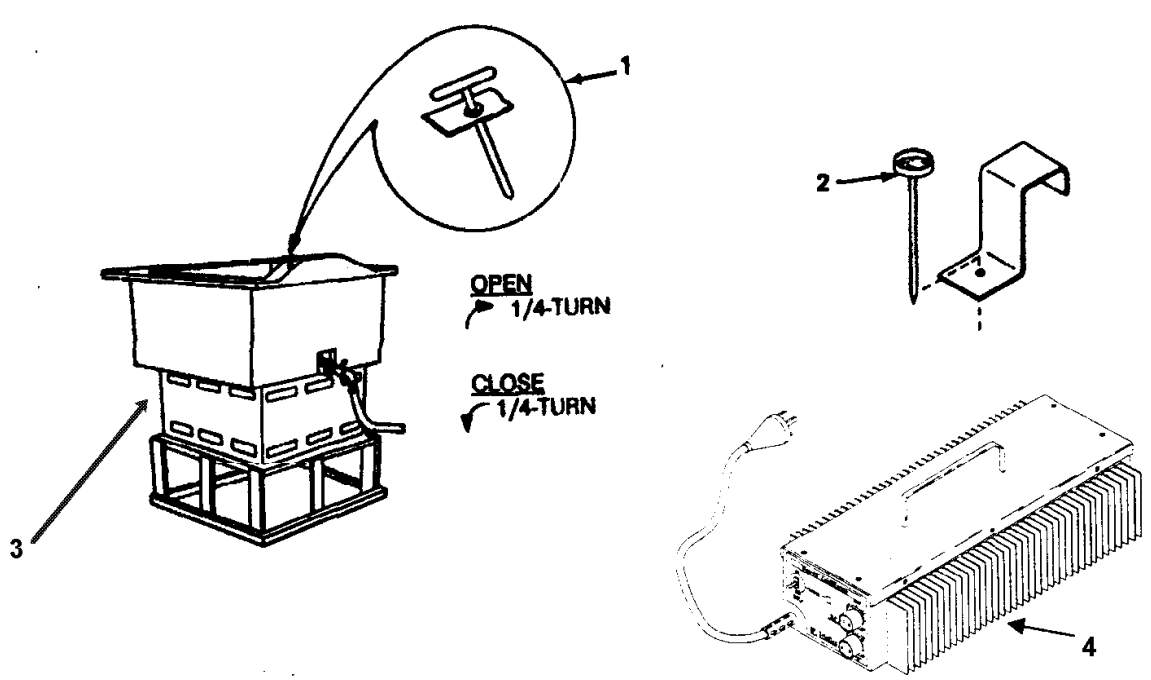
CHAPTER 2

OPERATING INSTRUCTIONS

Section I. DESCRIPTION AND USE OF OPERATOR'S CONTROLS AND INDICATORS

2-1. GENERAL. The FSC has been designed for use in forward combat areas and has few moving parts, with the exception of the M2 burner unit, which is the heat source for heating water. FSC components have no electrical controls and indicators. The sinks are equipped with drain knobs and thermometers.

2-2. CONTROLS AND INDICATORS.



KEY	COMPONENT/ ASSEMBLY	CONTROL OR INDICATOR	FUNCTION
1	SINK ASSEMBLY	Drain Knob	Closes/Opens Drains.
2	THERMOMETER	Temperature Dial	Reads Temperature from 0° to 220°F.
3	MODERN BURNER UNIT	Refer to appropriate TM for controls and indicators of the burner unit and power convertor, refer to TM 10-7310-281-13&P	
4	POWER CONVERTOR (MBU ONLY)		

Section II. OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

2-3. PMCS INTRODUCTION. Operator preventive maintenance checks and services are to be done to be sure the equipment is ready to use at all times. PMCS helps you find and fix defects before the equipment is damaged or fails

a. General.

(1) Before you operate, always keep in mind the WARNINGS and CAUTIONS. Perform your before (B) PMCS prior to the equipment performing is intended mission.

(2) While you operate always keep in mind the CAUTIONS and WARNINGS. Perform your during (D) PMCS when the equipment is being used in its intended mission.

(3) After you operate, be sure to perform your after (A) PMCS after the equipment has been taken out of its mission mode.

(4) If your equipment falls to operate, troubleshoot with proper equipment. Report any deficiencies using DA Form 2404, Equipment Inspection and Maintenance Worksheet. See DA PAM 738-750.

b. PMCS Procedures.

(1) The purpose of the PMCS table is to indicate the order in which checks are to be done, as well as to indicate when they are to be done.

(2) The first column of the table provides the item number (order) for accomplishment of checks and services. Column two (interval) provides when they are to be done. Application intervals are before (B), during (D), and after (A) use.

(3) The "Equipment Is Not Ready/Available" if column contains the criteria that will cause the equipment to be classified as not ready/available because of inability to perform its combat mission.

(4) Report deficiencies in accordance with DA PAM 738-750. Correct deficiencies in accordance with the "Procedures/Check for and have Repaired or Adjust as Necessary" column and trouble-shooting procedures contained in Table 3-1.

(5) Perform PMCS for the tent in accordance with YM 10-8340-224-13

(6) Perform PMCS on the M2 burner units in accordance with TM 10-7360-204-13&P.

(7) Perform PMCS on the MBU in accordance with TM 10-7310-281-13&P.

NOTE

Use Table 2-2 item number column to get the numbers for the ""TM Item Number" column of DA Form 2404, Equipment Inspection and Maintenance Worksheet in recording results of your PMCS.

Table 2-2. Operator's Preventive Maintenance Checks and Services

B-Before Operation D-During Operation A-After Operation

Item No.	Interval B	Interval D	Interval A	Item to be inspected	Procedure	Equipment Not Ready/ Available If:
1	•		•	Tent	Perform PMCS IAW TM10-8340-224-13.	
2	•			Lantern	Check for leaks, dents, broken glass and safety of operation.	
3	•			Storage Rack Assembly	Inspect for damaged frame or front cover. Check that rack units stack properly. Check wire mesh for bends, breaks or broken welds at the tabs. Check that front cover/shelf is not warped.	
4		•		Sink Assembly	Check assembly for leaks or clogged drains. Check for damage or deformation that would prevent installation, assembly or operation of components,	Sinks leak or do not drain. Components will not fit together or are damaged.
5			•	Sink Drain Hose Assembly	Check assemblies for leaks or clogged hoses. Check coupling halves for free operation. Check to insure that each hose end is securely attached with a hose clamp. Insure that hose clamp is tight.	
6	•			Sink Immersion Rack	Check for corrosion, bent or broken mesh. Check for loose wire ends.	
7	•			Thermometer	Check thermometer for damage. Insure the stem is not bent and the dial is legible. Inspect the glass for breaks. Check the hex nut on top of stem for tightness.	
8a	•			M2 Burner Unit	Perform PMCS IAW TM 10-7360-204-13&P.	
8b	•			MBU	Perform PMCS IAW TM 10-7310-281-13&P.	
9	•			Drain Table	Check to ensure drain table is secure and sufficiently inclined to permit water to drain off. Check for bent or damaged parts.	
10	•			Work Table	Check to ensure tables are level and secure. Check for broken welds, loose or missing rivets, clamps and brackets.	
11	•			Fire Extinguisher	Check to ensure charge reading is in the green and that the seal is not broken.	Fire extinguisher or seal is missing or broken, or charge is reading in the red.

Section III. OPERATION UNDER USUAL CONDITIONS

2-4. GENERAL

a. The instructions in this section are for personnel who operate the FSC. Refer to TM10-8340-234-13 for tent instructions. Refer to TM 10-23 for lantern instructions. Refer to TM 10-7360-204-13&P for M2 burner unit instructions. Refer to TM 10-7310-281-13&P for MBU instructions.

b. The basic operational configuration for the FSC is shown in Figure 2-1.

c. All equipment required for this configuration arrives in one truck packed as specified in FM 10-23.

2-5. SITE SELECTION.

WARNING

To prevent fires do not use flammable material as a base for the FSC. Fire may cause injury to personnel or damage the equipment.

a. Choose a site clear of large rocks and trees with firm ground and good water drainage.

b. You need approximately 600 square feet (56 square meters) to set-up the FSC tent.

c. If possible avoid dusty or sandy conditions.

d. Use gravel or the other suitable material for base where ground is wet.

e. An additional 600 square feet (56 square meters) is needed for the MFK if used with the FSC.

f. An additional 900 square feet (83 square meters) is needed for the trailer mounted field kitchen if used with the FSC.

2-6. ASSEMBLY AND PREPARATION FOR USE.

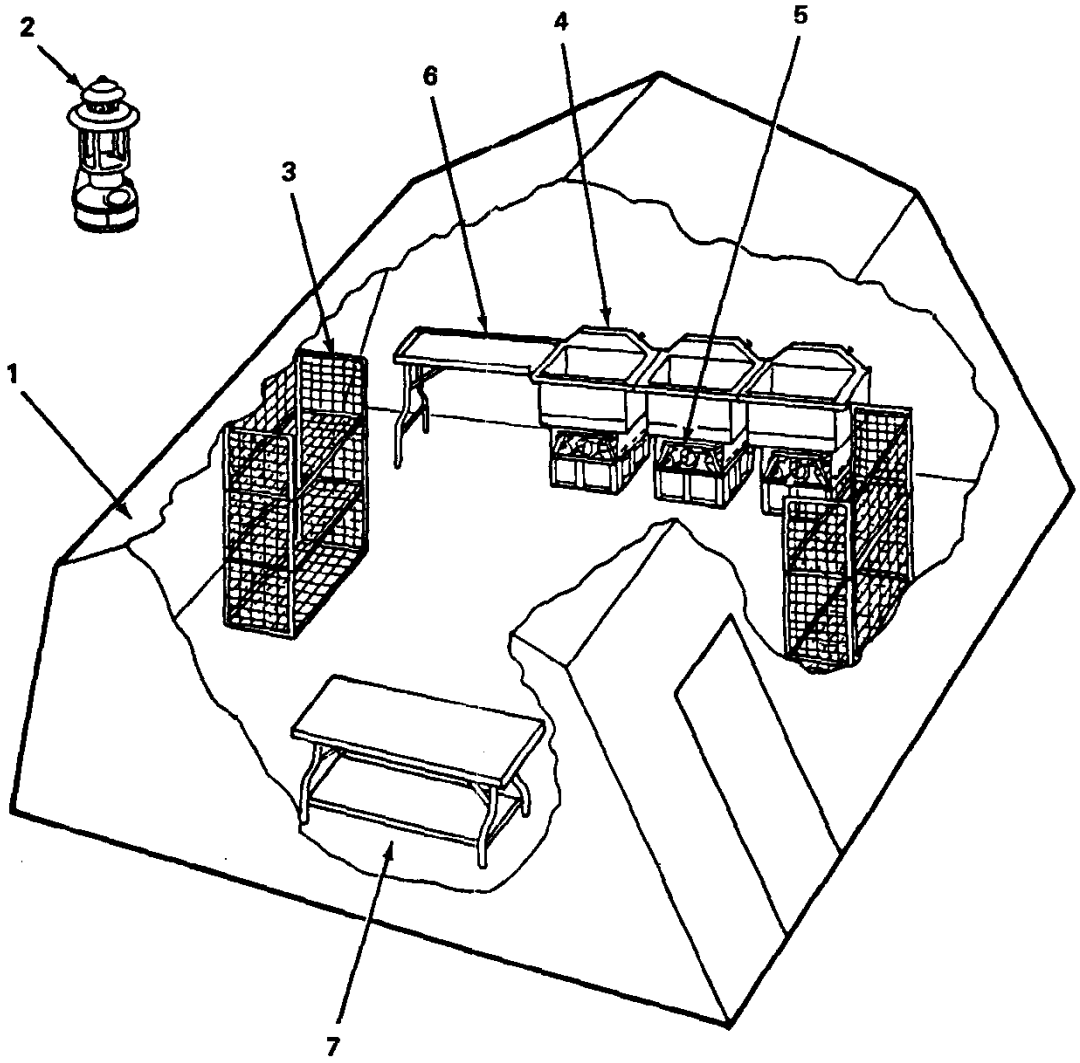
a. Preparation procedures.

(1) Remove all items that were packaged in the major components of the FSC and place them in a convenient location.

(2) Refer to TM 10-8340-224-13 for set-up of tent and FM 10-23 for lantern instructions.

WARNING

- Do not hang fire extinguisher where you would have to walk through a possible fire to reach it.
- Do not hang the fire extinguisher in an extremely hot or cold location. (Check unit nameplate for exact temperature limitations). Never throw it in a fire as it could explode.



1. TENT
2. LANTERN, GASOLINE
3. STORAGE RACK ASSEMBLY
4. SINK ASSEMBLY
5. BURNER UNITS
6. DRAIN TABLE
7. WORK TABLE

Figure 2-1. Food Sanitation Center - Basic Operational Configuration

2-6 ASSEMBLY AND PREPARATION FOR USE (CONTD).

(3) Hang the fire extinguisher in an acceptable location with the top 3-1/2 to 5 feet (1.25 to 1.75 meters) above the floor near an exit.

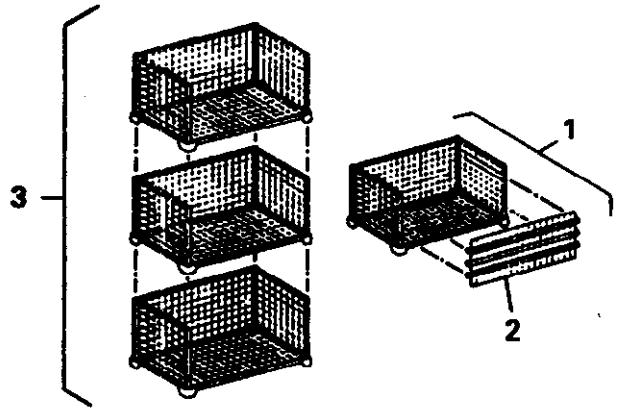
WARNING

- The burner units should be moved a minimum of 50 feet (15.3 meters) from the FSC and the fuel storage area prior to servicing. Do not smoke and ensure that there is no open flame in vicinity; fire or explosion may result.
- The gasoline lantern must be suspended from a frame member of the tent. Allow a minimum of 12 inches (305 mm) between the top of the lantern and the tent liner or fabric. (See TM 10-8340-224-13). Place lanterns so that they will not be knocked down by, or cause injury to personnel walking through the tent.

(4) For night operation place the lantern in a convenient location as follows:

(a) In the area selected for the lantern, locate a position in the tent where a header and an arch are secured together.

(b) Allow a minimum of 12 inches (305 mm) between the top of the lantern and liner or fabric, and secure the lantern to the header.



(c) When the lantern is not required, turn it off let it cool down.

b. Storage Rack Assembly. The storage rack assembly (1) may be used as a single rack unit with a front cover (2) or as a set (3) stacked in two or three units with the front cover (2) used as a shelf piece.

c. Assembly of Sink Assemblies. Assemble the sinks as follows:

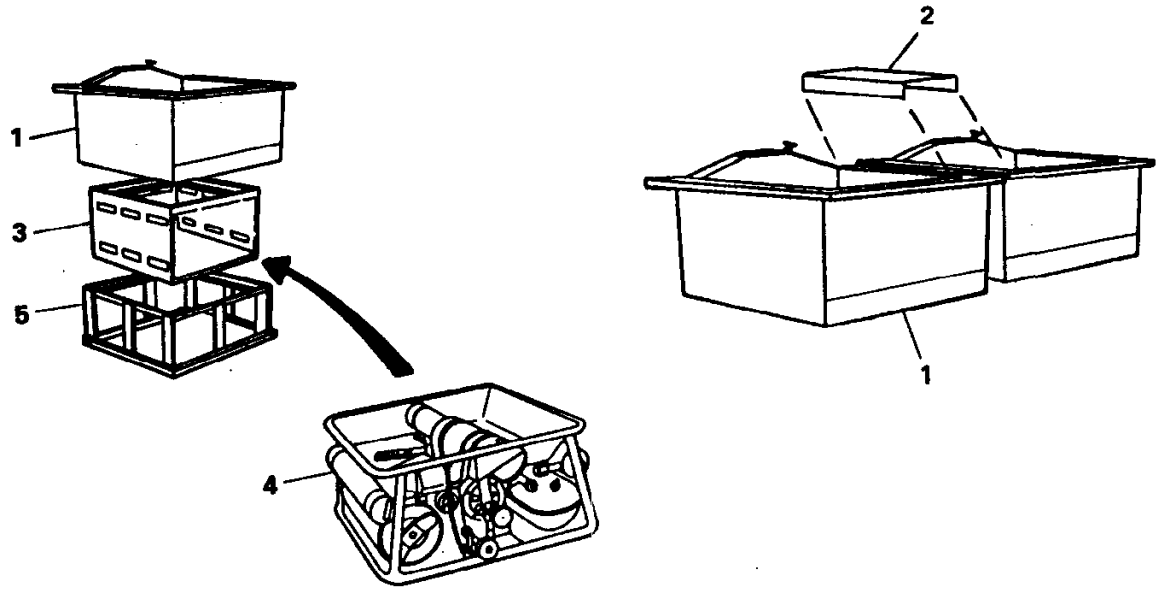
WARNING

Serious injury could occur if heavy equipment is moved/lifted without sufficient personnel to do the job. Use proper physical lifting procedures or use a suitable lifting device or dolly. Wear safety shoes, gloves and other suitable protective clothing.

2-6 ASSEMBLY AND PREPARATION FOR USE (CONTD).

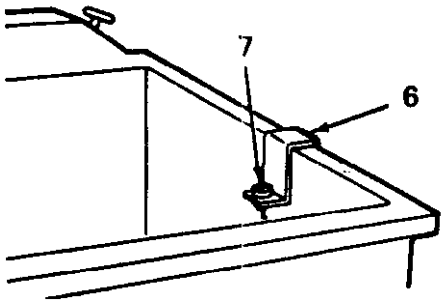
CAUTION

Make sure you leave enough air space between the tent wall and the sink assemblies. Frequently check for heating of the tent wall while the burner units are in use. Move the burner units further away from the tent wall if necessary to prevent possible ignition of the tent.



(1) Move three sink body assemblies (1), sink adapters (2), burner racks (3), with burner units in place (4), and base racks (5) to the sink locations.

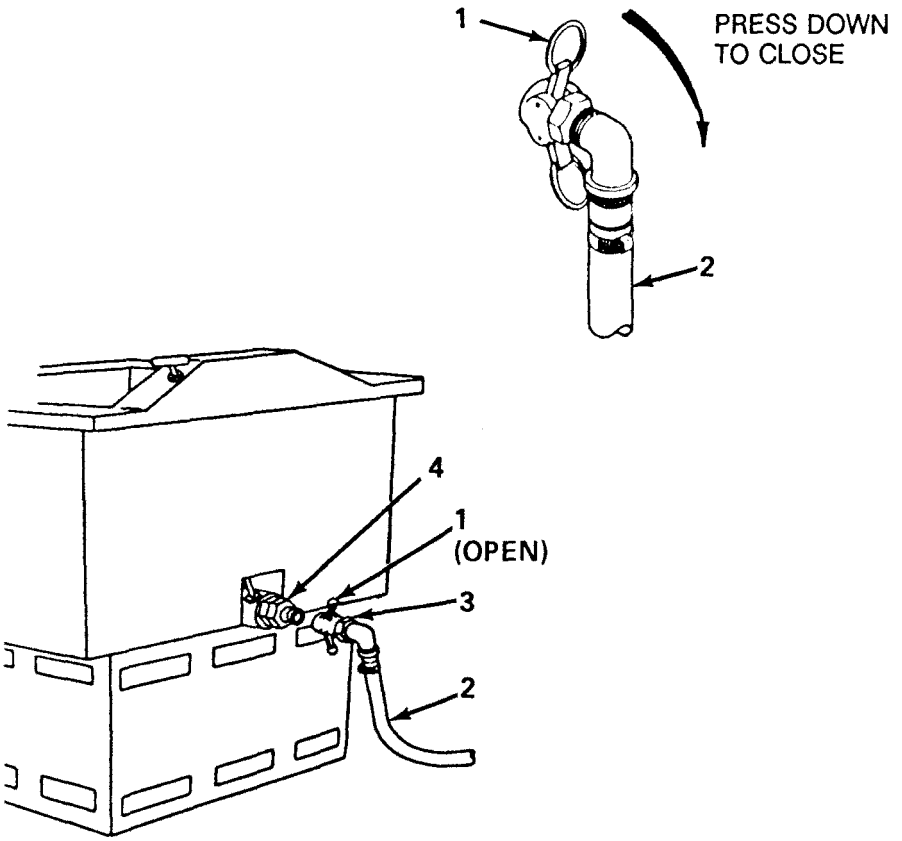
(2) Place the base rank (5) in position; place the burner rack (3) with burner unit (4) on top of base rack (5); place sink body assembly (1) squarely on top of burner rack (3). Connect sinks with adapters (2).



(3) Attach thermometer bracket (6) to front or side; install thermometer (7) in sink assemblies to be used.

2-6. ASSEMBLY AND PREPARATION FOR USE (CONT).

d. Assembly of Sink Drain Hoses.



(1) Open each of the clamps (1) on the sink drain hose assembly (2)

(2) Insert each drain hose assembly coupling (3) over each sink drain coupling (4).

(3) Close each clamp (1).

NOTE

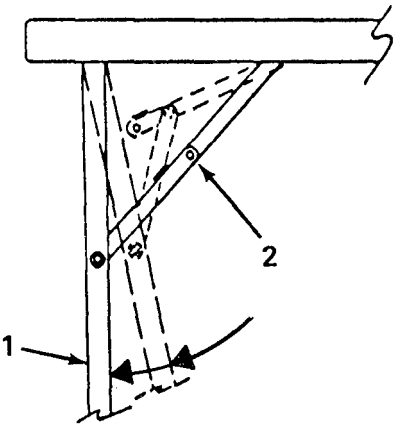
Place the drain hose output end in a position where minimum mud will form. If excess mud forms during use, relocate the drain hose output end.

NOTE

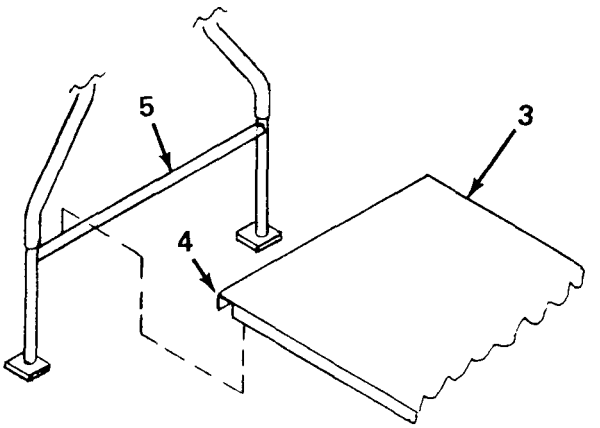
If required, use single sink drain hose assembly for a single sink installation.

2-6. ASSEMBLY AND PREPARATION FOR USE (CONT).

e. Drain Table and Work Table.



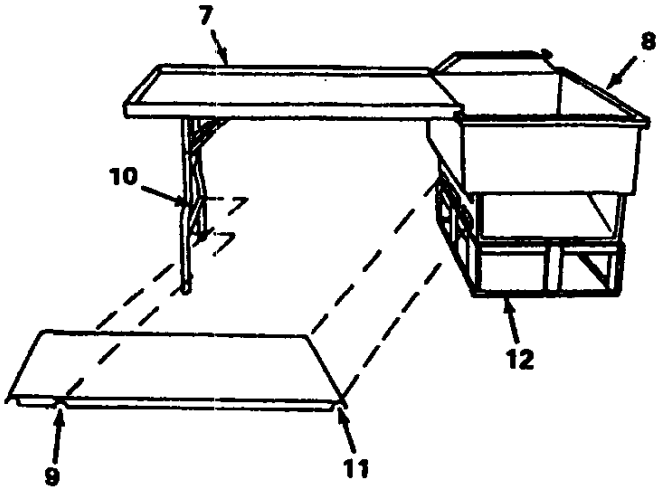
(1) Pull out the leg assemblies (1) until the linkage (2) snaps into place in the fully extended position.



(2) Place the shelf (3) so that the end lips (4) rest on the leg crossbars (5).

2-6. ASSEMBLY AND PREPARATION FOR USE (CONTD).

(3) Take the work table to the operating location (Figure 2-1).



(4) Attach lip of the drain table (7) to the end of sink body assembly (8).

(5) If used with drain table, position the shelf inner cutout (9) across the leg crossbar (10) and place the opposite lip (11) of the shelf on the base rack (12).

d. Optional Configurations.

(1) General. To sanitize the pots, pans, and utensils used with two or three consolidated MFK's, two FSC's can be consolidated as shown in Figure 2-2. To operate in the consolidated configurations, the site must be large enough to accommodate the combined feeding area for the MFK's as well as the 32 x 20 foot (9.8 x 6.1 meters) sanitation area.

(2) Two FSC's Consolidated. When two FSC's are consolidated and used with two MFK's, the equipment is packed, transported, and unloaded from four standard 2-1/2 ton or 5-ton tactical vehicles, or two vehicles with 1-1/2 ton cargo trailers as described in FM 10-23. To operate in this consolidated configuration, the following FSC major components are required:

(a) One tent, expandable modular (four 8 foot sections).

NOTE
Additional tents, if available, can be used for food storage.

(b) Four storage rack sets (12 storage rack assemblies).

(c) Six sink assemblies.

(d) Six burner units.

(e) Two drain tables.

(f) Two work tables.

(2) Procedure.

(a) Upon arrival at the selected site, set up the tent(s) as directed in TM 10-8340-224-13.

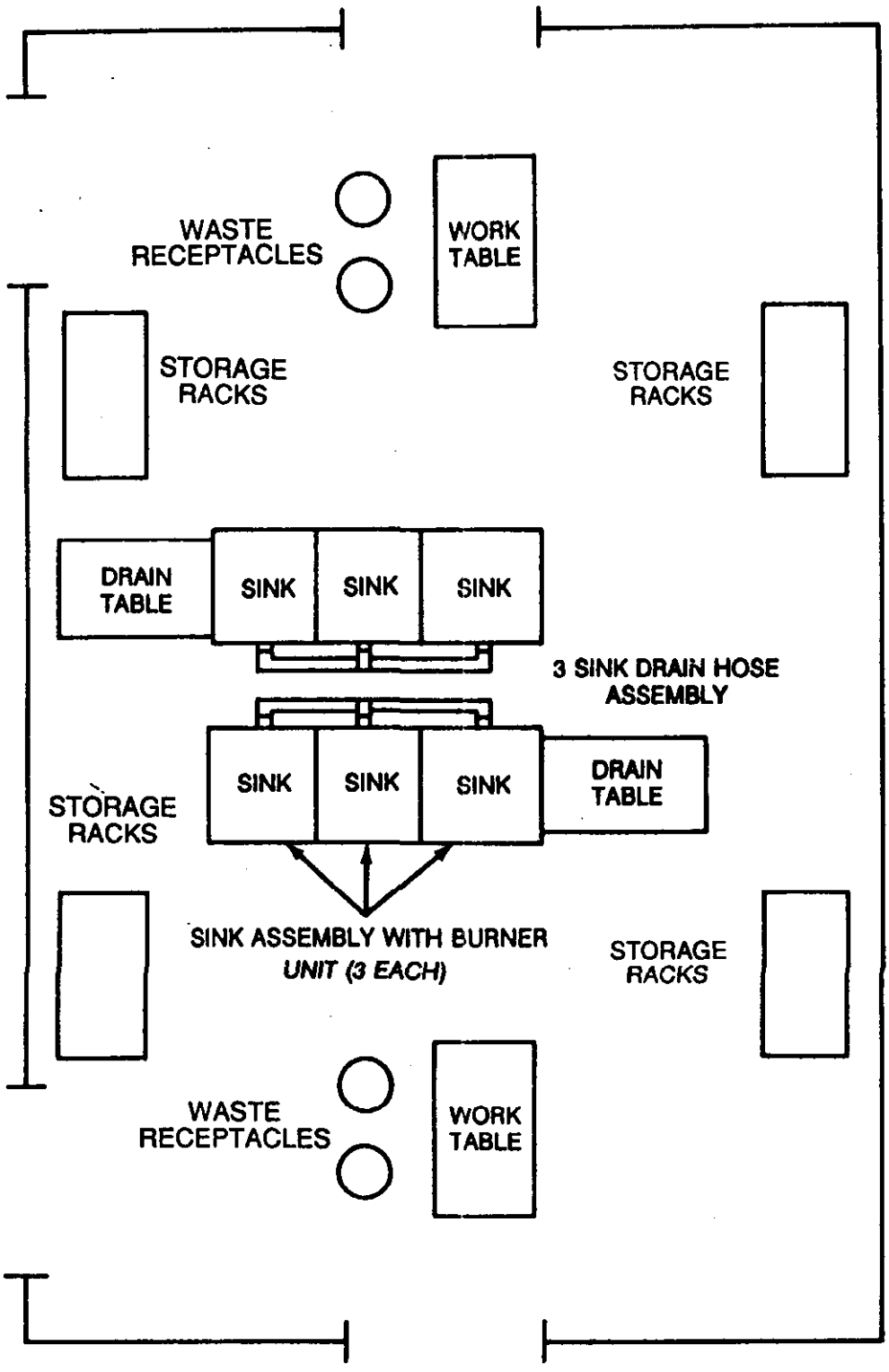


Figure 2-2. Food Sanitation Center – Optional Configuration, Two FSC's Consolidated

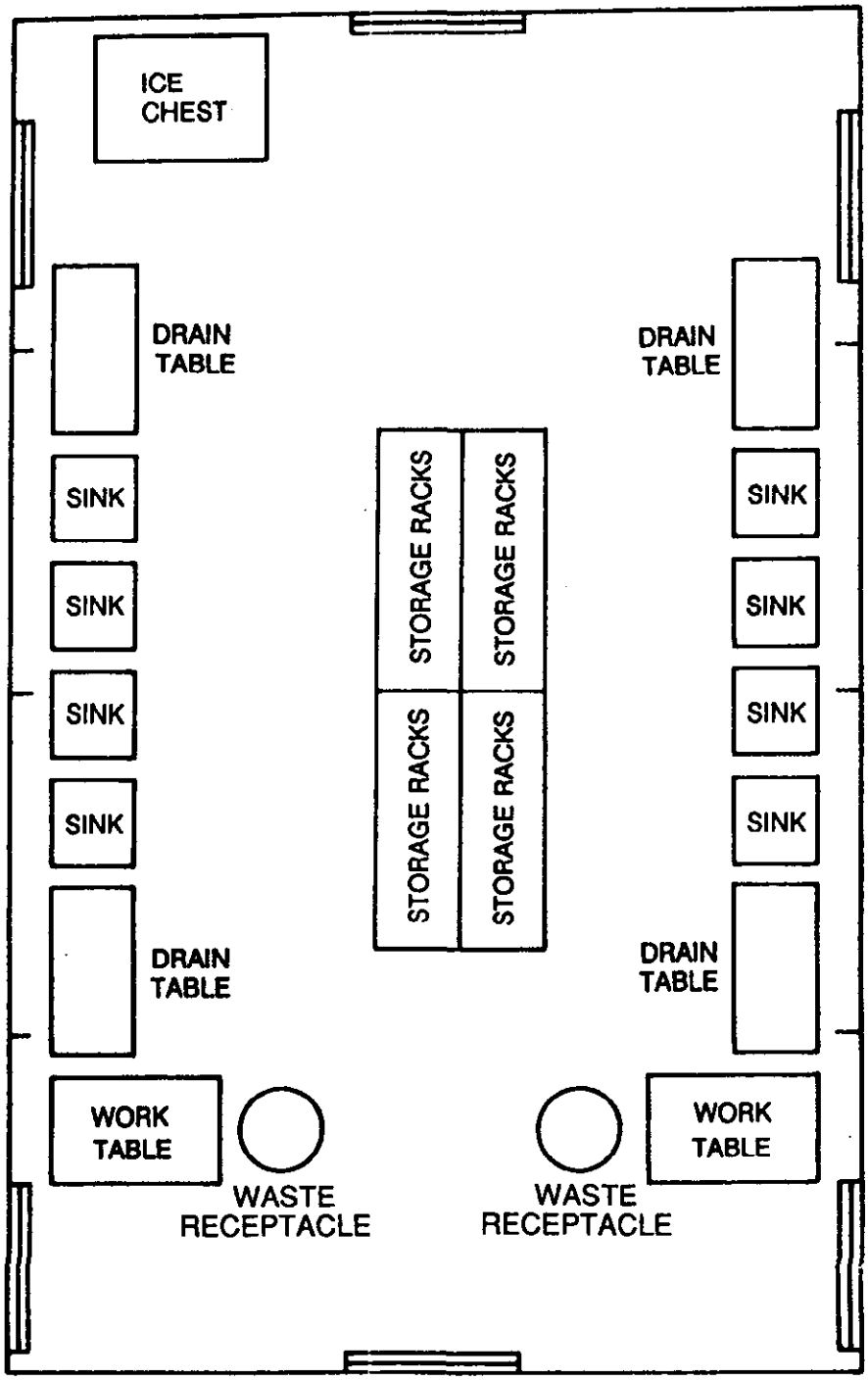


Figure 2-3. Food Sanitation Center – Optional Configuration Combat Support Hospital, Deployable Medical Systems

2-6. ASSEMBLY AND PREPARATION FOR USE (CONTD).

(b) Assemble and set up remaining equipment In accordance with procedures in paragraph 2-6 and as shown In Figure *2-2.*

(c) Prepare the M2 burner units in accordance with TM 10-7360-204-13&P or the MBU IAW TM 10-7310-281-13&P.

(4) Deployable Medical Systems. An optional configuration, 32 x 20 foot (9.8 x 6.1 meters), used by DEPMED's personnel in a combat support hospital is shown in Figure 2-3. Refer to Deployable Medical Systems User's Manual for Instructions.

2-7. OPERATING PROCEDURES**.**

WARNING

Familiarize yourself with the location of the fire extinguishers and FSC exits. Make sure that a fire extinguisher is at hand when operating or servicing the burner units.

a. General. Before operating the FSC you must be familiar with the operating procedures and Instructions for all of the equipment to avoid Injury to personnel or damage to the equipment. While operating the FSC, additional Items are required. See Appendix D and E for a complete listing.

b. Preparing Water . Water is required to operate the FSC. Water must be treated in accordance with TB Med 530. Water must have a residual chlorine content of five parts per million (PPM). Additional guidance may be found In FM 10-23 and FM 10-52.

WARNING

- Establish a safe area for lighting burner unit that Is a minimum of 50 feet from the refueling, fuel storage, cooking and sanitizing area.

- Extreme heat will cause burner unit tank pressure to increase because of fuel expansion, insure you start with prescribed pressure lAW TM 10-7360-204-13&P.

- Fuel M2 burner units in servicing area only. When filling the fuel tank, always provide metal to metal contact between the container and the fuel tank. Remove spilled fuel immediately. Keep fuel tank and fuel container caps tight at all times. Do not smoke and ensure that there is no open flame in the vicinity; fire or explosion may result. Do not operate the M2 burner units if fuel or other flammable material is on or near the M2 burner units.

- Frequently check for heating of the tent or shelter wall while burner units are In use. Move the burner units if necessary to prevent possible ignition of the tent.

c. Burner Units. Proceed as follows when preparing the burner units for use:

(1) Following all precautions, and instructions in TM 10-7360-204-13&P (M2) or TM 10-7310-281-13&P (MBU), start the burner unit. Monitor the burner unit for proper flame color.

WARNING

Do not install an operating burner unit under a sink that is not filled with water.

2-7. OPERATING PROCEDURES (CONTD).

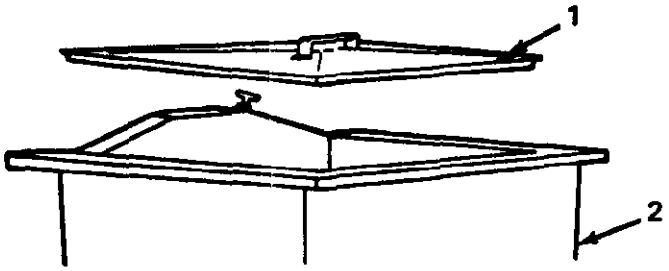
(2) When the M2 burner unit has reached a stable operating state, carefully slide it into the burner rack under the sink. Do not use force.

WARNING

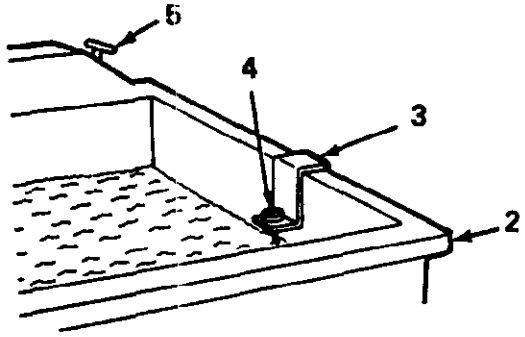
Allow burner units and lanterns to cool before releasing air pressure from fuel tanks. Do not smoke and make sure there is no open flame in the vicinity. Fuel fumes are explosive and highly flammable.

(3) When no longer required for operation, turn off the burner unit and allow it to cool.

d. Sink Assemblies. Proceed with the operation of the sinks as follows:



(1) Remove the covers (1) from the sink assemblies (2) to be used.



(2) Ensure the thermometer brackets (3) and thermometer (4) are attached to the sink assemblies (2).

CAUTION

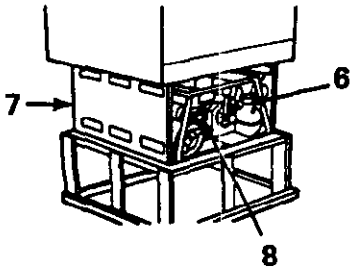
Do not over tighten the drain knobs (5) when rotating counterclockwise to close the drains. Very little pressure is required to close the drain. Over tightening can damage the drain valves.

(3) Close the drains on the sink assemblies (2) by rotating the drain knobs (5) ¼ turn counterclockwise.

(4) Fill the sink assemblies (2) with 20 gallons (75.7 liters) of water, approximately 8 inches (203 mm) deep.

(5) Light the burner units IAW paragraph 2-7c.

2-7. OPERATING PROCEDURES (CONTD).



(6) Raise the heat guard and carefully slide the M2 burner unit (6) in the burner rack (7). Do not force.

e. Manual Cleaning and Sanitizing.

(1) Water must be prepared IAW TB Med 530.

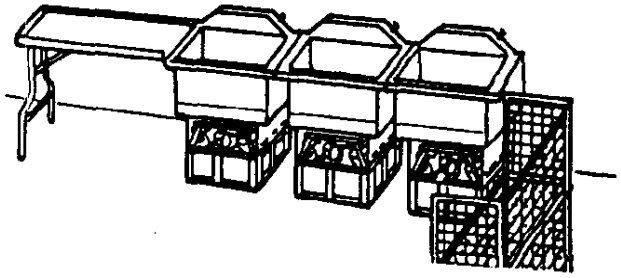
(2) Clean all sinks before use.

(3) Pre-scrape items to remove food.

(4) Wash in one sink with HOT (120°F to 125°, 49°C, to 52°C) detergent solution. Change water when too dirty.

(5) Scrub items until free of all food and dirt.

(6) Rinse off detergents with HOT (120°F to 140°F, 49°C to 60°C) clean water in second tank.



NOTE

Be sure all items are completely covered with water.

(7) Lower loaded sink immersion rack (Appendix C, Item 7) into CLEAN HOT WATER (170°F, 77°C minimum) in a third sink.

(8) Leave racks in water for at least 30 seconds.

(9) Remove, air dry, and store sanitized items.

f. Stopping Equipment.

(1) Upon completion of washing and sanitizing operations, shut off the M2 burner unit IAW TM 10-7360-204-13&P or the MBU IAW TM 10-7310-281-13&P.

(2) Remove water from the sinks by rotating the drain knobs ¼ turn clockwise.

2-6. DISASSEMBLY AND PREPARATION FOR MOVEMENT.

a. Disassembly.

WARNING

- Allow the burner units and lanterns to cool before releasing air pressure from fuel tanks. Do not smoke and make sure there is no open flame in the vicinity. Fuel fumes are explosive and highly flammable.
- Bleed all burner units and lanterns of air before storage.
- Drain all fuel from equipment into fuel can before movement or storage.

NOTE

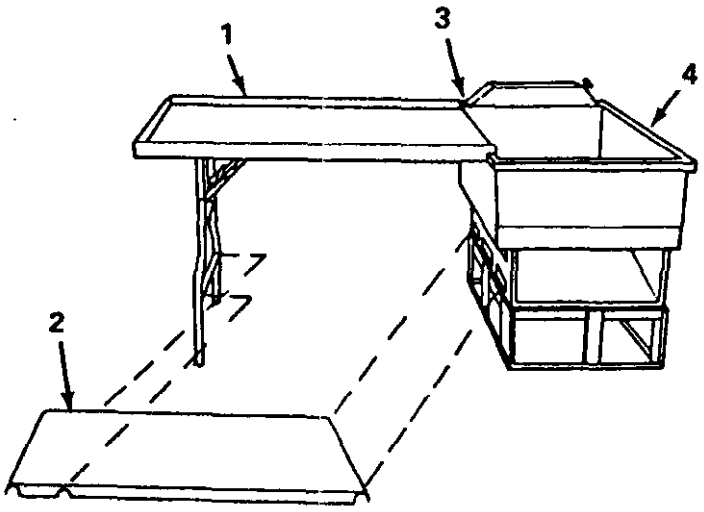
As required, clean all FSC components in hot soapy water. Rinse with clean water and dry thoroughly prior to assembly, packaging, and packing.

(1) Burner Units.

(a) Remove the burner units from the sink assemblies. Drain the fuel tanks and prepare the burner unit for movement IAW TM 10-7360-204-13&P or TM 10-7310-281-13&P.

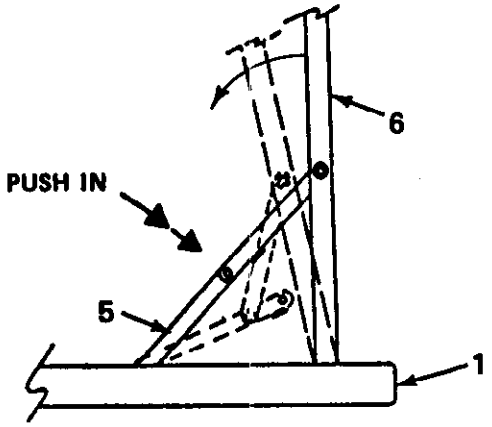
(b) Return burner units to the sink assembly burner racks.

(2) Drain table.



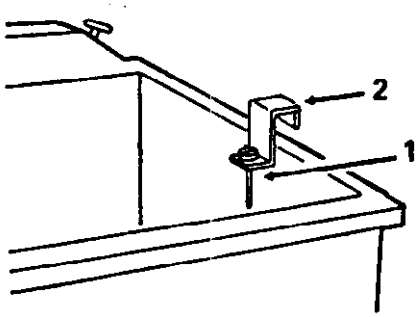
(a) Remove shelf (2) and detach the drain table (1) from the rim (3) of the sink assembly (4).

2-8. DISASSEMBLY AND PREPARATION FOR MOVEMENT (CONTD).



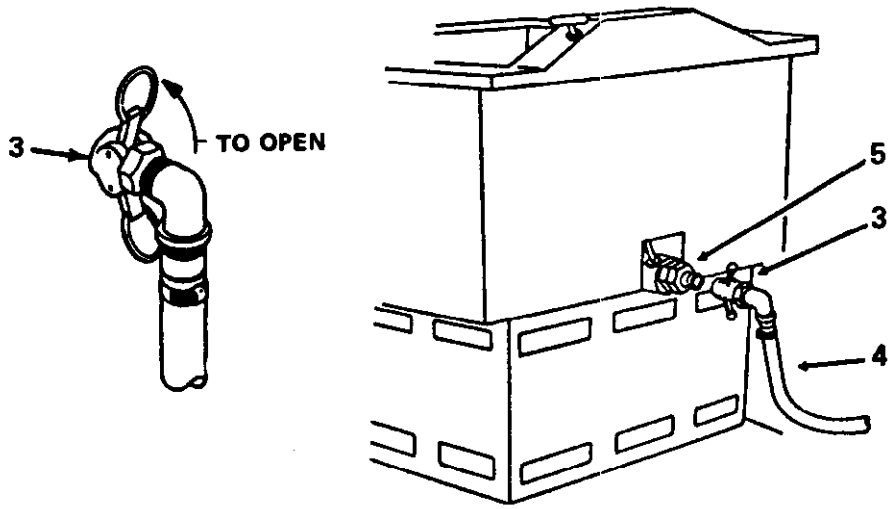
(b) Turn the drain table (1) upside down and push-in the linkage (5) from its fully extended position. Fold the table legs (6).

(3) Sink Assemblies



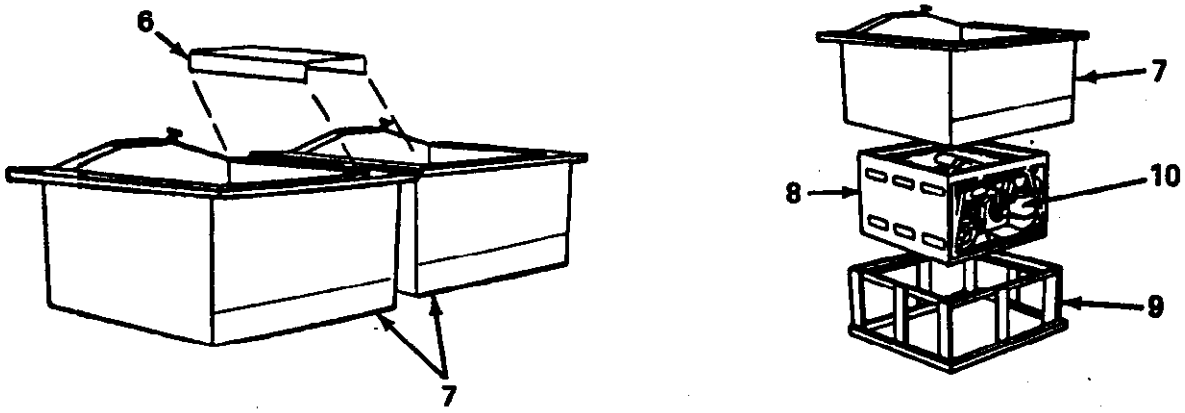
(a) Remove the thermometers (1) and thermometer brackets (2) from the sinks.

(b) Drain sinks.



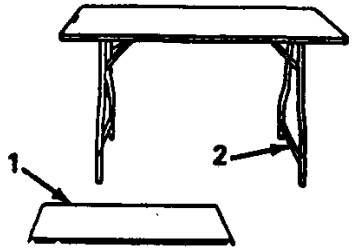
(c) Open the couplings (3) on the drain hose assemblies (4) and disconnect the couplings from a single or three sink drains (5). Drain all water from the hose.

2-8. DISASSEMBLY AND PREPARATION FOR MOVEMENT (CONTD).



(d) Remove sink adapter (6) to separate the sink body assemblies (7), burner rack (8), and base rack (9); leave the burner units (10) in the burner racks (8).

(4) Work Table.

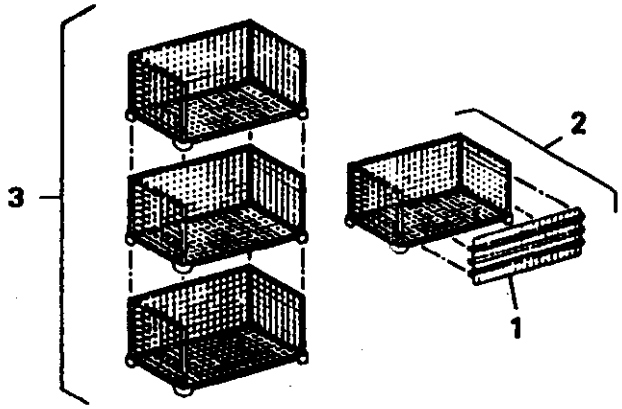


(a) Remove the shelf (1) from the work table crossbars (2).

(b) Turn the table upside down.

(c) Push-in the linkage of each table leg from its fully extended position, and fold the table legs to lie flat against the bottom of the table top. Refer to illustration on drain table, paragraph 2-8a(2).

(5) Storage Racks Assembly.



(a) Remove the shelves (front cover) (1) from the storage rack assembly (2).

(b) Disassemble the stacked rack units (3) and place the front cover (1) on each storage rack assembly (2).

2-8. DISASSEMBLY AND PREPARATION FOR MOVEMENT (CONTD).

WARNING

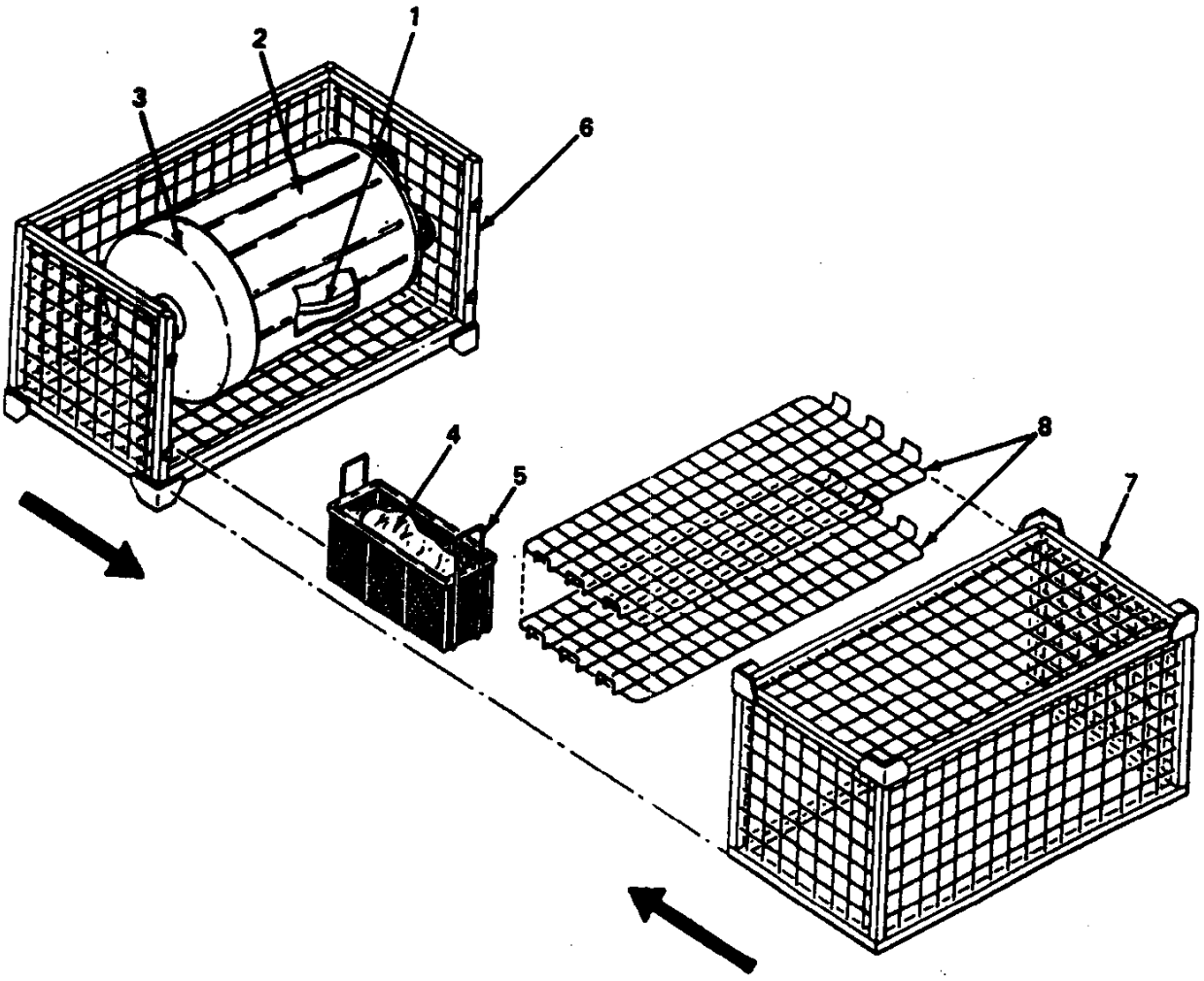
Bleed air and drain gasoline into fuel can prior to storage.

(6) Lantern.

Remove lantern from its position in tent.

(7) Tent. Prepare the tent for movement by striking it IAW TM 10-8340-224-13.

b. Packaging. Equipment and items that require packaging prior to loading into the truck are listed in Appendix C. Package these items, using space available in the sinks and the storage rack assemblies to accommodate smaller items.



2-8. DISASSEMBLY AND PREPARATION FOR MOVEMENT (CONTD).

(1) Sink Assemblies.

(a) Place the burner unit of each sink assembly into the burner rack.

(b) Place the base rack, with the bottom facing down, over the burner rack.

(c) Place this assembly Into the sink body assembly.

(d) Wrap the thermometer and it's bracket In barrier material (Item 1. Appendix E) and place on top of the burner units.

(e) Place the sink cover on the sink body assembly.

(2) Storage Rack Assembly (Two-piece Set No. 1).

(a) Place the single sink drain hose assembly (1) into one waste receptacle (2) and cover with lid (3).

(b) Place two gasoline lanterns (4), in cartons or barrier material (Item 1, Appendix E), into one immersion rack (5).

(c) Place the nested waste receptacle and nested immersion rack into one storage rack assembly (6).

(d) Position another empty storage rack assembly (7) close to the packaged one.

(e) Install as low as possible, two shelves (8) into the empty storage rack assembly (7).

WARNING

Serious injury could occur if heavy equipment is moved/lifted without sufficient personnel to do the Job. Use proper physical lilting procedures or use a suitable lifting device or dolly. Wear safety shoes, gloves and other suitable protective clothing.

(f) Use two-man lift (one man each end), carefully rotate the two-shelved storage rack (7) and (8). The bottom is now top.

(g) Position each of the storage rack assemblies so that each of its empty sides face each other.

(h) Slide each storage rack assembly together to form a box.

(3) Storage Rack Assembly (Two-Piece Set No. 2)

(a) Perform same procedure as in paragraph 2-8b(2), packaging three sink drain assembly into waste receptacle, and fire extinguisher In carton or barrier material (item 1, Appendix E) into one immersion rack.

(4) Storage Rack Assembly (Two-Piece Set No. 3).

Perform same procedure as in paragraph 2-8b(2), packaging miscellaneous equipment.

Section IV. OPERATION UNDER UNUSUAL CONDITIONS

2-9. GENERAL This section contains instructions for operation of the FSC in unusual environmental conditions of extreme cold, extreme heat, dusty or sandy areas, rainy and humid conditions, salt water areas, high altitudes, and under windy conditions. Refer to TM 10-7360-204-13&P for M2 burner unit operation under unusual conditions or TM 10-7310-281-13&P for MBU.

2-10. OPERATION IN EXTREME COLD (BELOW 0°F/-18°C).

WARNING

- CARBON MONOXIDE GAS CAN KILL YOU.
- Carbon monoxide gas is not visible and has no smell, but it can kill you. Breathing air with carbon monoxide produces symptoms of headache, dizziness, loss of muscular control, a sleepy feeling, and coma. Brain damage or death can result from heavy exposure. Carbon monoxide occurs in exhaust fumes of fuel-burning equipment such as the burner units. Carbon monoxide can become dangerously concentrated under conditions of no air movement. Precautions must be followed to ensure safety of personnel when you operate the burner units. Open vents in the tent to provide ventilation and prevent the accumulation of carbon monoxide gas.
- Be ALERT at all times during FSC operation for symptoms of exposure. IMMEDIATELY VENTILATE the tent. If symptoms persist, move affected personnel to fresh air and keep warm. DO NOT PERMIT PHYSICAL EXERCISE. If necessary, give artificial respiration.
- FOR ARTIFICIAL RESPIRATION REFER TO FM 21-11.
- THE BEST DEFENSE AGAINST CARBON MONOXIDE POISONING IS GOOD VENTILATION.
- Operators be aware of signs of dangerous combustion products. Report any signs of headache, distress, dizziness, nausea and weakness.
- Do not touch the FSC equipment metal parts when temperatures are below freezing without gloves, as injury may result.

NOTE

In extreme cold allow a longer period of time than normal to heat water to the desired temperature.

a. Operate the burner units in extreme cold conditions IAW TM 10-7360-204-13&Pfor the M2 and TM 10-7310-281-13&P for the MBU.

b. Vent tent as often as possible. It is best to leave doors, windows, and roof vents open slightly. If this is not possible, open doors and roof vents periodically to remove stuffiness. At high altitudes do this more often. Operators should periodically leave the tent for a brief time.

c. If any eye, nose, or throat irritation is noted vent the tent and adjust burners IAW the appropriate burner TM to obtain a clean flame.

d. To reduce the environmental effects of extreme cold, use of the cold weather components shown in Appendix D, is recommended.

2-11. OPERATION UNDER RAINY OR HUMID CONDITIONS.

a. When not in the tent, burner units must be covered with canvas or other waterproof material. Remove the cover during dry periods, expose to open air, and allow units to dry.

a. Operate the burner units under rainy or humid conditions IAW TM 10-7360-204-13&P for the M2 and TM 10-7310-281-13&P for the MBU.

2-12. OPERATION IN SALT WATER AREAS.

a. Keep equipment free from contact with salt water whenever possible. If contact is made, or if equipment is exposed to salt spray, wash equipment frequently with clean fresh water.

b. Operate the M2 burner units in salt water areas IAW TM 10-7360-204-13&P for the M2 and TM 10-7310-281-13&P for the MBU.

2-13. OPERATION AT HIGH ALTITUDES.

Operate the burner units at high altitudes IAW TM 10-7360-204-13&P for the M2 and TM 10-7310-281-13&P for the MBU.

2-14. OPERATION IN WINDY CONDITIONS.

a. Whenever possible, take advantage of natural barriers to block the wind.

b. Close the doors and windows of the tent on the windward side and open the tent on the leeward (downwind) side.

c. Operate the burner units in windy conditions IAW TM t0-7360-204-13&P for the M2 and TM 10-7310-281-13&P for the MBU.

2-15. OPERATION IN EXTREME HEAT.

WARNING

- Extreme heat will cause tank pressure to increase because of fuel expansion. Make sure you start with prescribed pressure IAW TM 10-7360-204-13&P for the M2 and TM 10-7310-281-13&P for the MBU.
- Check air pressure frequently during burner unit operation.
- Operators be aware of signs of heat stress. Use maximum ventilation. All windows, doors, and roof vents should be opened.

a. Operate the burner units in extreme heat IAW TM 10-7360-204-13&P for the M2 and TM 10-7310-281-13&P for the MBU.

b. The tent should be operated with maximum ventilation. All windows, doors, and roof vents should be opened.

2-16. OPERATION IN DUSTY OR SANDY AREAS.

a. Take advantage of any natural barriers that may be available when selecting the site.

b. Where water is available, keep the immediate area wetted down. Keep all equipment as clean as possible.

c. Keep dirt and grit out of the burner unit fuel system and reserve fuel supply.

d. Operate the burner in dusty or sandy areas IAW TM 10-7360-204-13&P for the M2 and TM 10-7310-281-13&P for the MBU.

CHAPTER 3

OPERATOR MAINTENANCE INSTRUCTIONS

SECTION/PARAGRAPH

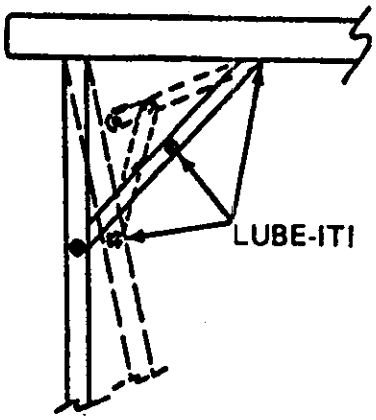
Section I. LUBRICATION INSTRUCTIONS

3-1. GENERAL. The FSC equipment has only a limited number of moving parts that require lubrication. Perform these lubrication functions whenever equipment is being prepared for storage or the indicated parts are not moving freely. All specified lubrication materials are listed in Appendix E.

3-2. LUBRICATION PROCEDURES.

a. Drain Table. Lubricate linkage of the leg adapter and brace joint with general purpose oil. (Item 3, Appendix E).

b. Work Table. Lubricate linkage of each leg adapter and brace joint with general purpose oil. (Item 3, Appendix E).



Section II. OPERATOR TROUBLESHOOTIN PROCEDURES.

3-3. GENERAL. Table 3-1 lists common malfunctions that you may find during the operation or maintenance of the FSC or its components. You should perform the tests and inspections and corrective actions in the order listed.

NOTE

This manual cannot list all malfunctions that may occur nor all tests, inspections, or corrective actions. If a malfunction is either not listed or is not corrected by listed corrective actions, notify unit maintenance.

3-4. BURNER UNIT AND TENT. Perform operator's troubleshooting on the burner units IAW TM 10-7360-204-13&P for the M2 and TM 10-7310-281-13&P for the MBU.

Table 3-1. Operator Troubleshooting

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

1. SINK ASSEMBLY IS NOT STABLE.

Step 1. Check burner rack and base rack for stability.

If not stable, move equipment to level ground.

2. SINK ASSEMBLY DOES NOT HEAT WATER PROPERLY.

Step 1. Check to see if the burner flame is on.

Light the burner in accordance with TM 10-7360-204-13&P.

Step 2. Check to see if burner flame is green.

Adjust the burner in accordance with TM 10-7360-204-13&P.

Step 3. Check to see if the burner flame is the proper height for the desired water temperature.

Adjust the burner for the temperature desired in accordance with TM 10-7360-204-13&P.

3. WATER IN SINK DOES NOT DRAIN.

Step 1. Observe water drainage and check for clogged drain.

Remove obstruction from sink drain or drain hose. Thaw if frozen.

Step 2. Check for excessive mud at drain hose output.

Relocate drain hose output end.

4. DRAIN TABLE IS UNSTEADY.

Step 1. Check for proper locking of legs.

Lock legs properly (para 2-6f).

Step 2. Check for bent or broken parts.

Notify unlit maintenance.

5. WORK TABLE IS UNSTEADY.

Step 1. Check table for proper locking of legs.

Lock legs properly (para 2-6f).

Step 2. Check for bent or broken parts.

Notify unit maintenance.

Section III. OPERATOR MAINTENANCE PROCEDURES

3-5. GENERAL. This section contains operator's maintenance procedures for the FSC equipment.

3-6. MAINTENANCE.

a. Tent. Procedures to maintain the Tent, Extendable, Modular are contained in TM 10-8340-224-13.

b. Lantern. Refer to FM-10-23.

c. M2 Burner Unit. Procedures to maintain the M2 Burner Units are contained in TM 10-7360-204-13&P.

d. Modern Burner Unit (MBU). Procedures to maintain the MBU are contained in TM 10-7310-281-13&P.

3-7. CLEANING AND SANITATION.

WARNING

Dry cleaning solvent, A-A-771 TY 1, used to clean parts is potentially dangerous to personnel and property. Avoid repeated and prolonged skin contact by wearing rubber or non-porous gloves when handling the solvent or material wet with dry cleaning solvent. Wash hands immediately after exposure with soap and water and use a lanolin based skin cream to prevent skin drying. Do not use near open flame or excessive heat. Flash point of solvent is 100°F(38°C). Do not work with solvent in a closed room. Be sure there is good ventilation or the solvent vapors will build up in the air end become a poisonous mixture which can cause physical injury or even death.

CAUTION

Do not use abrasive cleaners or wire brushes on components or accessories. You may damage the finish.

a. Clean storage rack assemblies, sink assemblies, drain table, work table and accessories such as sink immersion racks with soap and water.

b. Use a nonabrasive scouring pad (Item 4, Appendix E) for removing corrosion.

c. Check for signs of corrosion and peeling. The coating over the metal may show spots. Remove spots with soap and hot water or dry cleaning solvent A-A-711 TY1 (Item 2, Appendix E) using a nonabrasive scouring pad.

d. After clearing, check that all parts are secure.

CHAPTER 4

UNIT MAINTENANCE INSTRUCTIONS

Section I. REPAIR PARTS, SPECIAL TOOLS, TMDE AND SUPPORT EQUIPMENT

4-1. COMMON TOOLS AND EQUIPMENT. Refer to your unit's Modified Table of Organization and Equipment, (MTOE) to determine the common tools and equipment authorized and available at your unit.

4-2. SPECIAL TOOLS, TEST, MEASUREMENT, AND DIAGNOSTIC EQUIPMENT (TMDE), AND SUPPORT EQUIPMENT. The special tools required to maintain the FSC are listed in Appendix F, and Section III, Appendix B. No TMDE, or special support equipment is required at the unit level to maintain the FSC.

4-3. REPAIR PARTS. Repair parts authorized for unit maintenance are listed in Appendix F.

Section II. SERVICE UPON RECEIPT

4-4. UNPACKING. The FSC, with components, will be packaged in wooden crates strapped to wooden pallets. Check crates for indication of damage. Report any damage to your spervisor.

CAUTION

Unpack components carefully. Improper or hasty handling may result in damage to the FSC components and accessories.

a. Procedure. Unpack the equipment in the following sequence:

(1) Position crate or carton to be unpacked with the top facing up.

(2) Cut and remove retaining straps. Do not cut, rip, or otherwise damage packing material.

(3) Open the carton, remove the corrugated padding material, and set it aside.

(4) Lift the equipment from the carton.

b. Shipping Material. Save the shipping carton and padding material so it can be re-used.

4-5. CHECKING UNPACKED EQUIPMENT.

a. Damage. Inspect the equipment for damage incurred during shipment. Report any damage on SF Form 364, Report of Discrepancy. Also note damage on DA Form 2404, Equipment Inspection and Maintenance Worksheet and initiate corrective maintenance procedures.

b. Completeness. Check equipment against the packing slip to see if the shipment is complete. Report all discrepancies on SF Form 364. The equipment can be placed in service even though a minor assembly or part, which does not affect proper functioning, is missing.

c. Modifications. Check DA PAM 25-30 to see if there is any Modification Work Order applicable to the FSC components you are unpacking. If an MWO is listed, check to see if it has been applied to the equipment. The MWO number will be shown on the case near the equipment nomenclature. If a current MWO is listed in DA PAM 25-30 but there is no evidence that it has been applied to the equipment you are unpacking, note discrepancy on DA Form 2404, Equipment Inspection and Maintenance Worksheet.

Section III. UNIT PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

4-6. GENERAL PMCS is performed upon receipt and quarterly thereafter. Record all defects found during the performance of PMCS and, if applicable, the steps taken to correct them, on DA Form 2404, Equipment Inspection and Maintenance Worksheet. Instructions for reporting/correcting noted deficiencies are contained in DA PAM 738-750.

4-7. UNIT PMCS PROCEDURES. Table 4-1 lists the specific PMCS that must be performed by unit maintenance personnel on a quarterly schedule.

a. Purpose. PMCS is accomplished to ensure that the equipment is ready for use at all times and all deficiencies are corrected promptly. These checks and services are designed to help you find and correct defects before the equipment is damaged or fails to operate.

b. Item No. Column. Item numbers in the first column indicate the order in which things are to be done. Use the PMCS table item number column to get the numbers for the TM Item No. column of DA Form 2404, Equipment Inspection and Maintenance Worksheet.

c. Item To Be Inspected/Serviced Column. A description of the item to be inspected or serviced.

d. Procedure Column. Procedure to be performed by unit maintenance personnel.

e. Equipment is Not Ready/Available Column. Contains the criteria that will cause the equipment to be classified as not ready/available because of inability to perform its combat mission.

Table 4-1. Unit Preventive Maintenance Checks and Services (PMCS)
Quarterly Schedule

Item No.	Item To Be Inspected/Serviced	Procedure	Equipment Not Ready/Available If:
1	M2 Burner Unit	Refer to TM 10-7360-204-13&P	
2	Modern Burner Unit (MBU)	Refer to TM 10-7310-281-13&P	

Section IV. UNIT TROUBLESHOOTING

4-8. GENERAL Table 4-2 lists common malfunctions of the equipment and contains instructions for unit personnel diagnosing and correcting each malfunction. Perform the indicated steps in the order listed.

NOTE

This manual cannot list all malfunctions that may occur. If a malfunction is either not listed or cannot be corrected by the indicated corrective actions, notify your supervisor.

Unit troubleshooting procedures for the M2 burner unit are outlined in TM 10-7360-204-13&P for the M2 and TM 10-7310-281-13&P for the MBU.

TM 10-7360-211-13&P

Table 4-2. Unit Troubleshooting

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

1. STORAGE RACK IS NOT STURDY OR SIDES DO NOT FIT.

Check for bent or loose wire mesh, or bent brackets.

If bent, straighten bent mesh or brackets with hand tools. If welding is required notify direct support maintenance.

2. SINK ASSEMBLY IS NOT STABLE.

Check for bends or breaks.

If bent, repair using hand tools. If major straightening of metal or welding is required, refer to direct support maintenance.

3. SINK DRAIN LEAKS.

Step 1. Check for proper drain hose connection.

Connect drain hose properly and tighten connections (para 2-6e).

Step 2. Check for split seams, holes or cracks in drain hose or sink.

Replace or repair drain hose (para 4-12).

4. SINK DOES NOT DRAIN.

Check drain valve operation.

Replace drain valve.

5. DRAIN TABLE IS UNSTEADY.

Check table legs for bends, breaks or missing hardware.

If bent, repair using hand tools. Replace missing hardware. If broken, replace table leg.

6. WORK TABLE IS UNSTEADY.

Check table legs for bends, breaks or missing hardware.

If bent, repair using hand tools. Replace missing hardware. If broken, replace table legs.

7. FIRE EXTINGUISHER IS NOT FULLY CHARGED.

Check gage on fire extinguisher for status of charge.

Replace fire extinguisher.

Section V. Unit Maintenance Procedures

4-9. GENERAL.

a. This section contains unit maintenance procedures as authorized by the Maintenance Allocation Chart (MAC), Appendix B of this manual. The following topics are included as applicable: a. Remove, b. Repair, c. Replace. All maintenance procedures in this section will be performed by one person unless otherwise indicated in the initial setup.

b. Read all warnings, cautions, notes, and instructions carefully before operating or working on this unit. Read and understand all warnings listed in the front of this manual.

c. Refer to TM 10-8340-224-13 for maintenance procedures on tent.

d. Refer to TM 10-7360-204-13&P for maintenance procedures on the M2 Burner Unit.

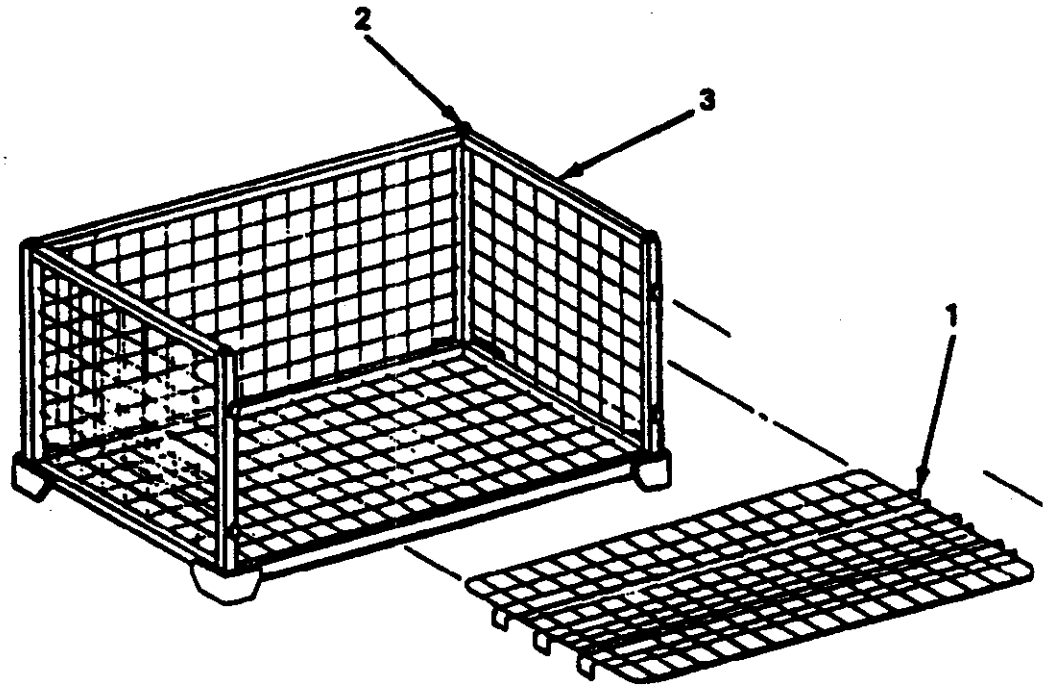
e. Refer to TM 10-7310-281-13&P for maintenance procedures on the MBU.

4-10. REPAIR OF STORAGE RACK ASSEMBLY.

INITIAL SET UP

Tools

General Mechanic's Tool Kit (Item 1, Section III, Appendix B)



REMOVAL AND REPLACE

1. Remove and replace defective or missing shelf/cover (1).
2. Remove and replace defective or missing tube plug (2).
3. Replace defective storage rack (3).

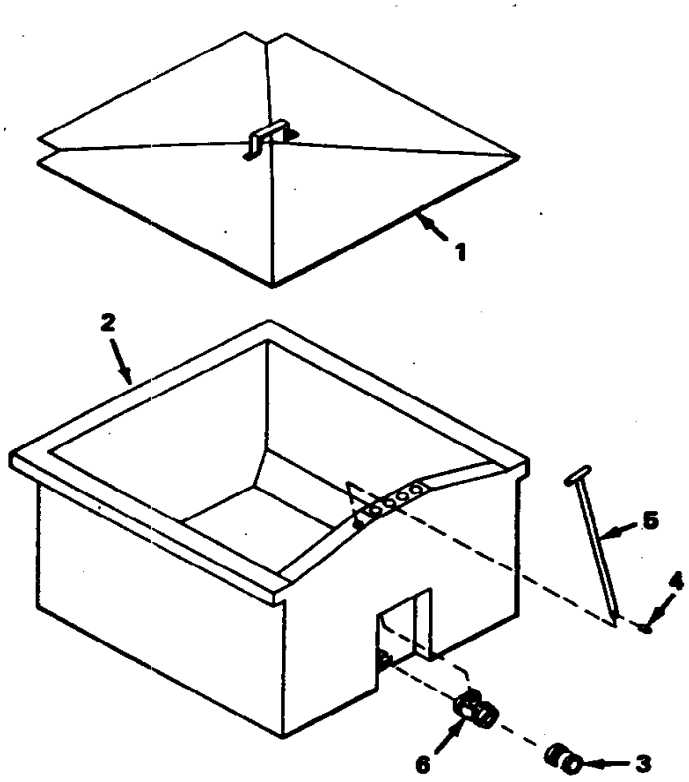
4-11. REPAIR OF SINK ASSEMBLY

INITIAL SET UP

Tools
General Mechanic's Tool Kit (Item 1, Section III, Appendix B)
Wrench, Adjustable (Item 12, Section III, Appendix B)

Materials/Parts
Sealing Compound

Equipment Condition
Sink cover (1) removed.
Drain hoses removed (para 2-8a(3)(c)).



REMOVAL

1. Remove cotter pin (4) from bottom of valve handle (5).
2. Remove valve handle (5).
3. Unscrew the coupling (3) from drain valve (6) at rear of sink body (2).
4. Unscrew the drain valve (6) from sink body (2).

REPLACE

1. Replace defective parts.
2. Place sealing compound (Item 5, Appendix E) on all threads to ensure a leakproof seal.
3. Install drain valve (6) by threading onto sink body (2).
4. Align drain valve (6) with valve handle (5) stem and slide into place.
5. Install cotter pin (4) through valve handle (5) and drain valve (6).
6. Thread coupling (3) into drain valve (6) and tighten.

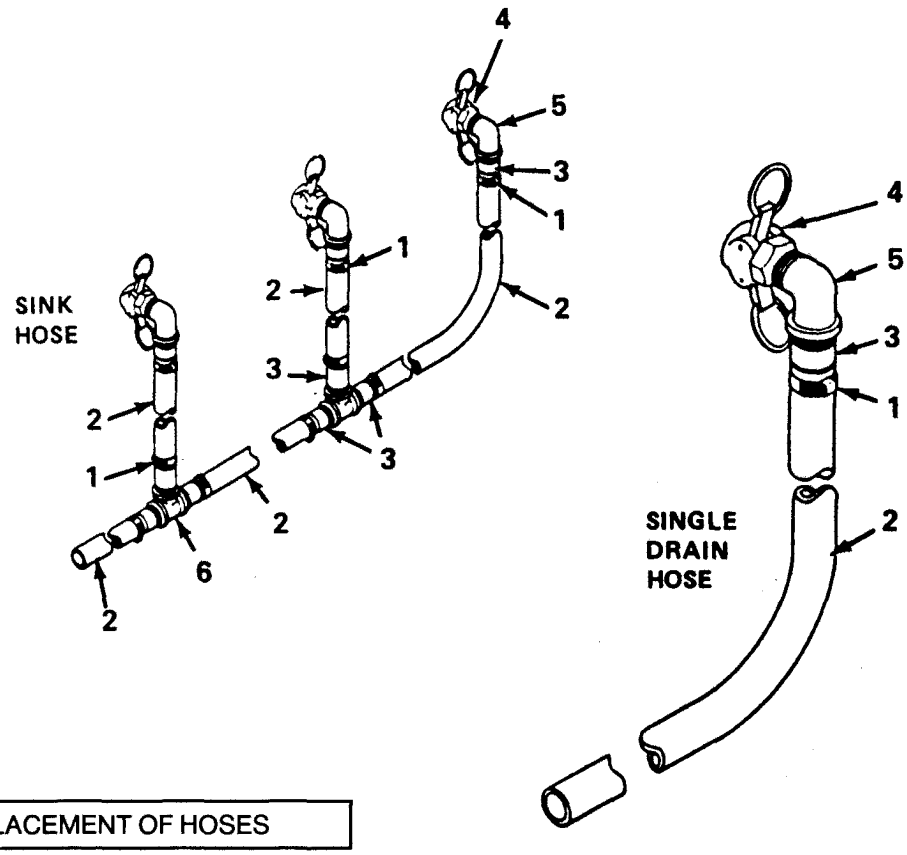
4-12. REPAIR OF DRAIN HOSES (SINGLE OR THREE SINK).

INITIAL SET UP

Tools
- General Mechanic's Tool Kit (Item 1, Section III, Appendix B)
- Knife, Pocket (Item 5, Section III, Appendix B)
- Wrench, Adjustable (Item 12, Section III, Appendix B
- Wrench, Pipe (Item 14, Section III, Appendix B

Materials/Parts
- Hose (Bulk Material)
- Sealing Compound

Equipment Condition
- Drain hoses removed (para 2-8a(3)(c)).



REMOVAL AND REPLACEMENT OF HOSES

1. Loosen hose clamps (1).
2. Slide the defective hoses (2) off nipples (3).
3. Measure and cut bulk hose to size.
4. Slide hose end (2) over nipple (3).
5. Position hose clamps (1); tighten.

REMOVAL AND REPLACEMENT OF COUPLING, STREET ELBOW, NIPPLE OR TEE

1. Unscrew coupling (4) from street elbow (5).
2. Remove hoses (2) per steps 1 and 2 above.
3. Unscrew nipple (3) from street elbow (5) or tee (6).
4. Inspect for defective threads. Replace defective parts.
5. Place Sealing Compound (Item 5, Appendix E) on threads to ensure leakproof seal.
6. Thread nipples (3) into tee (6) and street elbow (5).
7. Thread coupling (4) onto street elbow (5).
8. Install hoses and clamps.

4-13. REPAIR OF DRAIN TABLE OR WORK TABLE.

INITIAL SET UP

Tools

General Mechanic's Tool Kit (Item 1, Section Ill, Appendix B)

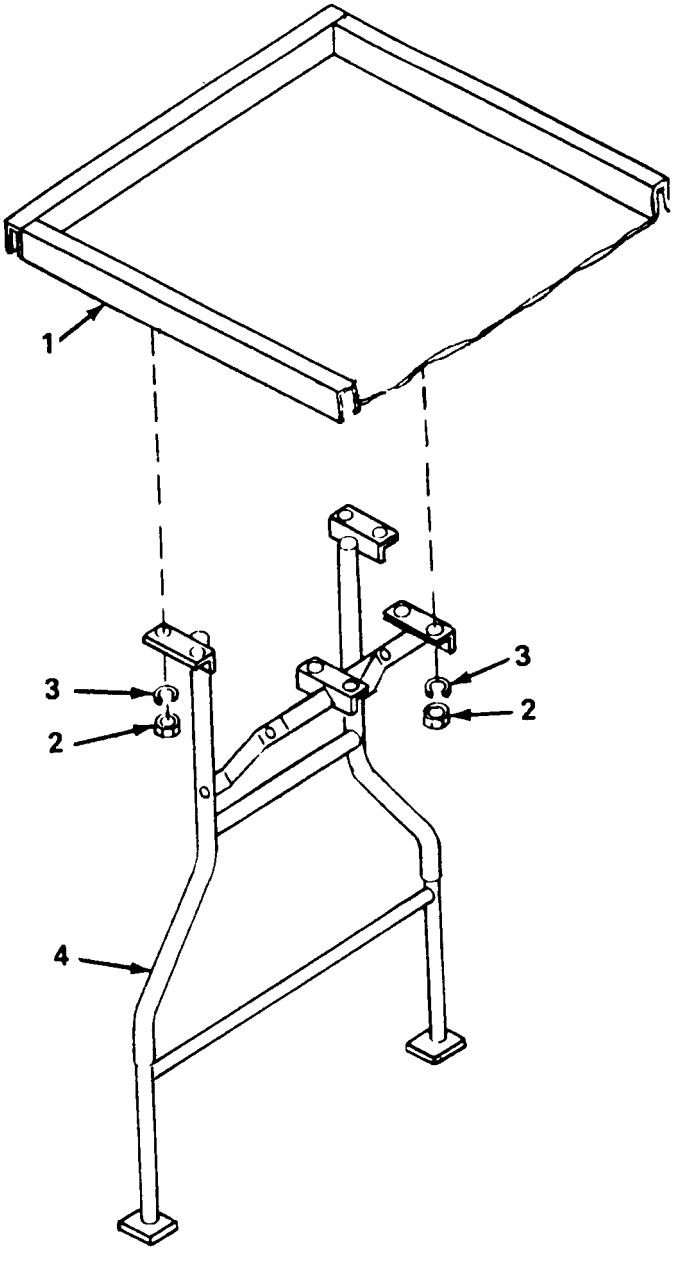
Materials/Parts

Lock Washer

General Purpose Lubricating Oil (Item 3, Appendix E)

NOTE

- If table hinges are bent or difficult to use repair by straightening hinge link with hand tools.
- Lubricate friction areas, if necessary with general purpose lubricating oil.



REMOVAL

1. Remove eight nuts (2) and lock washers (3).
2. Remove table leg (4) off table.

REPLACE

1. Install table leg (4) on table top (1)
2. Install eight lock washers (3) and nuts (2) on studs and tighten.

Section VI. PREPARATION FOR STORAGE OR SHIPMENT

4-14. ADMINISTRATIVE STORAGE.

a. Placement of equipment in administrative storage should be for short periods of time when a shortage of maintenance effort exists. Items should be in mission readiness within 24 hours or within the time factors as determined by the directing authority. During the storage period appropriate maintenance records will be kept.

b. Before placing equipment in administrative storage, current maintenance services and equipment serviceable criteria (ESC) evaluations should be completed, shortcomings and deficiencies should be corrected, and all modification work orders (MWO's) should be applied.

c. Storage site selection. Inside storage is preferred for items selected for administrative storage. If inside storage is not available, trucks, vans, convex containers and other containers may be used.

4-15. PREPARATION FOR STORAGE OR SHIPMENT. Prepare the equipment for movement as described in paragraph 2-8. Preservation, packaging, and packing of military supplies and equipment are described in TM 38-230-2.

Storage.

NOTE

Be sure the storage location is on firm, level ground and at a well drained site.

Store the equipment in a building, shed, or under cover. If the equipment is to be stored outside, place on a pallet or planking; place a canvas tarp or waterproof cover over it.

4-16. PACKING FOR SHIPMENT. If available, use packing materials and shipping cartons in which the equipment was received, or similar material, to pack equipment for shipment.

CHAPTER 5

DIRECT SUPPORT MAINTENANCE INSTRUCTIONS

Section I. GENERAL

5-1. SCOPE OF DIRECT SUPPORT MAINTENANCE. Direct support maintenance identified in appendix B consists of repairing or replacing components that are riveted or welded. Refer to TC 9-510 for information on metal body repairs. Direct support maintenance of the Tent, Extended Modular is covered in TM 10-340-224-13.

Section II. DIRECT SUPPORT MAINTENANCE PROCEDURES

5-2. WELDING. FSC components, such as the Storage Rack Assembly, Shelf/Cover, Sink Assembly, Sink Cover, Sink Body Assembly, Burner Rack, Base Rack and Tables may require repair by welding. Refer to TM 9237 for information on welding theory and application.

APPENDIX A

REFERENCES

A-1. SCOPE. This appendix lists all forms, pamphlets, field manuals, technical manuals, Army Regulations, military specifications, and military standards referenced in the manual.

A-2. FORMS

Discrepancy in Shipment Report ..... SF 361
Equipment Daily or Monthly Log ..... DA Form 2408-1
Equipment Inspection and Maintenance Worksheet ..... DA Form 24-4
Maintenance Request ..... DA Form 2407
Report of Discrepancy ..... SF Form 364
Product Quality Deficiency Report ..... SF 368
Recommended Changes to Equipment Technical Publications ..... DA Form 2028-2
Report of Packaging and Handling Deficiencies ..... SF 362

A-3. FIELD MANUALS

Army Troop Feeding Operations ..... FM 10-23
First Aid for Soldiers ..... FM 21-11
General Fabric Repair ..... FM 10-16
Field Water Supply ..... FM 10-52

A-4. TECHNICAL MANUALS

Inspections and Preventive Maintenance Services: Ranges, Bake Ovens and Burners for Other Mess Equipment ..... TM 5-641
Metal Body Repairs and Related Operations ..... TC 9-510
Operator, Organizational and Direct Support Maintenance Manual Including Repair Parts and Special Tools List for Range Outfit, Field Gasoline, Model M59 ..... TM 10-7360-204-13&P
Operator, Organizational and Direct Support Maintenance Manual Including Repair Parts and Special Tools List for Kitchen, Field, Modular ..... TM 10-7360-208-13&P
Operator's Unit and Direct Support Maintenance Manual Including Repair Parts and Special Tools List for Modern Burner Unit ..... TM 10-7310-281-13&P
Operator, Organizational and Direct Support Maintenance Manual Including Repair Parts and Special Tools List for Tent, Extendable, Modular (16 x 20 Utility) (NSN 8340-01-185-2613) ..... TM 10-8340-224-13
Procedure for Destruction of Equipment to Prevent Enemy Use ..... TM 750-224-3
Ranges, Bake Ovens and Burners for Mess Equipment; Repairs and Utilities ..... TM 5-640
Welding Theory and Application ..... TM 9-237
Preservation, Packaging, Packing of Military Supplies end Equipment ..... TM 38-230-2

A-5. ARMY REGULATIONS

Identification and Distribution of DA Publications and Issue of Agency and Command Administrative Publications ..... AR 310-2
Reporting of Item and Packaging Discrepancies ..... AR 735-11-2
Reporting of Transportation Discrepancies in Shipments ..... AR 55-38

A-6. MISCELLANEOUS

Consolidated Index of Army Publications and Blank Forms ..... DA PAM 25.30
Hand Portable Fire Extinguishers Approved for Army Users ..... TB 5-4200-200-10
Identification List for Fuels, Lubricants, Oils and Waxes C9100-1L
The Army Maintenance Management System (TAMMS) ..... DA PAM 738-750
Combat Field Feeding System Operations ..... FC 21-150
Occupational and Environmental Health Food Service Sanitation ..... TB Med 530

APPENDIX B

MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

B-1. GENERAL.

a. This section provides a general explanation of all maintenance and repair functions authorized at various maintenance categories.

b. The Maintenance Allocation Chart (MAC) in section II designates overall authority and responsibility for the performance of maintenance functions on the identified end item or component. The application of the maintenance functions to the end item or component will be consistent with the capacities and capabilities of the designated maintenance categories.

c. Section III lists the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from section II.

d. Section IV contains supplemental instructions and explanatory notes for a particular maintenance function.

B-2. MAINTENANCE FUNCTIONS. Maintenance functions will be limited to and defined as follows:

a. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination (e.g., by sight, sound, or feel).

b. Test. To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards.

c. Service. Operations required periodically to keep an item in proper operating condition, i.e., to clean (includes to decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gases.

d. Adjust. To maintain or regulate, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to specified parameters.

e. Align. To adjust specified variable elements of an item to bring about optimum or desired performance.

f. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments or test, measuring, and diagnostic equipments used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

g. Remove/Install. To remove and install the same item when required to perform service or other maintenance functions. Install may be the act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.

h. Replace. To remove an unserviceable item and install a serviceable counterpart in its place. "Replace" is authorized by the MAC and is shown as the 3rd position code of the SMR code.

B-2. MAINTENANCE FUNCTIONS (Continued)

i. Repair. The application of maintenance services, including fault location/troubleshooting, removal/installation, and disassembly/assembly procedures, and maintenance actions to identify troubles and restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

j. Overhaul. That maintenance effort (service/action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in appropriate technical publications (i.e. DMWR). Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

k. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of material maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours/miles, etc.) considered in classifying Army equipment/components.

B-3. EXPLANATION OF COLUMNS IN THE MAC, SECTION II.

a. Column 1, Group Number. Column 1 lists functional group code numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the next higher assembly. End item group number shall be “00”.

b. Column 2, Components/Assembly. Column 2 contains the names of the components, assemblies, subassemblies, and modules for which maintenance is authorized.

c. Column 3, Maintenance Function. Column 3 lists the functions to be performed on the item listed in column 2. (For detailed explanation of these functions, see paragraph B-2.)

d. Column 4, Maintenance Category. Column 4 specifies, by the listing of a work time figure in the appropriate subcolumn(s), the category of maintenance authorized to perform the function listed in Column 3. This figure represents the active time required to perform that maintenance function at the indicated category of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance categories, appropriate work time figures will be shown for each category. The work time figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time (including any necessary disassembly/assembly time), troubleshooting/fault location time, and quality assurance/quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the maintenance allocation chart. The symbol designations for the various maintenance levels are as follows:

C - Operator or crew
O - Unit maintenance
F - Direct support maintenance
H - General support maintenance
D - Depot maintenance

e. Column 5, Tools and Equipment. Column 5 specifies, by code, those common tool sets (not individual tools) and special tools, TMDE, and support equipment required to perform the designated function.

f. Column 6, Remarks. This column is provided for referencing by code the remarks (Section IV) pertinent to the maintenance functions.

B-4. EXPLANATION OF COLUMNS IN TOOL AND TEST EQUIPMENT REQUIREMENTS, SECTION III.

a. Column 1. Reference Code. The tool and test equipment reference code correlates with a code used in the MAC, Section II, Column 5.

a. Column 2, Maintenance Category. The lowest category of maintenance authorized to use the tool or test equipment.

c. Column 3. Nomenclature. Name or identification of the tool or test equipment.

d. Column 4. National Stock Number. The national stock number of the tool or test equipment.

e. Column 5. Tool Number. The manufacturer's part number.

B-5. EXPLANATION OF COLUMNS IN REMARKS, SECTION IV.

a. Column 1. Reference Code. The code recorded in column 6, Section II.

b. Column 2. Remarks. This column lists information pertinent to the maintenance function being performed, as indicated on the MAC, Section II.

Section I. MAINTENANCE ALLOCATION CHART

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL C	O	F	H	D	(5) TOOLS AND EQUIP.	(6) REMARSKS
00	Food Sanitation Center								
01	Tent							8	A
02	Lantern, Gasoline								B
03	Storage Rack Assembly	Inspect	0.1						
		Service	0.2						C
		Repair		0.5	1.0			1	D
04	Sink Assembly								
0401	Cover, Sink	Inspect	0.1						
		Service	0.2						C
		Repair			1.0			1	D
0402	Body Assembly, Sink	Inspect	0.1						
		Service	0.2						C
		Repair		0.5	1.0			1, 12	D
0403	Rack, Burner	Inspect	0.1						
		Service	0.2						C
		Repair			1.0				D
0404	Rack, Base	Inspect	0.1						
		Service	0.2						C
		Repair			1.0				D
05	Drain Hose Assemblies								
0501	Drain Hose, Single Sink	Inspect	0.1						
		Service	0.2						E
		Replace		0.5					C
		Repair		0.8				1,5,12,14	
0502	Drain Hose, Three Sink	Inspect	0.1						
		Service	0.2						E
		Replace		0.6					C
		Repair		1.0				1,5,12,14	
06	Burner Unit, M2A/MBU							2,3,7,9 10,11,13	F,G
07	Table Assermbly, Sink Drain	Inspect	0.1						
		Service	0.2						C
		Repair		0.5	1.0			1	D
08	Table Assembly, Folding Legs	Inspect	0.1						
		Service	0.2						C
		Repair		0.5	1.0			1	D

Section III. TOOL AND TEST EQUIPMENT REQUIREMENTS

(1) REF CODE	(2) MAINTENANCE LEVEL	(3) NOMENCLATURE	(4) NATIONAL/NATO STOCK NUMBER	(5) TOOL NUMBER
1	0	Tool Kit, General Mechanic's: Automotive	5180-00-177-7033	
2	C	Brush, Wire	7920-00-291-5815	
3	C	Cleaner, Burner Slot	5120-00-379-2490	
4	C	Hammer, Hand	5120-00-892-5485	
5	O	Knife, Pocket	5110-40-240-5943	
6	C	Plier's, Sip Joint	5120-00-223-7397	
7	C	Pump, Inflating	4320-00-852-9036	
8	0	Repair Kit Fabric	8340-00-262-5767	
9	C	Screwdive, Cross Tip	5120-00-234-8913	
10	C	Screwdriver, Flat Tip	5120-00-222-8852	
11	C	Wrench, Adjustable	5120-00-240-5328	
12	0	Wrench, Adjustable	5120-00-449-8084	
13	C	Wrench, Combination	5120-00-303-7737	
14	0	Wrench, Pipe	5120-00-277-1462	

Section IV. REMARKS

REFERENCE CODE	REMARKS
A	Refer to TM 10-834224-13 for Tent Maintenance Instructions
B	Refer to FM-10-23 for Lantern Maintenance Instructions
C	Service includes cleaning
D	Weld at Direct Support Level
E	Inspect includes ensuring drain hoses are not dogged
F	Refer to TM 10-7360-204-13&P for M2 Burner Unit Maintenance Instructions

APPENDIX C

COMPONENTS OF END ITEM AND BASIC ISSUE ITEMS LIST

Section I. INTRODUCTION

C-1. SCOPE. This appendix lists Components of End Item (COEI) and Basic Issue Items (BII) for the FSC to help you inventory items required for safe and efficient operation.

C-2. GENERAL. The Components of End Item List (COEI) is divided into the following sections:

a. Section II, Components of End Item. This listing is for informational purposes only, and is not authority to requisition replacements. These items are part of the end item, but are removed and separately packaged for transportation or shipment. As part of the end item, these items must be with the end item whenever it is issued or transferred between property accounts. Illustrations are furnished to assist you in identifying the items.

b. Section III. Basic Issue Items. These are the minimum essential items required to place the FSC in operation, to operate it, and to perform emergency repairs. Although shipped separately packed, BII must accompany the FSC during operation and whenever it is transferred between accountable officers. The accompanying illustrations will assist you with hard-to-identify items. This manual is your authority to requisition replacement BII based on Modified Table of Organization and Equipment (MTOE) authorization of your FSC.

C-3. EXPLANATION OF COLUMNS. The following provides an explanation of columns found in the tabular listings:

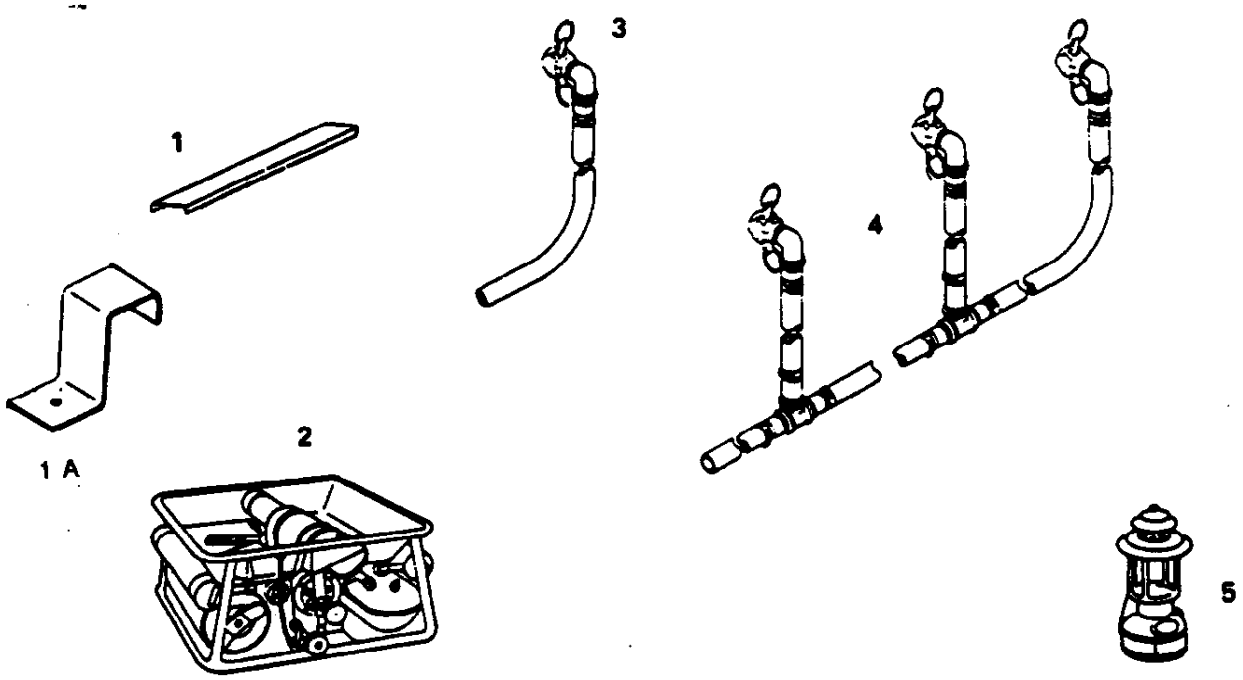
a. Column (1) - Illustration Number (Illus Number). Indicates the illustration number of FSC components and accessories.

b, Column (2) - National Stock Number (NSN). Indicates the NSN assigned to the item and will be used for requisitioning purposes,

c. Column (3) - Description. CAGEC and Part Number. Indicates the Federal item name and, if required, a minimum description to identify and locate the item. The last line for each item indicates the CAGEC (in parenthesis) followed by the part number. If item needed differs for different models of this equipment, the model is shown under the "Usable On' heading in this column.

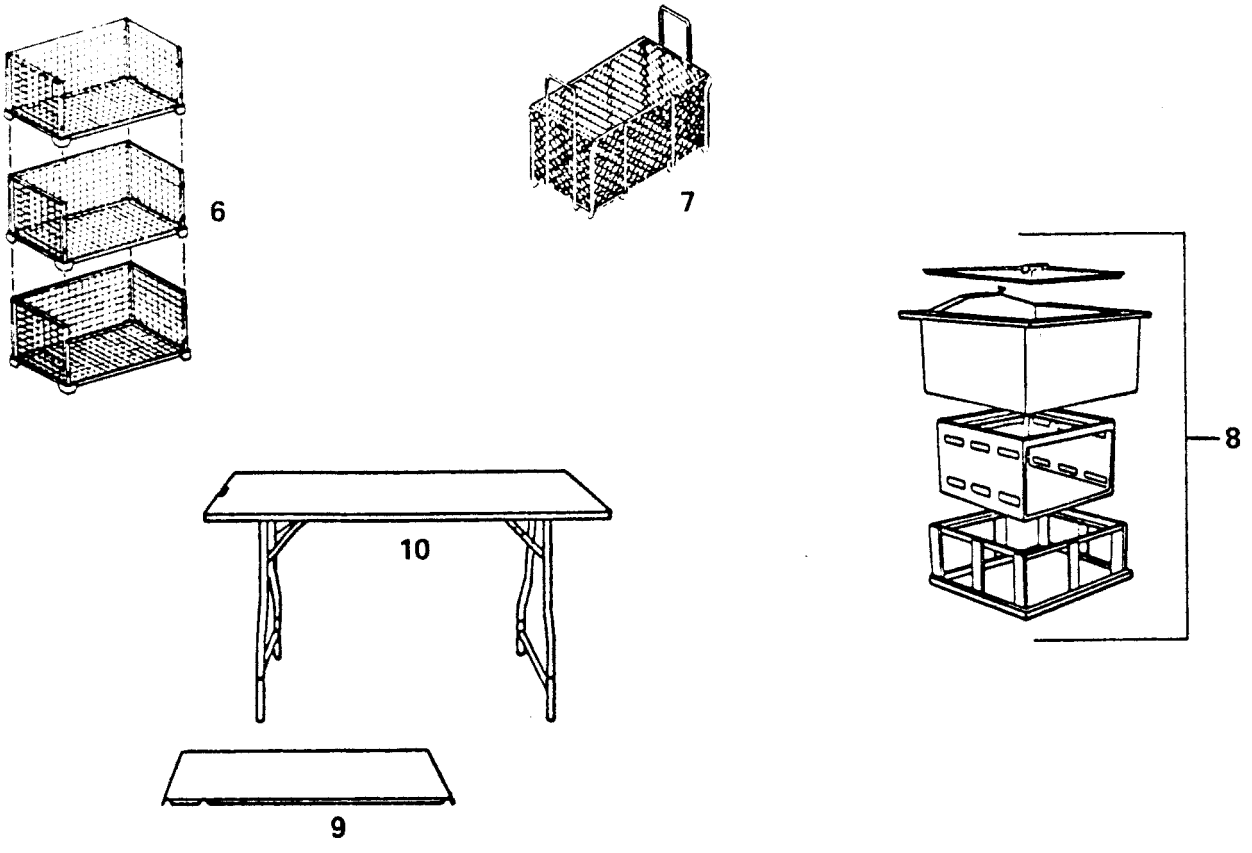
d. Column (4) - Unit of Measure (U/M). Indicates the measure used in performing the actual operational/maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr).

e. Column (5) - Quantity Required (Qty Rqd). Indicates the quantity of the item authorized to be used with/on the equipment.



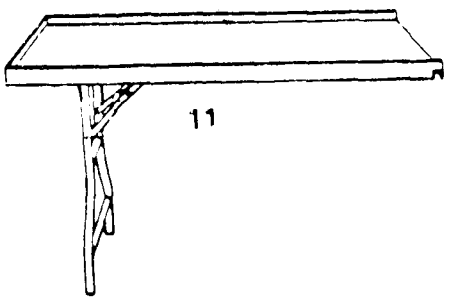
SECTION II. COMPONENTS OF END ITEM

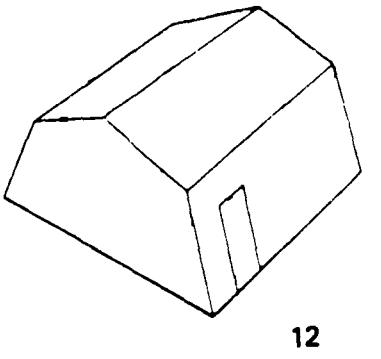
(1) Illus Number	(2) National Stock Number	(3) Description, CAGEC, and Part Number	Usable On Code	(4) U/M	(5) Qty Rqr
1	7320-01-333-9188	Adapter, Sink (81337) 5-13-4256		EA	2
1A	5340-01-333-8483	Bracket Angle 337) 5-13-4261		EA	3
2	7310-01-113-9172	Burner Unit, M2A (81337) MIL-B-40098		EA	3
	7310-01-452-6515	Food Sanitation Center Modern Burner Unit Kit		EA	1
	7310-01-452-8137	Modern Burner Unit (3AD06) MS001			
3	4720-01-333-8488	Drain Hose Assembly, Single Sink (81337) 5-13-4061		EA	1
4	4720-01-333-8489	Drain Hose Assembly, Three Sink (81337) 5-13-3749		EA	1
5	6260-00-837-0996	Lantern, Gasoline (58536) A-A-52078		EA	2

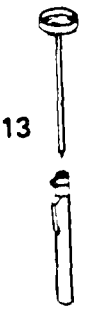


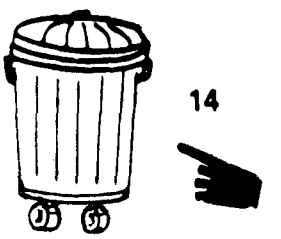
SECTION II. COMPONENTS OF END ITEM - Continued

(1) Illus Number	(2) National Stock Number	(3) Description, CAGEC, and Part Number	Usable On Code	(4) U/M	(5) Qty Rqr
6	7125-01-334-3159	Rack Assembly, Storage/Drying (81337) 5-13-4050		EA	6
7	7320-01-334-3160	Rack, Sink, Immersion (81337) 5-13-4255		EA	2
8	4510-01-333-9186	Sink Assembly, (81337) 5-13-4120		EA	3
9	5340-01-333-8486	Shelf, Table (81337) 5-13-4257		EA	1
10	7105-01-333-8493	Table, Folding Leg (81337) 5-13-4212		EA	1



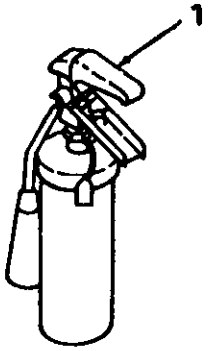


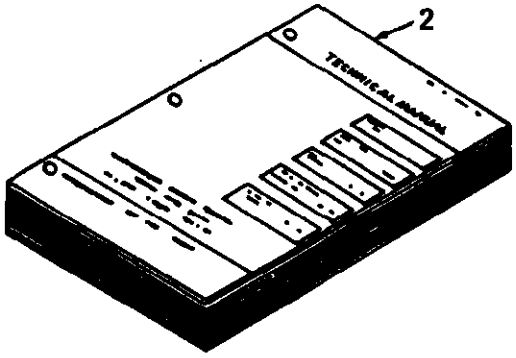




SECTION II. COMPONENTS OF END ITEM - Continued

(1) Illus Number	(2) National Stock Number	(3) Description, CAGEC, and Part Number	Usable On Code	(4) U/M	(5) Qty Rqr
11	7305-01-333-8492	Table, Drain (81337) 5-13-4240		EA	1
12	8340-01-185-2613	Tent, Extendable Modular (16 X 20 Utility) (81337) MIL-T-44271		EA	1
13	6685-00-444-6500	Thermometer, 5-1/2 inch (28480) 0440-0004		EA	3
14	7240-00-151-6629	Waste Receptacle 32 gallon, with lid (58536) A-A-295		EA	2





Section III. BASIC ISSUE ITEMS

(1) Illus Number	(2) National Stock Number	(3) Description, CAGEC and Part Number	Usable On Code	(4) U/M	(5) Qty Rqd.
1	4210-01-149-1356	Extinguisher, Fire (19207) 12255633-1		EA	1
2		Technical Manual TM 10-7310-281-13&P		EA	1
		Technical Manual TM 10-7360-211-13&P		EA	1
		Technical Manual TM 10-7360-204-13&P		EA	1
		Technical Manual TM 10-8340-224-13&P		EA	1

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APPENDIX D

ADDITIONAL AUTHORIZATION LIST

Section I. INTRODUCTION

D-1. SCOPE. This appendix lists additional items authorized for the support of the FSC.

D-2. GENERAL. This list identifies items that do not have to accompany the FSC and that do not have to be turned in with it. These items are all authorized to you by CTA, MTOE, TDA, or JTA.

D-3. EXPLANATION OF LISTING. National Stock Numbers, descriptions, and quantities are provided to help you identify and request the additional items you require to support this equipment. The items are listed in alphabetical sequence by item name under the type document (i.e., CTA, MTOE, TDA, or JTA) which authorizes the item(s) to you. If the item you require differs between serial numbers of the same model, effective serial numbers are shown in the last line of the description. If item required differs for different models of this equipment, the model is shown under the "Usable on" heading in the description column.

Section II. ADDITIONAL AUTHORIZATION LIST

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION CAGEC & PART NUMBER USABLE ON CODE	(3) U/M	(4) QTY AUTH
	CTA AUTHORIZED ITEMS		
8415-00-634-5023	APRON, UTILITY (81348) ZZA605	EA	6
8340-01-186-3025	FLOOR, TENT (81349) MIL-T-44243	EA	2
	GLOVE, NITRILE (30716) A1810	PR	8
4520-00-927-4214	HEATER, SPACE (81349) MIL-H-13514	EA	1
8340-01-211-9638	LINER, TENT (81349) MIL-T-44222	EA	2

APPENDIX E

EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

E-1. SCOPE. This appendix lists expendable supplies and materials you will need to operate and maintain the FSC. This listing is for informational purposes only and is not authority to requisition the listed items. These items are authorized to you by CTA 50-970, Expendable/Durable Items (except Medical Class 5, Repair Parts, and Heraldic Items), or CTA 8-100, Army Medical Department Expendable/Durable Items.

E-2. EXPLANATION OF COLUMNS.

a. Column (1) - Item Number. This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g., "Use cleaning compound, item 5, App.E").

b. Column (2) - Level. This column identifies the lowest Ievel of maintenance that requires the listed item.

C - Operator/Crew

c. Column (3) - National Stock Number. This is the NSN assigned to the item; use it to request or requisition the item.

d. Column (4) - Description. Identifies the Federal item name. If required, the last line for each item indicates a description to identify the item. The last line for each item indicates the Commercial and Government Entity Code (CAGEC) in parenthesis, followed by the part number.

e. Column (5) - Unit of Measure (U/M). Indicates the measure used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr). If the unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

SECTION II. EXPENDABLE SUPPLIES AND MATERIALS LIST

(1) ITEM NO.	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
1	C	8135-00-226-3124	BARRIER MATERIAL (81349)MIL-B-121	RO
2	C	6850-00-664-5685	DRY CLEANING SOLVENT (58536)A-A-711 TY1	GL
3	C	9150-00-273-2389	LUBRICATING OIL,GENERAL PURPOSE (81348)VV-L-800	OZ
4	C	7920-00-659-9175	PADS,SCOURING (80244)L-P-0050 TY15Z1	EA
5	O	8030-00-201-0996	SEALING COMPOUND (81348)TT-S-1732	OZ

APPENDIX F

UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

SECTION I. INTRODUCTION

1. SCOPE. This RPSTL lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of unit, direct support, and general support maintenance of the Food Sanitation Center. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the source, maintenance and recoverability (SMR) codes.

2. GENERAL. In addition to this section, Introduction, this Repair Parts and Special Tools List is divided into the following sections:

a. Section II. Repair Parts List. A list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Bulk materials are listed in item name sequence. Repair parts kits are listed separately in their own functional group within Section II. Repair parts for repairable special tools are also listed in this section. Items listed are shown on the associated illustration(s)/figure(s).

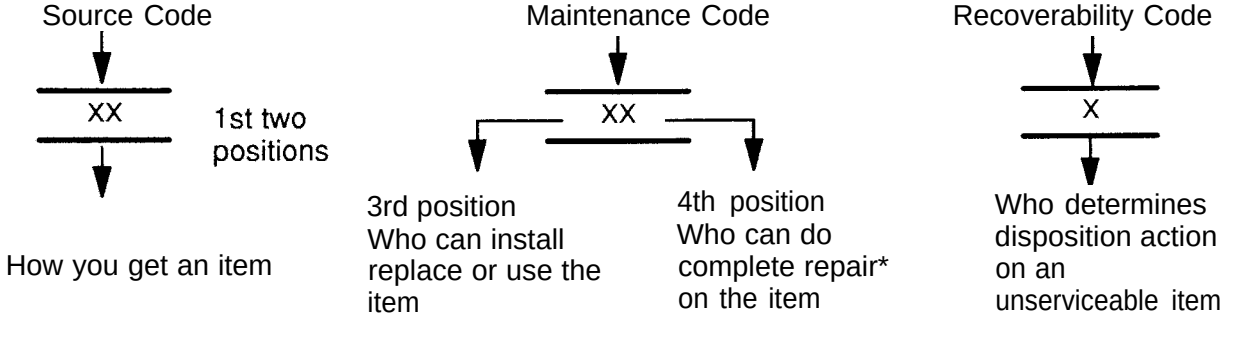
b. Section III. Special Tools List. A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of issue (BOI) information in DESCRIPTION AND USABLE ON CODE column) for the performance of maintenance.

c. Section IV. Cross-references Indexes. A list, in National Item Identification Number (NIIN) sequence, of all National stock numbered items appearing in the listing, followed by a list in alphanumeric sequence of all part numbers appearing in the listings. National stock numbers and part numbers are cross referenced to each illustration figure and item number appearance. The figure and item number index lists figure and item number in alphanumeric sequence and cross references NSN, CAGEC and part number.

3. EXPLANATION OF COLUMNS (SECTIONS II AND III).

a. ITEM NO. (Column (1)). Indicates the number used to identify items called out in the illustration.

b. SMR Code (Column (2)). The Source, Maintenance, and Recoverability (SMR) code is a 5-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instruction, as shown in the following breakout:



*Complete Repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

(1) Source Code. The source code tells you how to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follows:

Code	Explanation
PA PB PC** PD PE PF PG	Stocked items; use the applicable NSN to request/requisition items with these source codes. They are authorized to the category indicated by the code entered in the 3rd position of the SMR code. **NOTE: Items coded PC are subject to deterioration.
KD KF KB	Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance category indicated in the 3rd position of the SMR code. The complete kit must be requisitioned and applied.
MO - (Made at org AVUM Level) MF - (Made at DS/AVUM Level) MH - (Made at GS Level) ML - (Made at Specialized Repair Activity (SRA)) MD - (Made at Depot)	Items with these codes are not to be requested/requisitioned individually. They must be made from bulk material which is identified by the part number in the DESCRIPTION and USABLE ON CODE (UOC) column and listed in the Bulk Material group of the repair parts list in this RPSTL. If the item is authorized to you by the 3rd position code of the SMR code, but the source code indicates it is made at a higher level, order the item from the higher level of maintenance.
AO - (Assembled by org/AVUM Level) AF - (Assembled by DS/AVIM Level AH - (Assembled by GS Category) AL - (Assembled by SRA) AD - (Assembled by Depot)	Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the level of maintenance indicated by the source code. If the 3rd position code of the SMR code authorizes you to replace the item, but the source code indicates the items are assembled at a higher level, order the item from the higher level of maintenance.

X A - Do not requisition "XA" -coded item. Order its next higher assembly. (Also, refer to the NOTE below.)

X B - If an "XB" item is not available from salvage, order it using the CAGEC and part number given.

X C - Installation drawing, diagram, instruction sheet, field service drawing, that is identified by Reciprocating Compressor manufacturer's part number.

X D - Item is not stocked. Order an "XD" -coded item through normal supply channels using the CAGEC and part number given if no NSN is available.

NOTE

Cannibalization or controlled exchange, when authorized, maybe used as a source of supply for items with the above source codes, except for those source coded "XA" or those aircraft support items restricted by requirements of AR 750-1.

(2) Maintenance Code. Maintenance codes tells you the level(s) of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the SMR code as follows:

(a) The maintenance code entered in the third position tells you the lowest maintenance level authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to one of the following levels of maintenance.

Code	Application/Explanation
C	Crew or operator maintenance done within organizational or aviation unit maintenance.
O	Organizational or aviation unit category can remove, replace, and use the item.
F	Direct support or aviation intermediate level can remove, replace, and use the item.
H	General support level can remove, replace, and use the item.
L	Specialized repair activity can remove, replace, and use the item.
D	Depot level can remove, replace, and use the item.

(b) The maintenance code entered in the fourth position tells whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (i.e. , perform all authorized repair functions.) NOTE: Some limited repair may be done on the item at a lower level of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes. This position will contain one of the following maintenance codes.

Code		Application/Explanation
O	-	Organizational or (aviation unit) is the lowest level that can do complete repair of the item.
F	-	Direct support or aviation intermediate is the lowest level that can do complete repair of the item.
H	-	General Support is the lowest level that can do complete repair of the item.
L	-	Specialized repair activity is the lowest level that can do complete repair of the item.
D	-	Depot is the lowest level that can do complete repair of the item.
Z	-	Nonreparable. No repair is authorized.
B	-	No repair is authorized. (No parts or special tools are authorized for the maintenance of a "B''coded item). However, the item may be reconditioned by adjusting, lubricating, etc., at the user level.

(3) Recoverability Code. Recoverability codes are assigned to items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the SMR Code as follows:

Recoverability Codes	Application/Explanation
Z	Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in 3d position of SMR Code.
O	Reparable item. When not economically reparable, condemn and dispose of the item at organizational or aviation unit level
F	Reparable item. When uneconomically reparable, condemn and dispose of the item at the direct support or aviation intermediate level
H	Reparable item. When uneconomically reparable, condemn and dispose of the item at the general support level.
D	Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item not authorized below depot level.
L	Reparable item. Condemnation and disposal not authorized below specialized repair activity (SRA).
A	Item requires special handling or condemnation procedures because of specific reasons (e.g., precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specificinstructions.

c. CAGEC (Column (3)). The Commercial and Government Entity Code (CAGEC) is a 5-digit numeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

d. PART NUMBER (Column (4)). Indicates the primary number used by the manufacturer, (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

NOTE

When you use an NSN to requisition an item, the item you receive may have a different part number from the part ordered.

e. DESCRIPTION AND USABLE ON CODE (UOC) (Column (5). This column includes the following information:

(1) The Federal item name and, when required, a minimum description to identify the item.

(2) The physical security classification of the item is indicated by the parenthetical entry, e.g., PhySec C1 - Confidential, Phy Sec C1 (S) - Secret, Phy Sec C1 (T) - Top Secret.

(3) Items that are included in kits and sets are listed below the name of the kit or set.

(4) Spare/repair parts that make up an assembled item are listed immediately following the assembled item line entry.

(5) Part numbers for bulk materials are referenced in this column in the line item entry for the item to be manufactured/fabricated.

(6) When the item is not used with all serial numbers of the same model, the effective serial numbers are shown on the last line(s) of the description (before UOC).

(7) The usable on code, when applicable (see paragraph 5, Special Information).

(8) In the Special Tools List section, the basis of issue (BOI) appears as the last line(s) in the entry for each special tool, special TMDE, and other special support equipment. When density of equipments supported exceeds density spread indicated in the basis of issue, the total authorization is increased proportionately.

(9) The statement "END OF FIGURE" appears just below the last item description in Column 5 for a given figure in both Section II and Section Ill.

(10) The indenture, shown as dots appearing before the repair part, indicates that the item is a repair part of the next higher assembly.

f. QTY (Column (6)). The QTY (quantity per figure column) indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that the quantity is variable and may vary from application to application.

4. EXPLANATION OF COLUMNS (SECTION IV).

a. NATIONAL STOCK NUMBER (NSN) INDEX.

(1) STOCK NUMBER column. This column lists the NSN by National item identification number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN, i.e.

NSN
5305–01–574–1467
NIIN

When using this column to locate an item, ignore the first 4 digits of the NSN. However, the complete NSN should be used when ordering items by stock number.

(2) FIG. column. This column lists the number of the figure where the item is identified/located. The figures are in numerical order in Section II and Section Ill.

(3) ITEM column. The item number identifies the item associated with the figure listed in the adjacent FIG. column. This item is also identified by the NSN listed on the same line.

b. PART NUMBER INDEX. Part numbers in this index are listed by part number in ascending alphanumeric sequence (i e., vertical arrangement of letter and number combination which places the first letter or digit of each group in order A through Z, followed by the numbers 0 through 9 and each following letter or digit in like order).

(1) CAGEG column. The Commercial and Government Entity Code (CAGEC) is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

(2) PART NUMBER column. Indicates the primary number used by the manufacturer (individual, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

(3) STOCK NUMBER column. This column lists the NSN for the associated part number and manufacturer identified in the PART NUMBER and CAGEC columns to the left.

(4) FIG. column. This column lists the number of the figure where the item is identified/located in Sections II and Ill.

(5) ITEM column. The item number is that number assigned to the item as it appears in the figure referenced in adjacent figure number column.

c. FIGURE AND ITEM NUMBER INDEX.

(1) FIG. column. This column lists the number of the figure where the item is identified/located in Section II and Ill.

(2) ITEM column. The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

(3) STOCK NUMBER column. This column lists the NSN for the item.

(4) CAGEC column. The Commercial and Government Entity Code (CAGEC) is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

(5) PART NUMBER column. Indicates the primary number used by the manufacturer (individual, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

5. SPECIAL INFORMATION.

a. USABLE ON CODE. The usable on code appears in the lower corner of the Description column heading. Usable on codes are shown as "UOC: . . . . . " in the Description Column (justified left) on the last line applicable item description/nomenclature. Uncoded items are applicable to all models.

b. ASSOCIATED PUBLICATIONS. The publications listed below pertain to the Food Sanitation Center and its components.

Publication	Short Title
NOT APPLICABLE	

6. HOW TO LOCATE REPAIR PARTS.

a. When National Stock Number or Part Number is NOT Known.

(1) First. Using the table of contents, determine the assembly group or subassembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the same groups.

(2) Second. Find the figure covering the assembly group or subassembly group to which the item belongs.

(3) Third. Identify the item on the figure and note the item number.

(4) Fourth. Refer to the Repair Parts List for the figure to find the part number for the item number noted on the figure.

(5) Fifth. Refer to the Part Number Index to find the NSN, if assigned.

b. When National Stock Number or Part Number is Known.

(1) First. Using the Index of National Stock Numbers and Part Numbers, find the pertinent National Stock Number or Part Number. The NSN index is in National Item Identification Number (NIIN) sequence (see c-4a.(1)). The part numbers in the Part Number index are listed in ascending alphanumeric sequence (see paragraph c-4.b). Both indexes cross-reference you to the illustration figure and item number of the item you are looking for.

(2) Second. After finding the figure and item number, verify that the item is the one you are looking for, then locate the item number in the repair parts list for the figure.

7. ABBREVIATIONS. Abbreviations used in this manual are listed in MIL-STD-12.

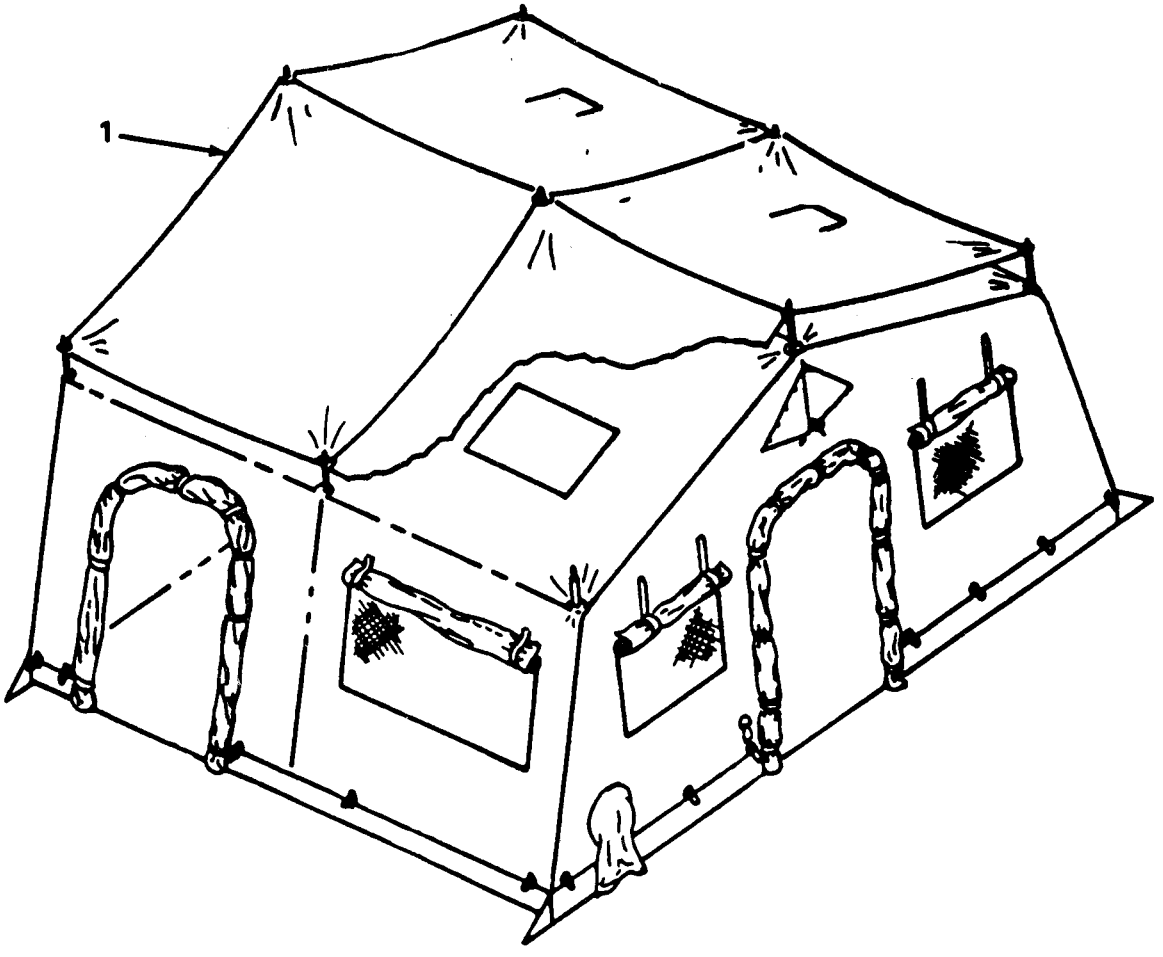


Figure F-1. Tent.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 01 TENT	
				FIGURE F-1 TENT	
1	PAOFF	81349	MIL-T-44271	TENT	1
				END OF FIGURE	

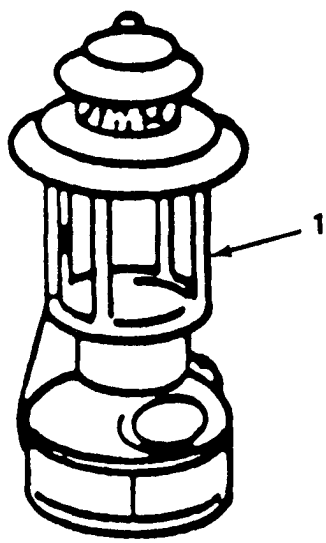


Figure F-2. Lantern, Gasoline.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 02 LANTERN, GASOLINE	
				FIGURE F-2 LANTERN, GASOLINE	
1	PAOZZ	58536	A-A-52078	LANTERN,GASOLINE	2
				END OF FIGURE	

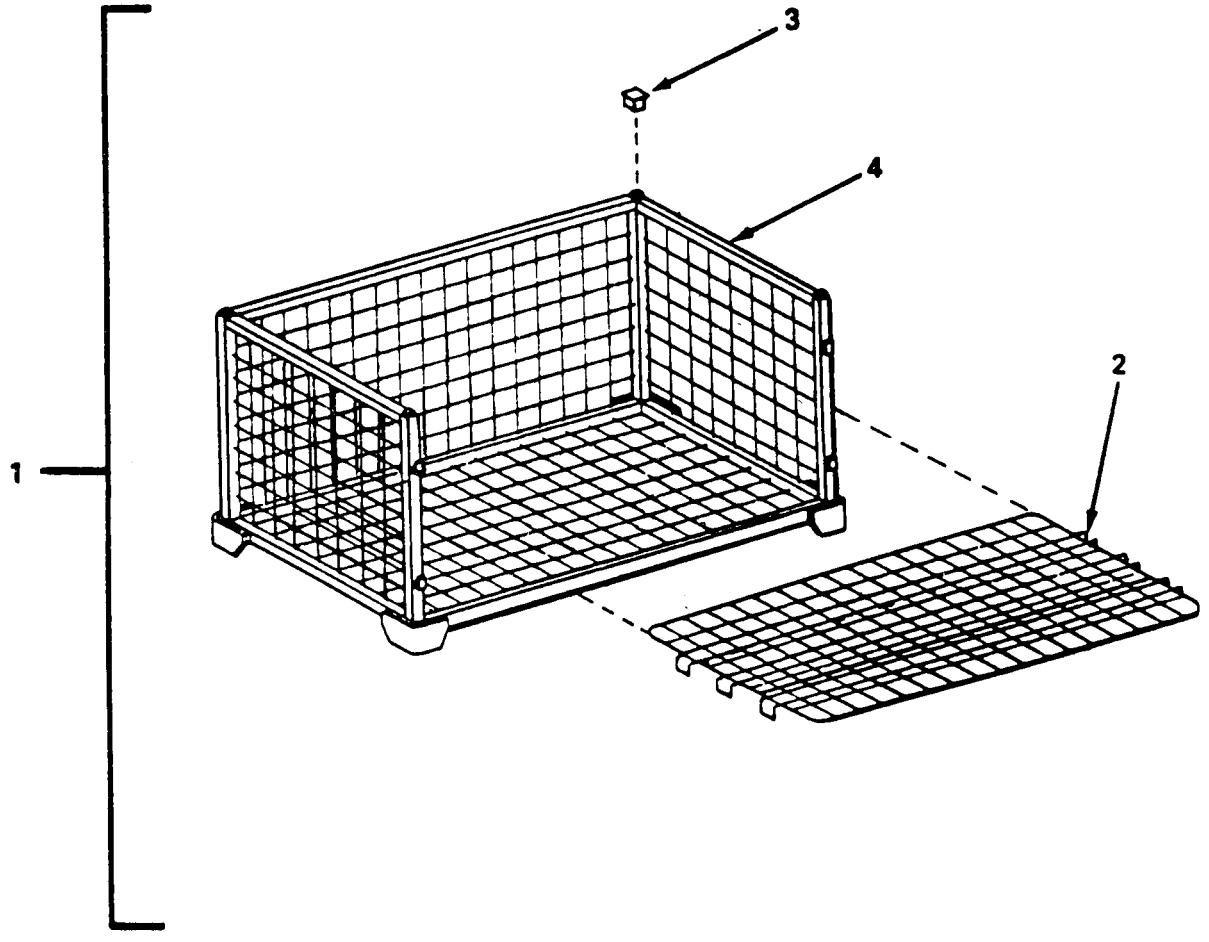


Figure F-3. Storage Rack Assembly.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 03 STORAGE RACK ASSEMBLY	
				FIGURE F-3 STORAGE RACK ASSEMBLY	
1	PBOFF	81337	5-13-4050	STORAGE RACK ASSEMB	6
2	PBOFF	81337	5-13-4053	.SHELF/COVER	1
3	PAOZZ	81337	5-13-4052	.PLUG,PROTECTIVE,DUS	8
4	PBOFF	81337	5-13-4051	.RACK,STORAGE	1
				END OF FIGURE	

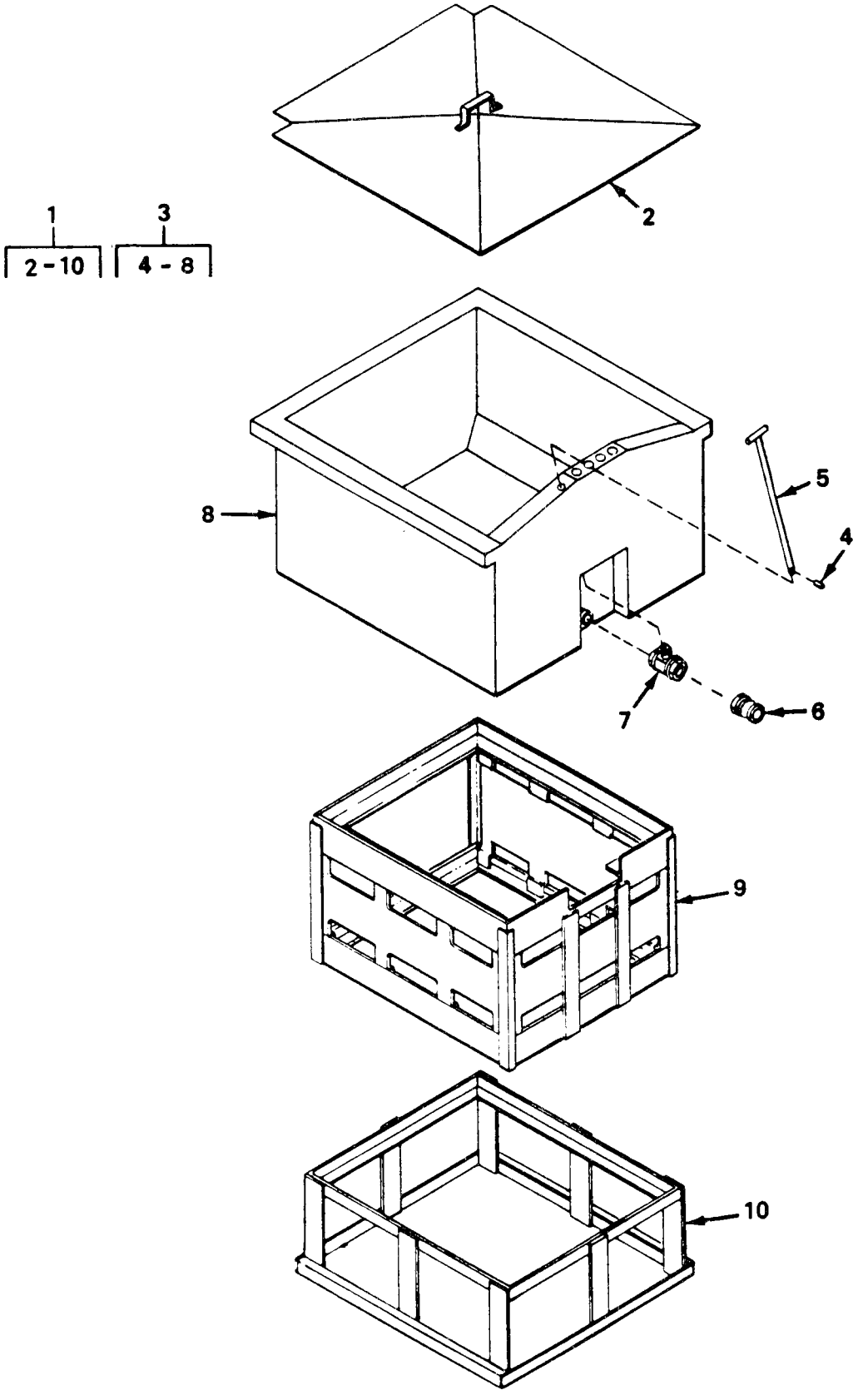


Figure F-4. Sink Assembly.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 04 SINK ASSEMBLY	
				FIGURE F-4 SINK ASSEMBLY	
1	PBOFF	81337	5-13-4120	SINK ASSEMBLY	3
2	PBOFF	81337	5-13-4206	.COVER,SINK	1
3	PBOFF	81337	5-13-4121	.BODY ASSY,SINK	1
4	PAOZF	96906	MS24665-300	..PIN,COTTER	1
5	XDOZZ	81337	5-13-4123	..HANDLE,VALVE	1
6	XDOZZ	96906	MS27022-8	..COUPLING	1
7	PBOZZ	81337	5-13-4124	..VALVE,DRAIN	1
8	XAOZZ	81337	5-13-4122	..BODY,SINK	1
9	PBOFF	81337	5-13-3875	.RACK,BURNER	1
10	PBOFF	81337	5-13-3868	.RACK,BASE	1
				END OF FIGURE	

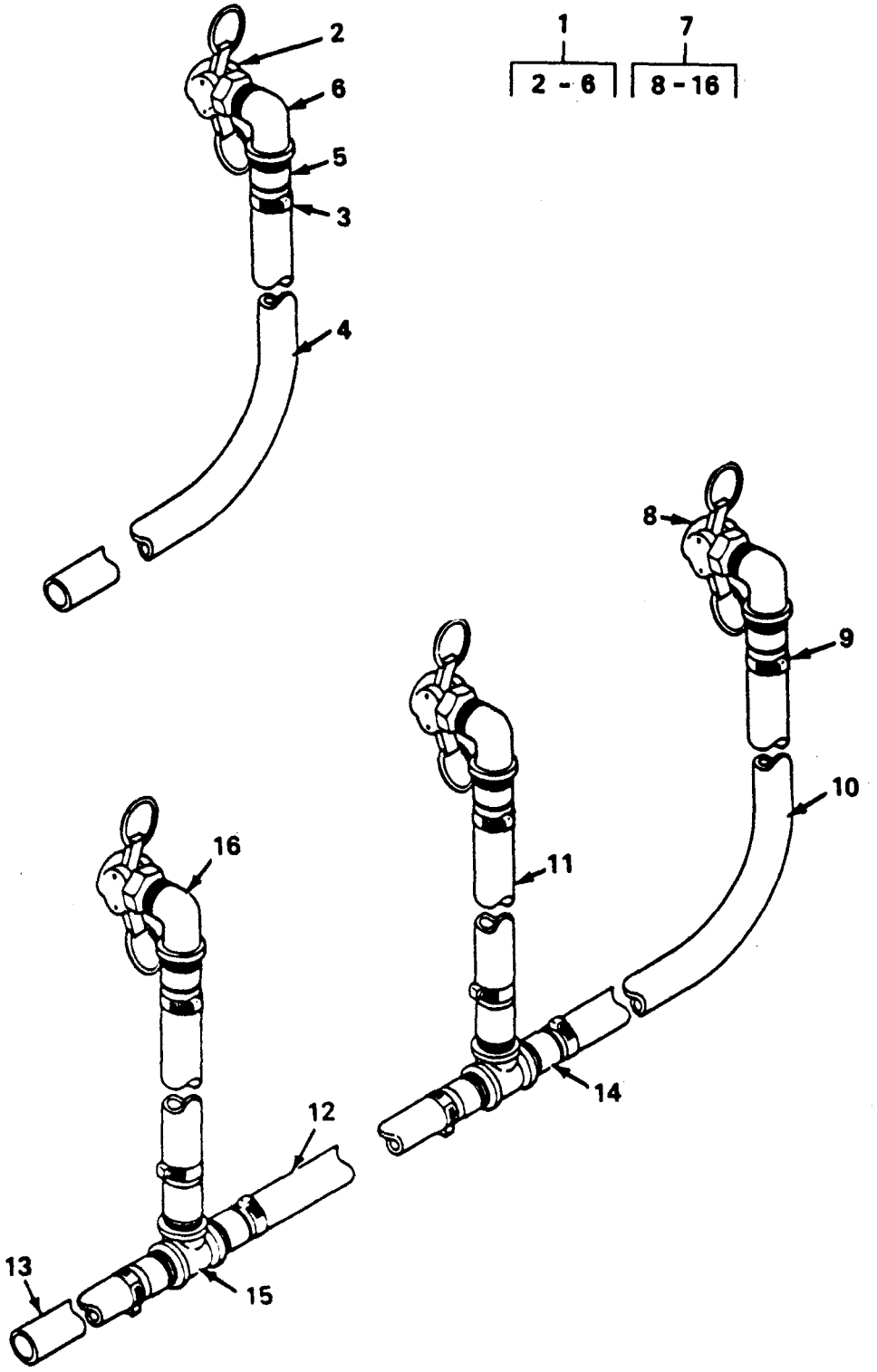


Figure F-5. Drain Hose Assemblies, Immersion Sink Rack, Sink Adapter and Thermometer (Sheet 1 of 2).

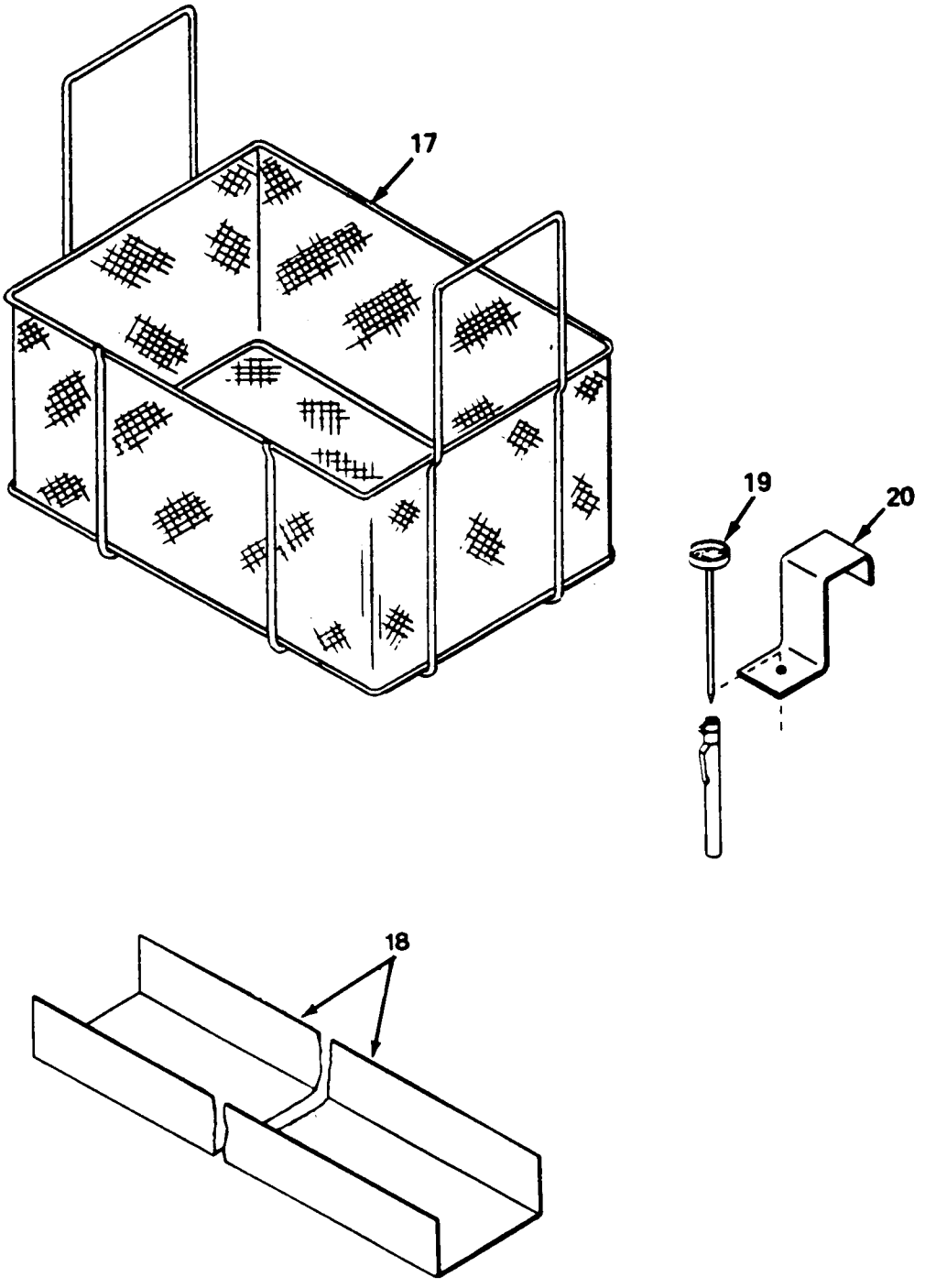


Figure F-5. Drain Hose Assemblies, Immersion Sink Rack, Sink Adapter and Thermometer (Sheet 2 of 2).

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(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 05 DRAIN HOSE ASSEMBLIES	
				FIGURE F-5 DRAIN HOSE ASSEMBLIES, IMMERSION SINK RACK, SINK ADAPTER AND THERMOMETER	
1	PBOOO	81337	5-13-4061	DRAIN HOSE,SINGLE	1
2	PBOZZ	96906	MS27024-8	.COUPLING HALF,QUICK	1
3	PBOZO	96906	MS35842-12	.CLAMP,HOSE	1
4	MOOZZ	81337	5-13-4061-5	.HOSE,NONMETALLIC, MAKE FROM P/N 631, CAGEC 73801, 15 FT REQ	1
5	PBOZZ	72661	EST15	.ADAPTER,STRAIGHT,PI	1
6	PBOZZ	96906	MS51952-7	.ELBOW,PIPE	1
7	PBOOO	81337	5-13-3749	DRAIN HOSE,THREE SINK	1
8	PBOZZ	96906	MS27024-8	.COUPLING HALF,QUICK	3
9	PBOZO	96906	MS35842-12	.CLAMP,HOSE	9
10	MOOZZ	81337	5-13-3749-4	.HOSE NONMETALLIC. MAKE FROM P/N 631, CAGEC 73801, 5 FT REQ	1
11	MOOZZ	81337	5-13-3749-5	.HOSE NONMETALLIC, MAKE FROM P/N 831, CAGEC 73801, 3 FT REQ	2
12	MOOZZ	81337	5-13-3749-6	.HOSE NONMETALLIC, MAKE FROM P/N 631, CAGEC 73801, 2 FT REQ	1
13	MOOZZ	81337	5-13-3749-9	.HOSE NONMETALLIC, MAKE FROM P/N 831, CAGEC 73801, 15 FT REQ	1
14	PBOZZ	72661	BST15	.ADAPTER,STRAIGHT,PI	7
15	PBOZZ	96906	MS14305-7YA	.COUPLING,PIPE	2
16	PBOZZ	96906	MS51952-7	.ELBOW,PIPE	3
17	PBOZZ	32682	5-13-4255	RACK,SINK,IMMERSION	2
18	PBOZZ	81337	5-13-4256	ADAPTER,SINK	2
19	PAOZZ	65092	2292-0017600	THERMOMETER,SELF-IN	3
20	PAOZZ	81337	5-13-4261	BRACKET,THERMOMETER	3

END OF FIGURE

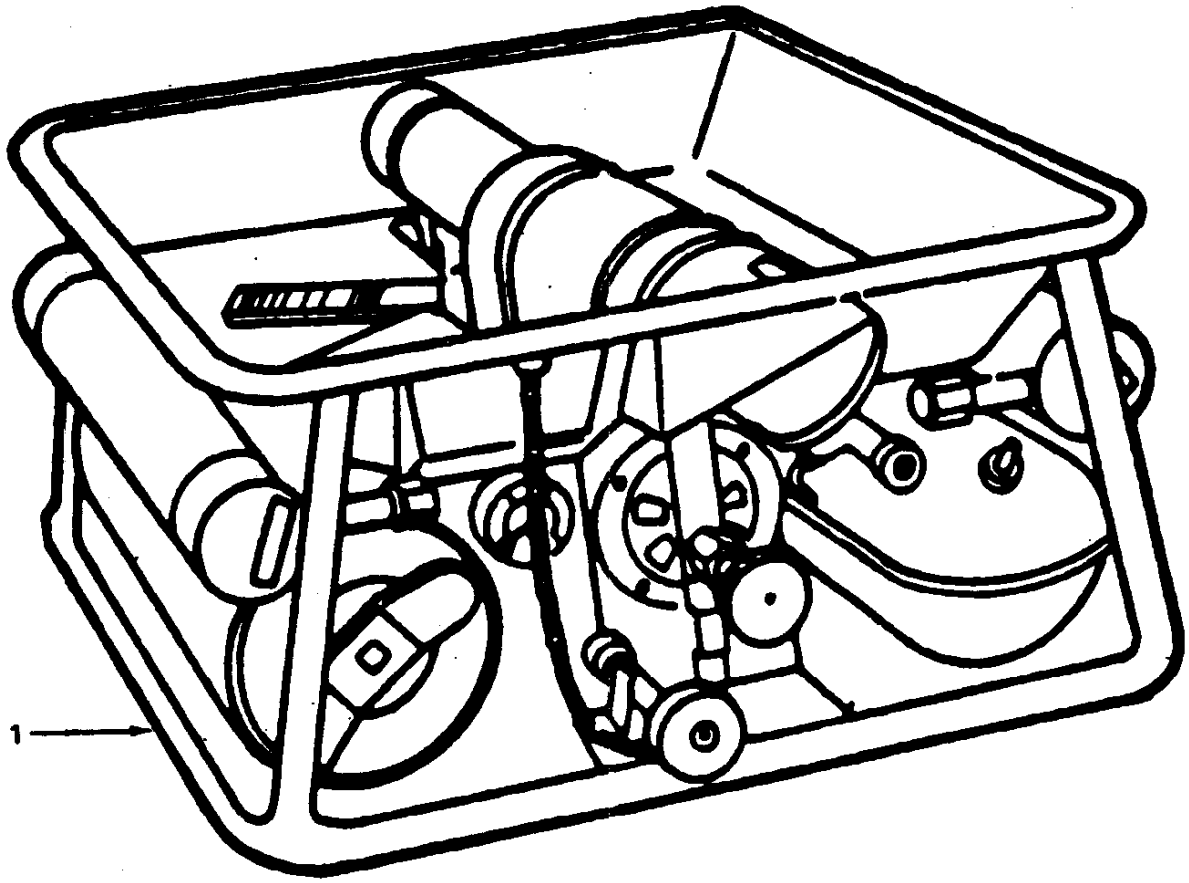

Figure F-6. Burner Unit.

Section II TM 10-7360-211-13&P

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 06 BURNER UNIT, M2A/MBU	
				FIGURE F-6 BURNER UNIT M2A/MBU	
1A	PAOOO	81349	MIL-B-40098	BURNER UNIT, GASOLINE…….. FOR REPAIR PARTS REFER TO TM 10-7360-204-13&P	3
1B	PAOFF	3AD06	880110K	MODERN BURNER UNIT (MBU)…….. FOR REPAIR PARTS REFER TO TM 10-7310-281-13&P	3

END OF FIGURE

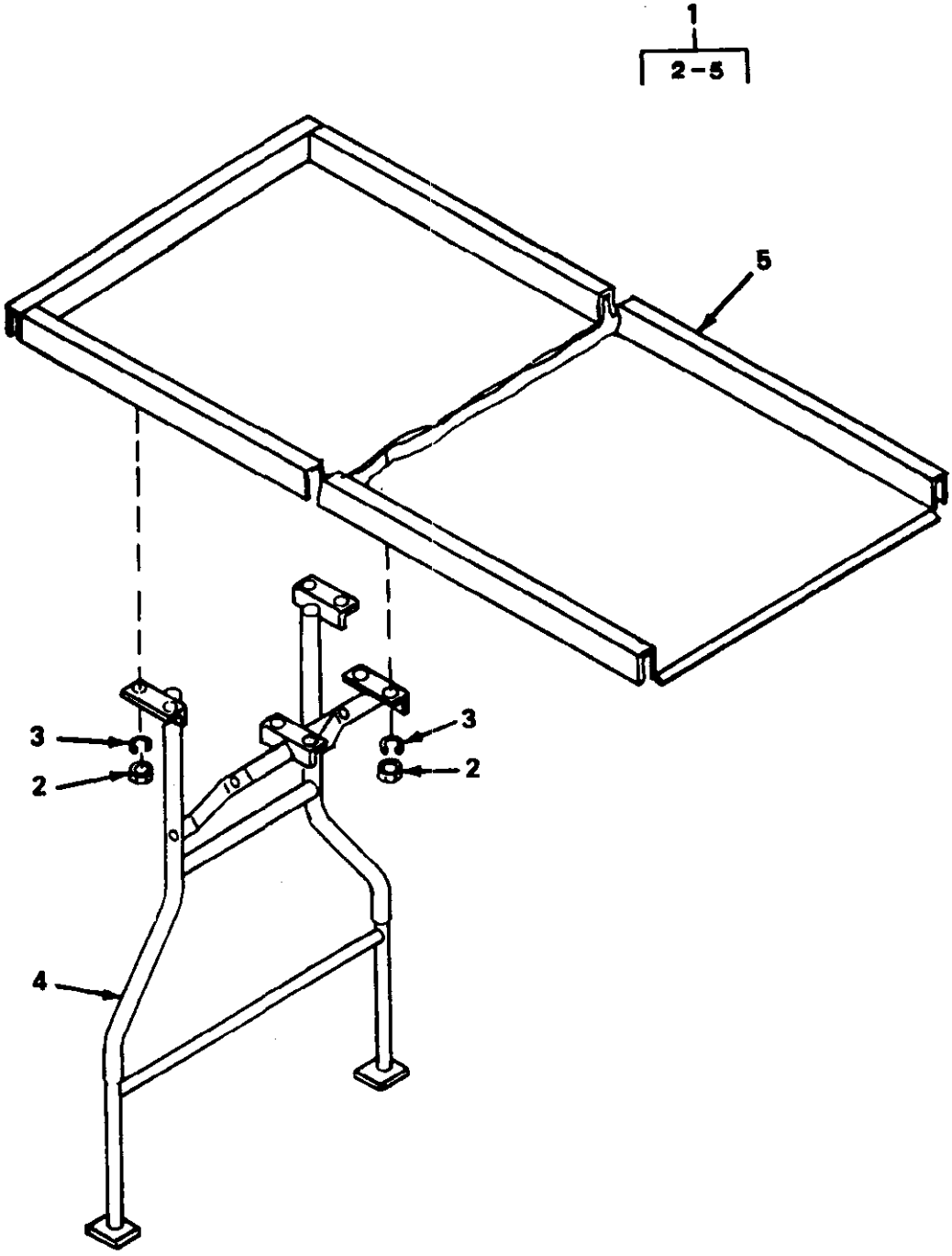

Figure F-7. Table Assembly, Sink Drain.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 07 TABLE ASSEMBLY,SINK DRAIN	
				FIGURE F-7 TABLE ASSEMBLY,SINK DRAIN	
1	PBOFF	81337	5-13-4240	TABLE ASSEMBLY,SINK DRAIN	1
2	PAOZO	96906	MS51971-1	.NUT,PLAIN,HEXAGON	8
3	PAOZZ	96906	MS35335-61	.WASHER,LOCK	8
4	PBOFF	81337	5-13-4245-2	.LEG ADAPTER	1
5	XAOZZ	81337	5-13-4241	.TABLE TOP,DRAIN	1
				END OF FIGURE	

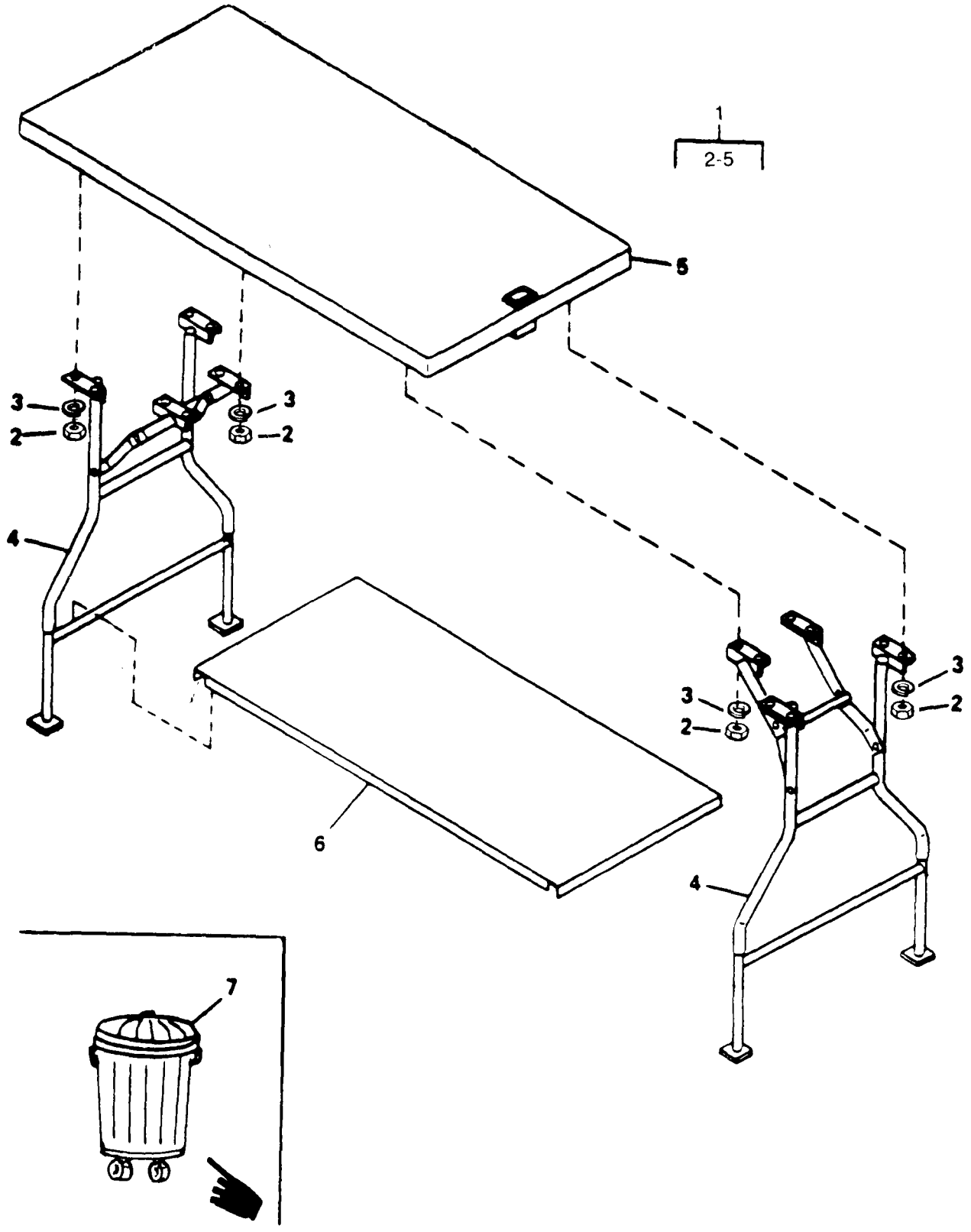

Figure F-8. Table Assembly, Folding Legs.

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 08 TABLE ASSEMBLY, FOLDING LEGS	
				FIGURE F-8 TABLE ASSEMBLY, FOLDING LEGS	
1	PBOFF	81337	5-13-4242	TABLE ASSEMBLY, FOLDING LEGS	1
2	PAOZO	96906	MS51971-1	, NUT, PLAIN, HEXAGON . . , ...	1 6
3	PAOZZ	96906	MS35335-61	. WASHER, LOCK..	1 6
4	PBOFF	61337	5-13-4245-I	. LEG ADAPTER	2
5	XAOZZ	81337	5-13-4243	. TABLE TOP	1
6	PBOZZ	81337	5-1 3-4257	SHELF, TABLE	1
7	PAOZZ	56536	A-A-295	WASTER RECEPTACLE	2
				END OF FIGURE	

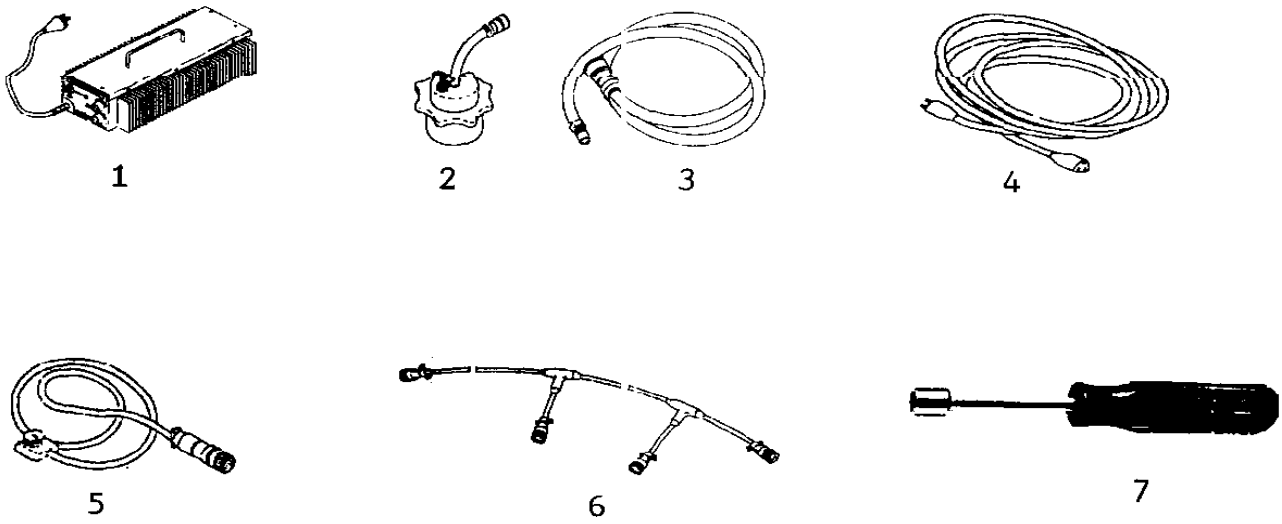

Figure F-9. FSC MBU Kit

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 09 FSC MODERN BURNER UNIT (MBU) KIT	
				FIGURE 09	
1	PAOZZ	73801	MS0150	CONVERTOR	1
2	PAOZZ	36976	MS0300	FUEL CAN ADAPTER.....	1
3	PAOZZ	3AD06	MS0350	FUEL LINE (20	1
4	PAOZZ	23633	MS0400	110 VOLT EXTENSION CORD (50 FT).....	1
5	PAOZZ	3AD06	MS0101	CABLE A, 24 VOLT DC LONG (25 FT).....1	
6	PAOZZ	3AD06	MS0104	CABLE D, 2 BRANCH	2
7	PAOZZ	3AD06	980266	CABLE CLIP.....	10
8	PAOZZ			7/16” NUT DRIVER.....	1

END OF FIGURE

SECTION II

(1) ITEM NO	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
				GROUP 10 BULK	
				FIGURE BULK	
1	PAOZZ	73801	631	HOSE, NONMETALLIC. V	
				END OF FIGURE	

Section III. SPECIAL TOOLS LIST

(Not Applicable)

SECTION IV

CROSS-REFERENCE INDEXES

NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
7240-00.151-8629	F-8	7			
4730-00-187-7652	F-5	15			
5315-00-234-1863	F-4	4			
6685-00-444-6500	F-5	19			
5310-00-527-3634	F-7	3			
	F-8	3			
5260-00-837-0996	F-2	1			
5310-00-903-5966	F-7	2			
	F-8	2			
4730-00-908-3193	F-5	3			
	F-5	9			
4730-01-823-2659	F-5	2			
	F-5	8			
7310-01-113-9172	F-6	1			
4730-01-124-3709	F-5	6			
	F-5	16			
8340-01-185-2613	F-1	1			
7360-01-250-3649	F-4	9			
7360-01-250-3652	F-4	10			
5340-01-333-8483	F-5	20			
4820-01-333-8484	F-.4	7			
5340.01-333-8485	F-4	2			
5340-01-333-8486	F-8	6			
4720-01-333-8488	F-5	1			
4720-01-333-8489	F-5	7			
7105-01-333-8492	F-7	1			
7105.01-333-8493	F-8	1			
7125-01-333-8494	F-3	4			
7105-01-333-8495	F-3	2			
4510-01-333-9186	F-4	1			
4510-01-333-9187	F-4	3			
7320-01-333-9188	F-5	18			
7105-01-333-9189	F-7	4			
7125-01-334-3159	F-3	1			
7320-01-334-3160	F-5	17			
5340-01-334-5088	F-3	3			
4720-01-371-1336	BULK	1			
7310-01-452-8137	F-1	1			
7310-01-452-6513	F-9	1			
7310-01-454-1281	F-9	4			
7310-01-455-0665	F-9	5			
7310-01-455-1017	F-9	6			
7310-01-455-3735	F-9	3			
7310-01-455-3736	F-9	2			
7310-01-457-5836	F-9	7			

SECTION IV

CROSS-REFERENCE INDEXES
PART NUMBER INDEX

CAGEC	PART NUMBER	STOCK NUMBER	FIG.	ITEM
58536	A-A-295	7240-00-151-6629	F-8	7
58536	A-A-52078	6260-00-837-0996	F-2	1
72661	BST15		F-5	5
			F-5	14
81349	MIL-B-40098	7310-01-113-9172	F-6	1
81349	MIL-T-44271	8340-01-185-2613	F-1	1
3AD06	88011K	7310-01-452-8137	F-6	1
3AD06	MS0101	7310-01-455-0665	F-9	5
3AD06	MS0104	7310-01-455-1017	F-9	6
3AD06	MS0150	7310-01-453-6513	F-9	1
3AD06	MS0300	7310-01-455-3736	F-9	2
3AD06	MS0350	7310-01-455-3735	F-9	3
3AD06	MS0400	7310-01-454-1281	F-9	4
3AD06	980266		F-9	7
99096	MS143057YA	4730-00-187-7652	F-5	15
96906	MS24665-300	5315-00-234-1863	F-4	4
96906	MS27022-8		F-4	6
96906	MS27024-8	4730-01-023-2659	F-5	2
			F-5	8
96906	MS35335-61	5310-00-527-3634	F-7	3
			F-8	3
96906	MS35842-12	4730-00-908-3193	F-5	3
			F-5	9
96906	MS51952-7	4730-01-124-3709	F-5	6
			F-5	16
96906	MS51971-1	5130-00-903-5966	F-7	2
			F-8	2
65092	2292-0017600	6685-00-444-6500	F-5	19
81337	5-13-3749	4720-01-333-8489	F-5	7
81337	5-13-3749-4		F-5	10
81337	5-13-3749-5		F-5	11
81337	5-13-3749-6		F-5	12
81337	5-13-3749-9		F-5	13
81337	5-13-3868	7360-01-250-3652	F-4	10
81337	5-13-3875	7360-01-250-3649	F-4	9
81337	5-13-4050	7125-01-334-3159	F-3	1
81337	5-13-4051	7125-01-333-8494	F-3	4
81337	5-13-4052	5340-01-334-5088	F-3	3
81337	5-13-4053	7105-01-333-8495	F-3	2
81337	5-13-4061	4720-01-333-8488	F-5	1
81337	5-13-4061-5		F-5	4
81337	5-13-4120	4510-01-333-9186	F-4	1
81337	5-13-4121	4510-01-333-9187	F-4	3
81337	5-13-4122		F-4	8
81337	5-13-4123		F-4	5
81337	5-13-4124	4820-01-333-8484	F-4	7
81337	5-13-4206	5340-01-333-8485	F-4	2
81337	5-13-4240	7105-01-333-8492	F-7	1
81337	5-13-4241		F-7	5
81337	5-13-4242	7105-01-333-8493	F-8	1
81337	5-13-4243		F-8	5
81337	5-13-4245-1		F-8	4
81337	5-13-4245-2	7105-01-333-9189	F-7	4

SECTION IV

CROSS-REFERENCE INDEXES
PART NUMBER INDEX

CAGEC	PART NUMBER	STOCK NUM,BER	FIG.	ITEM
32682	5-13-4255	7320-01-334-3160	F-5	17
81337	5-13-4256	7320-01-333-9188	F-5	18
81337	5-13-4257	5340-01-333-8486	F-8	6
81337	5-13-4261	5340-01-333-8483	F-5	20
73801	631	4720-01-371-1336	BULK	1

SECTION IV

CROSS-REFERENCE INDEXES
FIGURE AND ITEM NUMBER INDEX

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
BULK	1	4720-01-371-1336	73801	631
F-1	1	8340-01-185-2613	81349	MIL-T-44271
F-2	1	6260-00-837-0996	58536	A-A-52078
F-3	1	7125-01-334-3159	81337	5-13-4050
F-3	2	7105-01-333-8495	81337	5-13-4053
F-3	3	5340-01-334-5088	81337	5-13-4052
F-3	4	7125-01-333-8494	81337	5-13-4051
F-4	1	4510-01-333-9186	81337	5-13-4120
F-4	2	5340-01-333-8485	81337	5-13-4206
F-4	3	4510-01-333-9187	81337	5-13-4121
F-4	4	5315-00-234-1863	96906	MS24665-300
F-4	5		81337	5-13-4123
F-4	6		96906	MS27022-8
F-4	7	4820-01-333-8484	81337	5-13-4124
F-4	8		81337	5-13-4122
F-4	9	7360-01-250-3649	81337	5-13-3875
F-4	10	7360-01-250-3652	81337	5-13-3868
F-5	1	4720-01-333-8488	81337	5-13-4061
F-5	2	4730-01-023-2659	96906	MS27024-8
F-5	3	4730-00-908-3193	96906	MS35842-12
F-5	4		81337	5-13-4061-5
F-5	5		72661	BST15
F-5	6	4730-01-124-3709	96906	MS51952-7
F-5	7	4720-01-333-8489	81337	5-13-3749
F-5	8	4730-01-023-2659	96906	MS27024-8
F-5	9	4730-00-908-3193	96906	MS35842-12
F-5	10		81337	5-13-3749-4
F-5	11		81337	5-13-3749-5
F-5	12		81337	5-13-3749-6
F-5	13		81337	5-13-3749-9
F-5	14		72661	BST15
F-5	15	4730-00-187-7652	96906	MS14305-7YA
F-5	16	4730-01-124-3709	96906	MS51952-7
F-5	17	7320-01-334-3160	32682	5-13-4255
F-5	18	7320-01-333-9188	81337	5-13-4256
F-5	19	6685-00-444-6500	65092	2292-0017600
F-5	20	5340-01-333-8483	81337	5-13-4261
F-6	1	7310-01-113-9172	81349	MIL-B-40098
F-6	1	7310-01-452-8137	3AD06	MS001
F-7	1	7105-01-333-8492	81337	5-13-4240
F-7	2	5310-00-903-5966	96906	MS51971-1
F-7	3	5310-00-527-3634	96906	MS35335-61
F-7	4	7105-01-333-9189	81337	5-13-4245-2
F-7	5		81337	5-13-4241
F-8	1	7105-01-333-8493	81337	5-13-4242
F-8	2	5310-00-903-5966	96906	MS51971-1
F-8	3	5310-00-527-3634	96906	MS35335-61
F-8	4		81337	5-13-4245-1
F-8	5		81337	5-13-4243
F-8	6	5340-01-333-8486	81337	5-13-4257

SECTION IV

CROSS-REFERENCE INDEXES
FIGURE AND ITEM NUMBER INDEX (CONTD)

FIG.	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
F-8	7	7240-00-151-6629	58536	A-A-295
F-9	1	7310-01-453-6513	3AD06	MS0150
F-9	2	7310-01-455-3736	3AD06	MS0300
F-9	3	7310-01-455-3735	3AD06	MS0350
F-9	4	7310-01-454-1281	3AD06	MS0400
F-9	5	7310-01-455-0665	3AD06	MS010
F-9	6	7310-01-455-1017	3AD06	MS0104
F-9	7	7310-01-457-5836	3AD06	980266

GLOSSARY

Section I. ABBREVIATIONS

Following is an alphabetical listing of some of the abbreviations used in this manual. The exact word or phrase for each abbreviation used is identified.

AAL	Additional Authorization List
BII	Basic Issue Item
CAGEC	Contractor and Government Entity Code
CM	Centimeter
COEI	Component of End Item
CTA	Common Table of Allowances
EIR	Equipment Improvement Recommendations
FSC	Food Sanitation Center
JTA	Joint Table of Allowances
KG	Kilogram
KM	Kilometer
MAC	Maintenance Allocation Chart
MM	Millimeter
MOS	Military Occupational Specialty
MTOE	Modified Table of Organization and Equipment
MWO	Modification Work Order
MFK	Modular Field Kitchen
NIIN	National Item Identification Number
NSN	National Stock Number
PMCS	Preventive Maintenance Checks and Services
PSI	Pounds Per Square Inch
RPSTL	Repair Parts and Special Tools List
SMR	Source, Maintenance and Recoverability
SRA	Specialized Repair Activity
TDA	Table of Distribution & Allowances
TMDE	Test Measurement and Diagnostic Equipment

Section I. ABBREVIATIONS - Continued

U/M	Unit of Measure
UOC	Usable on Code

Section II. TERMS

None

INDEX

By Order of the Secretary of the Army:

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Chief of Staff

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To: amssb−rim−e@natick−emh2.army.mil

Subject: DA Form 2028

1. ***From:*** Joe Smith
2. *Unit:* home
3. ***Address:*** 4300 Park
4. ***City:*** Hometown
5. ***St:*** MO
6. ***Zip:*** 77777
7. ***Date Sent:*** 19−OCT−93
8. ***Pub no:*** 55−2840−229−23
9. ***Pub Title:*** TM
10. ***Publication Date:*** 04−JUL−85
11. *Change Number:* 7
12. *Submitter Rank:* MSG
13. ***Submitter FName:*** Joe
14. *Submitter MName:* T
15. ***Submitter LName:*** Smith
16. ***Submitter Phone:*** 123−123−1234
17. ***Problem:*** **1**
18. *Page:* 2
19. *Paragraph:* 3
20. *Line:* 4
21. *NSN:* 5
22. *Reference:* 6
23. *Figure:* 7
24. *Table:* 8
25. *Item:* 9
26. *Total:* 123
27. ***Text:***

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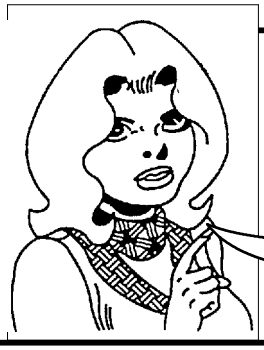

THEN . .JOT DOWN THE DOPE ABOUT IT ON THIS FORM, CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL!

SOMETHING WRONG WITH THIS PUBLICATION?

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)
PFC John DOE
CO A 3rd Engineer Bn
Ft. Leonardwood, MO 63108

DATE SENT
22 August 1992

PUBLICATION NUMBER	PUBLICATION DATE	PUBLICATION TITLE
TM 1–1520–250–10	15 June 1992	Operator's manual MH60K Helicopter

BE EXACT PIN–POINT WHERE IT IS

PAGE NO	PARA-GRAPH	FIGURE NO	TABLE NO
6	2-1 a		
B1		4-3	

IN THIS SPACE, TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

In line 6 of paragraph 2–1a the manual states the engine has 6 cylinders. The engine on my set only has 4 cylinders. Change the manual to show 4 cylinders.

Callout 16 on figure 4–3 is pointed at a bolt. In key to figure 4–3, item 16 is calle a shim. Please correct one or the other

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

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JOHN DOE John Doe

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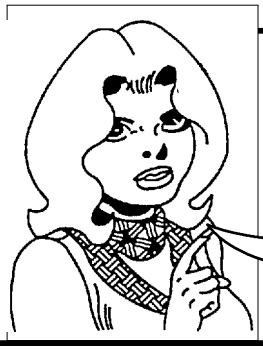

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PUBLICATION NUMBER	PUBLICATION DATE	PUBLICATION TITLE
TM 10–5410–284–13&P	31 July 1999	Lightweight Maintenance Enclosure (LME)

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PAGE NO	PARA-GRAPH	FIGURE NO	TABLE NO

IN THIS SPACE, TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

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The Metric System and Equivalents

Linear Measure

1 centimeter = 10 millimeters = .39 inch
1 decimeter = 10 centimeters = 3.94 inches
1 meter = 10 decimeters = 39.37 inches
1 dekameter = 10 meters = 32.8 feet
1 hectometer = 10 dekameters = 328.08 feet
1 kilometer = 10 hectometers = 3,280.8 feet

Weights

1 centigram = 10 milligrams = .15 grain
1 decigram = 10 centigrams = 1.54 grains
1 gram = 10 decigram = .035 ounce
1 dekagram = 10 grams = .35 ounce
1 hectogram = 10 dekagrams = 3.52 ounces
1 kilogram = 10 hectograms = 2.2 pounds
1 quintal = 100 kilograms = 220.46 pounds
1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce
1 deciliter = 10 centiliters = 3.38 fl. ounces
1 liter = 10 deciliters = 33.81 fl. ounces
1 dekaliter = 10 liters = 2.64 gallons
1 hectoliter = 10 dekaliters = 26.42 gallons
1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Approximate Conversion Factors

To change	*To*	*Multiply by*	*To change*	*To*	*Multiply by*
inches	centimeters	2.540	ounce-inches	newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29,573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	newton-meters	1.356	metric tons	short tons	1.102
pound-inches	newton-meters	.11296			

Temperature (Exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C

PIN: 068741-006