TECHNICAL MANUAL

OPERATOR'S AND UNIT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)

TANK, FABRIC, COLLAPSIBLE; AIR COLUMN SUPPORTED, OPEN TOP, WATER STORAGE, 3,000 GALLONS MODEL 90074 (EIC=ZFV)/MODEL 91038/ MODEL WT2008 (EIC=ZIZ) (NSN 5430-01-359-4774)/(NSN 5430-01-318-9434)/ (NSN 5430-01-170-6984)

TANK, FABRIC, COLLAPSIBLE, SELF-SUPPORTING, SEALED TOP, WATER STORAGE, 3,000 GALLONS MODEL GTA-Z60TPW/MODEL 3-K-W-O-A/Z (NSN 5430-01-469-8744)/(NSN 5430-01-470-7380)



This manual supersedes TM 10-5430-233-12&P dated 29 October 1993, TM 5-5430-227-12&P dated 30 June 1989 and TM 5-5430-225-12&P dated 18 August 1988 including all changes. DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited

> HEADQUARTERS, DEPARTMENT OF THE ARMY AND AIR FORCE AND HEADQUARTERS, U.S. MARINE CORPS

> > 15 OCTOBER 2000

TM 10-5430-237-12&P

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WP 0024 00 (2 pgs)

WARNING SUMMARY

This warning summary contains general safety warnings and hazardous materials warnings that must be understood and applied during operation and maintenance of this equipment. Failure to observe these precautions could result in serious injury or death to personnel. Also included are explanations of safety and hazardous materials icons used within the technical manual.

HEALTH HAZARD

The solvent and adhesive furnished in the repair kit for Models 90074, WT 2008, 91038 and GTA-Z60TPW are highly flammable and toxic to the skin, eyes, and respiratory tract. Skin/eye protection is required. Avoid prolonged breathing of vapors, and minimize skin contact. Good general ventilation is normally adequate. Keep away from excessive heat, open flame, or other sources of ignition.

Clean parts in a well-ventilated area. Avoid inhalation of solvent fumes and prolonged exposure to cleaning solvent. Wash exposed skin thoroughly. Solvent used to clean parts is potentially dangerous to personnel and. Do not use near open flame or excessive heat.

For Model GTA-Z60TPW:

The knife furnished in the repair kit is sharp. Improper use will result in injury.

FOR ARTIFICIAL RESPIRATION, REFER TO FM 21-11

HEADQUARTERS DEPARTMENTS OF THE ARMY AND AIR FORCE AND HEADQUARTERS U.S. MARINE CORPS WASHINGTON, D.C., 15 OCTOBER 2000

TECHNICAL MANUAL

OPERATOR'S AND UNIT MAINTENANCE MANUAL (Including Repair Parts and Special Tools List)

TANK, FABRIC, COLLAPSIBLE; AIR COLUMN SUPPORTED, OPEN TOP WATER STORAGE, 3000 GALLONS MODEL 90074 (EIC = ZFV)/MODEL 91038/MODEL WT2008 (EIC = ZIZ) NSN 5430-01-359-4774/NSN 5430-01-318-9434/ NSN 5430-01-170-6984

TANK, FABRIC, COLLAPSIBLE, SELF-SUPPORTING, SEALED TOP, WATER STORAGE, 3000 GALLONS MODEL GTA-Z60TPW/MODEL 3-K-W-O-A/Z NSN 5430-01-469-8744/ NSN 5430-01-470-7380

Current as of 8 August 2000

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this publication. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Submit your DA Form 2028-2 (Recommended changes to Equipment Technical Publications), through the Internet, on the Army Electronic Product Support (AEPS) website. The Internet address is http://aeps.ria.army.mil. If you need a password, scroll down and click on "ACCESS REQUEST FORM". The DA Form 2028 is located in the ONLINE FORMS PROCESSING section of the AEPS. Fill out the form and click on SUBMIT. Using this form on the AEPS will enable us to respond quicker to your comments and better manage the DA Form 2028 program. You may also mail, fax or email your letter, DA Form 2028, or DA Form 2028-2 direct to: Commander, U.S. Army Tankautomotive and Armaments Command, ATTN: AMSTA-LC-CIP-WT, Rock Island, IL 61299-7630. The email address is TACOM-TECH-PUBS@ria.army.mil. The fax number is DSN 793-0726 or Commercial (309) 782-0726. Marine Corps personnel submit NAVMAC 10772 Form to Commanding General, Marine Corps Logistics 1 Base, (Code 850), 814 Radford Blvd., Albany, GA, 31704-1128.

This manual supersedes TM 10-5430-233-12&P dated 29 October 1993, TM 5-5430-225-12&P dated 18 August 1988, and TM 5-5430-227-12&P dated 30 June 1989 including all changes.

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GLOSSARY

HOW TO USE THIS MANUAL

Section I. OVERVIEW -This manual is divided into seven chapters consisting of 24 work packages and 9 appendices that provide all the information necessary to operate and maintain the collapsible fabric water tank assemblies.

Section II. INDEXING -This manual contains several types of indexes to help the user locate information quickly and efficiently. The different indexes are as follows:

a. <u>Table of Contents</u>. Lists all chapters, work packages, and appendices contained in the manual, along with the work package numbers where they begin.

b. <u>Alphabetical Index</u>. Located at the back of the manual, this index lists entries that personnel are most likely to look for. Most listings are provided several times in the index (i.e., "Maintenance Forms and Records" can also be found as "Forms and Records, Maintenance," and "Records, Maintenance Forms and"). This increases the likelihood of finding the information the first place you look. Each entry also lists the work package where the information can be found.

OPERATOR AND UNIT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST) COLLAPSIBLE FABRIC TANKS, WATER STORAGE, 3000 GALLONS GENERAL INFORMATION

SCOPE

This technical manual contains instructions for operations, checks and corrective maintenance for the 3000 Gallon Water Storage Fabric Tanks.

Type of Manual: Operator and Unit Maintenance.

Model Number and Equipment Names: 90074, 3000 Gallon Water Storage Collapsible Fabric Tank, 91038, 3000 Gallon Water Storage Collapsible Fabric Tank, WT2008, 3000 Gallon Water Storage Collapsible Fabric Tank, 3-K-W-O-A/Z, 3000 Gallon Water Storage Self-Supporting Fabric Tank, and GTA-Z60TPW, 3000 Gallon Water Storage Self-Supporting Fabric Tank.

Purpose of Equipment: The tanks provide potable drinking water storage containers when quick storage facilities are needed and where permanent potable water storage facilities are not available or when the storage of potable water is needed only on a temporary basis.



NOTE: Model 90074 shown, others similar.

MAINTENANCE FORMS, RECORDS AND REPORTS

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by (as applicable) DA PAM 738-750, The Army Maintenance Management System; DA PAM 738-751, Functional Users Manual for The Army Maintenance Management System Aviation (TAMMS-A); or AR 700-138, Army Logistics Readiness and Sustainability. Marine Corps users refer to TM 4700-15.

CORROSION PREVENTION AND CONTROL (CPC)

Corrosion prevention and control of Army materiel is a continuing concern. It is important that any corrosion problems with this item be reported so that the problem can be corrected and improvements can be made to prevent the problem in future items.

While corrosion is typically associated with rusting of metals, it can also include deterioration of other materials, such as rubber and plastic. Any unusual cracking, softening, swelling, or breaking of the materials may be a corrosion problem.

If a corrosion problem is identified, it can be reported using Standard Form 368, Product Quality Deficiency Report (Marine Corps users in accordance with MCO 4855.10A). Use of key words such as "rust," "deterioration," "corrosion," or "cracking" will ensure that the information is identified as a CPC problem. The form should be submitted to the address specified in DA Pam 738-750.

DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE

Command decisions, according to tactical situations, will determine when destruction of the collapsible fabric water tank assembly will be accomplished. A destruction plan will be prepared by the using organization, unless higher authority has already prepared one. For general destruction procedures for this equipment, refer to TM 750-244-3, Procedures for Destruction of Equipment to Prevent Enemy Use.

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR's)

If your collapsible fabric water tank assemblies need 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 (Product Quality Deficiency Report). Mail it to us at Commander, U.S. Army Tank-automotive and Armaments Command, AMSTA-LC-CIP-WT, Rock Island, IL 61299-7630. Marine Corps users shall use SF 368 in accordance with MCO 4855.10, Quality Deficiency Manual. Mail it to Commanding General, Code 856, Marine Corps Logistics Bases, 814 Bradford Blvd, Albany, GA 31704-1128.

PREPARATION FOR STORAGE OR SHIPMENT

Army users refer to Work Package 0024 00. Marine Corps users refer to MCOP 4550.7.

QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

Workmanship shall be of the highest quality and shall permit no defects not repaired in accordance with the instructions in this manual. All metal parts shall be clean and free of sand, dirt, etc. The inside and outside of the tank shall be clean and free of foreign material.

END OF WORK PACKAGE

CHAPTER 1

DESCRIPTION AND THEORY OF OPERATION

OPERATOR AND UNIT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST) COLLAPSIBLE FABRIC TANKS, WATER STORAGE, 3000 GALLONS EQUIPMENT DESCRIPTION

EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

Characteristics, capabilities, and features of the collapsible fabric water tank assemblies include:

- a. Highly mobile.
- b. Easily transportable.
- c. Manually inflatable flotation collar (Models 90074, 91038 and WT2008 only).
- d. Self-supporting on slopes up to 10%.
- e. Quick setup/tear down.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS

Refer to Chapter 2, WP 0004 00.

EQUIPMENT DATA

CAUTION

If the tank is used in temperatures below freezing $[32^{\circ}F (0^{\circ}C)]$, caution must be used to prevent water in the tank, or in contact with metal parts, from freezing. If water freezes, damage may occur to the tank and/or metal parts.

| OPERATING TEMPERATURE (AMBIENT) | |
|---------------------------------|---|
| LOW | |
| HIGH | +125°F (+51.7°C) |
| STORAGE TEMPERATURE (AMBIENT) | , , , , , , , , , , , , , , , , , , , |
| LOW | |
| HIGH | |
| DIMENSIONS, OUTSIDE (PACKAGED) | () , , , , , , , , , , , , , , , , , , |
| MODELS 90074/3-K-W-O-A/Z: | |
| HEIGHT (DEPTH) | |
| WIDTH | |
| LENGTH | |
| WEIGHT | |
| MODEL 91038: | |
| HEIGHT (DEPTH) | |
| WIDTH | |
| LENGTH | |
| WEIGHT | |
| <u>MODEL WT2008</u> : | |
| HEIGHT (DEPTH) | |
| WIDTH | |
| LENGTH | 45 inches (1m) |
| WEIGHT | |

| MODEL GTA-Z60TPW: | |
|-------------------|------------------------|
| HEIGHT (DEPTH) | . 13 inches (33.02 cm) |
| WIDTH | 44 inches (111.76 cm) |
| LENGTH | 63 inches (160.02 cm) |
| WEIGHT | 140 pounds (63.63 kg) |
| | · · · · · |

| DIMENSIONS, OUTSIDE (FILLED) | |
|--------------------------------|--|
| MODELS 90074/91038/3-K-W-O-A/Z | |
| HEIGHT | |
| BASE DIAMETER | |
| TOP DIAMETER | |
| MODEL WT2008: | |
| HEIGHT | |
| BASE DIAMETER | |
| TOP DIAMETER | |
| MODEL GTA-Z60TPW: | |
| HEIGHT | |
| BASE DIAMETER | |
| TOP DIAMETER | |
| WATER STORAGE CAPACITY | |
| | |

END OF WORK PACKAGE

OPERATOR AND UNIT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST) COLLAPSIBLE FABRIC TANKS, WATER STORAGE, 3000 GALLONS PRINCIPLES OF OPERATION

Refer to Chapter 2.

END OF WORK PACKAGE

CHAPTER 2

OPERATING INSTRUCTIONS FOR TANK, WATER STORAGE, 3000 GALLONS

OPERATOR AND UNIT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST) COLLAPSIBLE FABRIC TANKS, WATER STORAGE, 3000 GALLONS CONTROLS AND INDICATORS

GENERAL

This section lists major components, controls, and indicators, and describes their function within the collapsible fabric water tank assemblies.

DESCRIPTION AND USE OF MAJOR COMPONENTS

Description and use of major components, including controls and indicators, are contained in Table 1.

Table 1. Major Components, Controls and Indicators

| Key | Control or Indicator | Function |
|-----|---|--|
| | | Describes the means to remain under from the territy. This O' |
| 1 | Fill/Discharge Fitting With Female Cam-Lock Coupling | (50.8 mm) male fitting can also be used to fill the tank. Accessed by removing the dust plug which is held in place with two cam-lever arms. |
| 2 | Fill/Discharge Fitting With Male Cam-Lock Coupling | Provides the means to remove water from the tank. This 2" (50.8 mm) male fitting can also be used to fill the tank. Accessed by removing the dust cap which is held in place with two cam-lever arms. |
| 3 | Automotive Valves | <u>Models 90074/91038</u> : There are two automotive valves: one in the tank collar and one in the cover float. The automotive valves provide attachment points for a standard, automotive type pump for inflating the tank collar and the cover float. Accessed by removing the valve cap. <u>Model WT2008</u> : Has one automotive valve located in the tank Collar. |
| 4 | Inflation Valve | <u>Model 90074</u> : There are two inflation valves: one in the tank collar and one in the cover float. The inflation valves provide an attachment point for the hand pump for inflating the tank collar and cover float. During use, the inflation valve is turned to "OPEN" position for inflating and deflating and to "CLOSE" position for holding air after inflation. Positions are stenciled on the tank collar and cover float. <u>Model 91038</u> : There are four inflation valves: three in the tank collar and one in the cover float. The inflation valves provide an attachment point for the foot bellows for inflating the tank collar and cover float. During use, the inflation valve is turned to "OPEN" position for inflating and deflating and to "CLOSE" position for holding air after inflation. Positions are stenciled on the tank collar and cover float. |
| 5 | Tank Collar | Models 90074/91038/WT2008: The tank collar is inflated before filling the tank and allows the collar and tank to rise with the rising water level. |
| 6 | Cover Float | The inflatable float is part of the cover. For Models 90074 and 91038 only, the float is inflated prior to installing the cover over the tank and acts to support the cover. For Model WT2008, the float is inflated and secured in netting holder prior to installing the cover. |
| 7 | Handle-Toggles | <u>Models 90074/91038/WT2008</u> : The ten handle-toggles installed around the outside of the tank provide the attachment points for the ten cover handles for use in securing the cover to the tank and serve as lifting points for moving the empty tank. |

| Кеу | Control or Indicator | Function |
|-----|--|---|
| 8 | Cover | <u>Models 90074/91038/WT2008:</u> The cover serves a dual purpose; when the tank is in use, the cover is installed over the top to prevent contamination of the drinking water; when the tank is not in use, the cover serves as the valise (carrying case). The cover provides ten handles around the outer edges, which attach to the ten handle-toggles for securing the cover to the tank on Models 90074 and 91038. <u>Model GTA-Z60TPW</u> : Cover is installed on the top of the tank using hooks and loops around the edges. |
| 9 | Hand Pump (Model 90074) | The hand pump provides the means of inflating the tank collar and cover float. The hand pump provides an integral hose with a male fitting which threads directly into any of the four inflation valves. The hand pumps are stored in the repair pouch on the outside of the tank. Hand pumps can be used without the hose if the hose is damaged. |
| | Foot Bellows (Models 91038 & WT2008) | The foot bellows provide the means of inflating the tank collar and cover float. The foot bellows provide an integral hose with a male fitting which threads directly into any of the four inflation valves. The foot bellows are stored in the repair pouch on the outside of the tank. Foot bellows can be used without the hose if the hose is damaged. |
| 10 | Lift Handles | There are two lift handles attached to the inside bottom of the tank. The handles are used for hanging the tank inside out to dry after use. Models WT 2008 and GTA-Z60TPW have a single loop at the center of the floor inside the tank for hanging out to dry. |
| 11 | Repair Pouch | The repair pouch is attached to the outside wall of the tank and is used to store the hand pump or foot bellows, repair kit and technical manual. |
| 12 | Repair Kit | The repair kit contains all items needed to perform emergency repair of cuts and punctures in the tank fabric. Repair kit items are stored in the repair kit pouch. Also included with the repair kit is a laminated instruction sheet, detailing fabric repair. |
| 13 | Ground Cloth | After tank site selection and removal of any debris that might damage the ground cloth or tank, the cloth is spread out flat to protect the bottom of the tank from abrasion and wear resulting from contact with the ground. The ground cloth is stored in the cover with the tank when not in use. Model GTA-Z60TPW has a ground cloth that serves as a valise to contain and carry the folded tank. It is equipped with two separate straps for lifting. |
| 14 | Ball Valve and Couplings (Models 3-K-W-O-A/Z and GTA-Z60TPW) | The ball valve assembly can be connected to the fill/discharge fittings on the tank and used as a shut-off when filling or emptying. |

Table 1. Major Components, Controls and Indicators – Continued

Table 1. Major Components, Controls and Indicators – Continued

| Key | Control or Indicator | Function |
|-----|-----------------------------------|--|
| 15 | Valise (Model WT2008) | Used as a carrying case for tank, cover, cover float, foot bellows and repair kit. |
| 16 | Deflation Valve (Model WT2008) | Located on the top side of the tank collar. This valve is used to deflate the tank collar. |





NOTES: Model 90074 shown, typical. Models 91038/WT2008 foot bellows not shown. Model WT2008 valise and deflation valve not shown.

END OF WORK PACKAGE

OPERATOR AND UNIT MAINTENANCE COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS OPERATION UNDER USUAL CONDITIONS

ASSEMBLY AND PREPARATION FOR USE

CAUTION

Damage to tank may occur if chosen site is not free of sharp objects (rocks, sticks, glass, etc.) and a 10 percent slope [1 foot (0.3 meter) rise in 10 foot (3 meters) run] is exceeded.

Unpacking the Equipment

1. Position the packaged tank on an approved site.

CAUTION

Use care when unpacking the tank. Tank can be easily damaged by tools, packing box nails, or other sharp objects.

NOTE

Each tank is provided with a suitable packing around the tank. Do not damage, throw away, or use packing as a tarp. Keep packing with original shipping container.

2. Carefully open shipping container and remove tank and packing material. If a tank is being replaced, package the unserviceable tank in the empty container in the same manner that the new tank was packaged.

3. Set tank on the ground, with the four carrying handles up (1).

4. Remove the four straps from the D-rings to release the bundle (2).

5. Unfold the cover sufficiently to permit removal of tank (3 through 7).

6. Remove all debris and material from installation area that could damage the tank or the ground cloth.

7. Other models, remove the ground cloth and unfold on the selected installation area. Smooth out all creases and wrinkles. If tears or cuts in the ground cloth can be spread out smooth and the damaged area will be held together by the weight of the tank, the ground cloth can still be used.

CAUTION

Do not walk on outside or inside of tank or cover, as damage and/or contamination may occur.

8. Lift tank from cover and set in center of installation area (8).



Assembly

- 1. Unroll the tank and unfold the sides (9 through 12).
- 2. Perform the before preventive maintenance checks and services (PMCS) WP 0009 00.
- 3. In the installation area (13), fully spread out the tank, open end up, on the pre-positioned ground cloth.

MODEL GTA-Z60TPW ASSEMBLY AND PREPARATION FOR USE

CAUTION

Damage to tank may occur if chosen site is not free of sharp objects (rocks, sticks, glass, etc.) and a 10 percent slope [1 foot (0.3 meter) rise in 10 foot (3 meters) run] is exceeded.

Unpacking the Equipment

1. Position the packaged tank on an approved site.

CAUTION

Use care when unpacking the tank. Tank can be easily damaged by tools, packing box nails, or other sharp objects.

NOTE

Each tank is provided with suitable packing around the tank. Do not damage, throw away, or use packing as a tarp. Keep packing with original shipping container.

2. Carefully open shipping container and remove tank and packing material. If a tank is being replaced, package the unserviceable tank in the empty container in the same manner that the new tank was packaged.

3. Remove all debris and material from installation area that could damage the tank or the ground cloth.

4. Set tank bundle on the ground in the center of the selected installation area (1).

5. Untie the straps to release the bundle (2). Note that the valise is also the ground cloth.

6. Unfold the valise/ground cloth on the selected installation area (3 through 7). Smooth out all creases and wrinkles. If the ground cloth has any tears or cuts, it can still be used if the damaged areas can be laid out such that they are held together by the weight of the tank.

7. Tank is now located in center of opened ground cloth (7).

CAUTION

Do not walk on outside or inside of tank or cover, damage and/or contamination may occur.

Assembly

1. Unfold the tank and unfold the sides (9 through 12).

2. Perform the before preventive maintenance checks and services (PMCS) WP 0009 00.

3. In the installation area (13), fully spread out the tank, open end up, on the pre-positioned ground cloth.

INITIAL ADJUSTMENTS AND ROUTINE CHECKS

NOTE

If the tank is cut or punctured during any phase of operation, refer to WP 0006 00 for emergency repair procedures.

1. Remove hand pump (1) and hose from repair pouch and connect hose to hand pump. For Model 91038, remove the foot bellows and hose from the repair pouch. Connect hose to foot bellow.

2. Thread the hand pump or foot bellows hose into the inflation valve (2) in the tank collar (3).

3. Open the inflation valve (2) by turning the center part of the valve clockwise, as stenciled on the collar (3).



NOTE: Model 90074 shown. Others similar

NOTE: Models 91038 and WT2008 foot bellows not shown.

CAUTION

Do not over-inflate the tank collar. Maximum air pressure is 0.5 psi (3.4 kPa). Tank collar may be damaged if over-inflated.

CAUTION

The tank collar may also be inflated by attaching a standard automotive pump to the automotive valve but is not recommended as damage may occur to collar.

4. Operate the hand pump or foot bellows to inflate the collar (3) until firm.

NOTE

A firm touch approximates 0.5 psi (3.4 kPa).

5. Close the inflation valve (2) by turning the center part of the valve counterclockwise (to the left), as stenciled on the collar (3).

6. Unthread the hand pump or foot bellows hose from the inflation valve (2) on the collar (3) and thread into the inflation valve (2) in the cover float (5). Insure float is securely attached to cover.

7. Open the inflation valve (2) on the cover float by turning the center part of the valve clockwise (to the right), as stenciled on the cover float (5).

CAUTION

Do not over-inflate the cover float. Maximum air pressure is 0.5 psi (3.4 kPa). Cover float may be damaged if over-inflated.

CAUTION

The float may also be inflated by attaching a standard automotive pump to the automotive valve, but it is not recommended as damage may occur to float.

8. Operate the hand pump or foot bellow to inflate the cover float (5) until firm.

NOTE

A firm touch approximates 0.5 psi (3.4 kPa).

9. Close the inflation valve (2) on the cover float (5) by turning the center part of the valve counterclockwise, as stenciled on the cover float.

10. Unthread the hand pump/foot bellows hose (1) from the inflation valve (2), disconnect hose from the hand pump or foot bellows. Store items in the repair pouch.

INITIAL ADJUSTMENTS AND ROUTINE CHECKS (Model GTA-Z60TPW Only)

NOTE

If the tank is cut or punctured during any phase of operation, refer to WP 0006 00 for emergency repair procedures.

1. Pull tank from perimeter so there are no wrinkles on the bottom of the tank.

2. To avoid damaging tank, kneel down on tank to remove top cover by unsealing from tank.

3. Unseal top opening of tank and look inside tank to check that it is clean and there are no foreign objects inside.

- 4. Reseal top tank opening. Make sure seal is smooth with no wrinkles.
- 5. Replace cover over sealed tank opening. Attach cover to tank, making sure there are no wrinkles.

6. Remove protective wrapping from fittings (6) and (7) and save for repacking after use.

INITIAL ADJUSTMENTS AND ROUTINE CHECKS (Model WT2008 Only)

NOTE

If the tank is cut or punctured during any phase of operation, refer to WP 0006 00 for emergency repair procedures.

- 1. Remove the foot bellows and hose from repair pouch. Connect hose to foot bellow.
- 2. Remove plugs from the two non-return valves (1). Insert foot bellows tube into valve inlet.



CAUTION

Do not over-inflate the tank collar. Maximum air pressure is 0.5 psi (3.4 kPa). Tank collar may be damaged if over-inflated.

CAUTION

The tank collar may also be inflated by attaching a standard automotive pump to the automotive valve (located on the other side of the tank) but is not recommended as damage may occur to collar.

- 3. Operate the foot bellows to inflate the collar (2) until firm.
- 4. Remove the bellows tube and replace the inflation valve plugs (1).

NOTE

A firm touch approximates 0.5 psi (3.4 kPa).

5. Remove the inflation valve plug (1) on the cover float. Insert foot bellows hose into float inflation valve.

CAUTION

Do not over-inflate the cover float. Maximum air pressure is 0.5 psi (3.4 kPa). Cover float may be damaged if over-inflated.

6. Operate the foot bellow to inflate the cover float (2) until firm.

NOTE

A firm touch approximates 0.5 psi (3.4 kPa).

7. Remove foot bellow hose and replace float inflation valve plug.



8. With float inflated, fit into the netting holder (3), with the inflation valve uppermost and secure in position with the drawstring on the holder.

9. Store foot bellows in the repair pouch.

OPERATING PROCEDURES (Filling the Tank)

NOTE

The number and type of fastening devices to attach the cover to the tank may vary between tank models.

1. Place cover (8) over top of tank (11), ensuring that cover float (5) is positioned inside tank first, and align the ten cover handles (9) around the edge of the cover (8), with the ten handle-toggles (10) around the tank.

2. Loop die cover handles (9) over the handle-toggles (10). Pull the handle-toggles (10) down over the cover handles (9) and tuck the ends under the rope, to secure the cover into position.



Models 90074/91038/ GTA-Z60TPW only

NOTE

There are two fill/discharge fittings which provide a 2-inch (50.8 mm) coupling located at opposite ends of the tank. One end provides a female cam-lock coupling; the other end provides a male cam-lock coupling. Either, or both, may be used for filling the tank.

3. Remove the dust plug from the female cam-lock coupling (6) or the dust cap from male cam-lock coupling (7) by pulling out on cam-lever arms.

4. Depending on system setup connect water fill/discharge lines to the fittings; secure by pushing camlever arms in against hose, or fill tank through top opening.

NOTE

Do not exceed capacity of tank. If metering gauge is not available, tank is full when water level reaches lower edge of the tank collar.

5. Begin filling the tank. A maximum of 3,000 gallons (11,356 liters) may be put into the tank.

6. Turn off flow of water when tank is full.

7. Disconnect supply line from the tank, and stop the flow of water by installing the dust plug in the female cam-lock couplings (6) or the dust cap on the male cam-lock coupling (7).

OPERATING PROCEDURES (Filling the Tank) MODELS GTA-Z60TPW and 3-K-W-O-A/Z

NOTE

There are two fill/discharge fittings which provide a 2-inch (50.8 mm) coupling located at opposite ends of the tank. One end provides a female cam-lock coupling; the other end provides a male cam-lock coupling. Either, or both, may be used for filling the tank.

1. Remove the dust plug from the female cam-lock coupling (6) or the dust cap from male cam-lock coupling (7) by pulling out on cam-lever arms.

2. Depending on system setup, connect 2" ball valve assembly to the fittings; secure by pushing camlever arms in against hose.

3. Attach hose to 2" ball valve assembly. Open ball valve assembly.

4. Begin filling the tank. A maximum of 3,000 gallons (11,356 liters) may be stored in the tank. GTA-Z60TPW tank is full when height of 45" is reached. Model 3-K-W-O-A/Z tank is full when 56" height is reached.

NOTE

Do not exceed capacity of tank. If metering gauge is not available, tank is full when water level reaches lower edge of the tank top seam.

- 5. When tank is full, turn off flow of water from supply line.
- 6. Close ball valve.
- 7. Disconnect supply line from the tank ball valve assembly.
- 8. Install the dust plug or the dust cap on the ball valve assembly.

OPERATING INSTRUCTIONS ON DECALS AND INSTRUCTION PLATES

No decals or instruction plates are provided on the collapsible fabric water tank. The different stencils are provided with the locations on Models 90074, 91038 and 3-K-W-O-A/Z as follows. Others are similar.

a. Carry Stencil (1).

4 SOLDIER CARRY

c. Inflation Valve Stencil (3).



b. Automotive Valve Stencil (2).

INFLATION MAX 1/2 P.S.I.G.

d. Identification Stencil (4).

TANK, FABRIC, SIELF-SUPPORTING 3000 U.S. GALLON WATER NSN. 5430-01-359-4774 SIERIAL NO.: AMIFUIEL PN 90074 MIFR. AMIFUIEL, MONTIGELLO, ARK. WEIGHT EMIPTY. 135 LBS. CONTRACT NO. DAAKO1-92-D-0055 LOT. NO.: DATE OF MANUFACTURE: FIVIE VEAR USE LIFTE-EXTENDABLE TIEN VEAR STORAGE LIFTE-EXTENDABLE

f. Fill/Discharge Hose Stencil (6).

CONNECT FILL/DISCHARGE HOSE HERE

g. Identification Stencil (4) Model 91038.

TANK, FABRIC, SELF-SUPPORTING 3000 U.S. GALLON WATER NSN. 5430-01-318-9434 SERIAL NO. AMFUEL PN 91038 MFR. AMFUEL, MAGNOLIA, ARK. WEIGHT EMPTY LBS. CONTRACT NO. LOT NO.

h. Identification Stencil (4) Model 3-K-W-O-A/Z

TANK, FABRIC, SELF-SUPPORTING 3000 U.S. GALLONS WATER NSN: 5430-01-470-7380 SERIAL NO.: (SPECIFY) MFR: RELIANCE COATED FABRICS WEIGHT EMPTY: 90 LBS. CONTRACT NO. DAAE07-99-D-T045 LOT NO:SPECIFY



OPERATION OF AUXILIARY EQUIPMENT

No auxiliary equipment is provided with the collapsible fabric water tank assembly.

PREPARATION FOR MOVEMENT

Draining and Drying (Models 90074, 91038 and WT2008)

- 1. Drain all water from the tank.
- 2. Disconnect fill/discharge lines from tank fittings.

NOTE

The number and type of fastening devices to attach a cover to a tank may vary between tank models.

3. Disconnect the ten cover handles (9) around the edge of the cover (8) from the ten handle-toggles (10) around the tank (11).

4. Remove the cover (8).

CAUTION

When tank is being prepared for storage or transportation, make sure that the inflation valves remain open. The tank collar and cover float may be damaged if the valves are closed and the tank encounters different atmospheric pressures.

5. Deflate the cover float (5) by turning the center part of the inflation valve clockwise to open for Models 91038 and 90074. Do not close the inflation valve after float is deflated. For WT2008, deflate float and remove float from drawstring holder for storage in valise.

6. Deflate the tank collar (3) by turning the center part of the inflation valve clockwise (to the right) to open for Models 91038 and 90074. For WT2008, deflate tank collar, unscrew deflation valve located on the top surface of the collar, then roll the tank up to expel the air. Do not close the inflation valve after collar is deflated.

7. Clean the outside of the tank (11) and the cover (8) with a mild detergent (Item 4, WP 0030 00) and water solution. Rinse thoroughly with clean water.

8. Allow the cover (8) and the outside of the tank (11) to dry thoroughly.

CAUTION

Do not lift or move the inside lift handles if there is any standing water. Do not lift or move the tank with the inside lift handles if there is any standing water remaining in the bottom of the tank. Damage to the handles and/or tank fabric may occur.

9. Using the inside lift handles (12), suspend the tank (11) inside out. On WT2008, there is a single loop at the center of the floor on the inside of the tank for hanging out to dry out.

10. If needed, clean the inside of the tank with a mild detergent (Item 4, WP 0030 00) and water solution. Rinse thoroughly with clean water.



11. Keep the tank suspended until thoroughly dry.

12. Shake out ground cloth to remove loose dirt and debris. If needed, spot clean ground cloth with a mild detergent (Item 4, WP 0030 00) and water solution, and rinse with clean water. Allow ground cloth to dry thoroughly.

13. Take down the tank; position it with the handle-toggles (10) to the outside.

Draining and Drying (Models GTA-Z60TPW and 3-K-W-O-A/Z)

- 1. Drain all water from the tank.
- 2. Disconnect fill/discharge hose lines from ball valve assembly.
- 3. Disconnect ball valve assembly from tank fittings (6) and/or (7).

4. Clean the outside of the tank and cover (8) with a mild detergent and water solution and rinse thoroughly with clean water.

5. Allow the exterior of the tank to dry thoroughly.

6. On Model GTA-Z60TPW, remove cover and unseal top opening on top of tank. On Model 3-K-W-O-A/Z, unzip top opening on tank.

CAUTION

Do not lift or move the inside lift handle if standing water is present. Do not lift or move the tank by the inside lift handle if any standing water is present in the bottom of the tank. Damage to the handle and/or tank fabric may occur.

7. Using the inside lift handle (12), suspend the tank inside out. On Model 3-K-W-O-A/Z, there are two lift handles (12).
8. If needed, clean the inside of the tank with a mild detergent and water solution and rinse thoroughly with clean water.

9. Turn tank inside out and suspend (using inside handle) until thoroughly dry.

10. Shake out ground cloth to remove loose dirt and debris. If needed, spot clean ground cloth with a mild detergent and water solution, and rinse with clean water. Allow ground cloth to dry thoroughly.

11. Take down the tank. Turn tank right side out so stencils are outside.

12. Quick connect the dust cap and dust plug to filler/discharge fittings and wrap fittings with cushioning material.

Folding – Models 91038, 90074 and 3-K-W-O-A/Z

CAUTION

Make sure the tank is completely dry before folding. Water will create mildew, decreasing the life of the tank if it is not completely dry.

NOTE

- Ensure fill/discharge fittings are positioned at the ends of the tank.
- Throughout the folding process, be sure to brush off any stones, grass, or other debris that may accumulate on the tank or the ground cloth.
- Two personnel are required when folding and rolling up the tank and the ground cloth to ensure that a tight bundle results.
- 1. Lay the tank out flat on the ground, with the tank collar up (1).
- 2. Grasp one side of the tank (2) (without a fill/discharge fitting), and fold inward toward the center (3).
- 3. Grasp the opposite side of the tank (3) and fold inward, over the first fold (4).
- 4. Fold any over-hang of the second fold back on top of itself (4).
- 5. Starting at one end of the tank (5), tightly roll up the tank (6).
- 6. Lay the cover out flat, float side up (7).

CAUTION

Do not walk on tank or cover, as damage may occur.

NOTE

If the fold lines have worn off, the length of the tank should run parallel to the ends of the cover which have two handles each.

- 7. Lay the rolled up tank on the cover, with its length perpendicular to the two fold lines (7).
- 8. Fold one side of the cover, along the fold line, in over the tank (8).



9. Fold the other side of the cover, along the fold line, in over the first fold (9).

10. Fold the end of the cover with the D-rings (12) up over the tank (10).

11. Fold the other end of the cover in so that the straps are brought to the underside edge of the fold (11).

12. Grasp the enclosed tank and tightly roll the bundle over onto the protruding end of the cover (11).

13. Pull the straps under the D-rings (12), bring back over the first D-ring, under the second D-ring, and pull snug to secure the bundle (13).

14. Resulting bundle should be tightly packed with the four carrying handles (Model 91038, three carrying handles) up (13).

15. Place bundle into shipping container.

16. For Model 90074, fold the dry ground cloth to the same size as the tank. Place the ground cloth into the shipping container.

Folding – GTA-Z60TPW

CAUTION

Make sure tank is completely dry before folding. Water will create mildew, decreasing the life of the tank if it is not completely dry.

NOTE

- Ensure fill/discharge fittings are positioned at the perimeter of the tank.
- Throughout the folding process, be sure to brush off any stones, grass, or other debris that may accumulate on the tank or the ground cloth.
- Two personnel are required when folding and rolling up the tank and ground cloth to ensure that a tight bundle results.
- 1. Lay the tank out flat on the ground with the tank opening up.
- 2. Grasp one side of the tank (2) and fold inward toward the center (3).
- 3. Grasp opposite side of the tank and fold inward other the first fold (4).
- 4. Fold any overhang of the second fold back on top of itself (4).
- 5. Starting at one end of the tank (5), tightly fold up the tank (6).
- 6. Lay the ground cloth/valise out flat on the ground (7).

CAUTION

Do not walk on the ground cloth. Damage may occur.

- 7. Place the rolled tank in the center of the ground cloth (7).
- 8. Fold one side of the ground cloth in over the tank (8).
- 9. Fold the other side of the ground cloth in over the first fold (9)
- 10. Starting at one end (10), fold the ground cloth up in a tight bundle with the tank bundle inside (11).
- 11. Lift bundle and position carrying straps underneath.
- 12. Secure straps around the bundle using loops to tie (12).
- 13. Place tank bundle into shipping container.

Folding – WT2008



- 1. Lay tank out as flat as possible and completely deflate ring.
- 2. Fold sides in as shown, take care deflation plugs are not fouled.

3. Fold tank twice towards inflation valves.





- 4. Turn tank over. Complete folding tank as shown to dimensions indicated.
- 5. Store tank, cover, cover float, foot bellows and repair kit in valise.

OPERATOR AND UNIT MAINTENANCE COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS OPERATION UNDER UNUSUAL CONDITIONS

OPERATION IN EXTREME HEAT.

1. Ensure that cover (8) is properly installed or on Model 3-K-W-O-A/Z, top opening is zipped up, to decrease water evaporation from the tank.

2. Ensure that tank collar (3) and cover float (5) do not become over-inflated (Models 90074/91038/WT2008).

3. If possible, set up protective shade over the tank.



NOTE Avoid any unnecessary handling of the tank.

> **NOTE**: Model 90074 shown, others similar. Foot bellow, Models 91038 & WT2008 not shown.

OPERATION IN EXTREME COLD.

CAUTION

If the tank is used in temperatures below freezing [32°F (0°C)], caution must be used to prevent water in the tank, or in contact with the fluid discharge fittings from freezing. If water freezes, damage may occur to the tank and/or fittings.

NOTE

Avoid any unnecessary handling of the tank.

1. Do not allow ice to accumulate on the tank, ball valve assemblies (Models GTA-Z60TPW and 3-K-W-O-A/Z) or the fill/discharge fittings (6 and 7).

2. Ensure that tank collar (3) and cover float (5) do not become under-inflated.

OPERATION IN SALT WATER AREAS.

- 1. Keep cover (8) properly installed to keep salt water from contaminating drinking water.
- 2. Keep tank opening sealed (Model GTA-Z60TPW) or zipped closed (Model 3-K-W-O-A/Z).
- 3. Clean fill and discharge fittings (6 and 7) with clean water prior to filling or drawing water from the tank.

OPERATION IN SANDY OR DUSTY AREAS.

1. Keep top opening sealed (Model GTA-Z60TPW) and cover (8) properly installed to prevent sand or dust from contaminating drinking water. Keep top opening zipped closed (Model 3-K-W-O-A/Z).

2. Ensure that fill and discharge fittings (6 and 7) are free of sand or dirt prior to filling or drawing water from the tank.

OPERATION AT HIGH ALTITUDES.

No special procedures are required for operation at high altitudes.

OPERATION IN SNOW AND ICE.

- 1. Keep cover (8) properly installed to prevent snow from contaminating water supply.
- 2. Sweep snow from exterior of tank with a soft-bristled broom or brush.

3. Do not allow ice to accumulate on the tank, ball valve assemblies (Models GTA-Z60TPW and 3-K-W-O-A/Z) or the fluid discharge fittings (6 and 7).

4. Cover fittings or ball valve assemblies (Models GTA-Z60TPW and 3-K-W-O-A/Z) to keep ice from forming on fluid discharge fittings (6 and 7) or ball valve assemblies.

OPERATION IN MUD.

Ensure that fluid discharge fittings (6 and 7) and ball valve assemblies (Models GTA-Z60TPW and 3-K-W-O-A/Z) are clean before filling or drawing water from the tank.

OPERATION IN HIGH WINDS.

- 1. Ensure that cover (8) remains properly attached to tank.
- 2. Keep tank as full of drinking water as possible.

OPERATION IN RAIN.

1. Keep cover (8) installed to prevent rain from contaminating water supply.

2. Keep top opening zipped closed (Model 3-K-W-O-A/Z) to prevent rain from contaminating water supply.

3. If possible, provide adequate drainage ditches to prevent standing water around tank.

EMERGENCY PROCEDURES.

General.

Emergency repair is performed when cuts or punctures occur in the tank when it is in use.

The Emergency Repair Kit is stored in the repair pouch on the outside wall of the tank.

Emergency Repairs With Wood Plugs.

In emergencies, as an immediate temporary measure, the wood plugs may be used for sealing small holes or punctures.

The size of hole or tear will determine the size of wood plug to be used.

- 1. For holes (tears) up to approximately 0.5 inch (1.27 cm) in size, use the 3-inch (7.62 cm) long plug.
- 2. For holes (tears) up to approximately 1.5 inch (3.81 cm) in size, use the 5-inch (12.7 cm) long plug.

Select the size plug needed to fit (seal) the tank puncture, wet and insert in the hole. Twist plug clockwise (to the right) until the leak is either stopped or slowed. Follow-up regular inspection should be made of the wood plugs, as possible tightening may be necessary if the leaks resume. Later, if a leak is not totally stopped, the use of a small sealing clamp may become necessary.



Emergency Repairs With Sealing Clamps.

Small slits, tears, or cuts [not to exceed 6 inches (15.24 cm) in length] may be repaired with sealing clamps.

The size of the damaged area (opening) needing repair will govern the size of the clamp needed. Select clamp size as follows:

- 1. For holes (tears) less than 2 inches (5.08 cm) in length, use the 3-inch (7.6 cm) clamp.
- 2. For holes (tears) 2 to 4 inches (5.08 to 10.16 cm) in length, use the 5-inch (12.7 cm) clamp.
- 3. For holes (tears) 4 to 6 inches (10.16 to 15.24 cm) in length, use the 7-1/2-inch (19 cm) clamp.

NOTE

It may be necessary to increase the size of the tears in order to be able to insert the bottom plate of the clamp.

4. Loop cord around wrist (1) to prevent loss of clamp into tank.

5. Slip the bottom plate of the clamp (2) through the hole or tear and rotate it until it is centered and its length runs with the tear.

6. Pull bottom plate up against fabric, and slide top plate and wing nut (3) down cord and onto threaded stud (4) of bottom plate.

CAUTION

Do not over tighten, as stud threads may be stripped, or damage to tank fabric may occur.

7. With plates aligned, tighten wing nut (5) to clamp the tank wall between the two plates. Tighten enough to stop leak.



INTERIM NUCLEAR, BIOLOGICAL, AND CHEMICAL (NBC) DECONTAMINATION PROCEDURES.

NOTE Detailed decontamination procedures can be found in: FM 3-3, FM 3-4, and FM 3-5.

General.

The following emergency procedures can be performed until field NBC decontamination facilities are available.

Emergency Procedures.

If NBC attack is known or suspected, mask at once and continue mission. Do not unmask until told to do so.

1. Nuclear decontamination - Brush fallout from skin, clothing, and equipment with available brushes, rags, and tree branches. Wash skin and have radiation check made as soon as tactical situation permits.

- 2. Biological decontamination Remain masked and continue mission until told to unmask.
- 3. Chemical detection and decontamination.

WARNING

Do not use decontamination spray on personnel. It could cause personal injury.

a. Use M8 paper from the M256 chemical agent detector kit or M9 paper to determine if liquid agent is present on the surface of the equipment.

b. If exposure to liquid agent is known or suspected, clean exposed skin, clothing, and personal gear, in that order, using M258A1 kit. Use the buddy system. Wash exposed skin and thoroughly decontaminate as soon as tactical situation permits.

c. If the M8 or M9 paper indicates that liquid chemical agent is present, rinse the exposed portion of the collapsible tank with a liberal amount of water. When the tactical situation permits, wash the collapsible tank with soapy water and rinse.

d, Decontamination procedures take time. Do as much as you can based on the tactical situation.

CHAPTER 3

OPERATOR TROUBLESHOOTING FOR TANK, WATER STORAGE, 3000 GALLONS

OPERATOR AND UNIT MAINTENANCE COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS TROUBLESHOOTING PROCEDURES

INTRODUCTION TO TROUBLESHOOTING.

The Troubleshooting Malfunctions list the common malfunctions which you may find during the operation or maintenance of the collapsible fabric water tank assembly or its components. Perform the tests/inspections and corrective actions in the order listed in the table.

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

TROUBLESHOOTING PROCEDURE

TANK COLLAR (Models 90074/91038/WT2008)

SYMPTOM

Tank collar will not inflate.

MALFUNCTION

Check that inflation valve (2) on tank collar (3) is open.

CORRECTIVE ACTION

Open inflation valve by turning the center part of the inflation valve (2) clockwise (to the right), as stenciled on the tank collar (3).

Model WT2008: Check that deflation valve is fully closed.

CORRECTIVE ACTION

Close deflation valve.

Check that automotive valve (1) is not damaged.

CORRECTIVE ACTION

Notify unit maintenance for repair.

Check hand pump assembly (9) for damage.

CORRECTIVE ACTION

Replace preformed packing (Item 2, WP 0033 00).

Check foot bellows on Models 91038 and WT2008 for damage.

CORRECTIVE ACTION

Replace foot bellows if required.

Check inflation valve (2) for damage.

CORRECTIVE ACTION

Notify unit maintenance for repair.

Check tank collar (3) for tears or punctures.

CORRECTIVE ACTION

Notify unit maintenance for repair.

SYMPTOM

Tank collar deflates after inflation.

NOTE

If temperature has dropped considerably since the collar was inflated, it will appear to have lost air. Unless it is observed to lose additional air, the collar is in operating condition and does not have a leak. Do not inflate unless a leak is observed.

MALFUNCTION

Check that inflation valve (2) was fully closed after tank collar (3) was inflated.

CORRECTIVE ACTION

If inflation valve (2) was not fully closed, reinflate the tank collar (3) to proper psi of approximately 0.5 psi (3.4 kPa), making sure to properly close valve after inflation by turning counterclockwise (to the left).

Model WT2008: Check that deflation valve is fully closed.

CORRECTIVE ACTION

Close deflation valve.

Check inflation valves (2) for air leakage.

CORRECTIVE ACTION

Notify unit maintenance for repair.

Model WT2008: Check deflation valve for leaks.

CORRECTIVE ACTION

Notify unit maintenance for repair.

Check automotive valve (1) for air leakage.

CORRECTIVE ACTION

Notify unit maintenance for repair.

Check tank collar (3) for cuts or punctures.

CORRECTIVE ACTION

Notify unit maintenance for repair.

SYMPTOM

Tank collar will not deflate.

MALFUNCTION

Check that inflation valve (2) is open.

CORRECTIVE ACTION

Open inflation valve (2) by turning center part of the valve clockwise (to the right), as stenciled on tank collar (3).

Model WT2008: Check deflation valve is fully open.

CORRECTIVE ACTION

Unscrew deflation valve.

Check inflation valve (2) for damage. Model WT2008, check deflation valve for damage.

CORRECTIVE ACTION

Notify unit maintenance for repair.

TROUBLESHOOTING PROCEDURE

COVER FLOAT (Models 90074/91038/WT2008)

SYMPTOM

Cover float will not inflate.

MALFUNCTION

Check that inflation valve (4) is open.

CORRECTIVE ACTION

Open inflation valve (4) by turning the center part of the valve clockwise (to the right), as stenciled on the cover float (5).

Check hand pump (9) for proper operation.

CORRECTIVE ACTION

Replace preformed packing (Item 2, WP 0033 00).

Models 91038 and WT2008, check foot bellows for damage.

CORRECTIVE ACTION

Replace foot bellow if required.

0007 00-3

Check inflation valve (4) for damage.

CORRECTIVE ACTION

Notify unit maintenance for repair.

Check automotive valve (4A) for damage on Models 91038, 90074 and WT2008.

CORRECTIVE ACTION

Notify unit maintenance for repair.

Check cover float (5) for cuts or punctures.

CORRECTIVE ACTION

Notify unit maintenance for repair.

SYMPTOM

Cover float deflates after inflation.

MALFUNCTION

NOTE

If temperature has dropped considerably since the float was inflated, it will appear to have lost air. Unless it is observed to lose additional air, the float is in operating condition and does not have a leak. Do not inflate unless a leak is observed.

Check that inflation valve (4) was fully closed after cover float (5) was inflated.

CORRECTIVE ACTION

If inflation valve (4) was not fully closed, reinflate the cover float (5) to proper psi of approximately 0.5 psi (3.4 kPa), making sure to properly close valve after inflation.

Check inflation valve (4) for air leakage.

CORRECTIVE ACTION

Notify unit maintenance for repair.

Check automotive valve (4A) for air leakage on Models 91038, 90074 and WT2008.

CORRECTIVE ACTION

Notify unit maintenance for repair.

Check cover float (5) for cuts or punctures.

CORRECTIVE ACTION

Notify unit maintenance for repair.

SYMPTOM

Cover float will not deflate.

MALFUNCTION

Check that inflation valve (4) is open.

CORRECTIVE ACTION

Open inflation valve (4) by turning center part of the valve clockwise (to the right), as stenciled on cover float (5) for Models 91038 and 90074. On Model WT2008, open inflation valve.

Check inflation valve (4) for damage.

CORRECTIVE ACTION

Notify unit maintenance for repair.



TROUBLESHOOTING PROCEDURE

TANK

SYMPTOM

Tank leaks.

MALFUNCTION

Check tank (6) for cuts or punctures.

CORRECTIVE ACTION

Perform emergency repairs (WP 0006 00).

TROUBLESHOOTING PROCEDURE

FILL/DISCHARGE FITTINGS

SYMPTOM

Fill/discharge fittings leak.

MALFUNCTION

Check fill/discharge fittings (7 and 8) for loose, damaged, or missing bolts.

CORRECTIVE ACTION

Tighten as necessary or notify Unit maintenance for repair.

Make sure dust plug/cap are securely installed on fill/discharge fittings (7 and 8) and that cam-lever arms are secured.

CORRECTIVE ACTION

Properly install dust plug/cap, if required.

NOTE

Water should be drained from tank before attempting to inspect or replace a gasket.

Check gasket, installed in both fill/discharge fittings (7 and 8) for damage (WP 0021 00 and WP 0022 00 respectively).

CORRECTIVE ACTION

Replace gasket (Item 1, WP 0033 00).

CHAPTER 4

UNIT TROUBLESHOOTING FOR TANK, WATER STORAGE, 3000 GALLONS

UNIT MAINTENANCE COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS TROUBLESHOOTING PROCEDURES

INTRODUCTION TO TROUBLESHOOTING

There are no troubleshooting procedures at Unit level.

CHAPTER 5

OPERATOR MAINTENANCE INSTRUCTIONS FOR TANK, WATER STORAGE, 3000 GALLONS

OPERATOR MAINTENANCE COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS PMCS PROCEDURES INTRODUCTION

INTRODUCTION General

Preventive Maintenance Checks and Services (PMCS) are performed to keep the collapsible fabric water tank assembly in operating condition. The checks are used to find, correct or report problems. Be sure to perform your PMCS each time you service the tank assembly. Using the PMCS table, always do PMCS in the same order, so it gets to be a habit. With practice, you'll quickly spot anything wrong. Pay attention to WARNING and CAUTION statements. A WARNING means someone could be hurt. A CAUTION means equipment could be damaged.

Before you use the tank assembly, do Before PMCS.

During use, do During PMCS.

After the tank assembly is used, do After PMCS.

Do weekly PMCS once a week.

If you find something wrong when performing PMCS, fix it if you can, using troubleshooting procedures and/or maintenance procedures.

Use DA Form 2404 (Equipment Inspection and Maintenance Worksheet) to record any faults that you discover before, during, or after operation, unless you can fix them. You DO NOT need to record faults that you fix. Marine Corps users refer to TM 4700-15/1 for equipment records procedures. For further information on how to use this form, see DA PAM 738-750.

If tools required to perform PMCS are not listed in WP 0026 00, notify unit maintenance.

PMCS Procedures

Your Preventive Maintenance Checks and Services, Table 1, lists the inspections and care required to keep the water tank assembly in good operating order.

The Interval column of Table 1 tells you when to do a certain check or service.

NOTE

When a check and service procedure is required for both weekly and before intervals, it is not necessary to perform the weekly procedure during the same week in which the before procedure was done.

The Procedure column of Table 1 tells you how to do the required checks and services. Carefully follow these instructions. When the procedure tells you to, notify your supervisor.

"Equipment Not Ready/Available If" column tells you when and why your equipment cannot be used.



MODEL 3-K-W-O-A/Z

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Table 1. Preventive Maintenance Checks and Services For Water Storage Tank

NOTE Within designated interval, these checks are to be performed in the order listed.

| ITEM NO. | INTERVAL | MAN- HOUR | ITEM TO BE CHECKED OR SERVICED | PROCEDURE | EQUIPMENT NOT READY/ AVAILABLE IF: |
|-------------|----------|--------------|--------------------------------------|---|--|
| 1 | Before | | Installation Area | Inspect the installation area for sticks and other sharp objects that might cause punctures and leaks. | Sharp objects are present. |
| 2 | Before | | Tank Envelope (1) | Inspect for cuts, punctures and leaks. Model 3-K-W-O-A/Z: Inspect for damaged or missing zipper. | Tank envelope is cut, punctured or leaks. Zipper damaged or missing. |
| 3 | Before | | Reinforcing Fittings (6) | Inspect threaded holes for damaged threads. Check that fittings are securely bonded to tank. | Fittings are damaged or separated from tank. |

0009 00

| ITEM NO. | INTERVAL | MAN- HOUR | ITEM TO BE CHECKED OR SERVICED | PROCEDURE | EQUIPMENT NOT READY/ AVAILABLE IF: |
|-------------|----------|--------------|---|--|--|
| 4 | Before | | Cover (4) | Inspect for cuts or punctures. Model 3-K-W-O-A/Z has no cover. | Cover is cut or punctured. |
| 5 | Before | | Float (12) | Inspect for cuts or punctures. Check that float is secured to underside of cover. | Float is cut or punctured or separated from |
| | | | | Model WT2008: Check that float is secured in the netting holder. | Float separated from netting holder. |
| 6 | Before | | Lift Handles (7) and Straps (8) | Inspect for cuts and tears. Check that handles and straps are secure. | Lift handles or straps are damaged. |
| 7 | Before | | Handle- Toggles (9) (Models 90074/ 91038/WT2008 only) | Inspect handle for cuts or other damage. Inspect rope for cuts or frayed condition. | Handle-toggles are damaged. |
| 8 | Before | | Inflation Valves (10) (Models 90074 and 91038 only) | Inspect valves for loose or damaged screws or other damage. Ensure valves can be rotated to both the open and closed positions. | Valves are damaged. |
| 9 | Before | | Deflation Valves (17) | WT2008: Inspect valves for loose or damaged screws or other damage. | Valves are damaged. |
| 10 | Before | | Hand Pump (13) (Model 90074 only) | Inspect hose for cuts or damaged fittings. Inspect pump for damaged fitting or preformed packing. | Hand pump or fittings are damaged. Hose is cut or fittings damaged. Preformed packing damaged or missing. |
| 11 | Before | | Foot Bellows (16) (Models 91038 and WT2008) | Inspect hose for cuts or damaged fittings. Inspect bellows for damaged fitting or o-ring, cut or punctured bellows. | Bellows damaged to the point of being unusable. |
| 12 | Before | | Fill/Discharge Fittings (2 & 3) | Inspect for damage, leakage, loose or missing bolts. | Fittings are damaged, leaking or loose. Missing bolts. |
| 13 | Before | | Repair Kit (5) | Check for missing components (Table 1, WP 0004 00). Ensure instruction sheet is present. | Emergency repair items are missing. |

0009 00

| ITEM NO. | INTERVAL | MAN- HOUR | ITEM TO BE CHECKED OR SERVICED | PROCEDURE | EQUIPMENT NOT READY/ AVAILABLE IF: |
|-------------|----------|--------------|--|---|---|
| 14 | Before | | Ball Valve and Fittings (18) (Models 3-K-W- O-A/Z and GTA-Z60TPW) | Inspect for damage, leakage or loose and frozen valve. | Valve or fittings are damaged or leaking. Valve is frozen. |
| 15 | Before | | Automotive Valves (14) (Models 90074/ 91038/WT2008 only) | Inspect valves for damaged valve core or stem. | Valves are damaged. |
| 16 | Before | | Ground Cloth (15) (Models 90074/3-K-W- O-A/Z/91038) Ground Cloth/Valise (Model GTA- Z60TPW) | Inspect spread out ground cloth for evidence of debris or covered debris that could damage tank. Inspect cloth for through holes that allow the tank to have direct contact with the ground. | Ground cloth or ground cloth/ valise is damaged. |
| 17 | During | | Tank Envelope (1) | Inspect for cuts, punctures and leaks. | Envelope is cut, punctured or leaking. |
| 18 | During | | Fill/Discharge Fittings (2 & 3) | Inspect for damage, leakage, loose or missing bolts. | Fittings are damaged, leaking or loose. Bolts missing. |
| 19 | After | | Reinforcing Fittings (6) | Inspect threaded holes for damaged threads. Check that fittings are securely bonded to tank. | Fittings are damaged or separated from tank. |
| 20 | After | | Handle Toggles (9) (Models 90074/91038/ WT2008 only) | Inspect handles for cuts or other damage. Inspect rope for cut or frayed condition. | Toggles are damaged. |
| 21 | After | | Inflation Valves (10) (Models 90074 and 91038 only) | Inspect for loose or damaged screw or other damage. Ensure valves can be rotated to both the open and closed positions. | Valves are damaged. |
| 22 | After | | Deflation Valve (17) (Model WT2008 only) | Inspect for loose or damaged screw or other damage. Ensure valves can be rotated to both the open and closed positions. | Valves are damaged. |

| ITEM NO. | INTERVAL | MAN- HOUR | ITEM TO BE CHECKED OR SERVICED | PROCEDURE | EQUIPMENT NOT READY/ AVAILABLE IF: |
|-------------|----------|--------------|---|--|--|
| 23 | After | | Hand Pump (13) (Model 90074 only) | Inspect hose for cuts or damaged fittings. Inspect hand pump for damaged fitting or preformed packing. | Hand pump or fittings are damaged. Hose is cut or fittings damaged. Preformed packing is damaged or missing. |
| 24 | After | | Foot Bellows (16) (Models 91038 and WT2008 only) | Inspect hose for cuts or damaged fittings. Inspect bellows for damaged fitting or o-ring and cut or punctured bellows. | Bellows damaged to the point of being unusable. |
| 25 | After | | Repair Kit (5) | Check for missing components (Table 1, WP 0004 00). Ensure instruction sheet is present. | Emergency repair items are missing. |
| 26 | After | | Fill/Discharge Fittings (2 & 3) | Inspect for damage, leakage, loose or missing bolts. | Fittings are damaged, leaking or loose. Bolts missing. |
| 27 | After | | Ball Valve and Fittings (18) (Models 3-K-W- O-A/Z and GTA-Z60TPW only) | Inspect for damage, leakage or loose and frozen valve. | Valve or fittings are damaged or leaking. Valve is frozen. |
| 28 | After | | Automotive Valves (14) (Models 90074/ 91038/WT2008 only) | Inspect valves for damaged valve core or stem. | Valves are damaged. |
| 29 | Weekly | | Tank Envelope (1) | Inspect for cuts, punctures and leaks. | Envelope is cut, punctured or leaking. |
| 30 | Weekly | | Cover (4) | Inspect for cuts or punctures. | Cover is cut or punctured. |
| 31 | Weekly | | Float (12) | Inspect for cuts or punctures. Check that float is secured to underside of cover. Model WT2008: Check that float is secured to netting holder. | Float is cut, punctured or separated from cover. Float is separated from netting holder. |
| 32 | Weekly | | Repair Kit (5) | Check for missing components (Table 1, WP 0004 00). Ensure instruction sheet is present. | Emergency repair items are missing. |

0009 00

| ITEM NO. | INTERVAL | MAN- HOUR | ITEM TO BE CHECKED OR SERVICED | PROCEDURE | EQUIPMENT NOT READY/ AVAILABLE IF: |
|-------------|----------|--------------|--|--|--|
| 33 | Weekly | | Automotive Valves (14) (Models 90074/ 91038/WT 2008) | Inspect valves for damaged valve core or stem. | Valves are damaged. |
| 34 | Monthly | | Automotive Valves (14) (Models 90074/ 91038/WT 2008) | Inspect valves for damaged valve core or stem. | Valves are damaged. |

OPERATOR AND UNIT MAINTENANCE COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS OPERATOR MAINTENANCE PROCEDURES

GENERAL INSTRUCTIONS

Maintenance instructions in this section will list resources required, personnel required and equipment condition for start of procedure, except as noted below:

- Personnel required are listed only if the task requires more than one.
- The normal standard equipment condition to start a maintenance task is water tank drained and deflated. EQUIPMENT CONDITION is not listed unless some other condition is required.

| EQUIPMENT | MAINTENANCE PROCEDURE | | |
|--|-----------------------|--|--|
| Foot Bellows (Models 91038/WT2008) | WP 0011 00 | | |
| Hand Pump (Model 90074) | WP 0012 00 | | |
| Automotive Valve (Models 90074/91038/WT2008) | WP 0013 00 | | |

OPERATOR MAINTENANCE FOOT BELLOWS (MODELS 91038/WT2008) INSPECTION, REPAIR AND REPLACEMENT

INITIAL SETUP

Materials/Parts

Rag, wiping (Item 2, WP 0030 00) Mandatory Replacement Parts Preformed packing (Item 2, WP 0033 00)

INSPECTION

Hose

- 1. Clean hose (1) with a damp rag.
- 2. Inspect hose (1) for cuts or other damage.
- 3. Inspect male fitting (2) and female fitting (3) for cracks, worn or damaged threads, or other damage.

Foot Bellows

- 1. Clean foot bellows (4) with a damp rag.
- 2. Inspect fitting (5) for cracks, worn or damaged threads, or other damage.
- 3. Inspect bellows (6) for cuts, punctures or other damage.

4. Work the foot bellows (4) up and down to ensure it operates freely and will provide air pressure through the fitting (5).

5. Inspect o-ring (7) for cracks, deterioration or cuts.



REPAIR

- 1. Remove damaged o-ring (7) from foot bellows threaded outlet fitting (5).
- 2. Install new o-ring (7) on foot bellows threaded outlet fitting (5) and test for operation.

REPLACEMENT

1. Replace hose (1) if damaged.

2. If foot bellows (4) is damaged to the extent that it cannot perform its function, the entire foot bellows must be replaced.

OPERATOR MAINTENANCE HAND PUMP (MODEL 90074) INSPECTION, REPAIR AND REPLACEMENT

INITIAL SETUP

| Materials/Parts | Mandatory Replacement Parts | | |
|----------------------|-----------------------------|--|--|
| Rag, wiping | Preformed packing | | |
| (Item 2, WP 0030 00) | (Item 2, WP 0033 00) | | |

INSPECTION

Hose

1. Clean hose (1) with a damp rag.

2. Inspect hose (1) for cuts or other damage.

3. Inspect male fitting (2) and female fitting (3) for cracks, worn or damaged threads or other damage.

Hand Pump

1. Clean hand pump (4) with a damp rag.

2. Inspect fitting (5) for cracks, worn or damaged threads or other damage.

3. Inspect hand pump (4) for punctures or other damage.

4. Work the hand pump (4) up and down to ensure it operates freely and will provide air pressure through the fitting (5).

5. Inspect o-ring (6) for cracks, deterioration or cuts.



REPAIR

- 1. Remove damaged o-ring (6) from hand pump threaded outlet fitting (5)
- 2. Install new o-ring (6) on hand pump threaded outlet fitting (5) and test for normal operation.

REPLACEMENT

1. Replace hose (1) if damaged.

2. If hand pump (4) is damaged to the extent that it cannot perform its function, entire hand pump must be replaced.

3. Replace o-ring (6) if damaged.
OPERATOR MAINTENANCE AUTOMOTIVE VALVE (MODELS 90074/91038/WT2008) REPLACEMENT

INITIAL SETUP

Tools

Tire Valve Tool (Item 1, Table 2, WP 0026 00)

REPLACE

- 1. Remove cap (1) from valve stem (2).
- 2. Remove valve core (3) from valve stem (2).
- 3. Thread new valve core (3) into valve stem (2).
- 4. Install cap (1) onto valve stem (2).



CHAPTER 6

UNIT MAINTENANCE INSTRUCTIONS FOR TANK, WATER STORAGE, 3000 GALLONS

OPERATOR AND UNIT MAINTENANCE INSTRUCTION COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS UNIT REPAIR; TOOLS; SPECIAL TOOLS; TEST, MEASUREMENT AND DIAGNOSTIC EQUIPMENT (TMDE); AND SUPPORT EQUIPMENT

COMMON TOOLS AND EQUIPMENT.

For authorized common tools and equipment, refer to the Modified Table of Organization and Equipment (MTOE) applicable to your unit.

SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT.

For Models 90074, 91038 and WT2008, special tools or TMDE required for operation or maintenance of the collapsible fabric water tank are the tire valve tool and the stitcher (refer to RPSTL, WP 0028 00). Support equipment consists of the repair kit (Table 1, WP 0029 00), foot bellows (WP 0011 00) and the hand pump (WP 0012 00), which are furnished with the tank.

For Models GTA-Z60TPW and 3-K-W-O-A/Z, no special tools or TMDE are required for operation or maintenance of the collapsible fabric water tank. Support equipment consists of the repair kit (Table 1, WP 0029 00) which is furnished with the tank.

REPAIR PARTS.

Repair parts are listed and illustrated in WP 0028 00 of this manual.

OPERATOR AND UNIT MAINTENANCE INSTRUCTION COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS UNIT SERVICE UPON RECEIPT

SITE AND SHELTER REQUIREMENTS.

Choose a site that is free from sharp objects (rocks, sticks, glass, etc.) which could cut or puncture the tank.

WARNING

Serious injury to personnel, or damage to tank may occur if tank is placed over drop offs greater than 4 inches (0.1 meter).

The collapsible fabric water tank may be installed on a slope of up to 10 percent [1 foot (0.3 meter) rise in 10 foot (3 meters) run], but the tank base should not rest over abrupt drop offs greater than 4 inches (0.1 meter).

SERVICE UPON RECEIPT OF MATERIEL.

Inspect the equipment for damage incurred during shipment. If the equipment has been damaged, report the damage in accordance with the instructions of DA PAM 738-750. Marine Corps users refer to MCO P4610.19 and use DD Form 364.

Check the equipment against the packing slip to see if the shipment is complete. Report all discrepancies in accordance with the instructions of DA PAM 738-750. Marine Corps users refer to MCO 44303.

Check to see whether the equipment has been modified.

INSTALLATION INSTRUCTIONS.

Refer to WP 0005 00.

PRELIMINARY SERVICING AND ADJUSTMENT OF EQUIPMENT.

No preliminary servicing or adjustment is required.

UNIT MAINTENANCE COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS PMCS PROCEDURES INTRODUCTION

INTRODUCTION.

There are no PMCS procedures at Unit level.

OPERATOR AND UNIT MAINTENANCE COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS UNIT MAINTENANCE PROCEDURES

GENERAL INSTRUCTIONS

Maintenance instructions in this section will list resources required, personnel required and equipment conditions for start of procedure, except as noted below:

- Personnel required are listed only if the task requires more than one.
- The normal standard equipment condition to start a maintenance task is water tank drained and deflated. EQUIPMENT CONDITION is not listed unless some other condition is required.

EQUIPMENT

MAINTENANCE PROCEDURE

| Tank Assembly | WP 0018 00 |
|--|------------|
| Inflation Valve Assembly (Models 90074/91038) | WP 0019 00 |
| Handle-Toggle (Models 90074/91038) | WP 0020 00 |
| Fill/Discharge Fitting, Female Cam-Lock Coupling | WP 0021 00 |
| Fill/Discharge Fitting, Male Cam-Lock Coupling | WP 0022 00 |
| Ball Valve, Male and Female Cam-Lock Coupling (Models 3-K-W-O-A/Z/GTA-Z60TPW) | WP 0023 00 |

UNIT MAINTENANCE TANK ASSEMBLY REPAIR

INITIAL SETUP

Tools

Stitcher (Item 2, Table 2, WP 0026 00)

Materials/Parts

Repair Kit, Collapsible Tanks and Drums (Item 3, WP 0030 00)

Equipment Conditions

Tank empty and dry (WP 0005 00)

Special Environmental Conditions

Dry ventilated area. Minimum ambient temperature of 41°F (5°C). Maximum relative humidity of 90%.

General Safety Instructions

Observe all WARNINGs and CAUTIONs. Review all Material Safety Data Sheets (Item 15, Table 1)

REPAIR

NOTE

This procedure consists of patching cuts and punctures in the tank fabric. If tank must be put back in immediate service, or materials are not available, perform emergency repairs, WP 0006 00, instead of this task.

There are three methods to repair tank fabric which holds water.

- Preferred Method: Patches are used both inside and outside of tank.
- First Alternate: Single patch on inside of tank.
- Second Alternate: Single patch on outside of tank.

Fabric which does not hold water needs only one exterior patch.

1. Ensure that all components of the repair kit (ROCTAD) are present before starting repair. Refer to Table 1.

2. Provide a smooth, firm surface (table, board, etc.) under the tank fabric to be repaired. Position the protective sheet (Item 12, Table 1) between the area to be repaired and the adjacent tank fabric to prevent the fabric from sticking together.

3. Use repair patch(es) (Item 1, Table 1) in a size required to overlap hole at least 2 inches (5.1 cm) on all sides.

4. If two patches (Item 1, Table 1) are required to cover the hole, make sure the second patch overlaps the first patch by 2 inches (5.1 cm).

| ITEM NO. | DESCRIPTION | QTY |
|----------|--|--------|
| 1 | Coated Fabric Patches | 2 |
| 2 | Scruffing Brush | 1 |
| 3 | Q.D. Surface Conditioner | 2 cans |
| 4 | D & A Fluid Elastomer Base | 2 cans |
| 5 | D & A Fluid Elastomer Solidifier | 2 cans |
| 6 | Mixing stirrer | 1 |
| 7 | Protective Gloves, Disposable, Size Large | 2 pair |
| 8 | Synthetic Bristle Brush, 1 Inch wide | 3 |
| 9 | Cleaning and solvent Cloth | 1 |
| 10 | N.F. Cleaner/Degreaser, 1 pint | 1 can |
| 11 | Application Spatula | 2 |
| 12 | Protective Polyethylene sheet (18 X 18 inch) | 1 |
| 13 | Respirator Mask | 2 |
| 14 | Instruction with step-by-step photographs | 1 |
| 15 | Material safety data sheets, each set has sheets for 4 chemicals | 2 sets |
| 16 | Resealable Bag, Non-Reflective Pan | 1 |
| 17 | Razor Knife | 1 |
| 18 | Mixing Bowl | 2 |

Table 1. Collapsible Fabric Tank and Drums Repair Outfit Components (OF6E1) BOV-USA-1

WARNINGS

The cleaning fluids and adhesives in the repair kit are flammable and toxic to the skin, eyes, and respiratory tract. Skin and eye protection are required. Avoid prolonged breathing of vapors, and minimize skin contact. Protective gloves and respirator masks are part of the repair kit. Good general ventilation is normally adequate. Keep away from excessive heat, open flames, or other sources of ignition. Do not eat, drink, or smoke while using these chemicals.

Do not use the Cleaner/Degreaser near aluminum fittings on the tank. Contact of the Cleaner/Degreaser to aluminum can cause explosives to form. These gases can cause further damage to the tank or injury to personnel.

NOTE

Degreasing tank fabric can result in processing oil and waxes being drawn to the fabric surface. This impairs adhesion of the Fluid Elastomer (adhesive) to the tank fabric. Tank fabric should be tested for compatibility with Cleaner/Degreaser.

- 5. Test the Cleaner/Degreaser (Item 10, Table 1) on a small area of the tank fabric.
 - a. Moisten the cleaning cloth (Item 9, Table1) with a small amount of Cleaner/Degreaser (Item 10, Table 1).
 - b. Rub the cloth on a small area of the tank. If a greasy film appears, skip to step 7. Otherwise, go to step 6.
- 6. Clean the entire area of tank to be patched with Cleaner/Degreaser (Item 10, Table 1).

7. Undercut fine edges of the hole with razor knife (Item 17, Table 1). Scuff the mating surfaces of both the tank and patch(es) with scuffing brush (Item 2, Table 1). Roughened area on tank should extend approximately 1 inch (2.5 cm) on all sides beyond the surface where the patch(es) will be installed.

8. Brush away loose contamination and degrease again if needed.

NOTE

One can of Surface Conditioner should cover approximately 6.5 sq. ft. (0.63 sq. meters). All mixing and application tools should be cleaned immediately after use with Cleaner/Degreaser.

9. Immediately brush a thin, even coat of Surface Conditioner (Item 3, Table 1) onto the area of the tank to be patched. Use the brush (Item 8, Table 1) as a stipple to ensure the thinnest possible film.

NOTE

The touch dry time will be dependent on the ambient temperature and relative humidity. The touch dry time at 68°F (200C) and 50% relative humidity will be 20 to 30 minutes. Overcoating of Surface Conditioner with Fluid Elastomer (adhesive) must take place within 4 hours.

10. Let Surface Conditioner (Item 8, Table 1) set until touch dry before overcoating with mixed Fluid Elastomer (adhesive). Test by lightly touching one knuckle down into Surface Conditioner. Lift slowly. If no conditioner is left on knuckle, it is dry. If a second (outside) patch is to be applied, repeat steps 7 through 10 for outside of tank before going onto step 11.

NOTE

Both the Base and Solidifier components of the Fluid Elastomer must remain sealed until just before application. For best results do not apply the mixed adhesive under the following conditions:

- When the temperature is below 41 °F (5°C)
- When the relative humidity is above 90%
- During rain, snow, fog, or mist
- When there is moisture on the tank surface or moisture is likely to condense on the tank before the adhesive cures.
- When the working environment is likely to be contaminated by oil or grease from adjacent equipment or smoke from kerosene heaters or tobacco smoking.

11. Empty entire contents of one can of the Fluid Elastomer Base (Item 5, Table 1).

12. Shake one can of the Fluid Elastomer Solidifier (Item 5, Table 1). Pour the contents over the Elastomer Base (Item 4, Table 1) in the mixing bowl (Item 18, Table 1).

13. Using the mixing stirrer (Item 6, Table 1), immediately stir the Fluid Elastomer Base (Item 4, Table 1) and Solidifier (Item 5, Table 1). Stir at least 2 minutes to form an adhesive.

NOTE

Use all of the mixed adhesive within the times shown in Table 2.

14. Using one of the brushes (Item 8, Table 1) or the plastic applicator (Item 11, Table 1), apply one even coat of adhesive to the roughened surface of the tank and the prepared patch. The coat of adhesive should be approximately 10 mil. (0.025 cm) thick.

15. Let adhesive set until tacky (approximately 5 to 10 minutes). Test by lightly touching one knuckle into adhesive. Lift slowly. When knuckle lifts fabric briefly, and no adhesive is left on knuckle, it is tacky.

16. Once adhesive is tacky, bring ends of patch together (adhesive side out), and position center of patch onto center of hole as shown.



17. Smooth down patch with edge of hand, one end at a time, so as to avoid any air bubbles.

18. Use a stitcher, or equivalent, to firmly roll down the entire patch, from center of patch out toward edges to prevent formation of air bubbles.

19. If a second patch is being applied, proceed with step 20, below; otherwise proceed to step 22.

NOTE Maximum shelf life of mixed adhesive is given in Table 2. If second patch is to be applied, ensure that it is done within this time limit. Repair will not succeed if mixed adhesive sits too long.

Table 2. Shelf Life of Mixed Adhesive

| Temperature | 41°F (5°C) | 59°F (15°C) | 77°F (25°C) |
|-------------------------|------------|-------------|-------------|
| Use all material Within | 25 minutes | 20 minutes | 10 minutes |

20. Let first patch set for a few minutes (approximately 2 to 3).

21. Repeat steps 14 through 18, above, to apply second (outside) patch. Outside patch must be aligned with inside patch (outline of inside patch will be visible).

22. Allow repair to set until cured before flexing fabric or putting tank back into service. Curing times are given in Table 3.

Table 3. Curing Times for Fabric Repair

NOTE

These times are for a thickness of approximately 0.10 inches (0.25 cm); they will be reduced for thicker sections and extended for thinner sections.

| Temperature | Movement of Use In- volving No Loading Or Immersion | Full Mechanical Or Thermal Loading | Immersion In Chemicals |
|---------------|---|---------------------------------------|---------------------------|
| 41° F (5°C) | 6 hours | 72 hours | 120 hours (5 days) |
| 50° F (10°C) | 4 hours | 48 hours | 84 hours |
| 59° F (15° C) | 3 hours | 48 hours | 72 hours |
| 68° F (20° C) | 2 hours | 24 hours | 60 hours |
| 77° F (25° C) | 1.5 hours | 24 hours | 48 hours |
| 86° F (30° C) | 1 hour | 24 hours | 36 hours |

UNIT MAINTENANCE INFLATION VALVE ASSEMBLY (Models 90074/91038) REPLACEMENT

INITIAL SETUP

Tools

Tool Kit, General Mechanics (Item 3, Table 2, WP 0026 00)

REPLACEMENT

NOTE

For Models 91038 and 90074, there are two inflation valve assemblies: one on the tank collar and one on the cover float.

- 1. Loosen screw (1).
- 2. Unthread and remove valve (2) from flange (3).
- 3. Thread a new valve (2) into flange (3).
- 4. Tighten screw (1).



UNIT MAINTENANCE HANDLE TOGGLE (Models 90074/91038) REMOVAL AND INSTALLATION REPAIR

INITIAL SETUP

Tools

Tool Kit, General Mechanics (Item 3, Table 2, WP 0026 00) Hacksaw Drill, 1/2" Drill bit, 1/2" (Item 4, Table 2, WP 0026 00)

REMOVAL

Handle

1. Untie knot (4).

2. Remove handle (1) from rope (2).

Rope

Pull rope (2) out of base patch (3) on tank, if it is being replaced.

REPAIR

Refer to WP 0031 00, Items 1 and 2 for repair.

CAUTION

Use caution when feeding rope through base patch. Ensure instrument is blunt; otherwise, damage may occur.

INSTALLATION

Rope

Install new rope (2) through holes in base patch (3) on tank by feeding the rope through base patch.



Handle

- 1. Insert ends of rope (2) into holes in handle (1).
- 2. Bring ends of rope (2) together and tie a knot (4) to secure handle (1).
- 3. Push knot (4) into end of handle (1).

UNIT MAINTENANCE FILL/DISCHARGE FITTING, FEMALE CAM-LOCK COUPLING REMOVAL, SERVICE, REPAIR AND INSTALLATION

INITIAL SETUP

Tools

Tool Kit, General Mechanics (Item 3, Table 2, WP 0026 00) Torque Wrench, 0-175 ft-lb (Item 4, Table 2, WP 0026 00)

Materials/Parts

Cleaning Compound (Item 1, WP 0030 00) Rag, Wiping (Item 2, WP 0030 00) Chain (Figure 1, WP 0031 00) Equipment Condition Tank drained (WP 0005 00)

Mandatory Replacement Parts

Gasket, 2 inch (Item 1, WP 0033 00) Gasket, 4 inch Flange (Item 3, WP 0033 00) Gasket, 3.5 Flange (Model 3-K-W-O-A/Z) (Item 4, WP0033 00)

REMOVAL

Dust Plug

- 1. Pull cam-lever arms (2) on coupling (3) out, away from body of coupling (3).
- 2. Remove dust plug (1) from coupling (3).
- 3. Disconnect chain (5) and key ring (6) from coupling (3).
- 4. Disconnect chain (5) and key ring (6) from plug (1).

Gasket

Remove gasket (4) from coupling (3) and discard.

Coupling

Remove the six bolts (7) or eight bolts (7) (Model 3K-W-O-A/Z) and remove coupling (3) from tank. Remove gasket (8) and discard.



SERVICE

- 1. Clean dust plug (1) and coupling (3) with cleaning compound, and rinse thoroughly.
- 2. Inspect dust plug (1) for cracks or breaks.
- 3. If damaged, replace dust plug (1) with new dust plug.
- 4. Inspect chain (5) and key rings (6) for cracks, distortion, or other damage.
- 5. If damaged, replace chain (5) and key rings (6).
- 6. Inspect bolts (7) for damaged threads.
- 7. If damaged, replace bolts (7).

REPAIR

Repair is limited to replacement of damaged components.

INSTALLATION

Coupling

1. Install coupling (3) and new gasket (8) onto tank with six bolts (7), or eight bolts (7) (Model 3-K-W-O-A/Z).

2. Torque to 15 to 20 ft-lb.

Gasket

- 1. Install new gasket (4) into coupling (3).
- 2. Make sure gasket (4) is properly seated in groove.

Dust Plug

- 1. Connect chain (5) and key ring (6) to dust plug (1).
- 2. Connect chain (5) and key ring (6) to coupling (3).
- 3. Pull cam-lever arms (2) on coupling (3) outward, away from body of coupling (3).
- 4. Install dust plug (1) in coupling (3).
- 5. Push cam-lever arms (2) on coupling (3) inward toward body of coupling until they lock.

UNIT MAINTENANCE FILL/DISCHARGE FITTING, MALE CAM-LOCK COUPLING REMOVAL, SERVICE, REPAIR AND INSTALLATION

INITIAL SETUP

Tools

Tool Kit, General Mechanics (Item 3, Table 2, WP 0026 00) Torque Wrench (Item 4, Table 2, WP 0026 00)

Materials/Parts

Cleaning Compound (Item 1, WP 0030 00) Rag, Wiping (Item 2, WP 0030 00) Chain (Figure 1, WP 0031 00) Equipment Condition Tank drained (WP 0005 00)

Mandatory Replacement Parts Gasket, 2 inch (Item 1, WP 0033 00) Gasket, 4inch Flange (Item 3, WP 0033 00 Gasket, 3.5 Flange (Model 3-K-W-O-A/Z only) (Item 4, WP 0033 00)

REMOVAL

Dust Plug

- 1. Pull cam-lever arms (2) on coupling (3) out, away from body of coupling (3).
- 2. Remove dust plug (1) from coupling (3).
- 3. Disconnect chain (5) and key ring (6) from coupling (3).
- 4. Disconnect chain (5) and key ring (6) from cap (1).



Gasket

Remove gasket (4) from coupling (3) and discard.

Coupling

Remove six bolts (7) or eight bolts (7) (Model 3-K-W-O-A/Z), and remove coupling (3) from tank. Remove gasket (8) and discard.

SERVICE

- 1. Clean dust cap (1) and coupling (3) with cleaning compound, and rinse thoroughly.
- 2. Inspect dust cap (1) for cracks or breaks.
- 3. If damaged, replace dust cap (1) with new dust cap.
- 4. Inspect chain (5) and key rings (6) for cracks, distortion or other damage.
- 5. If damaged, replace chain (5) and key rings (6).
- 6. Inspect bolts (7) for damaged threads.
- 7. If damaged, replace bolts (7).

REPAIR

Repair is limited to replacement of damaged components.

INSTALLATION

Coupling

1. Install coupling (3) and new gasket (8) onto tank with six bolts (7), or eight bolts (7) (Model 3-K-W-O-A/Z).

2. Torque to 15 to 20 ft-lb.

Gasket

- 1. Install new gasket (4) into dust cap (1).
- 2. Make sure gasket (4) is properly seated in groove.

Dust Plug

- 1. Connect chain (5) and key ring (6) to dust cap (1).
- 2. Connect chain (5) and key ring (6) to coupling (3).
- 3. Pull cam-lever arms (2) on dust cap (1) outward and away from chain (5).
- 4. Install dust cap (1) onto end of coupling (3).
- 5. Pull cam-lever arms (2) upward and inward toward dust cap (1) until they lock.

UNIT MAINTENANCE BALL VALVE, MALE AND FEMALE CAM-LOCK COUPLINGS (Models 3-K-W-O-A/Z/GTA-Z60TPW) REMOVAL, SERVICE, REPAIR AND INSTALLATION

INITIAL SETUP

Tools

Tool Kit, General Mechanics (Item 3, Table 2, WP 0026 00)

Materials/Parts

Cleaning Compound (Item 1, WP 0030 00) Rag, Wiping (Item 2, WP 0030 00) Chain (Figure 1, WP 0031 00) Equipment Condition Tank drained (WP 0005 00)

REMOVE

Dust Cap

1. Pull cam-lever arms (1) on dust cap (2) out, away from body of cap (2).

2. Remove dust cap (2) from coupling (3).

3. Disconnect chain (4) and key ring (5) from dust cap (2).



Coupling

Unthread coupling (3) from ball valve (6).

Dust Plug

- 1. Pull cam-lever arms (7) on coupling (8) out, away from body of coupling (8).
- 2. Remove dust plug (9) from coupling (8).
- 3. Disconnect chain (10) and key ring (11) from plug (9).

SERVICE/INSPECT

1. Clean dust cap (2), dust plug (9), couplings (3 and 8) and ball valve (6) with cleaning compound, and rinse thoroughly.

- 2. Inspect dust cap (2), dust plug (9), and couplings (3 and 8) for cracks or breaks.
- 3. If damaged, replace.
- 4. Inspect ball valve (6) for cracks, breaks or frozen valve.
- 5. If damaged, replace.
- 6. Inspect chains (4 and 10) and key rings (5 and 11) for cracks, distortion, or other damage.
- 7. If damaged, replace.

REPAIR

Repair is limited to replacement of damaged components.

INSTALLATION

Coupling

Thread coupling (8) into ball valve (6) and tighten.

Dust Plug

- 1. Connect chain (10) and key ring (11) to dust plug (9).
- 2. Pull cam-lever arms (7) on coupling (8) outward, away from body of coupling (8).
- 3. Install dust plug (9) in coupling (8).
- 4. Push cam-lever arms (7) on coupling (8) inward toward body of coupling until locked.

Coupling

Thread coupling (3) into ball valve (6) and tighten.

Dust Cap

- 1. Connect chain (4) and key ring (5) to dust cap (2).
- 2. Pull cam-lever arms (1) on dust cap (2) outward and away from body of dust cap (2).
- 3. Install dust cap (2) onto end of coupling (3).
- 4. Pull cam-lever arms (1) upward and inward toward dust cap (2) until locked.

UNIT MAINTENANCE PREPARATION FOR STORAGE OR SHIPMENT

PRESERVATION PROCEDURES FOR STORAGE OR SHIPMENT

1. Drain all water from the tank (WP 0005 00).

CAUTION

Make sure tank is completely dry before storing. Water will create mildew, decreasing the life of the tank if it is not completely dry.

2. Clean and dry the tank (WP 0005 00).

3. Models 90074, 91038 and WT2008, make sure all inflation valves (WP 0004 00) are open.

CRATING INSTRUCTIONS

1. Make sure tank has been properly folded (WP 0005 00).

CAUTION

Use care when packing the tank. Tank will be easily damaged by tools, packing box nails, or other sharp objects.

2. Tank will be packed in a close-fitting box or container. When tank is disassembled and refolded, it is to be replaced in the original box or container.

3. Each tank is provided with suitable packing around the tank to prevent the tank fabric from being damaged by contact with the inside of the box or container. When tank is replaced in original box or container, the packing material is replaced around the tank in the same manner as received.

ADMINISTRATIVE STORAGE

1. 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.

2. Before placing the equipment in administrative storage, current preventive maintenance checks and services should be completed, shortcomings and deficiencies should be corrected, and all Modification Work Orders (MWO) should be applied.

3. 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. Refer to WP 0002 00 for ambient storage temperature range.

CHAPTER 7

SUPPORTING INFORMATION FOR TANK, WATER STORAGE, 3000 GALLONS

OPERATOR AND UNIT MAINTENANCE COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS REFERENCES

REFERENCES

This work package lists all forms, field manuals, technical manuals and miscellaneous publications referenced in this manual.

| MAINTENANCE | |
|---------------------|---|
| AR 700-138 | Army Logistics Readiness and Sustainability. |
| DA PAM 738-750 | The Army Maintenance Management Systems (TAMMS) |
| DA PAM 738-751 | Functional Users Manual for TAMMS |
| MCO 1650.17 | Marine Corps Military Incentive Awards Program |
| NAVMAC 10772 | Recommended Changes to Publications |
| TM 4700-15/1 | Equipment Record Procedures |
| TM 750-244-3 | Destruction of Equipment to Prevent Enemy Use |
| FORMS | |
| DA Form 2028 | Recommended Changes to Publications and Blank Forms |
| DA Form 2404 | Equipment Inspection and Maintenance Worksheet |
| SF Form 364 | Report of Discrepancy |
| SF Form 368 | Quality Deficiency Report |
| FIELD MANUALS | |
| FM 21-11 | First Aid |
| FM-3, FM-4, FM-5 | Detailed Decontamination Procedures |
| MISCELLANEOUS | |
| SB 740-99-1 | Storage Serviceability Standard |
| CTA 50-790 | Expendable/Durable Items (except medical, Class V repair parts, and heraldic items) |
| CTA 8-100 | Army Medical Dept. Expendable/Durable Items |
| END OF WORK PACKAGE | |
OPERATOR AND UNIT MAINTENANCE COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS MAINTENANCE ALLOCATION CHART

MAINTENANCE ALLOCATION CHART (MAC)

The Army Maintenance System MAC

This introduction provides a general explanation of all maintenance and repair functions authorized at various maintenance levels under the standard Army/Marine Corps Maintenance System concept.

The MAC (immediately following the introduction) 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 shall be consistent with the capacities and capabilities of the designated maintenance levels, which are shown on the MAC in column (4) as:

Unit - includes two subcolumns, C (operator/crew) and O (unit) maintenance.

Direct Support – includes an F subcolumn.

General Support – includes an H subcolumn.

Depot – includes a D subcolumn.

The tools and test equipment requirements (immediately following the MAC) list the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from the MAC.

The remarks (immediately following the tools and test equipment requirements) contain supplemental instructions and explanatory notes for a particular maintenance function.

Maintenance Functions

Maintenance functions will be limited to and defined as follows:

1. <u>Inspect</u> - 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.

2. <u>Test</u> - To verify serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with prescribed standards.

3. <u>Service</u> - Operations required periodically to keep an item in proper operating condition: e.g., to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, hydraulic fluids, or gases.

4. <u>Adjust</u> - To maintain or regulate, within prescribed limits, by bringing into proper position, or by setting the operating characteristics to specified parameters.

5. Align - To adjust specified variable elements of an item to bring out optimum or desired performance.

6. <u>Calibrate</u> - To determine and cause corrections to be made or to be adjusted on instruments or test, measuring, and diagnostic equipment 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.

7. <u>Remove/Install</u> - 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 equipment or system.

8. <u>Replace</u> - To remove an unserviceable item and install a serviceable counterpart in its place. "Replace" is_authorized by the MAC and assigned maintenance level is shown as the 3rd position code of the SMR code.

9. <u>Repair</u> - 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.

10. <u>Overhaul</u> - 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 material maintenance preformed by the Army. Overhaul does not normally return an item to like new condition.

11. <u>Rebuild</u> - 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.

Columns In The MAC Table 1.

1. Column 1, Group Number, 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."

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

3. Column 3, Maintenance Functions, lists the functions to be performed on the item listed in Column 2.

4. Column 4, Maintenance Level, specifies each level of maintenance authorized to perform each function listed in Column 3, by indicating work time required (expressed as man-hours in whole hours or decimals) in the appropriate subcolumn. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance levels, appropriate work-time figures will be shown for each level. 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 time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the MAC.

5. Column 5, Tools and Test Equipment, specifies, by code, required tool and test equipment requirements.

6. Column 6, Remarks, when applicable, contains a letter code, in alphabetical order.

Explanation of Columns In Table 2. Tool and Test Equipment Requirements

1. Column 1, Reference Code correlates with a code used in the MAC, Column 5.

2. Column 2, Maintenance Level is the lowest level of maintenance authorized to use the tool or test equipment.

3. Column 3, Nomenclature, names or identifies the tool or test equipment.

4. Column 4, National Stock Number of the tool or test equipment.

5. Column 5, Tool Number is the manufacturer's part number, model number, or type number.

Explanation of Columns In Table 3. Remarks

1. Column 1, Remarks Code is recorded in Column 6 of Table 1.

2. Column 2, Remarks, lists information pertinent to the maintenance function being performed as indicated in the MAC Table 1.

| (1) | (2) | (3) | | (4) Maintenance Level | | | | (5) | (6) |
|-----------------|---|------------------------------|-------------------|--------------------------|----|----|-------|------------------------|---------|
| Group Number | Component /Assembly | Maint. Function | Unit | | DS | GS | Depot | Tools and Equipment | Remarks |
| | | | С | 0 | F | н | D | | |
| 00 | TANK, FABRIC, COLLAPSIBLE WATER ASSY. | | | | | | | | |
| 01 | TANK ENVELOPE | Inspect Repair | 0.5 0.5 | 1.5 | | | | 2 | A |
| 0101 | HANDLE- TOGGLES | Inspect Repair | 0.1 | 0.5 | | | | 3,4 | |
| 0102 | FLUID DIS- CHARGE FITTINGS, 2" | Inspect Repair | 0.2 | 0.5 | | | | 3,4 | |
| 0103 | VALVE, AUTOMOTIVE | Inspect Replace | 0.1 | 0.2 | | | | 1 | |
| 0104 | VALVE, BALL, 2" | Inspect Repair | | 0.2 0.1 | | | | 3,4 | |
| 02 | COVER AND FLOAT | Inspect Replace Repair | 0.1 0.1 | 1.0 | | | | 2 | |
| 03 | ACCESSORY ITEMS | Inspect Replace Repair | 0.1 0.1 0.1 | | | | | | |

Table 1. MAC for Fabric Tank, Water Storage, 3000 Gallons

Table 2. Tools and Test Equipment for Fabric Tank, Water Storage, 3000 Gallons

| Tool or Test Equipment Ref Code | Maintenance Level | Nomenclature | National Stock Number | Tool Number |
|---------------------------------------|----------------------|---|--------------------------|------------------------------|
| 1 | С | Tire Valve Tool | 5120-00-308-3809 | GA143A (CAGE: 55719) |
| 2 | 0 | Stitcher | 5120-00-293-0392 | MIL-S-45179 (CAGE: 81349) |
| 3 | О | Tool Kit, General Mechanics | 5180-00-177-7033 | SC5180-90-CL- N26 |
| 4 | Ο | Shop Equipment, Automotive Maint. & Repair; Organizational Maint. Common No. 1 | 4910-00-754-0654 | SC4910-95-CL- A74-HR |

| Remarks Code | Remarks |
|-----------------|--|
| A | Repair on tank envelope limited to the extent of emergency repairs (WP 0006 00). |

Table 3. Remarks for Fabric Tank, Water Storage, 3000 Gallons

END OF WORK PACKAGE

UNIT MAINTENANCE COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS INTRODUCTION

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, maintenance of the Tank. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the source, maintenance and recoverability (SMR) codes.

GENERAL

In addition to the Introduction work package, this RPSTL is divided into the following work packages:

1. Repair Parts List Work Packages. Work packages containing lists of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. These work packages also include 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 in FIG. BULK at the end of the work packages. Repair parts kits are listed separately in their own functional group and work package. Repair parts for reparable special tools are also listed in a separate work package. Items listed are shown on the associated illustrations.

2. Special Tools List Work Packages. Work packages containing lists of special tools, special TMDE, and special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in the DESCRIPTION AND USABLE ON CODE (UOC) column). Tools that are components of common tool sets and/or Class VII shall not be listed.

3. Cross-Reference Indexes Work Packages. There are two cross-reference indexes work packages in this RPSTL: the National Stock Number (NSN) Index work package and the Part Number (P/N) Index work package. The National Stock Number Index work package refers you to the figure and item number. The Part Number Index work package refers you to the figure and item number.

EXPLANATION OF COLUMNS IN THE REPAIR PARTS LIST AND SPECIAL TOOLS LIST WORK PACKAGES

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

SMR Code (Column (2)). The SMR code containing supply/requisitioning information, maintenance level authorization criteria, and disposition instruction, as shown in the following breakout:

| Source <u>Code</u> | Maintenance <u>Code</u> | | Recoverability Code |
|---|--|--|---|
| xx | xx | - | X |
| 1 st two positions: How to get an item. | 3 rd position: Who can install, replace or use the item. | 4 th position: Who can do complete repair* on the item. | 5 th position: Who determines disposition action on unserviceable items. |

^{*}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.

Source Code. The source code tells you how you get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follow.

| Source Code | Application/Explanation |
|---|--|
| PA PB PC PD PE PF | Stocked items; use the applicable NSN to request/requisition items with these source codes. They are authorized to the level indicated by the code entered in the 3rd position of the SMR code. |
| PG | 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 level indicated in the 3rd position of the SMR code. The complete kit must be requisitioned and applied. |
| MO-Made at unit/ AVUM level MF-Made at DS/ AVIM level MH-Made at GS level ML-Made at 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 P/N in the DESCRIPTION AND USABLE ON CODE (UOC) column and list in the bulk material group work package of the 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 higher level, order the item from the higher level of maintenance. |
| AO-Assembled by unit/AVUM level AF-Assembled by DS/AVIM level AH-Assembled by GS level 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 of the SMR code, authorizes you to replace the item, but the source code indicates the item is assembled at a higher level, order the item from the higher level of maintenance. |
| XA | Do not requisition an "XA" coded item. Order the next higher assembly. (Refer to the NOTE below.) |
| ХВ | If an item is not available from salvage, order it using the CAGEC and P/N. |
| XC | Installation drawings, diagrams, instruction sheets, field service drawings; identified by manufacturer's P/N. |
| XD | Item is not stocked. Order an XD-coded item through normal supply channels using the CAGEC and P/N given, if no NSN is available. |

NOTE

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

Maintenance Code. Maintenance codes tell 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:

Third Position. 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 the following levels of maintenance.

| Maintenance Code | | Application/Explanation |
|---------------------|--|--|
| С | | Crew or operator maintenance done within unit/AVUM maintenance. |
| 0 | | Unit level/AVUM maintenance can remove, replace, and use the item. |
| F | | Direct support/AVIM maintenance can remove, replace, and use the item. |
| Н | | General support maintenance can remove, replace, and use the item. |
| L | | Specialized repair activity can remove, replace, and use the item. |
| D | | Depot can remove, replace, and use the item. |

Fourth Position. 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 (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.

| Mainte Code | nance | Application/Explanation |
|----------------|-------|---|
| 0 | | Unit/AVUM is the lowest level that can do complete repair of the item. |
| F | | Direct support/AVIM is the lowest level that can do complete repair of the item. |
| н | | 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. |
| В | | No repair is authorized. No parts or special tools are authorized for maintenance of a "B" coded item. However, the item may be reconditioned by adjusting, lubricating, etc., at the user level. |

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:

| Recove <u>Codes</u> | erability | Application/Explanation | | | | | |
|------------------------|-----------|---|--|--|--|--|--|
| Z | | Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in the third position of the SMR Code. | | | | | |
| 0 | | Reparable item. When uneconomically reparable, condemn and dispose of the item at the unit level. | | | | | |
| F | | Reparable item. When uneconomically reparable, condemn and dispose of the item at the direct support level. | | | | | |
| Н | | 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 are 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 (such as precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions. | | | | | |

NSN (Column (3)). The NSN for the item is listed in this column.

CAGEC (Column (4)). The Commercial and Government Entity Code (CAGEC) is a five-digit code which is used to identify the manufacturer, distributor, or Government agency/activity that supplies the item.

PART NUMBER (Column (5)). 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 P/N from the number listed.

DESCRIPTION AND USABLE ON CODE (UOC) (Column (6). This column includes the following information:

- 1. The federal item name and, when required, a minimum description to identify the item.
- 2. P/Ns of bulk materials are referenced in this column in the line entry to be manufactured or fabricated.
- 3. Hardness Critical Item (HCI). A support item that provides the equipment with special protection from electromagnetic pulse (EMP) damage during a nuclear attack.
- 4. The statement END OF FIGURE appears just below the last item description in Column (6) for a given figure in both the repair parts list and special tools list work packages.

QTY (Column (7)). 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 instead of a quantity indicates that the quantity is variable and quantity may change from application to application.

EXPLANATION OF CROSS-REFERENCE INDEXES WORK PACKAGES FORMAT AND COLUMNS

1. National Stock Number (NSN) Index Work Package.

STOCK NUMBER Column. This column lists the NSN in National item identification number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN.

| NSN | When using this column to locate an item, |
|--------------------------|---|
| (e.g., 5385-01-574-1476) | ignore the first four digits of the NSN. However, the |
| NIN | complete NSN should be used when ordering items |
| | by stock number. |

FIG. Column. This column lists the number of the figure where the item is identified/located. The figures are in numerical order in the repair parts list and special tools list work packages.

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.

2. Part Number (P/N) Index Work Package. P/Ns in this index are listed in ascending alphanumeric sequence (vertical arrangement of letter and number combinations 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).

PART NUMBER Column. Indicates the P/N assigned to the item.

FIG. Column. This column lists the number of the figure where the item is identified/located in the repair parts list and special tools list work packages.

ITEM Column. The item number is the number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

SPECIAL INFORMATION

UOC. The UOC appears in the lower left comer of the Description Column heading. Usable on codes are shown as "UOC:.." in the Description Column (justified left) on the first line under the applicable item/ nomenclature. Uncoded items are applicable to all models. Identification of the UOCs used in the RPSTL are:

| <u>Code</u> | <u>Used On</u> |
|-------------|-------------------|
| FFX | Model 90074 |
| ZZZ | Model 91038 |
| - | Model WT2008 |
| G3K | Model GTA-Z60TPW |
| R3K | Model 3-K-W-O-A/Z |

Fabrication Instructions. Bulk materials required to manufacture items are listed in the bulk material functional group of this RPSTL. Part numbers for bulk material are also referenced in the Description Column of the line item entry for the item to be manufactured/fabricated. Detailed fabrication instructions for items source coded to be manufactured or fabricated are found in this manual.

Index Numbers. Items which have the word BULK in the figure column will have an index number shown in the item number column. This index number is a cross-reference between the NSN / P/N index work packages and the bulk material list in the repair parts list work package.

Illustrations List. The illustrations in this RPSTL contain unit authorized items.

HOW TO LOCATE REPAIR PARTS.

1. When NSNs or P/Ns Are Not Known.

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

Second. Find the figure covering the functional group or the subfunctional group to which the item belongs.

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

Fourth. Look in the repair parts list work packages for the figure and item numbers. The NSNs and part numbers are on the same line as the associated item numbers.

2. When NSN Is Known.

First. If you have the NSN, look in the STOCK NUMBER column of the NSN index work package. The NSN is arranged in NIIN sequence. Note the figure and item number next to the NSN.

Second. Turn to the figure and locate the item number. Verify that the item is the one you are looking for.

3. When P/N Is Known.

First. If you have the P/N and not the NSN, look in the PART NUMBER column of the P/N index work package. Identify the figure and item number.

Second. Look up the item on the figure in the applicable repair parts list work package.

END OF WORK PACKAGE

COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS

ONION TANK

REPAIR PARTS LIST



Figure 1. Onion Tank

| | TM 10-5430-237-12&P | | | | | | |
|-------------|---------------------|------------------|-------|----------------|--|--------|--|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | |
| ITEM NO. | SMR CODE | NSN | CAGEC | PART NUMBER | DESCRIPTION AND USABLE ON CODE (UOC) | QTY | |
| | | | | | GROUP 01 | | |
| | | | | | FIG. 1 ONION TANK | | |
| 1 | PDOOO | | 05476 | 90075 | TANK, ONION UOC: FFX, ZZZ | 1 | |
| 2 | XAOOO | | 05476 | 90033 | .HANDLE ASSEMBLY, TOGGEL UOC: FFX, ZZZ | 10 | |
| 3 | MOOZZ | | 05476 | 90033-4 | PIPE, PLASTIC MAKE FROM P/N 1404 UOC: FFX, ZZZ | 1 | |
| 4 | MOOZZ | | 05476 | 90033-3 | ROPE NYLON MAKE FROM P/N 3828T13 UOC: FFX, ZZZ | l 1 | |
| 5 | PAOZZ | 5305-00-059-8235 | 96906 | MS35214-10 | .SCREW, MACHINE UOC: FFX, ZZZ | 1 | |
| 6 | PAOZZ | 4220-01-430-7265 | 96906 | MS22054-3 | .VALVE, PNEUMATIC INF UOC: FFX, ZZZ | 1 | |
| 7 | PAOZZ | 2640-01-098-2029 | 27783 | 660 | .CAP, PNEUMATIC VALVE UOC: FFX, ZZZ | 1 | |
| 8 | PAOZZ | 2640-00-060-3543 | 96906 | MS51377-2 | .VALVE CORE UOC: FFX, ZZZ | 1 | |

COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS

ONION TANK (Model GTA-Z60TPW)

REPAIR PARTS LIST



Figure 2. Tank, Self-Supporting; Model GTA-Z60TPW

| | TM 10-5430-237-12&P | | | | | |
|-------------|---------------------|-----|-------|---------------------|--|-----|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| ITEM NO. | SMR CODE | NSN | CAGEC | PART NUMBER | DESCRIPTION AND USABLE ON CODES (UOC) | QTY |
| | | | | | GROUP 01 | |
| | | | | | FIG. 2 TANK, SELF-SUPPORTING | |
| 1 | PDOOO | | 0CBB4 | GTA-03- OT/PW-01 | TANK, SELF-SUPPORTING, 3,000 GAL. UOC: G3K | 1 |

COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS

ONION TANK (3-K-W-O-A/Z)

REPAIR PARTS LIST



Figure 3. Tank, Onion; Model 3-K-W-O-A/Z

| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
|-----|-----|-----|-----|-----|-----|-----|
| | | | | | | |

0028 00-6

0028 00

| ITEM NO. | SMR CODE | NSN | CAGEC | PART NUMBER | DESCRIPTION AND USABLE ON CODE (UOC) | QTY |
|-------------|-------------|------------------|-------|--------------------|---|-----|
| | | | | | GROUP 01 | |
| | | | | | FIG. 3 ONION TANK | |
| 1 | PDOOO | | 1DFDO | 3-K-W-O-A-Z | TANK, ONION UOC: R3K | 1 |
| 2 | PBOZZ | 4730-00-915-5127 | 96906 | MS27029-11 | PLUG, QUICK DISCONN 2 IN UOC: R3K | 3 |
| 3 | MOOZZ | | 63711 | CH80 | .CHAIN, 8 IN MAKE FROM P/N 3607T77 | 1 |
| 4 | PBOZZ | 4730-00-649-9100 | 96906 | MS27028-11 | DUST CAP, 2 IN UOC: R3K | 3 |
| 5 | MOOZZ | | 63711 | CH80 | .CHAIN, 8 IN MAKE FROM P/N 3607T77 | 1 |
| 6 | PCOZZ | 5330-00-612-2414 | 96906 | MS27030-6 | .GASKET, 2 IN 1 | |
| 7 | PBOZZ | | 10068 | 00020 | FLANGED COUPLER, FEMALE UOC: R3K | 1 |
| 8 | PAOZZ | | OA6K1 | 5030 | HEX HEAD CAP SCREW UOC: R3K | 16 |
| 9 | PCOZZ | | 1DFDO | 9014 | GASKET, 3.5 IN UOC: R3K | . 2 |
| 10 | PBOZZ | | 10068 | 00019 | FLANGED COUPLER, FEMALE UOC: R3K | 1 |
| 11 | XBOZZ | | 1DFDO | 3-K-W-GC/ V-O-A | GROUND CLOTH/VALISE UOC: R3K | 1 |
| 12 | PBOZZ | 4730-00-938-7997 | 96906 | MS27022-11 | COUPLING HALF, QUICK UOC: R3K | . 2 |
| 13 | PBOZZ | 4730-00-088-9285 | 96906 | MS27026-11 | COUPLING HALF, QUICK UOC: R3K | . 2 |
| 14 | XBOZZ | | 63711 | 32-108-01 | BALL VALVE, 2 IN UOC: R3K | . 2 |

COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS

FILL/DISCHARGE FITTINGS

REPAIR PARTS LIST



Figure 4. Fill/Discharge Fittings

| | TM 10-5430-237-12&P | | | | | |
|-------------|---------------------|------------------|----------------|---------------------|--|-----|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| ITEM NO. | SMR CODE | NSN | CAGEC | PART NUMBER | DESCRIPTION AND USABLE ON CODE (UOC) | QTY |
| | | | | | GROUP 01 | |
| | | | | | FIG. 4 FILL/DISCHARGE FITTINGS | |
| 1 | PBOZZ | 4730-00-649-9100 | 96906 10068 | MS27028-11 | CAP, QUICK DISCONNEC, MARINE CORPS SMR IS PAOOZ | 1 |
| 2 | PCOZZ | 5330-00-612-2414 | 96906 0A6K1 | MS27030-6 | .GASKET MARINE CORPS SMR IS PAOZZ | 1 |
| 3 | MOOZZ | | 19099 | RRC271 TYPE II C | .CHAIN MAKE FROM P/N 838238-00, CUT T0 LENGTH | 1 |
| 4 | PAOZZ | 5740-01-177-8975 | 39428 | 90177A218 | .HOLDER, KEY | 1 |
| 5 | PBOZZ | 5305-00-071-2241 | 80204 8J592 | MS90725-10 367Z | BOLT HEX HD ¼ IN MARINE CORPS SMR IS PAOZZ | 16 |
| 6 | PBOZZ | 4730-01-186-0816 | 96906 | MS27023-11 | COUPLING HALF, QUICK MARINE CORPS SMR IS PAOZZ UOC: FFX, G3K | . 1 |
| 6 | XDOZZ | | 05476 | 90034 | COUPLING HALF, QUICK MARINE CORPS SMR IS PAOZZ UOC: ZZZ | 1 |
| 7 | PBOZZ | 4730-00-915-5127 | 96906 10068 | MS27029-11 | PLUG, QUICK DISCONNEC MARINE CORPS SMR IS PAOOZ | 1 |
| 8 | MOOZZ | | 19099 | RRC271 TYPE II C | .CHAIN MAKE FROM P/N 3607T77, CUT L3 TR35 TO LENGTH | 1 |
| 9 | PAOZZ | 5740-01-177-8975 | 39428 | 90177A218 | .HOLDER, KEY | 1 |
| 10 | PBOZZ | 4730-01-186-0818 | 96906 10068 | MS27027-11 | COUPLING HALF, QUICK MARINE CORPS SMR IS PAOZZ UOC: FFX, G3K | . 1 |
| 10 | XDOZZ | | 05476 | 90035 | COUPLING HALF, QUICK MARINE CORPS SMR IS PAOZZ UOC: ZZZ | 1 |
| 11 | PCOZZ | 5330-00-612-2414 | 96906 | MS27030-6 | .GASKET MARINE CORPS SMR IS PAOZZ | 1 |
| 12 | PCOZZ | | 0CBB4 | 62069-1 | GASKET, FLANGE 4 IN END OF FIGURE | 2 |

COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS

FLOATING BALL AND COVER VALISE

REPAIR PARTS LIST



NOTE: P/Ns 90032-4 and 90079-1 shown. Others similar.



| | TM 10-5430-237-12&P | | | | | |
|-------------|---------------------|-----------------|-------|----------------|--|-----|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| ITEN NO. | I SMR CODE | NSN | CAGEC | PART NUMBER | DESCRIPTION AND USABLE ON CODE (UOC) | QTY |
| | | | | | GROUP 02 COVER AND FLOAT | |
| | | | | | FIG. 5 FLOATING BALL AND COVER VALISE | |
| 1 | PBOOO 8 | 465-01-438-6039 | 05476 | 90032-4 | COVER, VALISE FLOAT MARINE CORPS SMR IS PAOZZ UOC: FFX | 1 |
| 1 | XDOZZ | | 05476 | 90032-1 | COVER, VALISE FLOAT MARINE CORPS SMR IS PAOZZ UOC: ZZZ | 1 |
| 2 | PBOOZ 54 | 430-01-437-9650 | 05476 | 90079-1 | .BALL, FLOTATION MARINE CORPS SMR IS PAOZZ UOC: FFX | 1 |
| 2 | XDOZZ | | 05476 | 90032 | .BALL, FLOTATION MARINE CORPS SMR IS PAOZZ UOC: ZZZ | 1 |
| 3 | PAOZZ 53 | 305-00-059-8235 | 96906 | MS35214-10 | SCREW, MACHINE | 1 |
| 4 | PAOZZ 42 | 20-01-430-7265 | 96906 | MS22054-3 | VALVE, PNEUMATIC IN UOC: | 1 |
| 5 | PAOZZ 26 | 640-01-098-2029 | 27783 | 660 | CAP, PNEUMATIC VALVE | 1 |
| 6 | PAOZZ 26 | 640-00-060-3543 | 96906 | MS51377-2 | VALVE CORE UOC: | 1 |



Figure 6. Cover, Model GTA-Z60TPW

| | | | TM 10-5 | 430-237-12&P | | 0028 00 |
|-------------|-------------|-----|---------|---------------------|--|---------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| ITEM NO. | SMR CODE | NSN | CAGEC | PART NUMBER | DESCRIPTION AND USABLE ON CODES (UOC) | QTY |
| | | | | | GROUP 02 COVER | |
| | | | | | FIG. 6 COVER, MODEL GTA- Z60TPW | |
| 1 | PDOOO | | 0CBB4 | GTA-03- OT/PW-02 | COVER, SEALABLE | 1 |
| | | | | | END OF FIGURE | |

COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS

AIR PUMP AND REPAIR ITEMS

REPAIR PARTS LIST





Figure 7. Air Pump and Repair Items

| | | | TM 10 |)-5430-237-12&F | | 0028 00 |
|-------------|-------------|------------------|-------|-----------------|--|---------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| ITEM NO. | SMR CODE | NSN | CAGEC | PART NUMBER | DESCRIPTION AND USABLE ON CODE (UOC) | QTY |
| | | | | | GROUP 03 ACCESSORY ITEMS | |
| | | | | | FIG. 7 AIR PUMP AND REPAIR ITEMS | |
| 1 | PBOOO | 4320-01-406-4900 | 77230 | 1095 | PUMP, INFLATING-DEFLA MARINE CORPS SMR IS PAOZZ UOC: FFX | 1 |
| 2 | PBOZZ | 4720-01-388-8477 | 77230 | PM6211-4 | .HOSE ASSEMBLY, NONME MARINE CORPS SMR IS PAOZZ UOC: | 1 |
| 3 | PBOZZ | 5331-00-248-3839 | 96906 | MS9021-111 | .O-RING MARINE CORPS SMR IS PAOZZ UOC: | 1 |
| 4 | PAOZZ | 5340-00-720-8864 | 81336 | 13202E2870-1 | PATCH, MECHANICAL, FL UOC: | 4 |
| 5 | PAOZZ | 5340-00-720-8863 | 81336 | 13202E2870-2 | PATCH, MECHANICAL, FL UOC: | 2 |
| 6 | PAOZZ | 5340-00-720-8858 | 81336 | 13202E2870-3 | PATCH, MECHANICAL,FL UOC: | 2 |
| 7 | PAOZZ | 5510-00-255-9493 | 97403 | 13211E3085 | PLUG, WOOD 3 IN UOC: | 2 |
| 8 | PAOZZ | 5510-00-255-9492 | 97403 | 13211E3084 | PLUG, 5 1N UOC: | 2 |
| 9 | XBOZZ | 7610-01-122-3771 | 81349 | M52255FIG6 | SHEET, TECHNICAL UOC: | 2 |
| 10 | PCOZZ | 5330-00-612-2414 | 96906 | MS27030-6 | GASKET MARINE CORPS SMR IS PAOZZ UOC: | 2 |



Figure 8. Repair Items, for GTA-Z60TPW

| TM 10-5430-237-12&P | | | | | | |
|---------------------|-------------|------------------|-----------|----------------|--|----------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| ITEM NO. | SMR CODE | NSN | CAG EC | PART NUMBER | DESCRIPTION AND USABLE ON CODES (UOC) | QTY |
| | | | | | | |
| | | | | | GROUP 03 ACCESSORY ITEMS | |
| | | | | | FIG. 8 REPAIR ITEMS, GTA-Z60TPV | V |
| 1 | XBOZZ | | 84583 | 52255-005 | INSTRUCTIONS LAMINA | . 1 |
| 2 | PAOZZ | 5430-00-720-8858 | 81336 | 13202E2870-3 | PATCH MECHANICAL, | 2 |
| 3 | PAOZZ | 5430-00-720-8863 | 81336 | 13202E2870-2 | PATCH, MECHANICAL | |
| 4 | PAOZZ | 5430-00-720-8864 | 81336 | 13202E2870-1 | PATCH MECHANICAL, | . 1 |
| 5 | PAOZZ | 5510-00-255-9434 | 97403 | 13211E3085 | 3 IN PLUG, WOOD, 3 IN | 1 . 1 |
| 6 | PAOZZ | | 84583 | 52255-003 | PLUG, WOOD, 4 ½ IN | . 1 |
| 7 | PAOZZ | 5510-00-255-9492 | 97403 | 13211E3084 | PLUG, WOOD, 5 IN | . 1 |
| 8 | PAOZZ | | 84583 | 52255-001 | CONTAINER | . 1 |
| 9 | PAOZZ | | 84583 | 52255 | RAZOR/KNIFE | . 1 |

COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS

FOOT BELLOWS

REPAIR PARTS LIST



Figure 9. Foot Bellows

| TM 10-5430-237-12&P 00 | | | | | | | |
|------------------------|-------------|------------------|-------|----------------|---|-----|--|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | |
| ITEM NO. | SMR CODE | NSN | CAGEC | PART NUMBER | DESCRIPTION AND USABLE ON CODE (UOC) | QTY | |
| | | | | | GROUP 03 ACCESSORY ITEMS | | |
| | | | | | FIG. 9 FOOT BELLOWS | | |
| 1 | PBOZZ | 4720-01-388-8477 | 77230 | PM6211-4 | HOSE ASSEMBLY, NONMETA UOC: ZZZ | 1 | |
| 2 | PBOZZ | 4320-01-397-7318 | 77230 | PM6211 | PUMP, INFLATING, MANUAL UOC: ZZZ | 1 | |
| 3 | PBOZZ | 5331-00-248-3839 | 96906 | MS29513-111 | O-RING UOC: ZZZ | 1 | |
| | | | | | | | |

| TM 10-5430-237-12&P | | | | | | |
|---------------------|--------------------------------------|--|---|--|---|--|
| (2) | (3) | (4) | (5) | (6) | (7) | |
| SMR CODE | NSN | CAGEC | PART NUMBER | DESCRIPTION AND USABLE ON CODE (UOC) | QTY | |
| | | | | GROUP 04 BULK ITEMS | | |
| | | | | GROUP 04 BULK MATERIAL | | |
| PAOZZ | 4010-00-228-9933 | 32345 | 838238-00 | CHAIN WELDLESS UOC: | V | |
| PAOZZ | 4710-01-063-6002 | 27286 | 1404 | PIPE, PLASTIC UOC: | V | |
| PAOZZ | 4020-01-275-6973 | 39428 | 3828T13 | ROPE, FIBROUS UOC: | V | |
| | (2) SMR CODE PAOZZ PAOZZ | (2) (3) SMR CODE NSN PAOZZ 4010-00-228-9933 PAOZZ 4710-01-063-6002 PAOZZ 4020-01-275-6973 | TM 1 (2) (3) (4) SMR CODE NSN CAGEC PAOZZ 4010-00-228-9933 32345 PAOZZ 4710-01-063-6002 27286 PAOZZ 4020-01-275-6973 39428 | Image: PAOZZ Image: | Image: Market Stress <th< td=""></th<> | |

COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS

SPECIAL TOOL

REPAIR PARTS LIST



Figure 10. Special Tool

| TM 10-5430-237-12&P 0 | | | | | | |
|-----------------------|-------------|------------------|----------|----------------|--|-----|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| ITEM NO. | SMR CODE | NSN | CAGEC | PART NUMBER | DESCRIPTION AND USABLE ON CODE (UOC) | QTY |
| | | | | | GROUP 05 SPECIAL TOOLS | |
| | | | | | FIG. 10 | |
| 1 | PBOZZ | 5120-00-308-3809 | 9 27789 | 3522 | REPAIR TOOL, PNEUMATIC MARINE CORPS SMR IS PAOZZ UOC: FFX, ZZZ, WT2008 | 1 |
| | PAOZZ | 5120-00-293-039 | 92 81349 | MIL-S-45179 | STICHER, CEMENTING & VULC UOC: WT2008 | 1 |



Figure 11. Ground Cloth/Valise (Model GTA-Z60TPW)
| | | Т | M 10-5430-23 | 7-12&P | | 0028 00 |
|-------------|-------------|-----|--------------|---------------------|--|---------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| ITEM NO. | SMR CODE | NSN | CAGEC | PART NUMBER | DESCRIPTION AND USABLE ON CODES (UOC) | E QTY |
| | | | | | GROUP 06 GROUND CLOTH/VALISE | |
| | | | | | FIG. 11 GROUND CLOTH/VALISE | |
| 1 | PDOOO | | OCBB4 | GTA-03- OT/PW-03 | GROUND CLOTH/VALISE | 1 |

END OF FIGURE

MODEL WT2008 REPAIR PARTS LIST

This repair parts list authorizes spares and repair parts for performance of Operator and Unit level maintenance of the 3000 Gallon, Water, Self-supporting, Fabric Tank, Model WT2008. Components are not illustrated.

Miscellaneous Components of Tank

| Seaming Tape Cloth, coated, polychloroprene on nylon Pattern No. 9066A (30mm), Specification UK/SC/3964 | MFC 00349 |
|--|--|
| Floor/Wall Sealing Strip Cloth, coated, polychloroprene on nylon (102mm wide) Pattern No. 8177A, Specification UK/SC/3972 | MFC 00350 |
| Float Retaining Bag Netting, camouflage, fiber desert polyester raschel Pattern No. 8055A, Specification UK/SC/4418 | MFC N00375 |
| Valise Cloth canvas flax, olive drab, RR and WR Pattern No. T8071D to DEF. STAN. 83-38 | MFC F00627 |
| Webbings Nylon webbing, 50 mm (2 in.), dyed to color 298 (olive drab) of BS381C Pattern No. 9352A, Specification UK/SC/3652 Nylon webbing, 19 mm (o.75 in.), Type B Schedule 3 of Specification | MFC W00460 |
| DTD 829A, scoured, heat set and dyed to color 298 (olive drab) of BS38IC | MFC W00463 |
| Cordage Plaited cord, polyester multifilament yarn with core, minimum number of strands 16, dia. 2.75 mm. Breaking load 160kg Color 285 (NATO Green) of BS381C | MFC C00578 |
| Sewing Thread Polyester/cotton continuous filament polyester core Pattern No. 9349B (12 & 20), Specification UK/SC/3625 | MFC T00771 |
| Inflation Valves Type A1/2N/3H/4BR/7K, 2 oz. valve moulding to Dwg. M.E.X.E./A/12963 | MFC V00666 |
| Valve, Pneumatic Tire NSN: 2640-00-052-0851 Schrader P/N 15R CAGEC: 27783 | MFC V00669 |
| Deflation Plug Assembly No. W.K.A31952 (Walter Kidde Co. Ltd.) | MFC V00670 |
| Wood Toggles, Fasteners To Dwg. No. A1389 Stud. GJ4 00550 00 000 Post GJ4 00550 00 000A Socket GJ4 00548 00 000 Cap GJ4 00670 00 000 Finish, nickel plate, black to DEF. STAN. 53-47 | MFC W00511 MFC S00301 MFC S00302 MFC S00303 MFC S00304 |

| Eyelets | Metallic with washers 2A/2/2B to DEF. STAN. 53-22 | MFC E00420 |
|---------|--|------------|
| Buckles | s Sliding knurled bar 50 mm to Dwg. No. A1641 | MFC B00652 |
| Male O | utlet 2 in. N.P.S.H. water tank, w/cap and chain brass finish P/N 2711-00-1-1-34-501 | MFC H00713 |
| Female | Outlet 2 in. N.P.S.H. water tank, w/cap and chain brass finish P/N 2711-00-1-1-34-502 | MFC H00714 |
| Reinfor | cing Pad P/N 97403-13201 E9441 | |
| Assem | bly Screws FED. STD. H28 screw cap hex HD 0.25-28 UNF x 0.625L and 0.25-28 UNF x 0.75L | |

UNIT MAINTENANCE COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS NATIONAL STOCK NUMBER INDEX

| STOCK NUMBER | FIG. | ITEM | STOCK NUMBER | FIG. | ITEM |
|------------------|-------|--------------|--------------|------|------|
| | /Mada | | | | |
| 2040-00-052-0851 | | 1 00 1 2006) | | | |
| 5305-00-059-8235 | 1 | 5 | | | |
| 0040 00 000 0540 | 3 | 3 | | | |
| 2640-00-060-3543 | 1 | 8 | | | |
| | 3 | 6 | | | |
| 5305-00-068-0509 | 2 | 5 | | | |
| 5305-00-071-2241 | 4 | 5 | | | |
| 4010-00-229-9933 | 4 | 3 | | | |
| 5331-00-248-3839 | 4 | 3 | | | |
| | 5 | 3 | | | |
| 5510-00-255-9492 | 4 | 8 | | | |
| 5510-00-255-9493 | 4 | 7 | | | |
| 4010-00-228-9933 | BULK | C 1 | | | |
| 5120-00-293-0392 | 6 | | | | |
| 5120-00-308-3809 | 6 | 1 | | | |
| 5330-00-612-2414 | 4 | 2 | | | |
| | 4 | 11 | | | |
| | 7 | 10 | | | |
| 4730-00-649-9100 | 4 | 1 | | | |
| 5340-00-720-8858 | 7 | 6 | | | |
| 5340-00-720-8863 | 7 | 5 | | | |
| 5340-00-720-8864 | 7 | 4 | | | |
| 4730-00-915-5127 | 4 | 7 | | | |
| 4710-01-063-6002 | BULK | 2 | | | |
| 2640-01-098-2029 | 1 | 7 | | | |
| | 3 | 5 | | | |
| 7610-01-122-3771 | 4 | 9 | | | |
| 5740-01-177-8975 | 4 | 4 | | | |
| | 4 | 9 | | | |
| 4730-01-186-0816 | 4 | 6 | | | |
| 4730-01-186-0818 | 4 | 10 | | | |
| 4020-01-275-6973 | BULK | 3 | | | |
| 4720-01-388-8477 | 4 | 2 | | | |
| | 5 | 1 | | | |
| 4320-01-397-7318 | 9 | 2 | | | |
| 4320-01-406-4900 | 4 | 1 | | | |
| 5430-01-437-9650 | 3 | 2 | | | |
| 8465-01-438-6039 | 3 | 1 | | | |

UNIT MAINTENANCE COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS PART NUMBER INDEX

| PART NUMBER | FIG. | ITEM | PART NUMBER | FIG. | ITEM |
|------------------|------------|---------|--------------------|--------|------|
| СН80 | 3 | 3 | 52255-002 | Q | 5 |
| 01100 | 3 | 5 | 52255-002 | 8 | 5 |
| | 3 | 1 | 52255-003 | 0 8 | 7 |
| GTA-03-01/FW-01 | 2 | 1 | 52255-004 | 0 | 1 |
| GTA-03-01/PW-02 | 11 | 1 | 52255-005 | 0 | 0 |
| GTA-03-01/FW-03 | 1 | l G | 5050 | 3 0 | 0 |
| 101522054-5 | | 0 | 52255 52555 001 | 0 | 9 |
| M007000 44 | 5 | 4 | 52255-001 | 8 | 8 |
| MS27022-11 | 3 | 12 | 62069-1 | 3 | 12 |
| MS27023-11 | 4 | 6 | 6211-6 | 9 | 2 |
| MS27027-11 | 4 | 10 | 660 | 1 | / |
| MS27028-11 | 4 | 1 | | 5 | 5 |
| | 3 | 4 | 838238-00 | BULK | 1 |
| MS27029-11 | 4 | 7 | 8858 | 8 | 2 |
| | 3 | 2 | 8863 | 8 | 3 |
| MS27030-6 | 4 | 2 | 8864 | 8 | 4 |
| | 2 | 11 | 90032 | 5 | 2 |
| | 7 | 10 | 90032-1 | 5 | 1 |
| | 3 | 6 | 90032-4 | 5 | 1 |
| MS29513-111 | 7 | 3 | 90033 | 1 | 2 |
| | 9 | 3 | 90033-3 | 1 | 4 |
| MS35214-10 | 1 | 5 | 90033-4 | 1 | 3 |
| | 5 | 3 | 90034 | 4 | 6 |
| MS51377-2 | 1 | 8 | 90035 | 2 | 10 |
| M651577 2 | 5 | 6 | 90075 | 1 | 1 |
| | 0 | 3 | 90079-1 | 5 | 2 |
| MS00725 10 | 3 | 5 | 0014 | 2 | 2 |
| M52255ELC6 | 4 | 0 | 9014 | 3 | 9 |
| DM6211 4 | 7 | 9 | 90177A218 | 4 | 4 |
| F1010211-4 | 7 | 2 | 00075 | 2 | 9 |
| | 9 | I | 90075 | I | I |
| | 4 | 0 | | | |
| RRC2/1 TYPE II C | 4 | 3 | | | |
| 1095 | 1 | 1 | | | |
| L3 1 R35 | 4 | 8 | | | |
| 00019 | 3 | 10 | | | |
| 00020 | 3 | 7 | | | |
| 13202E2870-1 | 7 | 4 | | | |
| 13202E2870-2 | 7 | 5 | | | |
| 13202E2870-3 | 7 | 6 | | | |
| 13211E3084 | 7 | 8 | | | |
| 1321153085 | 7 | 7 | | | |
| 1404 | BULK | 2 | | | |
| 15R | (Model W | T 2008) | | | |
| 3-K-W-O-A-Z | ` 3 | 1 | | | |
| 3-K-W-GC/V-O-A | 3 | 11 | | | |
| 32-108-01 | 3 | 14 | | | |
| 3522 | 10 | 1 | | | |
| 367Z | 4 | 5 | | | |
| 3828T13 | BULK | 3 | | | |

END OF WORK PACKAGE

OPERATOR AND UNIT MAINTENANCE COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LISTS

COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LISTS

This work package lists COEI and BII for the collapsible fabric water tank to help you inventory items for safe and efficient operation of the equipment.

General

The COEI and BII information is divided into the following lists:

Components of End Item (COEI). This list is for information purposes only and is not authority to requisition replacements. These items are part of the collapsible fabric water tank. As part of the end item, these items must be with the end item whenever it is issued or transferred between property accounts. Items of COEI are removed and separately packaged for transportation or shipment only when necessary. Illustrations are furnished to help you find and identify the items.

Basic Issue Items (BII). These essential items are required to place the collapsible fabric water tank in operation, operate it, and to do emergency repairs. Although shipped separately packaged, BII must be with the collapsible fabric water tank during operation and when it is transferred between property accounts. Listing these items is your authority to request/requisition them for replacement based on authorization of the end item by TOE/MTOE. Illustrations are furnished to help you find and identify the items.

Explanation of Columns in the COEI List and BII List

Column (1), Illus Number, gives you the number of the item illustrated.

Column (2), National Stock Number, identifies the stock number of the item to be used for requisitioning purposes.

Column (3), Description, CAGEC, and Part Number, identifies the Federal item name (in all capital letters) followed by a minimum description when needed. The stowage location of COEI and BII is also included in this column. The last line below the description is the CAGEC (commercial and Government entity code) (in parentheses) and the part number.

Column (4), Usable on Code, gives you a code if the item you need is not the same for different models of equipment. These codes are identified below:

| <u>Code</u> | <u>Used On</u> |
|-------------|-------------------|
| FFX | Model 90074 |
| ZZZ | Model 91038 |
| - | Model WT2008 |
| G3K | Model GTA-Z60TPW |
| R3K | Model 3-K-W-O-A/Z |

Column (5), U/M (unit of measure), indicates how the item is issued for the National Stock Number shown in column (2).

Column (6) Qty Rqr, indicates the quantity required.



| Table 1. | Components | of End | Item List. |
|----------|------------|--------|------------|
|----------|------------|--------|------------|

| (1) ILLUS NUMBER | (2) NATIONAL STOCK NUMBER | (3) DESCRIPTION, CAGEC AND PART NUMBER | (4) USABLE ON CODE | (5) U/M | (6) QTY RQR |
|------------------------|---------------------------------|--|--------------------------|------------|-------------------|
| 1 | 8110-00-856-6244 | REPAIR KIT, COLLAPS Consisting of: | | EA | 1 |
| 2 | 5430-00-720-8864 | .PATCH, MECHANICAL, FLEXIBLE, 3 IN (81336)13202E2870-1 | | EA | 4 |
| 3 | 5430-00-720-8863 | .PATCH, MECHANICAL, FLEXIBLE, 5 IN (81336)13202E2870-2 | | EA | 2 |
| 4 | 5430-00-720-8858 | .PATCH, MECHANICAL, FLEXIBLE, 7.5 IN (81336)13202E2870-3 | | EA | 2 |

| Table 1. Components of E | nd Item List. (cont.) |
|--------------------------|-----------------------|
|--------------------------|-----------------------|

| (1) ILLUS NUMBER | (2) NATIONAL STOCK NUMBER | (3) DESCRIPTION, US CAGEC AND PART NUMBER | (4) SABLE ON CODE | (5) U/M | (6) QTY RQR |
|------------------------|---------------------------------|--|-------------------------|------------|-------------------|
| 5 | 5510-00-255-9493 | .PLUG, WOOD, 3 IN (97403)13211 E3085 | | EA | 3 |
| 6 | 5510-00-255-9492 | .PLUG, WOOD, 5 IN (97403)13211 E3084 | | EA | 2 |
| 7 | 7610-01-122-3771 | .SHEET, TECHNICAL (81349) M52255FIG6 | | EA | 1 |
| 8 | 5330-00-612-2414 | .GASKET (96906) MS27030-6 | | EA | 2 |
| 9 | 4320-01-406-4900 | PUMP, INFLATING-DEFL (77230) 1095 | FFX | EA | 1 |
| 10 | 5430-01-359-4774 | TANK, FABRIC, COLLAP 3000 GALLON (05476) 90074 | FFX | EA | 1 |
| | 5430-01-318-9434 | TANK, FABRIC, COLLAP 3000 GALLON (05476) 91038 | ZZZ | EA | 1 |
| 11 | 5430-01-316-5715 | CLOTH, GROUND (81349) MIL-T-53048 | | EA | 1 |
| | | CLOTH, GROUND (1DFDO) 3-K-W-GC/V-O-A | R3K | EA | 1 |
| 12 | 4320-01-397-7318 | PUMP, INFLATING, MANUA (77230) PM6211 | AL ZZZ | EA | 1 |
| 13 | | PLUG, WOOD (RCF-3-K-W-O-A) | R3K | EA | 3 |
| 14 | | PROTECTOR, BALL VALVE (1DFDO) 8016 | E R3K | EA | 1 |

MODEL WT2008:



Table 1. Components of End Item List. (cont.)

| (1) ILLUS NUMBER | (2) NATIONAL STOCK NUMBER | (3) DESCRIPTION, CAGEC AND PART NUMBER | (4) USABLE ON CODE | (5) U/M | (6) QTY RQR |
|------------------------|---------------------------------|---|--------------------------|------------|-------------------|
| 15 | 5430-01-170-6984 | TANK, FABRIC, COLLAR Water, 3000 Gallon | P (WT2008) | EA | 1 |
| 16 | 5430-99-120-8019 | COVER, TANK, FABRIC Collapsible, Water 3000 | , Gallon | EA | 1 |
| 17 | 5430-99-120-8020 | COVER, FLOAT, TANK, Collapsible, Water 3000 | FABRIC Gallon | EA | 1 |
| 18 | 5430-99-120-8021 | VALISE, TANK, FABRIC Water, 3000 Gallon | , COLLAP | EA | 1 |

| (1) ILLUS NUMBER | (2) NATIONAL STOCK NUMBER | (3) DESCRIPTION, CAGEC AND PART NUMBER | (4) USABLE ON CODE | (5) U/M | (6) QTY RQR |
|------------------------|---------------------------------|--|--|------------|-------------------|
| 19 | 5430-99-120-8022 | KIT, REPAIR Consisting of: | (WT2008) | EA | 1 |
| | | .REPAIR FAB 40" x 9" U.K.S Pattern No. 8 MFC00347/8 | RIC S.C. 3467/3648 177A/8087A | EA | 1 |
| | | .PATCHES 6" 3467/3648 Pa 8177A/8087A | .PATCHES 6" DIA. U.K.S.C. 3467/3648 Pattern No. 8177A/8087A MFC00347/8 .PATCHES 3" DIA. U.K.S.C. 3467/3648 Pattern No. 8177A/8087A MFC00347/8 | | 3 |
| | | .PATCHES 3" 3467/3648 Pa 8177A/8087A | | | 3 |
| | | .EMERY CLO MFC00789 | TH, GRADE 1, 9" x 11" | EA | 1 |
| | | .ADHESIVE T Bostic 1 GA-1 MFC00792 | UBES 86 | EA | 8 |
| | 5430-00-720-8864 | .PATCH, MEC | HANICAL, 3 IN | EA | 4 |
| | 5430-00-720-8863 | .PATCH, MEC | HANICAL, 5 IN | EA | 2 |
| | 5430-00-720-8858 | .PATCH, MEC | HANICAL, 7.5 IN | EA | 2 |
| | 5510-00-255-9493 | .PLUG, WOOI | D, 3 IN | EA | 2 |
| | 5510-00-255-9492 | .PLUG, WOOI | D, 5 IN | EA | 2 |
| | | .HAND ROLLE | ER MFC00790 | EA | 1 |
| | | .SCISSORS M | IFC00791 | EA | 1 |

Table 1. Components of End Item List. (cont.)

MODEL GTA-Z60TPW & MODEL 3-K-W-O-A/Z:



Table 1. Components of End Item List. (cont.)

| (1) ILLUS NUMBER | (2) NATIONAL STOCK NUMBER | (3) DESCRIPTION, U CAGEC AND PART NUMBER | (4) JSABLE ON CODE | (5) U/M | (6) QTY RQR |
|------------------------|---------------------------------|---|--------------------------|------------|-------------------|
| 20 | 5430-01-469-8744 | TANK, FABRIC, 3000 GAL (OCBB4) GTA-Z60TPW | G3K | EA | 1 |
| 20 | 5430-01-316-5715 | TANK, FABRIC, 3000 GAL (1DFDO) 3-K-W-O-A/Z | R3K | EA | 1 |
| 21 | | GROUND CLOTH/VALISE (OCBB4) GTA-03-OT/PW-(| G3K 03 | EA | 1 |
| 22 | | BALL VALVE ASSY., 2 IN (OCBB4) GTA/2BVA | G3K | EA | 2 |
| 22 | | BALL VALVE, 2 IN (63711) 32-108-01 | R3K | EA | 2 |
| 23 | | REPAIR KIT, TYPE II, TAN Fabric, Collapsible per (84583) PD-52255 | IK G3K | EA | 1 |



Table 2. Basic Issue Items List.

| (1) ILLUS NUMBER | (2) NATIONAL STOCK | (3) DESCRIPTION, CAGEC, AND PART NUMBER | (4) USABLE ON CODE | (5) U/M | (6) QTY RQR |
|------------------------|--------------------------|---|--------------------------|------------|-------------------|
| 1 | | TECHNICAL MANUAL, Operator's and Unit Maintenance ARMY TM 10-5430-237-12&P AIR FORCE TO 35E31-3-4-1 MARINE CORPS TM 01034E-12&P | /1 | EA | 1 |

END OF WORK PACKAGE

OPERATOR AND UNIT MAINTENANCE COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS EXPENDABLE AND DURABLE ITEMS LIST

EXPENDABLE AND DURABLE ITEMS LIST

This work package lists expendable and durable items that you will need to operate and maintain the collapsible fabric water tank. This list is for information only and is not authority to requisition the listed items. These items are authorized to you by CTA 50-790, Expendable/Durable Items (Except Medical, Class V Repair Parts, and Heraldic Items), or CTA 8-100, Army Medical Department Expendable/Durable Items.

Explanations of Columns in the Expendable/Durable Items List

Column (1) - Item Number. This number is assigned to the entry in the list and is referenced in the narrative instructions to identify the item (e.g., "Use lubricating oil (Item 25, WP 5230 00).").

Column (2) - Level. This column identifies the lowest level of maintenance that requires the listed item (C=Operator/Crew).

Column (3) - National Stock Number. This is the NSN assigned to the item which you can use to requisition it.

Column (4) - Item Name, Description, Commercial and Government Entity Code (CAGE), and Part Number (P/N). This column provides the other information you need to identify the item.

Column (5) - Unit of Measure (U/M). This code shows the physical measurement or count of an item, such as gallon, dozen, gross, etc.

EXPENDABLE AND DURABLE ITEMS LIST

| (1) | (2) | (3) NATIONAL | (4) | (5) |
|----------------|-------|------------------|---|-----|
| ITEM NUMBER | LEVEL | STOCK NUMBER | ITEM NAME, DESCRIPTION, CAGE, PART NUMBER | U/M |
| 1 | С | 7930-01-306-8369 | Cleaning Compound, Solvent-Detergent (1Z575) P/N 13005 | gl |
| 2 | С | 7920-00-205-1711 | Rags, Wiping, Cotton Synthetic (58536) A-A-531 | bu |
| 3 | С | 5430-01-359-1078 | Repair Kit, Collapsible Fabric Tank and Drums (ROCTAD), components listed in WP 0029 00 (OF6E1) BOV-USA-1 | ea |
| 4 | С | 7930-00-880-4454 | Dishwashing Compound, Hand (81348) P-D-410 | gl |
| 5 | С | 8110-00-856-6244 | Repair Kit, Collapsible Drum Up to 3/8 in (81349) MIL-R-52255 | ea |
| 6 | С | 7930-00-240-7174 | Brush, Scrub (81349) HB1490-5 | ea |

Table 1. Expendable and Durable Items List.

END OF WORK PACKAGE

0030 00-1/2 blank

OPERATOR AND UNIT MAINTENANCE COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS ILLUSTRATED LIST OF MANUFACTURED ITEMS

ILLUSTRATED LIST OF MANUFACTURED ITEMS

This work package provides information required to fabricate or manufacture components of the tank.

Contents

This work package includes complete instructions for making items authorized to be manufactured or fabricated at unit maintenance level.

A part number index in alphanumeric order is provided for cross-referencing the part number of the item to be manufactured to the figure which covers fabrication criteria.

All bulk materials needed for manufacture of an item are listed by part number or specification number in a tabular list on the illustration.

MANUFACTURED ITEMS PART NUMBER INDEX

| FIGURE NO. |
|------------|
| 3 |
| 2 |
| 1 |
| 1 |
| |



| MATERIAL | | | |
|---------------------------------|------------------|--|--|
| DESCRIPTION NSN | | | |
| | | | |
| CHAIN, WELDLESS, RRC271 (81348) | 4010-00-228-9933 | | |

1. Chain



| MATERIAL | | | |
|--------------------------------------|------------------|--|--|
| DESCRIPTION | NSN | | |
| ROPE, FIBROUS, NYLON (39428) 3828T13 | 4020-01-275-6973 | | |

2. Nylon Rope



NOTES:

1. DIMENSIONS ARE

IN INCHES

2. TOLERANCES ARE 1/64 INCH

| MATERIAL | | | | |
|---|------------------|--|--|--|
| DESCRIPTION | NSN | | | |
| PIPE, PLASTIC POLYVINYL CHLORIDE (PVC), PE3408, SDR11, 1 INCH, WHITE UV RESISTANT | 4710-01-063-6002 | | | |

3. Polyvinyl Chloride (PVC) Pipe.

END OF WORK PACKAGE

OPERATOR AND UNIT MAINTENANCE COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS TORQUE LIMITS

TORQUE LIMITS

This work package provides general torque limits for fasteners. Special torque values are indicated in the maintenance procedures for applicable components. The general torque values given in this work package shall be used when specific torque values are not indicated in the maintenance procedures.

Torque Limits

Torque limits are listed in Table 1 for fasteners. Dry fasteners are defined as fasteners on which no lubricants are applied to the threads. Wet fasteners are defined as fasteners on which graphite or molydisulphide greases or other extreme pressure lubricants are applied to the threads. Table 2 lists the minimum breakaway torque values for locknuts.

| Torque Requirement in lb ft (N·m) | | | | | |
|-----------------------------------|------------|-------------|-------------|-------------|--|
| Bolt/Screw | SAE Grade | SAE Grade | SAE Grade | SAE Grade | |
| Size | 1 or 2 | 5 | 6 or 7 | 8 | |
| 1/4-20 UNC | 5 (7) | 8 (11) | 10 (14) | 12 (16) | |
| 1/4-28 UNF | 7 (8) | 10 (14) | 12 (16) | 14 (19) | |
| 5/16-18 UNC | 11 (15) | 17 (23) | 19 (26) | 24 (33) | |
| 5/16-24 UNF | 13 (18) | 19 (26) | 23 (31) | 27 (37) | |
| 3/8-16 UNC | 18 (24) | 31 (42) | 34 (46) | 44 (60) | |
| 3/8-24 UNF | 20 (27) | 35 (47) | 42 (57) | 49 (66) | |
| 7/16-14 UNC | 28 (38) | 49 (66) | 55 (75) | 70 (95) | |
| 7/16-20 UNF | 30 (41) | 55 (75) | 67 (91) | 78 (106) | |
| 1/2-13 UNC | 39 (53) | 75 (102) | 85 (115) | 105 (142) | |
| 1/2-20 UNF | 41 (56) | 85 (115) | 102 (138) | 120 (163) | |
| 9/16-12 UNC | 51 (69) | 110 (149) | 120 (163) | 155 (210) | |
| 9/16-18 UNF | 55 (75) | 120 (163) | 145 (197) | 170 (231) | |
| 5/8-11 UNC | 63 (85) | 150 (203) | 167 (226) | 210 (285) | |
| 5/8-18 UNF | 95 (129) | 170 (231) | 205 (278) | 240 (325) | |
| 3/4-10 UNC | 105 (142) | 270 (366) | 280 (380) | 375 (509) | |
| 3/4-16 UNF | 115 (156) | 295 (400) | 357 (484) | 420 (570) | |
| 7/8-9 UNC | 160 (217) | 395 (536) | 440 (597) | 605 (820) | |
| 7/8-14 UNF | 175 (237) | 435 (590) | 555 (753) | 675 (915) | |
| 1-8 UNC | 235 (319) | 590 (800) | 660 (895) | 910 (1234) | |
| 1-14 UNF | 250 (339) | 660 (865) | 825 (1119) | 999 (1342) | |
| 1-1/8-7 UNC | 350 (475) | 800 (1085) | 1000 (1356) | 1280 (1736) | |
| 1-1/8-12 UNF | 400 (542) | 880 (1193) | 1050 (1424) | 1440 (1953) | |
| 1-1/4-7 UNC | 500 (678) | 1080 (1464) | 1325 (1797) | 1820 (2468) | |
| 1-1/4-12 UNF | 550 (746) | 1125 (1526) | 1325 (1797) | 1820 (2712) | |
| 1-3/8-6 UNC | 660 (895) | 1460 (1980) | 1800 (2441) | 2380 (3227) | |
| 1-3/8-12 UNF | 740 (1003) | 1680 (2278) | 1960 (2658) | 2720 (3688) | |
| 1-1/2-6 UNC | 870 (1180) | 1940 (2631) | 2913 (3950) | 3160 (4285) | |
| 1-1/2-12 UNF | 980 (1329) | 2200 (2983) | 3000 (4068) | 3560 (4827) | |

Table 1. General Torque Requirements for Dry Fasteners*

*Torque given is for clean, dry threads. Reduce by 10% when engine oil is used as lubricant.

Table 2. Locknut Breakaway Torque Values

NOTE

To determine breakaway torque, thread locknut onto screw or bolt until at least two threads stick out. Locknut shall not make contact with a mating part. Stop the locknut. Torque necessary to begin turning locknut again is the breakaway torque. Do not reuse locknuts that do not meet minimum breakaway torque.

| Thread | Minimum Brea | kaway Torque |
|----------|--------------|--------------|
| Size | lb-in. | (N⋅m) |
| 10-32 | 2.0 | (0.23) |
| 1/4-28 | 3.5 | (0.40) |
| 5/16-24 | 6.5 | (0.73) |
| 3/8-24 | 9.5 | (1.07) |
| 7/16-20 | 14.0 | (1.58) |
| 1/2-20 | 18.0 | (2.03) |
| 9/16-18 | 24.0 | (2.71) |
| 5/8-18 | 32.0 | (3.62) |
| 3/4-16 | 50.0 | (5.65) |
| 7/8-14 | 70.0 | (7.91) |
| 1-12 | 90.0 | (10.17) |
| 1-1/8-12 | 117.0 | (13.22) |
| | | |

END OF WORK PACKAGE

OPERATOR AND UNIT MAINTENANCE COLLAPSIBLE FABRIC TANK, WATER STORAGE, 3000 GALLONS MANDATORY REPLACEMENT PARTS LIST

MANDATORY REPLACEMENT PARTS LIST

This work package includes a list of all mandatory replacement parts referenced in the task initial setups and procedures. These are items that must be replaced during maintenance whether they have failed or not. This includes items based on usage intervals such as miles, time, rounds fired, etc.

MANDATORY REPLACEMENT PARTS LIST

| ITEM NO. | PART NUMBER/ CAGEC | NSN | NOMENCLATURE | QTY |
|-------------|--------------------------|------------------|-----------------------|-----|
| 1 | MS27030-6 | 5330-00-612-2414 | Gasket, 2 in | |
| 2 | MS29513-111 | 5331-00-248-3839 | O-Ring | |
| 3 | 62069-1 | | Gasket, 4 in Flange | |
| 4 | 9014 | | Gasket, 3.5 in Flange | |

Table 1. Mandatory Replacement Parts List

END OF WORK PACKAGE

TM 10-5430-237-12&P GLOSSARY

ABBREVIATIONS

| AAL | Additional Authorization List |
|-------|--|
| Assy | Assembly |
| BII | Basic Issue Items |
| bu | Bundle |
| °C | Degree Celsius |
| CAGEC | Commercial and Government Entity Code |
| COEI | Components of End Item |
| EIR | Equipment Improvement Recommendations |
| ESC | Equipment Serviceable Criteria |
| °F | Degree Fahrenheit |
| Fed | Federal |
| gl | Gallon |
| illus | Illustration |
| MTOE | Modified Table of Organization and Equipment |
| MWO | Modification Work Order |
| NSN | National Stock Number |
| PMCS | Preventive Maintenance Checks and Services |
| QA/QC | Quality Assurance/Quality Control |
| Qty | Quantity |
| Rqr | Required |
| Spec | |
| TAMMS | The Army Maintenance Management System |
| TMDE | Test, Measurement, and Diagnostic Equipment |
| U/M | Unit of Measure |

DEFINITION OF TERMS

Α

APPENDIX - A collection of supplementary material at the end of a book. APPROVED - Permitted to be used for a specific purpose by the person or group who is authorized to grant approval.

ASSEMBLY - A combination of parts that may be taken apart without destruction, which has no application or use of its own but is needed for the completeness of a more complex item with which it is combined, or to which it is attached.

С

COMPONENT - A part or a combination of parts which together accomplish a function.

Ε

EXPENDABLE - An item that is not repairable and is discarded if damaged. EXPOSURE - Being in the presence of something, or in contact with something. Skin is exposed to cleaning solvent when the solvent contacts the skin during cleaning operations.

L

LEGIBLE - Capable of being read. A legible nameplate can be read; an illegible plate cannot.

GLOSSARY-1

Μ

MALFUNCTION - Occurs when a unit fails to operate normally. MANUFACTURER - The company which makes an item or piece of equipment for sale. MATERIEL - Equipment, apparatus, and supplies of an organization such as an army.

R

RECOMMENDATIONS - Suggestions for change; advice given usually to make an improvement. REQUIRE - To demand or need.

S

SCOPE - The extent of an activity or concept; the amount of information covered as in a book. SOLVENT - A liquid that can dissolve another substance.

Т

TORQUE - Force around an axis. It produces a rotary or twisting motion, and is measured in foot-pounds (ft-lb) or newton-meters (N• m).

V

VENTILATE - To provide with a source of fresh or uncontaminated air. VISUAL - Visible; detected by the unaided eye.

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Official:

Joel B Hub

Administrative Assistant to the Secretary of the Army 0011902 ERIC K. SHINSEKI General, United States Army Chief of Staff

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| 6 B1 | 2-1a | 4-3 | | In line 6 of paragraph ?- C, the manual states the engine has a cylinders. The engine on montonic has 4 cylinders. Change in thanual to show 4 cylinders. Calical number 16 in Figure 4-3 is identifies as a bolt. In key for Figure 4-3, item 16 is | | |
| 125 | | line 20 | | I ordered a gasket, item 19 on Figure b-16 by NSN 2910-00-762-3001. I got a gasket, but it does not fit. Supply says I got what I ordered so the NSN is wrong. Please give me | | |
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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:* 55-1915-200-10
- 9. Pub Title: TM
- 10. Publication Date: 11-APR-88
- 11. Change Number: 12
- 12. Submitter Rank: MSG
- 13. Submitter Fname: Joe
- 14. Submitter Mname: ⊤
- 15. Submitter Lname: Smith
- 16. Submitter Phone: 123-123-1234
- 17. Problem: 1
- 18. Page: 1
- 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:

This is the text for the problem below line 27.

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 decameters = 328.08 feet I kilometer =10 hectometers = 3,280.8 feet

Weights

1 centigram = 10 milligrams = .15 grain 1 decigram = 10 centigrams = 1.54 grains 1 gram = 10 decigrams = .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. decameter =1000 cu. centimeters = 61.02 cu. inches 1 cu. meter =1000 cu. decimeters = 35.31 feet

| To change | То | Multiply by | To change | То | 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 | 5/9 (after | Celsius | °C |
|----|-------------|-----------------|-------------|----|
| | temperature | subtracting 32) | temperature | |

Approximate Conversion Factors

PIN: 078058-000