TOILET, RELIEF TUBE, WASH BASIN, VANITY WATER SUPPLY - SERVICING

1. General

A. The aft flush-type toilet utilizes a waste container for solid and liquid waste and a liquid reservoir for flushing the bowl assembly.
B. The flush-type toilet reservoirs should be serviced after each flight; however, they must be serviced when liquid level becomes too low for proper operation or when liquid appears to have incorrect chemical balance.
C. To assure flush-type toilet recirculating systems operate properly during freezing conditions, an ethylene-glycol base anti-freeze containing anti-foam agent may be added to the flush liquid.

2. Tools and Equipment

NOTE: Equivalent substitutes may be used for the following items:

<table>
<thead>
<tr>
<th>NAME</th>
<th>NUMBER</th>
<th>MANUFACTURER</th>
<th>USE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Deodorant, Toilet (Aerofresh)</td>
<td></td>
<td>Commercially available</td>
<td>Servicing toilet.</td>
</tr>
<tr>
<td>Disinfectant spray (Lysol)</td>
<td></td>
<td>Commercially available</td>
<td>Cleaning toilet.</td>
</tr>
<tr>
<td>Chemicals</td>
<td>DG19</td>
<td>Monogram Industries, Inc. Venice Division 3226 Thatcher Ave. Venice, CA 90291</td>
<td>Servicing toilet.</td>
</tr>
<tr>
<td>Soap</td>
<td>PS619</td>
<td>Commercially available</td>
<td>Cleaning toilet.</td>
</tr>
<tr>
<td>Trichlorethane</td>
<td>OT634</td>
<td>Commercially available</td>
<td>Cleaning toilet.</td>
</tr>
</tbody>
</table>

CAUTION: FLUID IS CORROSIVE TO STRUCTURE AND ELECTRICAL CONNECTORS USE EXTREME CARE TO PREVENT SPILLAGE WHEN SERVICING TOILET.

3. Servicing Flush-Type Toilet

NOTE: General instructions for servicing are provided on a decal applied to the front side of the removable tank.

A. Tank Removal (Refer to Figure 301.)
   (1) Gain access to the toilet tank by opening door on front of seat assembly.
   (2) Depress the lock ring of the flush hose quick-disconnect coupling located on the right side at the front of the tank top.
   (3) Drain any residue of flush fluid in the hose by partially disengaging the plug from the quick-disconnect and manipulating the hose to assist drainage.
   (4) Remove the flush hose from the quick-disconnect. Place hose in the retaining clip located on the underside of the toilet mounting plate.
(5) Install the plug attached to the quick-disconnect to seal the coupling.
(6) Close the knife valve at the bottom of the toilet bowl by pushing the actuator handle until the valve is fully closed.
(7) Press the two Pres-Loc fasteners on each side of the knife valve actuator to unlock the tank.
(8) Remove the tank by pulling the recessed carrying handle on the tank top.

B. Tank Cleaning.
(1) Dispose of tank contents by holding the tank upside-down over a sewer or toilet. Pull the knife valve actuator handle, open the valve and allow the tank to drain.
(2) Rinse the tank by filling one-half full with water. Close the knife valve and shake vigorously. Drain tank again; repeat procedure until tank is clean.

NOTE: Commercial detergents and disinfectants may be included in the rinse water if desired; however, do not include these materials in the tank precharge.

NOTE: Rinse and drain the tank several times to ensure that the tank is thoroughly clean.

(3) Wipe the exterior surfaces of the tank using a cloth moistened with clear water and disinfectant.

C. Tank Precharge.
(1) Charge the tank with a mixture of 2 quarts of water and 3 ounces of Monogram DG-19 chemical.

NOTE: To assure toilet recirculation system operation during freezing weather, ethylene glycol base antifreeze containing antifoam agent may be added to the flush fluid.

D. Tank Installation.
(1) Reinstall the tank by inserting the slides located on each side of the knife valve into the slide plate assembly on the bottom of the toilet and slide tank into place.
(2) Press the two Pres-Loc fasteners to the first detent to secure the tank.
(3) Remove the plug in the flush hose quick disconnect and connect the hose coupling to the hose coupling to the quick disconnect. Lock the disconnect lockring.
(4) Pull the knife valve actuator to fully open the valve.
(5) Lift the toilet seat and shroud assembly from the top of the toilet and wipe with cloth moistened with clear water and disinfectant. Wipe the bowl and surrounding area.
(6) Check flushing operation of the toilet and check for leaks. (7) Close access door.

4. Servicing Relief Tube Assembly

A. Servicing.
(1) The relief tube assembly should be cleaned manually, using a strong solution of hot soapy water and disinfectant. Rinse thoroughly with clean water and dry with clean rag or warm air.
Flush-Type Toilet Assembly
Figure 301 (Sheet 2)
NOTE: The relief tube may be rinsed with toilet chemical deodorant to subdue persistent odor.

5. Servicing Wash Basin

A. Servicing.
   (1) Service water reservoir as follows:
      (a) Open door in upper vanity to provide access to water containers.
      (b) Disconnect the fasteners at the top of the tank, the quick-disconnect hose coupling and remove container.
      (c) Remove water fill cap and fill reservoir with approximately 1-1/2 gallons of water or until reservoir is full.
      (d) Replace container in position, connecting hose quick-disconnect and secure with fasteners.
   (2) Drain water reservoir as follows:
      (a) Hold down button on water faucet and let water drain into wash basin and out through overboard drain until water supply is exhausted.
   (3) Clean wash basin with a solution of hot soapy water and disinfectant. Dry with a dry cloth or warm dry air.

6. Servicing Vanity Water Supply System

NOTE: Servicing the vanity water supply system consists of replenishing the water tank with potable water.

A. Service Water System.
   (1) Remove water tanks; refer to Chapter 25, Aft Vanity - Maintenance Practices.
   (2) Fill water tanks with potable water.
   (3) Install water tanks; refer to Chapter 25, Aft Vanity - Maintenance Practices.

B. Freeze Protection in Cold Weather.
   (1) The vanity water system is subjected to water freeze when the airplane remains in below freezing weather overnight or longer. The following action should be taken to prevent freeze damage.
      (a) Open faucets until water tanks are drained.