TOILET and RELIEF TUBE SERVICING

1. General

A. 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.

B. To ensure 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</td>
<td></td>
<td>Commercially available</td>
<td>Servicing toilet.</td>
</tr>
<tr>
<td>(Aerofresh)</td>
<td></td>
<td></td>
<td></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.</td>
<td>Servicing toilet.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Venice Division</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3226 Thatcher Ave.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Venice, CA 90291</td>
<td></td>
</tr>
<tr>
<td>Soap</td>
<td>PS619</td>
<td>Commercially available</td>
<td>Cleaning toilet.</td>
</tr>
<tr>
<td>Trichlorehane</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 Non-Flush-Type Toilet

A. Servicing (Refer to Figure 301).
   (1) Lift toilet lid and remove toilet ring assembly.
   (2) Lift waste container from toilet assembly and remove from aircraft. Remove waste bag from waste container and dispose.
   (3) Clean waste container and toilet ring assembly with a disinfectant each time the toilet is serviced.
   (4) Clean relief tube with a disinfectant.
NOTE: The waste container and relief tube may be rinsed with toilet chemical deodorant to subdue persistent odor

(5) Install a new disposable bag in the waste container and position waste container in center of toilet assembly resting on the pan.
(6) Install toilet ring assembly in position with apron of the toilet ring nesting in the waste container.
DETAIL A
Non-Flush Toilet Servicing
Figure 301 Ssheet 1
4. Servicing Flush-Type Toilet

A. Tank Cleaning (Refer to Figure 302).
   (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.

   (3) Rinse and drain the tank several times to ensure that the tank is thoroughly clean.
   (4) Wipe the exterior surfaces of the tank using a cloth moistened with clear water and
   disinfectant.

B. Tank Precharge.
   (1) Charge the tank with a mixture of 2 quarts (1.9 l) of water and 3 ounces (88 ml) of
   Monogram DG-19 chemical.

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

C. 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 lock ring.
   (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.

5. 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.

NOTE: The relief tube may be rinsed with toilet chemical deodorant to subdue persistent odor.
DETAIL A
Flush Toilet Servicing
Figure 302 (sheet 1)