

EXTERNALLY SERVICEABLE FLUSH TOILET - SERVICING

1. General

A. The flush toilet should be serviced during routine ground maintenance of the airplane following any usage. It is more efficient and convenient to service the toilet on a regular basis than to wait until the tank is filled to capacity.

2. Tools and Equipment

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

NAME	NUMBER	MANUFACTURER	USE
Disinfectant		Commercially Available	Disinfect Toilet
Lysol Spray			
Germicidal Deodorant	DG19	Monogram Industries Venice Division 3226 Thatcher Ave. Venice, CA 90219	Tank Precharge Mixture
Germicidal Deodorant (alternate)	ChernKare	Monogram Sanitation 430 Freeman Blvd. Redondo Beach, CA 90278	Tank Precharge Mixture
Ethelene Glycol Anti-Freeze		Commercially Available	Prevent Precharge Mixture from freezing
Silicone Grease	Molykote #33 Medium	Dow Corning Corp. S. Saginaw Rd. Midland, MI 48641	Lubricate Toilet O-ring Seals
Toilet Ground Service Cart	10-4036-0010	Tronair S. 1740 Eber Rd. Holland, OH 43528	Drain Clean, and Recharge Toilet

3. Servicing Toilet

A. Waste Removal and Recharge (Refer to Figure 301).

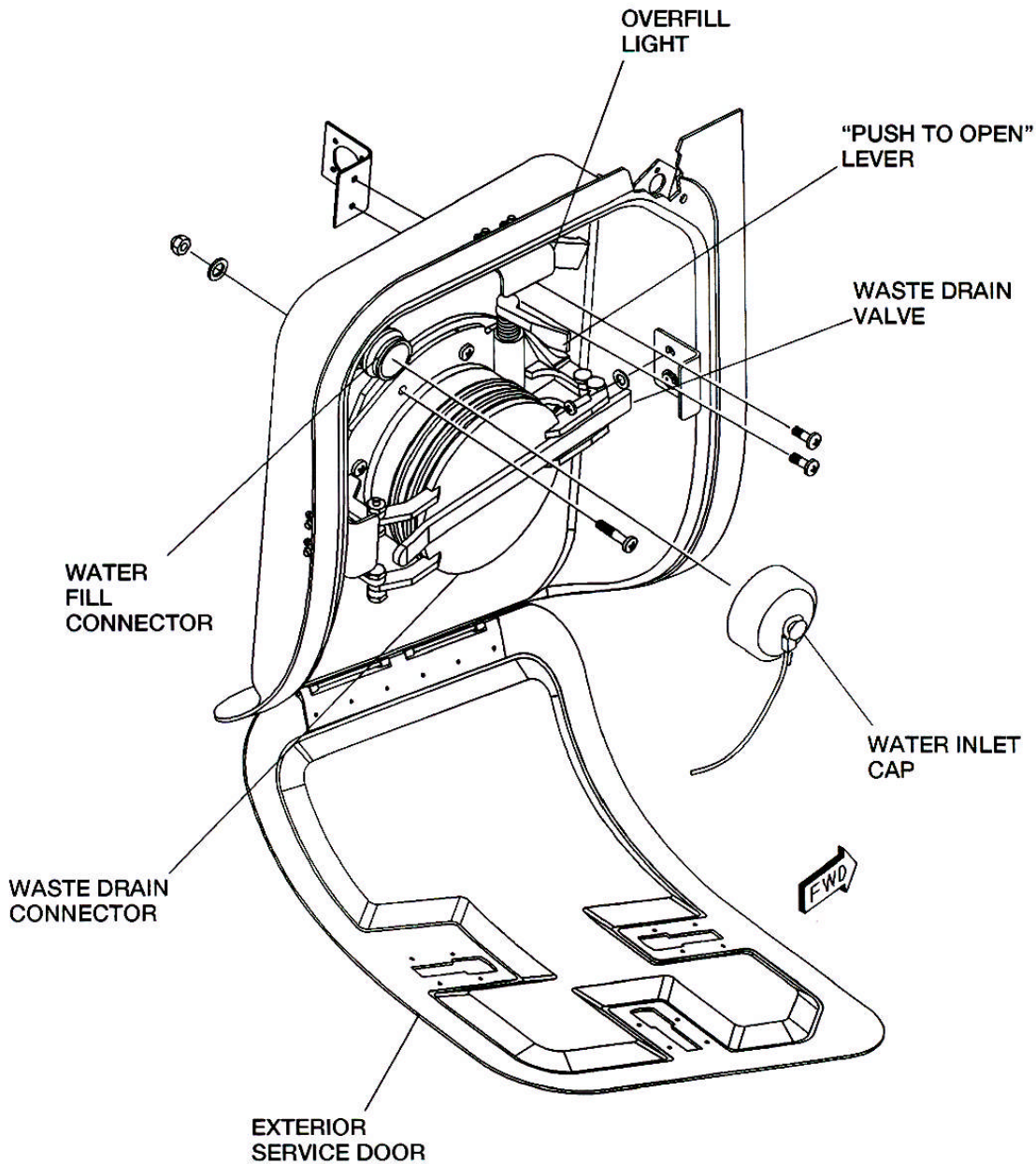
- (1) Open airplane exterior service panel door.
- (2) Remove water filler cap; open waste drain valve outer door.
- (3) Connect water fill hose and waste drain hose from ground service unit to airplane service panel connections.
- (4) Toggle PUSH TO OPEN lever on upper edge of waste drain valve to open inner waste drain valve flapper door.
- (5) To dump waste, pull drain valve handle and turn to lock.
- (6) Turn inlet water on and rinse tank with drain valve open.
- (7) Release drain valve handle and fill tank with 3.0 gallons of water.
- (8) Turn water OFF and open drain valve to empty tank.

NOTE: Maximum capacity of toilet tank is 4.0 gallons.

- (9) Note overflow light.
- (10) Release drain valve handle, charge toilet tank with 1.50 gallons of chemical to precharge level.
- (11) Note precharge level light.

- (12) Disconnect water fill hose and waste drain hose from airplane service panel connections.
- (13) Replace water filler cap and close outer waste drain valve door, which in turn closes the inner flapper door.
- (14) Close and secure airplane exterior service panel door.

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



Externally Serviceable Flush Toilet
Figure 301 (Sheet 1)

VANITY WATER SUPPLY - SERVICING

1. General

A. The aft vanities with wash basins incorporate running water. The type of vanity installed determines the location of the water storage tank(s).

2. Description

A. Deluxe Vanity Water System (without Clothes Closet).

- (1) Vanities without clothes closets have the water system installed below the wash basin. Each stainless steel hot and cold water storage tank has a capacity of 1.45 gallons.

B. Vanity (with Clothes Closet).

- (1) The aft vanity with closet is of the modular type. The water system is a gravity-feed system consisting of a single storage tank, pressure transducer and necessary tubing to the faucet. The water may be heated when desired.
- (2) Vanities with clothes closets, having water supply system installed in the closet cabinet, routes water from water tanks through hoses and pumps to the vanity water basin. The cold water storage tank has a capacity of 1.45 gallons (5.489 l) and is located above the hot water storage tank. The hot water storage tank has a capacity of 1.00 gallon (3.785 l) and incorporates a heater.

3. Servicing Vanity Water Supply System

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

A. Service Water System (Deluxe Vanity without Closet).

- (1) Gain access to the hot and cold water tanks by partially opening the water tank drawer just below the wash basin. The water hoses prevent fully opening the drawer.

WARNING: THE RIGHT WATER TANK (LOOKING AFT) INCORPORATES AN ELECTRICAL HEATER. PRIOR TO HANDLING THE HOT WATER TANK, VERIFY IT HAS COOLED TO PREVENT PERSONNEL INJURY.

- (2) Disengage the WATER circuit breaker located near the right water tank.
- (3) Disconnect the water hoses from the water tanks at their quick-disconnects. Pull drawer to the full open position.

NOTE: The water hose quick-disconnects prevent drainage of water that may be left in the tanks.

- (4) Unbuckle the tank tie down strap.
- (5) Remove the tanks from the drawer. The electrical connector for the hot water tank heater will disconnect as the tank is removed.
- (6) Remove filler caps from the tanks and empty any water remaining in the tanks. Rinse the tanks out thoroughly with fresh, clean potable water.
- (7) Fill each tank with fresh, clean potable water. Verify each filler cap vent hole is clear and install the filler caps.
- (8) Place the water tanks in the drawer. Carefully push the right (hot water) tank in position to connect the electrical connector.
- (9) Secure the tanks with the tie down strap.

- (10) Partially close the drawer and connect the water hose quick-disconnects.
- (11) Verify the water HEATER switch is OFF and engage the WATER circuit breaker.
- (12) Check for water flow from the faucets by opening each (hot/cold) faucet. The water pumps are self priming.
- (13) Close and latch the water tank drawer.

B. Service Water System (Vanity with Closet).

- (1) Gain access to the water tank(s) inside the clothes closet. Unlatch the door/panel located on the closet side wall.

WARNING: PRIOR TO HANDLING A HOT WATER TANK, VERIFY THAT IT HAS COOLED TO PREVENT PERSONNEL INJURY.

- (2) Disengage the circuit breaker for the water tank heater located in the closet.

NOTE: The water hose quick-disconnects prevent drainage of water that may be left in the tank(s).

- (3) Release the tank(s) at the hold down(s) and remove the tank(s). The electrical connector for the hot water tank heater will disconnect as the tank is removed.
- (4) Remove filler caps from the tanks and empty any water remaining in the tanks. Rinse the tanks out thoroughly with fresh, clean potable water.
- (5) Fill the water tank(s) with fresh, clean potable water. Verify each filler cap vent hole is clear and install filler caps.
- (6) Place the water tank(s) in the cabinet. Carefully push the hot water tank in position to connect the electrical connector.
- (7) Secure the tank(s) in place with the hold down(s).
- (8) Water pump systems: verify the water switch is OFF, and engage the WATER circuit breaker; then, turn water switch ON to check for water flow.
- (9) Check for water flow from the faucets by opening each faucet (hot/cold).
- (10) Close and latch the door/panel.

4. Freeze Protection in Cold Weather

A. The vanity water system is subjected to water freeze damage when the airplane remains in below freezing weather, such as over night or longer. The following action should be taken to prevent freeze damage.

- (1) Remove the water tank(s). Refer to Servicing Vanity Water Supply System procedures, in part, for removal of the water tank as applicable to the vanity installed.
- (2) Gravity flow systems: open the faucet and empty the water tank.
- (3) Water pump systems: verify the WATER PUMP switch is ON, and hold the faucets OPEN until the water flow stops and the pumps shut off.
- (4) The water system is now drained sufficiently to withstand subfreezing temperatures.

B. To return the vanity water system to operation, service the water tank(s). Refer to Service Vanity Water Supply System procedures, in part, as applicable to the vanity installed.

- (1) Verify water flow; then close faucet(s).