Disassembly

1. Fuse Replacement
   A. Remove two (2) 03923 cover mounting screws and 03924 motor cover Assy. (Figure 1).
   B. The fuse is now readily accessible for checking or changing.

2. Switch Removal
   A. Disconnect lead wires from power source (Figure 1).
   B. Remove two (2) 03923 cover mounting screws and 03924 motor cover Assy. (Figure 1).
   C. Remove switch retaining nut and remove wires from switch terminals.

3. Pump Removal
   A. Complete steps 2A and 2B above.
   B. Completely evacuate unit.
   C. Remove cover and bowl assembly screws (two (2) 03979 in rear from top side and two (2) 03943 in front from bottom side) and remove 03912 cover and bowl assembly (Figure 1).
   D. Remove four (4) 03925 pump mounting screws (Figure 1).
   E. Disconnect 03946 flush tube from pump outlet (Figure 1).
   F. Remove 03950 pump assembly (Figure 1).

4. Slide-Ez Valve Removal
   A. Disconnect lead wires from power source (Figure 1).
   B. Completely evacuate unit.
   Note: If you have an 03920 extension handle unit, cotter pin and extension handle must be removed at this point (Figure 2).
   C. Remove two (2) 03915 moulding mounting screws and remove two (2) base moldings (Figure 3).
   D. Remove slides by catching tabs with a hooked instrument and pulling forward.
   E. Lift Electra Magic from closet flange and invert unit.
   F. Remove four (4) 01563 screws and remove valve (Figure 2).

5. Sump Removal
   A. Complete steps 4A through 4D above.
   B. Remove flexible hose from sump and invert unit.
   C. Remove (4) 01663 screws and remove sump (Figure 3).

All chemicals are not created equal.

Aqua Kem® Holding Tank Deodorant:
- Fresh pleasing odor
- Starts working instantly
- Lasts longer
- Compatible with all sanitation systems
- Liquid concentrate
- Biodegradable
- Non-corrosive
- Septic tank safe
- Child-resistant cap
- 8-oz. and 32-oz. bottles

Aqua Soft® Toilet Tissue:
- Soft snowy white tissue
- Flushes easily from bowl
- Disintegrates rapidly in holding tanks
- Helps prevent messy clogs
- Recommended for portable and fixed sanitation systems
- Unique in reusable drawstring dirty bag
- Four rolls per package

Aqua K-7® cleans and polishes seven surfaces: plastic, vinyl, wood, leather, metal, fiberglass—even Formica™. Just squirt it on, wipe it off and watch it shine. Gives newness to your boat, camper, RV—plus many household items.

Aqua Bowl® Cleaner. Don’t waste your precious vacation cleaning! In just 15 scrub-free minutes, a capful of Aqua Bowl leaves the toilet bowl clean and fresh. Nonabrasive soft scour. Freshens and cleans portable holding tanks for raue and storage. Harmless to plastic parts, mechanical parts and seals. And use it at home. It’s perfect for porcelain bowls, too.

Specially formulated by Thetford.

THETFORD
For the love of all outdoors

Thetford Electra Magic® whisper-quiet and clog-free.

With Electra Magic, Thetford has revolutionized the recirculating toilet. You get all the space and watersaving advantages of recirculation... without any of the disadvantages.

Thetford’s Electra Magic Recirculating Toilet System is a 100% self-contained sanitation system which requires no pressure water connection or holding tank installation (an optional holding tank may be installed to increase total capacity). The Electra Magic is operated by a simple 12 Volt D.C. hookup.

Thetford’s unique dual filtration system puts an end to unpleasant clogging. The exclusive filter cone assures that only filtered fluid is delivered to the recirculating pump.

On the front of the Electra Magic is the Prismagic Level Indicator (another Thetford exclusive) which shows at a glance the content level of the recirculating tank. It also shows you the correct charge level and exactly when to evacuate the toilet.

Electra Magic’s patented Slide-EZ Valve design ensures leakproof performance. And it’s backed by quality control testing of every unit.

Electra Magic, Whisper-quiet and clog-free.
FIGURE 2* WITH VALVE
Model 03900 and 03920 Electra Magic includes valve for direct termination to holding tank.

Key Part No. No. Description
---    ---    ------------------------------
1       08636 Mtg. Bracket (2)     08637 Slide (2)
2       03911 Handle              3       03913 Retaining Ring
4       01663 Screw (4)           5       03632 Slide-Ez Valve
6       02125 Flange Seal          7       08638 Nut (2)
8       03919 Closet Stud (2)

FIGURE 3† WITH SUMP
Model 03930 Electra Magic includes sump for pump-out evacuation for dockside discharge.

Key Part No. No. Description
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1       03940 Sump Asm.
2       01663 Screw (4)           3       03946 Closet Screw Pkg.
4       08636 Mtg. Bracket (2)     5       08637 Slide (2)

* These parts pertain to 03930 Extension Handle units.
† These parts pertain to 03930 Marine units.

Installation

RV INSTALLATION INSTRUCTIONS
1. Install the two closet bolts in closet flange.
2. While holding bolt up so that head touches underside of closet flange, install one nylon nut on each bolt and screw nuts down until they touch top of gauge (if gauge is misplaced, bottom surface of nuts should be 30 in. above floor).
3. Turn Electra Magic upside-down and install closet flange seal on Slide-Ez Valve with flat side against toilet.
4. Make sure white fork-shaped slides are in forward position.
5. Place unit on closet flange and locate position for plastic locator disc by tracing around one of the front legs. Drill 5/32 dia. hole in floor and fasten disc to floor with flat sides oriented as shown. Use #10 screw provided. Important. This disc prevents toilet from moving on floor.
6. Lower Electra Magic onto closet flange until nuts on closet bolts in closet flange and metal brackets, seal rests on closet flange, and leg locates over locating disc.
7. Insert a screwdriver or other long rigid instrument under toilet and with a sharp blow drive each slide back until it slides under nut and snaps into position.
8. If slides cannot be driven by one or two blows, remove toilet and adjust each nylon nut one-half turn upward and repeat procedure from Step 4.
9. If the toilet wobbles excessively, remove slides by catching tabs with a hooked instrument and pulling forward, as shown below. Lift toilet off, adjust each nylon nut one-half turn downward and repeat procedure from step 4.
10. The unit should now be firmly anchored to the floor.
**LIMITED 1 YEAR WARRANTY**

You have just purchased one of the finest recreational products made. It is warranted subject to the following terms and conditions:

1. Thetford products are warranted to the original owner for a period of one (1) year from the date of purchase. The warranty may provide for repair, exchange of parts or replacement of defective unit as necessary, including labor, upon the condition that any necessary repairs, etc. be performed through a Thetford Certified Service Center.

2. Units returned under this warranty will be inspected. Damages which in Thetford's judgment occur from misuse, negligence, accident, or any other unreasonable use shall invalidate this warranty. In addition where the product has been tampered with or altered in any way or if the serial number or date of manufacture stamp has been effaced, altered, or removed, this warranty is void.

3. Should an owner possess a unit believed to be defective he must insure that said unit is returned to a Thetford Certified Service Center. The Service Center will determine whether or not the warranty claim is valid. If the Thetford Certified Service Center finds the unit or part defective and is a proper warranty claim, repairs will be made free of charge and returned prepaid to the owner. Your Thetford unit or part may be returned to Thetford Corporation, P.O. Box 1265, Ann Arbor, Michigan, in lieu of returning such to a Thetford Certified Service Center.

4. No other express warranty is given and no person or representative is authorized to make any warranties or assume any liability by words or action which shall constitute a warranty other than that which is contained herein.

**MARINE INSTALLATION INSTRUCTIONS**

**CAUTION:** Toilet is not explosion proof, and must not be located in an area where an explosive atmosphere exists, such as gasoline fumes, etc.

1. Install white fork-shaped slides on brackets. Make one right bracket assy and one left bracket assy. Right bracket assy shown.

2. Mount bracket assys and sump to bottom of toilet with four screws. As shown in Marine Installation drawings brackets are sandwiched between sump and toilet.

3. Locate toilet position with template and install bolts in floor by drilling (7/32 dia.) hole in floor, putting acorn nut on bolts, and driving bolts into floor with wrench. Remove acorn nuts.

4. Also using template, locate position for plastic locator disc. Drill 5/32 dia. hole in floor and fasten disc to floor with flat sides oriented as shown. Use #10 screw provided. Important. This disc prevents toilet from moving on floor.

5. Install one nylon nut on each bolt and screw nut down until it touches top of gauge (if gauge is misplaced, bottom surface of nut should be .30 in. above floor).

6. Lower Electra Magic over bolts until nylon nuts go through rectangular holes in metal brackets and the unit rests on its feet.

7. Insert a screwdriver or other long rigid instrument under the toilet and with a sharp blow drive each slide back until it slides under nut, and snaps into position.

8. If slides cannot be driven by one or two blows, remove toilet and adjust each nylon nut one-half turn upward and repeat procedure from Step 6.

9. If the toilet wobbles excessively, remove slides by catching tabs with a hooked instrument and pulling forward, as shown below. Lift toilet off, adjust each nylon nut one-half turn downward and repeat procedure from Step 6.

10. The unit should now be firmly anchored to the floor.
The non-stop way to evacuate holding tanks. Thetmasan waste destruction systems.

Free yourself from routine stops to dump your RV holding tank. Let Thetmasan destroy waste as you drive. All you do is flip a handy switch. Thetmasan does the rest, automatically.

Holding tank wastes are metered into the exhaust system, where super-hot exhaust gases reduce wastes to an invisible, bacteria-free condition. Special speed and heat sensors disallow incomplete waste destruction, to meet National Sanitation Foundation requirements.

Thetmasan systems permit tailoring an installation for nearly any Motor Home. Installed by manufacturers of all leading Motor Homes, Cr can be installed on your coach by your Thetmasan dealer.

**Thetmasan 600 system**
For Motor Homes with one holding tank containing both waste water and toilet waste. Disposal rate: about 1 gallon per 15 miles of highway driving.

**Thetmasan 2-500 system**
For Motor Homes with two holding tanks, one for waste water and one for toilet waste. Disposal rate: about 1 gallon (1/2 gallon per tank) per 15 miles of highway driving.

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**Electrical Hookup**

Connect directly to 12 volt DC Source as a separate circuit. Use minimum size #14 gauge wire. (Black wire to positive, hot; white to negative, ground).

**Important**—Be sure polarity of power supply has been properly determined and correctly connected to lead wires before operating.

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**Operating Instructions**

1. **Initial Flush Charge**
   A. Pour approximately three gallons of water in bowl (until water reaches the charge level (C) on indicator lens).
   B. Add eight ounces of Aqua Kem® Concentrate holding tank deodorant.

2. **To Flush**
   Depress flush button.
   **NOTE:** Do not depress button when unit is empty.

3. **To Evacuate**
   The Electra Magic Models 03900 and 03920 are fitted with a termination valve on the bottom of the unit. Depending on the installation, one of the following procedures should be followed:
   A. Without holding tank: attach discharge hose to outlet and open termination valve.
   B. With holding tank: open termination valve, this dumps contents of unit into the holding tank.

4. **Evacuation Prior to Temporary Storage**
   A. Completely evacuate unit as described above.
   B. Refill unit to bottom of bowl with fresh water.
   C. Add a cup of Aqua Bowl® Cleaner.
   D. Cycle three times, by depressing flush button for 10 seconds each.
   E. Let stand a few minutes for cleaning action.
   F. Completely evacuate unit again.
   G. The unit is now ready for storage.

5. **Winterizing**
   A. For winter storage, evacuate unit as described in Step 4.
   B. For winter use, replace one half of the charge water with an approved plastic pipe anti-freeze.

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**Service and Parts**

See warranty section for service information.

Refer to your local Thetford dealer for parts and service.

If it becomes necessary to send parts to a Thetford Certified Service Center for warranty consideration or to contact the factory, please include the following information:

1. Your name and address.
2. The product name, model, serial number, and color.
3. The type of recreational vehicle or boat (Brand Name and year) on which the product is used.
4. The reason for return.
5. Proof of date of purchase.

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**Trouble-shooting**

1. **Symptom:** Toilet wobbles.
   **Cause:**
   A. Closet flange too high.
   B. Mounting surface uneven.
   **Cure:**
   A. & B. Check closet flange height by laying straight edge across flange and measuring gap between straight edge and floor at four (4) leg locations (1/4 to 7/16 inch is recommended).

2. **Symptom:** Flushing action is weak or noisy.
   **Cause:**
   A. Pump is running backwards (reversed wiring polarity).
   B. Cycling unit without enough charge water.
   C. Pump damaged by continuous dry operation.
   **Cure:**
   A. The black wire is positive (hot) and the white wire is negative (ground).
   B. Charge to proper level (three gallons). Fill to charge level (C) on indicator lens.
   C. Replace 03950 pump assembly (see fig. 1).
A. INITIAL FLUSH CHARGE
1. Turn wall valve on to start water flow. (This will create a turbulent sound of running water inside of Electra Magic.

2. Listen for change in sound of running water. (When the unit has sufficient water for initial flush charge, the turbulent sound will cease.) Then turn wall valve off. Water should be at the charge level (c) on indicator lens.

3. Pour one (1) eight-ounce bottle of Aqua Kem Concentrate in bowl and flush to mix.

4. The unit is now ready for use.

B. RINSING PRIOR TO CONTINUING USE
1. Completely evacuate unit.

2. Turn refill on for a few seconds and then shut off.

3. Evacuate unit again.

4. For continued use, recharge unit as described in Item A.

C. RINSING PRIOR TO TEMPORARY STORAGE
1. Completely evacuate unit.

2. Turn refill on for a few seconds and then shut off.

3. Evacuate unit again.

4. Turn refill on and fill unit to within three inches of bowl top--then shut refill off.

5. Add two inches (from the bottle) of Aqua Bowl Cleaner.

6. Cycle unit three (3) times.

7. Let stand for a few minutes for cleaning action.

8. Make final evacuation.

9. The unit is now ready for storage.

D. WINTERIZING
1. Winterize the Electra Magic as described in Owner's Manual.

2. Complete by performing one of the following procedures:
   a. Drain all water lines as recommended by the trailer or boat manufacturer and leave spigots open.

OR

b. Winterize fresh water system with an approved plastic pipe anti-freeze such as Aqua Thaw Recreational Anti-Freeze.
INSTRUCTIONS--INSTALLATION OF 03947 REFILL KIT

A. Remove 03936 Cap and 05656 Splash Guard from the side of the Electra Magic Main Housing Cover on which the refill kit is to be installed.

B. Assemble 05056 Fill Tube Assembly to 05057 Inlet Assembly, noting desired relationship between inlet and flange indexing pin.

C. Put 03948 Gasket in place, aligning all five holes properly.

D. Place fill tube and inlet assembly into the unit, making sure the locating pin goes into the proper hole in the Electra Magic unit, and mount with the screws provided.

E. Tighten down screws.

F. Stretch 05657 Socket Filler over hex body of 05057 Inlet Assembly and work socket filler down until it is flush with the top of main housing cover.

G. Connect water supply to refill kit (05226 Garden Hose Adaptor (furnished) may be used as an option for filling with hose).