



*electra magic*®

- Quiet Operation
- Highest Quality Standards
- Buyer's Warranty
- Prismagic Level Indicator
- Modern Styling
- Solid State Timer
- Largest Self-Cleaning Filtration System

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 DC. hookup. The Electra Magic uses our unique Filtration System to insure that you receive trouble-free performance. On the front of the Electra Magic is the Prismagic Level Indicator. The Prismagic indirectly measures the exact level of the storage tank contents and tells you, at a glance, the correct charge level, the present level of

the contents in the tank and exactly when to evacuate. Solid State controls with no moving parts are incorporated in the unit to make the Electra Magic a complete, minimum-maintenance sanitation system. Add modern styling and Thetford's proven quality and you have the Electra Magic, America's finest recirculating toilet system. The model shown above with the valve is Part No. 03900, with the extension handle it is Part No. 03920. The Electra Magic Marine with sump for dockside discharge is Part No. 03930.



Code Approvals



New York State  
Dept. of Environmental  
Conservation.



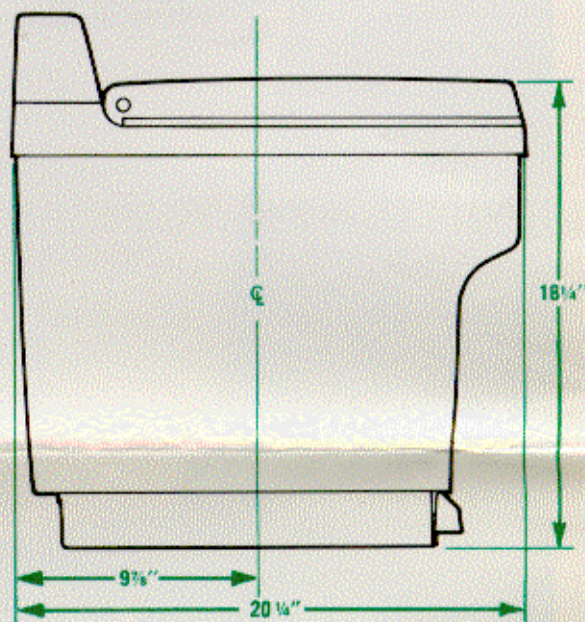
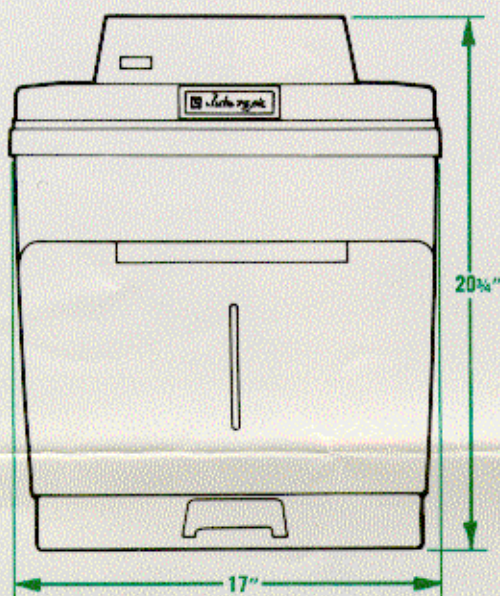
## SPECIFICATIONS

**Capacity:** 3 gallon water charge  
4 gallon waste holding

**Material:** ABS

**Size:** 17" w, 20 $\frac{1}{4}$ " d, 20 $\frac{3}{4}$ " h

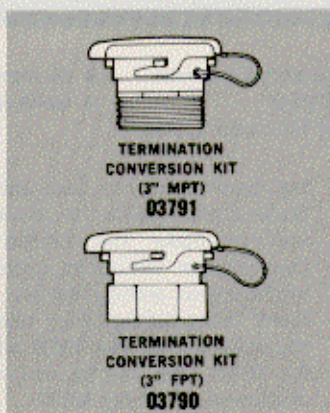
## COMPONENT DIMENSIONS



## ACCESSORIES



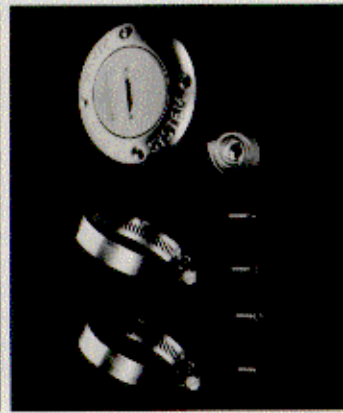
**REFILL PACKAGE**  
03947



**CONVERSION KITS**



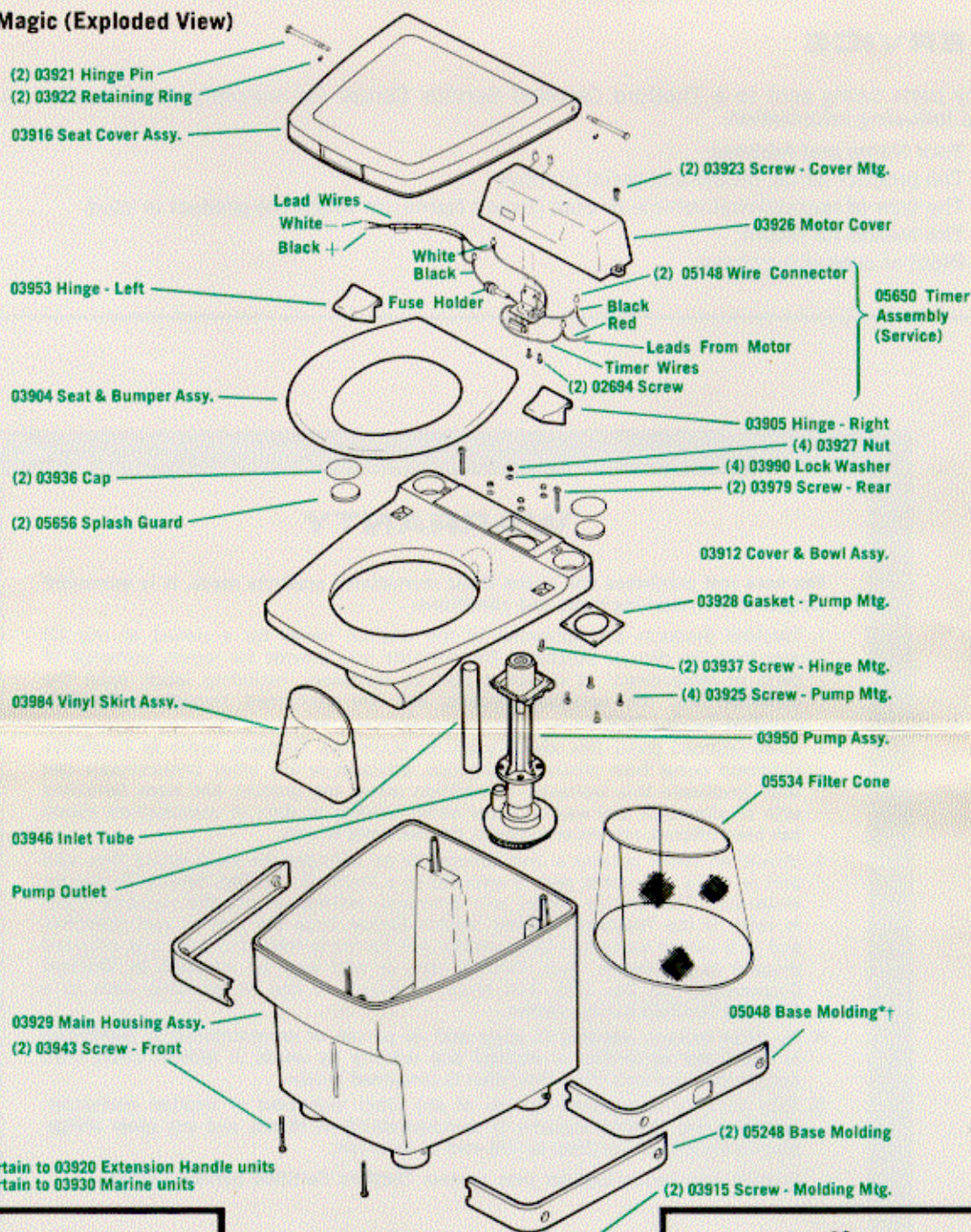
**VENT KIT**  
05223



**DOCKSIDE DISCHARGE**  
05222



# 03900 Electra Magic (Exploded View)



\* These parts pertain to 03920 Extension Handle units  
 † These parts pertain to 03930 Marine units

FIGURE 1

When ordering service parts, please specify color: White, Beige, Avocado, or Gold.

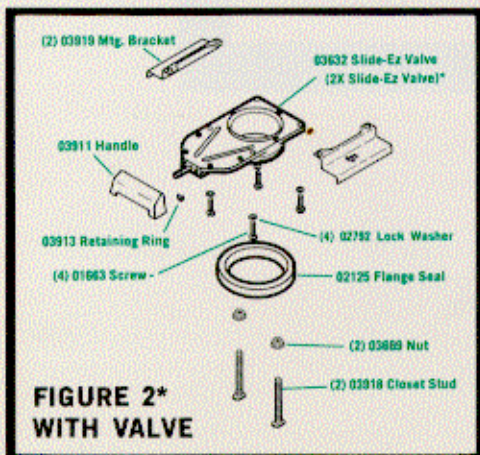


FIGURE 2\*  
WITH VALVE

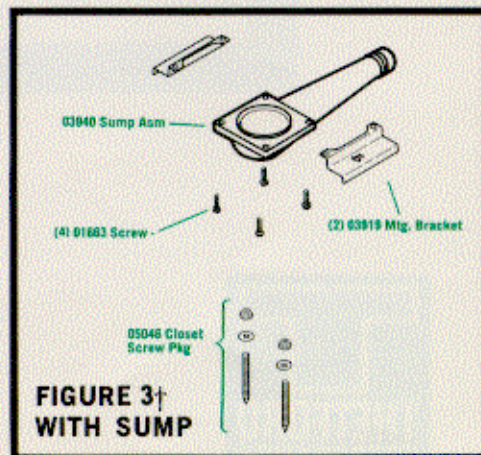


FIGURE 3†  
WITH SUMP



## INSTALLATION

### A. Regular and Extension Handle Units

1. Place one (1) 02125 flange seal on Slide-Ez Valve (Figure 2).
2. Mount unit to standard closet flange with bolt package.
3. Install base moldings (two screws, one on each side). (Figure 1).

### B. Marine Units

1. Mount sump and mounting brackets to bottom of units with four (4) screws (Figure 3).
2. Locate position with template.
3. Mount unit to floor with bolt package.
4. Install base moldings (2 screws, one on each side.) (Figure 1).

### 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.

## DISASSEMBLY OF THE ELECTRA MAGIC

### 1. Fuse Replacement

- A. Remove two (2) 03923 cover mounting screws and 03926 motor cover (Figure 1).
- B. The fuse is now readily accessible for checking or changing.

### 2. Timer Removal

- A. Disconnect lead wires from power source (Figure 1).
- B. Remove two (2) 03923 cover mounting screws and 03926 motor cover (Figure 1).
- C. Disconnect leads from 03950 pump assembly motor (Figure 1).
- D. Remove two (2) 02694 timer bracket mounting screws and 05650 timer assembly (Figure 1).

### 3. Pump Removal

- A. Complete steps 2A through 2C 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 molding mounting screws and remove two (2) base moldings (Figure 1).

- D. Remove two (2) nuts and washers from closet studs (one (1) each side underneath unit). (Figure 2).

- E. Lift Electra Magic from closet flange and invert unit.

- F. Remove four (4) 01663 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 four (4) 01663 screws and remove sump. (Figure 3).

## OPERATING INSTRUCTIONS

### 1. Initial Flush Charge

- A. Pour approximately three (3) gallons of water in bowl (Until water reaches the charge level (c) on indicator lens). Three gallons are required for operation.
- B. Add one (1) eight-ounce bottle of **Aqua Kem Concentrate**.

### 2. To Flush

- A. Depress flush button. (Solid state timer will give a seven (7) second flush cycle.)
- B. For best results do not depress button when unit is empty.



## MAINTENANCE

1. Evacuation Prior to Continuing Use
    - A. Completely evacuate unit.
    - B. Pour approximately three (3) gallons of water in bowl (until water reaches the charge level (c) on indicator lens). Three gallons are required for operation.
    - C. Add one (1) eight-ounce bottle of **Aqua Kem Concentrate**.
  2. Evacuation Prior to Temporary Storage
    - A. Completely evacuate unit.
    - B. Refill unit to within three inches of bowl top with fresh water.
    - C. Add two inches (from the bottle) of **Aqua Bowl Cleaner**.
    - D. Cycle three (3) times.
    - E. Let stand for a few minutes for cleaning action.
    - F. Completely evacuate unit again.
    - G. The unit is now ready for storage. Repeat Items 1B and 1C above to activate the unit for use again after storage.
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## WINTERIZING

1. For winter storage, evacuate unit as described in Item 2 under maintenance.
  2. For winter use, replace one half of the charge water with an approved plastic pipe anti-freeze.
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## TROUBLE-SHOOTING

1. Symptom:  
Toilet wobbles.  
Cause:
  - A. Closet bolt nuts not tight.
  - B. 03919 mounting brackets not seated to floor (see fig. 1).
  - C. Closet flange too high
  - D. Mounting surface unevenCure:
  - a. & b. Tighten closet bolt nuts.
  - c. & d. 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:  
Toilet cycles when seat cover is raised.  
Cause:  
Actuator button protrudes too far from motor cover.  
Cure:  
Alternately press one side of the button, then the other, to work button back further into housing. If button still protrudes too far, replace 05650 timer assembly (see fig. 1).
3. Symptom:  
Toilet does not cycle properly (5 to 9 seconds) when button is pressed.  
Cause:
  - A. Reversed wiring polarity.
  - B. Battery run down.
  - C. Branch wire too small.
  - D. Damaged timer.Cure:
  - a. The black wire is positive (hot) and the white wire is negative (ground).
  - b. Recharge battery.
  - c. Branch wire should be #14 guage minimum.
  - d. Replace 05650 timer assembly (see fig. 1).
4. 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).
5. Symptom:  
Lack of capacity  
Cause:  
Too much charge water.  
Cure:  
Use three gallons only to charge. Fill to charge level (c) on indicator lens.



## SERVICE

Any parts being sent to a Thetford Certified Service Center for warranty consideration must include the following information:

1. Your Name and Address
  2. The product name, model and serial number
  3. The type of recreational vehicle or boat [Brand Name] on which the product is used.
  4. The reason for return.
  5. Proof of date of purchase.
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## 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 the necessary repairs, etc. are 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 or easily removable part is returned to a Thetford Certified Service Center for inspection. 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 1285, 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 what is contained herein.
5. This warranty is expressly in lieu of any other expressed or implied warranties, including any implied warranty of merchantability or fitness and any other obligation on the part of Thetford, unless void by local law.

Consult your Dealer List for your nearest Thetford Certified Service Center.

