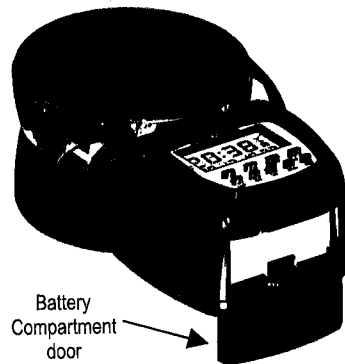
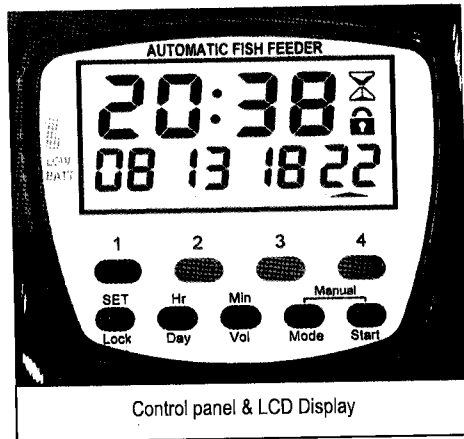


# Automatic Fish Feeder (FF-03)

## Instruction Manual

### Control Panel

- 1, 2, 3, 4 (Meal Keys) – for setting the meal times
- Hr/Day – used to set the hour time and feeding days
- Min/Vol – used to set the minute time and feeding volume
- Mode – Switch/toggle between clock and schedule display mode. Also used with **Start** key to perform manual feeding
- Start – used with Meal Keys to turn ON or OFF the desired meal time
- Lock/SET – Used to toggle between lock and set modes
- LOW BATT – Blinking red light indicates that the batteries are running low and should be replaced



### Before operation

#### IMPORTANT

If you are keeping fish that eat more than 0.75cc of food each time, you should remove the volume reducer before you insert the batteries (refer to the section "Removing the Volume Reducer" for details)

1. Slide open the battery compartment.  
*IMPORTANT: Do not hold the unit by the food hopper.*
2. Insert two AA-size alkaline batteries into the battery compartment and replace the cover.  
The unit will turn ON immediately by itself and the food hopper will rotate to it's 'home position' while "12:00" will show on the top row of the LCD display.

**IMPORTANT:** Make sure that the batteries are placed in the correct orientation/polarity otherwise the unit will not work.

3. You must now set the reference time for the feeder to work accurately. Refer to the "Setting the Reference Time" section to set the current time.

#### Note:

Stopping the hopper from rotating will damage the unit.

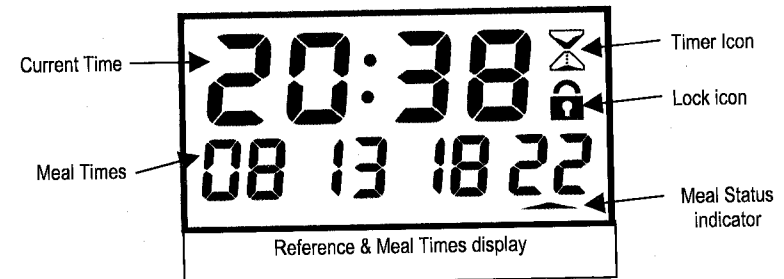
The bottom row shows 4 pairs of digits which are the feeding times for the 4 meals.

### Operation

#### 1. Setting the Reference Time

If the time isn't showing, press the **Mode** key once to display the time.

1. Press and hold the **Lock** key for over 2 seconds to enter set mode. The top row (4 digits) are now blinking and the lock icon will now turn OFF.
2. Press the **Hr/Day** key to set the present hour.
3. Press the **Min/Vol** key to set the present minute.
4. Press the **Lock** key once to save and complete your settings...



...otherwise continue with your other settings.

A beep will sound to indicate that your settings have been completed.

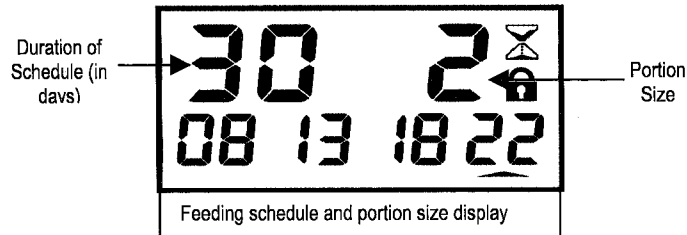
#### 2. Setting the (Feeding) Schedule's Duration and Portion Size

If the feeding schedule isn't showing, press the **Mode** key once to display the schedule.

- 1) Skip this step if the lock icon is OFF otherwise press and hold the **Lock** key for over 2 seconds to enter set mode.  
The top row will now blink.
- 2) Press the **Hr/Day** key to set the number of days you want the schedule to run.

An alarm will sound when the schedule is finished.  
Set the duration to 0 (zero) to feed without the alarm.

- 3) Press the **Min/Vol** key to set the desired portion size.  
A value of 1 = 0.75cc of food so 2 = 1.5cc, 3 = 2.25cc, etc.  
Refer to the "Using the Volume Reducer" section for larger portion-sizes.
- 4) Press the **Lock** key once to save and complete your settings...  
...otherwise continue with your other settings.  
A beep will sound to indicate that your settings have been completed.



**Note:**

**To avoid overfeeding:** Check to see how much food your fish can eat in 5 to 10 minutes and use that as a guide.

**To turn schedule OFF:** Set the Schedule Duration to zero (0).

**3 Setting the Meal Time(s) and Feeding Frequency**

- 1) Skip this step if the lock icon is OFF otherwise press and hold the **Lock** key for over 2 seconds to enter set mode.  
The top row (4 digits) are now blinking and the lock icon will now turn OFF.
- 2) Press and hold the **Start** key and then the desired **Meal Key** to toggle ON or Off the meal time.  
Pressing the same will turn the meal OFF if it is already ON.  
Up to 4 meals can be turned ON.
- 3) Press the **Meal Key** below the meal time to set the meal time if the digit is ON.
- 4) Press the **Lock** key once to lock and save your entries...  
...otherwise continue with your other settings.

**Note:**

**To stop feeding:** Turn OFF all 4 meals and no digit will be displayed on the bottom row. The timer icon will also turn OFF.

The feeding schedule will start automatically if any meal time is turned ON and will continue every day.

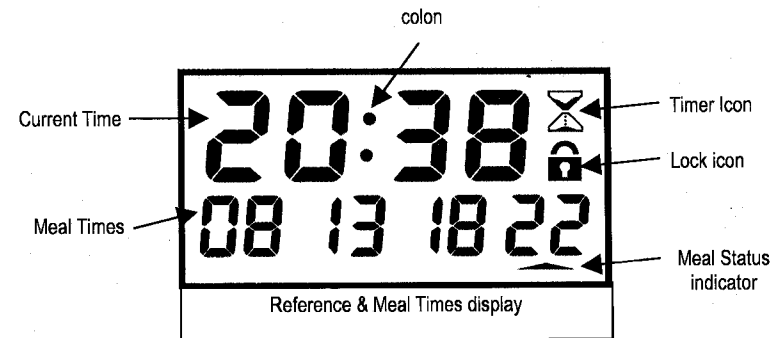
**Setting the meal time in increasing order is a must** (i.e. 4<sup>th</sup> meal-time > 3<sup>rd</sup> meal-time > 2<sup>nd</sup> meal-time > 1<sup>st</sup> meal-time) otherwise...  
...the faulty meal-time setting and the remaining meals(s) will not be served.

**If you turn off the alarm,** the feeding schedule will restart automatically.

**4 Manual feeding of your fish**

Under lock mode, press the **Start** and **Mode** keys together, once.  
Only 1 volume will be dispensed.

Your schedule and quantity settings will not be affected.



**5 Reviewing the settings**

Press the **Mode** key to toggle between the current time display and (feeding) schedule display.

Under schedule display mode, the colon is not displayed.

**Note:**

- a) On the top row, the 1<sup>st</sup> and 2<sup>nd</sup> digits indicate the feeding duration (length of schedule in days) while the 4<sup>th</sup> digit is for the feeding volume.
- b) The bottom row shows the time in hours for the active meals.  
To activate a meal, refer to "Setting the (Feeding) Schedule's Duration and Portion Size" section.
- c) Below the meal time digits are the Meal-status Indicators.
  - No indicator means the time has already passed.
  - A blinking indicator means the time is the next meal time.
  - A solid indicator means the meal time has not been reached.

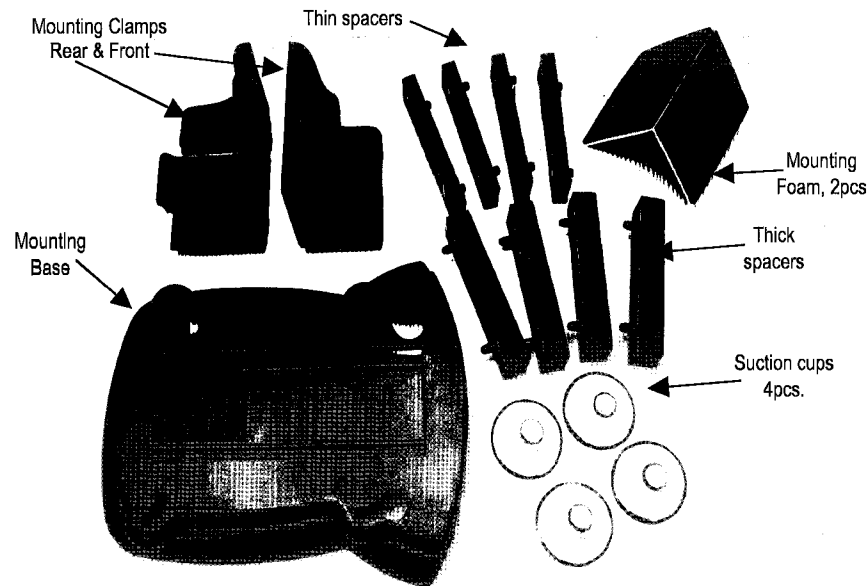
**6 End-Of-Schedule(EOS) Alarm**

- Your new Automatic Fish Feeder has an ALARM (a continuous beeping) to alert you to when your feeding schedule has ended.

- The EOS alarm will start at 6:00am the next day to avoid disturbing anybody during the night.
- You can press any key to turn off the alarm
- The feeder will continue to feed even if the alarm is on.

## General Notes

- The clock will only display in 24 hour format (military time).
- The schedule duration can be changed at any time but the previous schedule will be replaced and start from the 1<sup>st</sup> day.
- The meal time(s) and feeding-volume can be changed at any time and the new settings will be kept for the rest of the schedule.
- Once the schedule has started, the **DAYS** displayed will be deducted by 1 every day at 0:00(midnight) until the end is reached. It will then reset itself back to the number of **DAYS** you had originally entered.
- If the **LOW BATT indicator(red light) blinks**, the batteries are low and must be replaced as soon as possible.



Pic. 1 – Mounting parts

## Package Contents

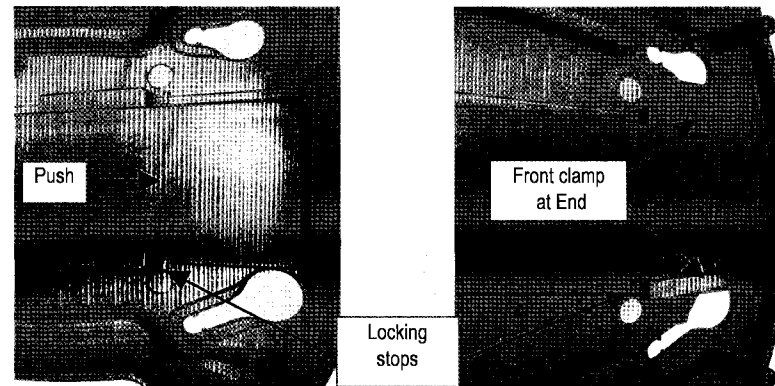
Your Fish Feeder comes pre-assembled with the base already attached to the bottom of the unit. The accessories are placed in the food-hopper while the 2 pieces of foam padding are in the poly-bag that hold the unit.

Pic. 1 – Mounting parts, shows the items included for installing it onto a fish-tank.

## Installing the unit

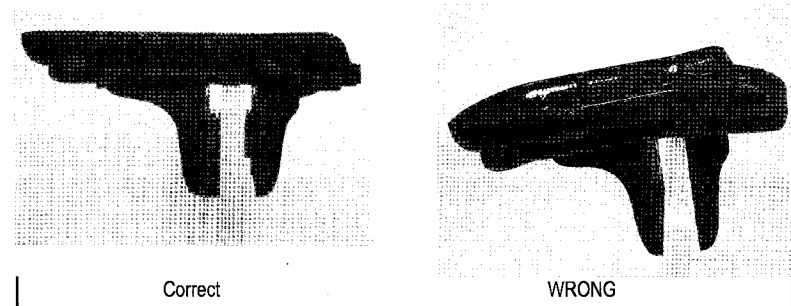
### 1 Attaching the Mounting Clamps

- Slide the front mounting clamp in from the back towards the front. When it reaches the locking-stops (left picture), just push slightly harder and it will



move to its final position (right picture).

- Slide the rear mounting clamp in half way and turn the mounting base over.



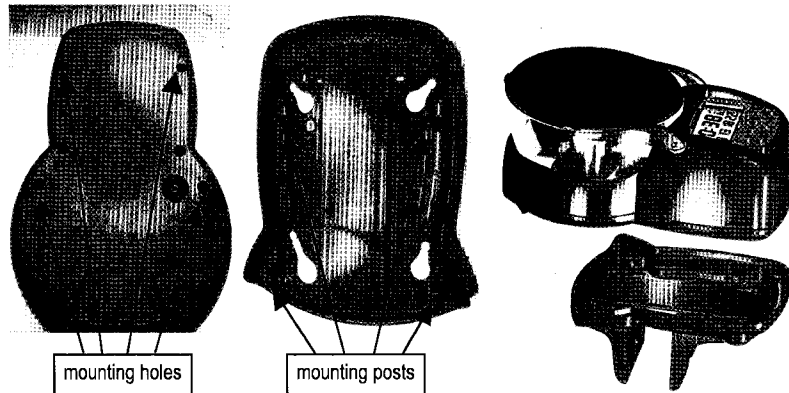
Now, adjust the space between the clamps to the general thickness of the fish tank's edge.

- Test the fit by placing it on the edge of the fish tank and squeezing the clamps together to achieve a snug fit.

*The unit **should not look like** the above-right picture.*

## 2 Attaching the unit to the Mounting Base

- Line up the mounting posts with their corresponding holes on the mounting base.

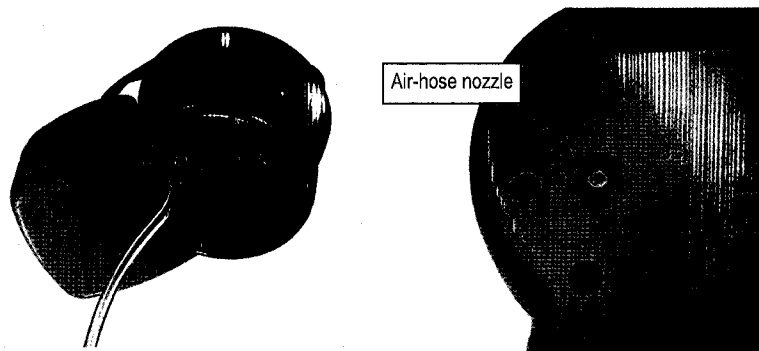


- Carefully press the base into the unit securely.  
*The unit can now be installed onto the fish tank.*

## Connecting an Air Hose to the unit

*To keep the fish-food from clumping together while in the hopper, an air-hose from your pump can be connected to the unit (as instructed below).*

- Turn the unit upside-down and you will see the air-hose nozzle (right picture).



- Insert the air-hose through the mounting base hole and connect it to the air-hose nozzle tightly (see illustration above).

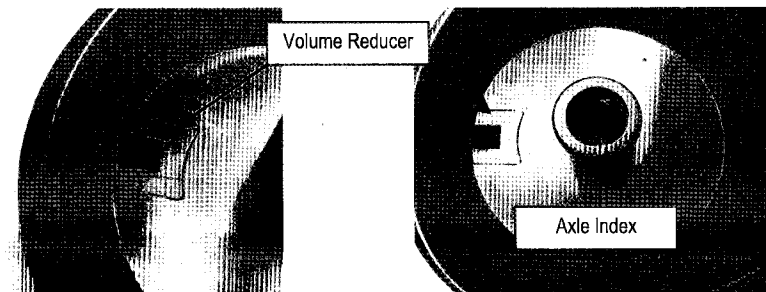
## Removing the Volume Reducer

*The fish-feeder comes with the volume reducer already installed in your unit and effectively halves the portion sizes.*

*Without it, a volume-setting of 1 will yield 1.5cc (2 gives 3.0cc while 3 will equal 4.5cc, etc).*

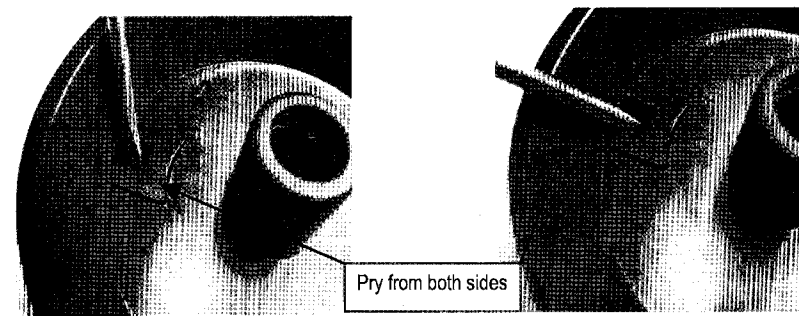
*If you are keeping larger fish that require larger portions, please follow the instructions below to remove the Volume Reducer.*

- If there are no batteries in the unit then move on to step 2 otherwise remove the batteries first.
- Holding the unit firmly with one hand and the food hopper with the other, gently pull off the hopper.



*You should be able to see the Volume Reducer now (picture above). Note the axle index.*

- Using a small flat-head screw-driver (as below), carefully and softly pry out the reducer one side at a time until it can be easily removed.



- Re-install the food-hopper back onto the feeder by aligning the hopper's axle index to the feeder's (see step 2 above) and pressing them together.