



## ***TM* Drain Master Marine Ballast Valve Operating Instructions/Warranty Wake Ballast Systems**

8/9/2011

Congratulations on the purchase of your new sports boat. Your boat comes equipped with Drain Master Marine, Electric Ballast Valves. We are confident that our product will be a true benefit to your future boating experience.

- Your Drain Master Marine valve is extremely easy to use and requires little maintenance.
- Before you use your wake system, make sure you have read and understand how the wake system works.
- **NOTE:**

***If your boat has an LCD display and the Ballast system is controlled by it, you will need to refer to the manufacturers Ballast Operating Instructions for directions.***



Center OFF Momentary Switch (light "Off")

Port, Starboard and Forward Ballast Switch (if equipped)

- When you are ready to fill your ballast tanks, **simply push the switch up toward the word "open"** and hold it for no more than 2 seconds. The ballast valve opens, the light in the switch comes on and the ballast tanks will fill completely in approximately 1 minute depending on ballast capacity. ***Your boat must not be moving when filling the tanks.***
- **The ballast valve will open in 1-2 seconds**, which means you don't have to hold the switch in the open position for more than 2 seconds. Holding the switch longer will pop the 5 amp fuse! The Light in the switch will be on as long as the Ballast valve is Open!

## Center OFF Momentary Switch



**L.E.D. Light "ON"**

- When the ballasts are full, **simply close your valve, by pushing the rocker switch to the "close" position.** Again, the valve will close in 1-2 seconds. The Light in the switch will go Off!
- **Never hold the switch in the open or closed position for more than 3 seconds.**
- When you are ready to empty or adjust your ballast tanks, **push the switch up toward the word "Open"** and hold for no more than 2 seconds. Open and Close work exactly the same so use the same procedure to fill and dump. **The only exception is when dumping the ballast water, the boat has to be moving forward fast enough to expose the ballast drain inlet/outlets.**
- **IMPORTANT:** Should you ever lose power to your boat, you can open or close the valve manually. **To do this, use the supplied 1/8" Allen Wrench secured on the back of the valve.** On either side of the Drain Master Marine Ballast Valve, you will see the words *Manual Override* on the upper center area. The words Open and Close with directional arrows provide directions in which you will turn the hex head in the middle of this wording. Turn in the direction you need. There will be resistance as you are overriding a safety clutch. Turn until the shaft stops. The gate will fully open or close with about a turn and a half with the Allen Wrench. When convenient, check and correct electrical problem. \* see attached picture. NOTE: The manual override was designed for use in emergency situations only (i.e., loss of power, problem with valve) – It is not meant to replace the switch.
- **NOTE:** If your valve becomes sluggish, you may need to remove the valve and remove debris from the gate area. Change and lubricate the seals, (only the seals purchased from Drain Master Marine will work with this valve, Part #DM30-SB). Lubricate the seals with Dow Corning 111 only.



## ***Complete Valve Assembly***

### NOTE:

One valve is required for each Ballast tank.

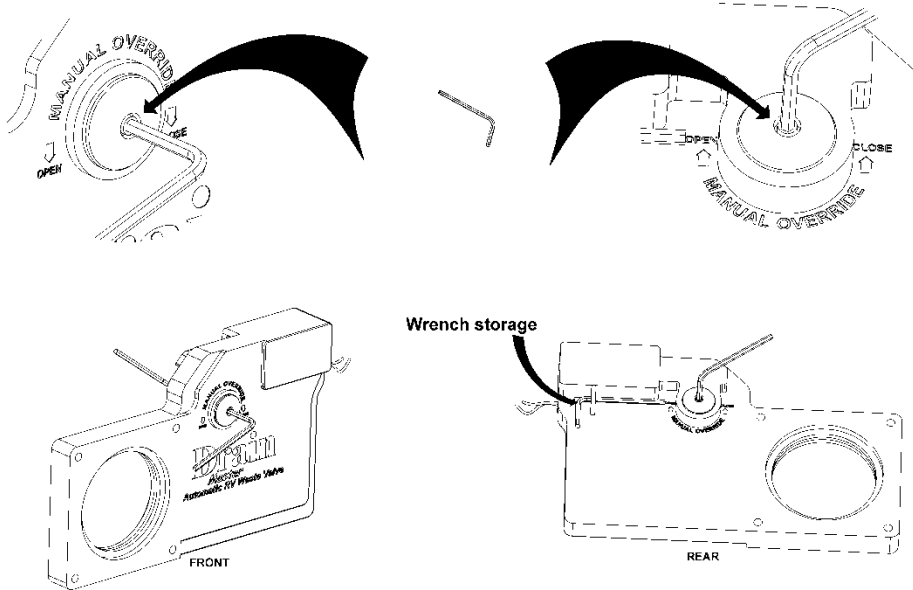
### ***To remove the ballast valve:***

Disconnect the electrical plug. Loosen rubber couplings with the band clamps furthest from the ballast valve assembly. Remove the 4 7/16 SS nuts and bolts from the flanges holding the ballast valve in place. Slip the rubber couplings back on the pipes from the transom and to the ballast tank about 1" each. The ballast valve should be easy to remove.

### ***To replace the ballast valve:***

Grease the ballast valve gate on both sides with Dow Corning 111 grease or equivalent. Non petroleum base. ***Makes sure the gate on the ballast valve is closed! Place the 2 seals on the flanges, NOT IN THE BALLAST VALVE!. Pull the flanges back into place and install the 4 SS bolts and nuts, FINGER TIGHT! Now tighten NO MORE than 1.5 full turns with a 7/16" wrench Reconnect the electrical plug and test.***

## Drain Master Manual Override



Determine which side of the Drain Master valve you are looking at (label is on the front). With a 1/8" allen wrench, turn the manual override in the appropriate direction (open or close) per the illustration above.

Note: The manual override was designed for use in emergency situations only (ie, loss of power, problem with valve). It is not meant to be used as a routine method of operating the valve.

**IMPORTANT:** Should you ever lose power to your boat, you can open or close the valve manually. **To do this, use the supplied 1/8" Allen Wrench secured on the back of the valve.** On either side of the Drain Master Marine Ballast Valve, you will see the words *Manual Override* on the upper center area. The words *Open* and *Close* with directional arrows provide directions in which you will turn the hex head in the middle of this wording. Turn in the direction you need. There will be resistance as you are overriding a safety clutch. Turn until the shaft stops. The gate will fully open or close with about a turn and a half with the Allen Wrench. When convenient, check and correct electrical problem. \* see attached picture. NOTE: The manual override was designed for use in emergency situations only (i.e., loss of power, problem with valve) – It is not meant to replace the switch.



## ***Drain Master Marine Warranty***

### **What Is Covered and For How Long**

We are confident that our product will perform well and therefore warrant to you, as the original purchaser, for a period of 1 year from the date of original purchase, that your new product will be free of mechanical and electrical defects in material and workmanship.

### **What Drain Master Marine Will Do & How to Get Service**

If your boat is still under manufacturer warranty, please refer warranty issues to your manufacturer. If the boat is outside of the manufacturer warranty and your product is covered during the Drain Master Marine period, we will replace your new product (you pay the shipping costs), which will be your exclusive remedy under this warranty. Drain Master Marine may require the valve be returned (at customer's expense) before determining warranty status. Drain Master Marine shall not be liable for any special, incidental, indirect or consequential damages whatsoever (including, without limitation, labor or installation charges, damages for loss of business profits, business interruption or any other pecuniary loss) arising out of the use of or inability to use the product. If your valve is eligible for return to Drain Master, please call us toll free for a return authorization number and shipping instructions.

**Send To: Drain Master LLC. Marine Customer Care Dept. 400 Park Center Dr. Ste 6, Hollister, CA 95023**

Please be aware that use of the product on improper voltage or current, use contrary to operating instructions, or disassembly, repair, or alterations by any person other than a reputable boat service repair company may render your product warranty void.

### ***How Your State's Law May Apply***

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state or province to province.

**If you need any assistance, please call us toll free at 1 877-787 8833.**