

640-231X V MAIN DRAIN OWNER'S MANUAL

For Part Numbers: 640-2310 • 640-2311 • 640-2312 • 640-2317 • 640-2319-DKG • 640-2319-BEI • 640-2319-DKB

**VGB
2008**

WARNING



Read and follow all instructions in this owner's manual and on the equipment.
Failure to follow instructions can cause severe injury and/or death.

IMPORTANT SAFETY INSTRUCTIONS



WARNING - SUCTION ENTRAPMENT HAZARD

Suction in suction outlets and/or suction outlet covers which are damaged, broken, cracked, missing, or unsecured can cause severe injury and/or death due to the following entrapment hazards:

Hair Entrapment: Hair can become entangled in suction outlet cover.

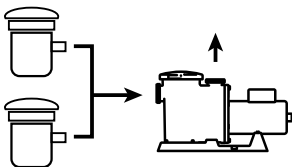
Limb Entrapment: A limb inserted into an opening of a suction outlet sump or suction outlet cover that is damaged, broken, cracked, missing, or not securely attached can result in a mechanical bind or swelling of the limb.

Body Suction Entrapment: A negative pressure applied to a large portion of the body or limbs can result in an entrapment.

Evisceration / Disembowelment Entrapment: A negative pressure applied directly to the intestines through an unprotected suction outlet sump or suction outlet cover which is damaged, broken, cracked, missing, or unsecured can result in evisceration / disembowelment entrapment.

Mechanical Entrapment: There is potential for jewelry, swimsuit, hair decorations, finger, toe, or knuckle to be caught in an opening of a suction outlet cover resulting in mechanical entrapment.

TO REDUCE THE RISK OF ENTRAPMENT HAZARDS:



- A minimum of two functioning suction outlets per pump must be installed. Suction outlets in the same plane (i.e. floor or wall) must be installed a minimum of three feet (3') / 1 meter apart, as measured from suction pipe center to suction pipe center.
- Dual suction fittings shall be placed in such locations and distances to avoid "dual blockage" by a user.
- Dual suction fittings shall not be located on seating areas or on the backrest for such seating areas.
- The maximum system flow rate shall not exceed the flow rating of any listed (per ASME/ANSI A112.19.8M-1987, ASME A112.19.8-2007) suction outlet cover installed. In the event of one suction outlet being completely blocked, the remaining suction outlets serving the system shall have a flow rating capable of the full flow of the pump(s).
- Never use a pool or spa if any suction outlet component is damaged, broken, cracked, missing, or not securely attached.
- Replace damaged, broken, cracked, missing, or not securely attached suction outlet components immediately.
- Two or more suction outlets per pump should be installed in accordance with latest APSP Standards and CPSC guidelines, and follow all National, State, and Local codes applicable.
- Replace the suction within 7 years from the installation date.
- Installation of a vacuum release system, which relieves entrapping suction, is recommended.

USE ONLY GENUINE WATERWAY REPLACEMENT PARTS.



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WARNING



Failure to remove pressure test plugs and/or plugs used in winterization of the pool/spa from the suction outlets can result in an increased potential for suction entrapment as described on the previous page.



Failure to keep suction outlet components clear of debris, such as leaves, dirt, hair, paper and other material, can result in an increased potential for suction entrapment as described on the previous page.



Suction outlet components have a finite life. The cover/grate should be inspected frequently and replaced at least every seven years, or if found to be damaged, broken, cracked, missing, or not securely attached.



The 8"/ 640-1800 V fitting is rated at 158 GPM for floor and 96 GPM for wall. The 10"/ 640-1900 V fitting is rated at 200 GPM for floor and 136 GPM for wall. If the fitting is missing or broken, replace with a fitting of equivalent rating or higher. Use of a lower rated suction fitting could result in entrapment of the body which could result in serious injury including drowning.



Do not use or operate pool, spa, or hot tub if this suction fitting is missing, broken or not secured per instructions. The suction fitting is intended to prevent entrapment of the body. Use of the spa hot tub with a missing, broken or improperly secured suction grate may result in serious personal injury including drowning.



When the pool, spa or hot tub is in operation, suction is created at this fitting. Users of the spa or hot tub must be instructed not to come in contact with this fitting in such a way as to block its orifice. If a user of the spa or hot tub blocks this fitting with his/her body, serious personal injury or drowning may occur.



In order to remove the suction cover (for service or winterization), using a Phillips-head screw driver remove the screws. Inspect both the suction cover and suction fitting for any cracks or damages.



It is imperative to securely attach the suction cover to the wall fittings (use only the original supplied screws or obtain original replacements). Do not over tighten the screws. Inspection of fasteners and observation for damaged/tampered with suction fittings is required.



Any and all broken or missing parts must be replaced prior to starting spa or pool pump. Never operate spa or pool without drain cover in place and properly affixed, death or serious injury can result.

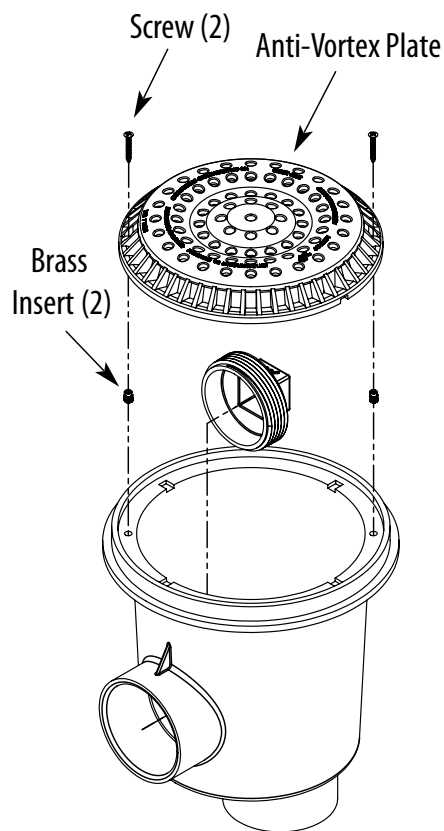


Do not exceed the safe flow rate. Do not increase flow through system by increasing pump size or horsepower.



Do not allow children to sit, play or interact with main drains or suction outlet.

INSTRUCTIONS FOR CONCRETE MAIN DRAINS (DUAL PORT)

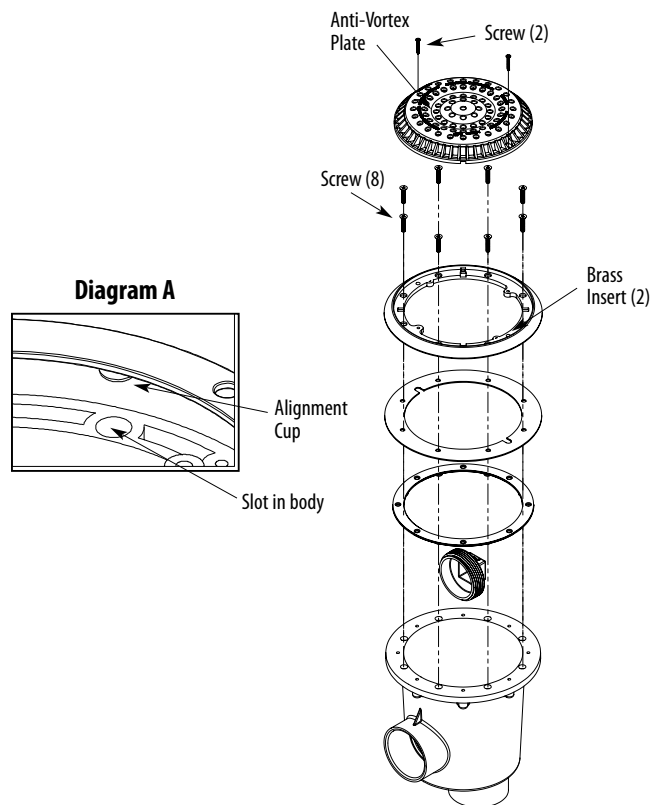


GRATED ANTI-VORTEX CONCRETE ASSEMBLY

1. Align cover holes with brass inserts.
2. Hand-tighten supplied screws. **DO NOT USE POWER TOOLS.**
3. A minimum 2" connecting pipe should be used.

INSTRUCTIONS FOR VINYL LINER MAIN DRAINS (DUAL PORT)

- Grated Anti-Vortex Cover is contoured to keep auto-cleaners from sticking
- Vinyl liner mounting plate is angled for auto-cleaners to climb over
- Body is type 1 PVC: better for glue joints



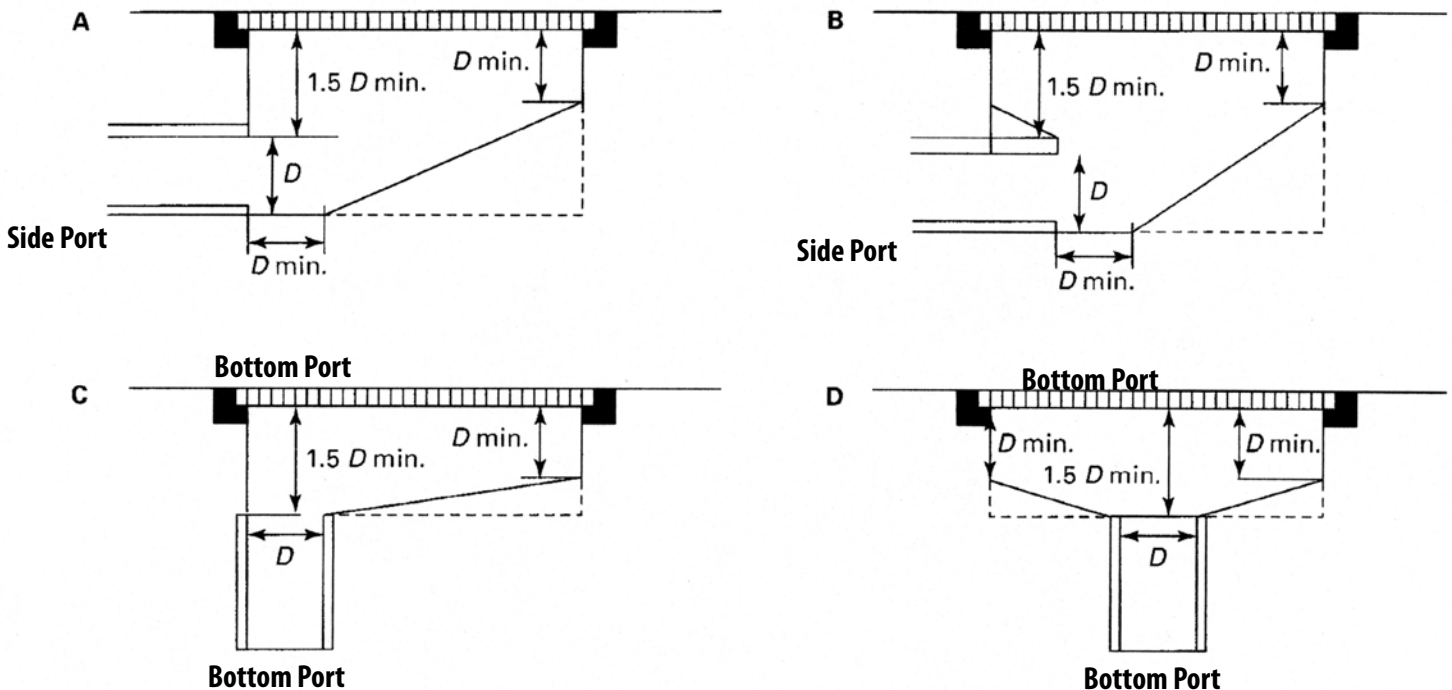
GRATED ANTI-VORTEX VINYL LINER ASSEMBLY

1. Install rubber gasket to body by pushing in raised alignment cups into slots in body (see Diagram A).
2. Lay vinyl liner over main drain.
3. Put fiber gasket and mounting plate on top of vinyl liner over main drain.
4. Install all eight screws. (If this is your first time, ask where purchased this drain exactly how to do it with the pool you brought.)
5. Align cover holes with brass inserts and install screws.

INSTRUCTIONS FOR THE USE OF FIELD BUILT SUMPS

1. A minimum 2" connecting pipe should be used.
2. A minimum distance of 1.5 times the pipe diameter should be provided between the pipe and the cover/grate assemblies, according to the image below:

FIELD BUILT SUMP (SINGLE OR DUAL PORT)



GENERAL NOTES:

- (a) D = inside diameter of pipe.
- (b) All dimensions shown are minimums.
- (c) A broken line (_ _) indicates suggested sump configuration.

3. When bottom port is not used as relief port, it can be utilized as a second plumbing line to the main trunk line with **SINGLE PUMP** system.
4. The design of field fabricated sumps shall be further specified by a Registered Design Professional so as to fully address the considerations of cover/grate loadings, durability, hair, finger, and limb entrapment issues, as well as features particular to the site.

WARRANTY

For product registration visit: www.waterwayplastics.com.
For Warranty questions or claims please contact point of purchase.