



Thank you for purchasing a Pan Am Dragon Boat product – **BuK Liner Drain Plugs**



We know... it's just a plastic plug! But here are some instructions to make your replacement task go smoothly.

GENERAL INFORMATION

The OEM plugs from Germany are 12mm coarse metric threads.

The PanAm replacement plugs are ½ inch; close to 12mm but slightly larger.

The Pan Am plugs will thread into the existing liner hole but it is a very tight fit.

We recommend, as a first step, you open up the existing holes to 7/16”.

This will allow the plugs to thread in and out a bit easier while still maintaining a reasonably tight seal.

DRILLING OUT YOUR EXISTING DRAIN HOLE

Be very careful while drilling. Use a variable speed drill, go slow, and use little or no downward pressure.

The drill bit will instinctively draw itself through the hole... easy does it and be prepared to release the trigger on the drill and quickly pull upwards to avoid piercing the main hull with the drill bit.

Optionally, after drilling your 7/16” hole, if you have a ½” NC tap (preferably a bottoming tap), you can run that through the hole.

The laminate thickness in this area is approximately 3mm. This allows for about 1.5 threads to be cut by the tap. Run the tap through slowly and carefully and clear your threads every half turn by rotating the tap counterclockwise ¼ turn.

INSTALLING THE PLUGS

Be sure to check that each plug's O-ring is in place each time you remove and install the plug.

The O-ring is the seal that will prevent water from entering the liner if the boat has water in it.

Optionally, you can smear on a bit of silicone or lithium grease on the O-ring and threads to aid installation, removal, and enhance the lifespan of your plugs.

Once the O-ring has bottomed out there is no need to super-duper-tighten the plug.

A quarter turn at most once the O-ring has made contact with the hull is all that is needed.

Never use pliers or any other leveraging tool to tighten the plugs. You'll risk stripping the threads and damaging the O-ring

MAKE DRAINING YOUR BUK DRAGON BOAT A WEEKLY TASK

Constant, long term contact with moisture will eventually degrade the structural integrity of your fiberglass hull and liner. Moisture, condensation in the space between the hull and liner of your BuK will eventually pool in the lowest area of the boat. This is why drain plugs are a feature on your boat. We recommend that you allow any accumulated water to drain from the hull at a minimum interval of once per week. The boat must be bailed out and dry before removing the plugs. If possible, also use a shop vac to suck out any remaining water once the bulk draining has been accomplished.

Thank you again and remember that if you take care of your BuK... it will take care of you!