

# Lancing Sailing Club



## Guide to use and operation of Mercury 4 Stroke Engines

- Getting started – collect keys for starting the engines. These are stored next to the radios in the race box and are colour coded to match the boats. Attach to the boat at the remote consul using the lanyard provided.



- Check the fuel is in the boats – each fuel tank is labeled to show what type of fuel is in the tank. Each fuel pipe connected to the engine is also labeled. For the Mercury engines this is 4 stroke fuel and will have no oil added to the tank.



- Check the tank is full and refill if required.

- Spare fuel is stored in one of the rescue boat huts.
- Ensure fuel tank is secured with retaining strap
- Open breather vent on fuel tank as below.



- There must be a minimum of 1 kill cord fitted to each engine. Each crew member must carry one. The boat must NOT be driven without using the kill cord.



- Check the battery isolator switch is in the on position. (The battery is located under the centre consul seat and will not need any attention).



Isolator switch **OFF**



Isolator switch **ON**

- To raise and lower the engine it must be stopped and then put into forward gear. This applies to on shore and on the water.



- Practice lifting and lowering the engine on shore by moving the red lever to adjust shallow and normal drive.
- Lift lever to drop the engine, lower lever to lift the engine.



- Connect hose and muffler over the water intakes at the base of the engine and switch the water on.



- Check the engine is fully lowered and is now in neutral. The engine will not start if it is in gear.
- Start the engine and leave to warm up for a few minutes. Water should now be running through the engine and you will get a stream of warm water as below.



- When engine starts, there is an audible beep and a red light visible on the front of the engine for a short time. If the beep continues, or the red light stays on, turn the engine off immediately.
- If the light comes on or the beep starts during engine operation, stop the engine immediately to investigate.
- When engine starts, revs will go high for a short time (~1-2 seconds) before dropping to normal idle. Do not attempt to put engine in gear while the revs are high.

- On returning to shore repeat the warm-up procedure by connecting muffler etc. Leave engine to run for 5 minutes to ensure is fully flushed through with fresh water.
- Switch off isolator switch and return engine keys to race box. Close vent on fuel tank.
- Rinse boat and trolley with fresh water.
- Remove all marks from boat and drain all water from boat.
- Remove engine cover and spray engine with WD40. Then replace cover before placing boat in rescue boat shed.