

## FailSafe for Petrol Boats

Large Scale RC failsafe's are built for marine use and are 100% water proof and are easy to fit with no programming of the failsafe necessary just your radio's 3<sup>rd</sup> channel which you may need to refer to your manual to setup.

### What you get in the kit

- Main failsafe Controller
- Waterproof Relay
- 1 Silicon lead with coil and earth Terminals fitted.
- Wire to run to the engine
- Heat Shrink for the solder joints

### Installation

1. You will need a soldering iron, solder, small piece of silicon water line tube (50mm long) and cable ties and heat shrink for joining the wires ( heat shrink supplied In Kit)Take the lead with the terminals on and plug the bullet connector in to the black wire on the coil and bolt the eye terminal to one of the bolts on the grey coil, this is the earth. If you have a 32 CC Zenoha engine you will need to solder the supplied wire with the female bullet connector to the blade terminal on the coils, This is done this way as the spade type terminals brake due to the Vibration of the engine.
2. Mount the controller and relay into the radio box and drill a hole 1mm smaller diameter than your piece of silicon tube.
3. Get your piece of Silicon tube and cut the end off on a 45 degree angle, this makes it much easier to push through the hole.
4. Now pull the wire though the silicon tube then though the hole in the radio box to make a seal and put a cable tie on the silicon tube and do as tight as you can without braking the cable tie to form the seal around the wires you may also seal it with silicon sealer if you wish around the wires.
5. Now run the wire from the radio box to the engine and plug into the red plug, solder the other end of the wires in the radio box with the red plug on the relay, make sure the lead is a bit longer so you can fold it over itself and cable tie when finished to support the wires and the plug.
6. Now plug the failsafe with the JR style servo lead into the 3<sup>rd</sup> channel of the receiver making sure the orange wire is facing inwards to the centre of most receivers on the S pin and program the Transmitter's 3<sup>rd</sup> channel so the LED is on, this is your run mode, and if you turn your Transmitter off the LED should go off, if this is the case you are done. If not try reversing the channel switch on the radio's 3<sup>rd</sup> channel.
7. The engine will only run when the LED is on, some radios have switches that have on-off, others may have momentary switches such as Futaba 4PX,7PX in this case when you press the switch it will cut the engine (the LED will turn Off), you will have to hold the switch till the engine stops if using momentarily switch .
8. Cable tire wires so it looks neat and tidy and fix the wires to something that's doesn't get too hot on the engine to help keep them from flapping around.
9. If you have a 2 cylinder engine the procedure is the same apart from there will 2 wires, 1 running to each engine.  
If you are fitting your failsafe to a CMB style engine that uses a powered coil you need to run one wire to the coil + and the other to your power supply for the coil.

Note, the colour of the wire does not matter as it only works like a switch.

Large Scale RC

Brent Mills [brent@largescalerc.nz](mailto:brent@largescalerc.nz)

[www.largescalerc.nz](http://www.largescalerc.nz)

021944933