



100K SERIES KART ENGINE HEATER

The P1 Engine heater is designed to create cooling system temperature prior to starting the engine. Starting High Performance engines in cold temperatures & operating at high RPM to achieve normal operating temperatures creates excessive wear, noise & smoke pollution. Costly engine damage can also occur. Pre-heating an engine prior to starting minimises these problems and makes pre-race preparation much easier.

The P1 kart engine heater will take approximately 7 minutes to heat a water cooled kart engine to 50°C using a stable 240V power source. The heater will circulate coolant continually whilst applied to the power source, although the internal thermostat will control the heating element allowing it to “cycle” on/off as temperature is achieved.

INSTALLATION INSTRUCTIONS

1. The engine heater is designed to be installed in the lower cooling hose that goes from the radiator to the water pump inlet.
2. Disconnect the lower cooling hose from the water pump inlet.
3. Cut 145mm off the end of the hose. Do not discard this 145mm off cut!
4. Cut 65mm off the 145mm piece. This 65mm is now the outlet hose.
5. Discard the remaining 80mm piece.
6. Install the outlet hose to the heater outlet securing with a hose clamp. The heater outlet is clearly marked on the heater with an arrow.
7. Install the heater with the outlet hose attached to the water pump inlet, secure using a hose clamp.
8. Connect the water hose from the radiator to the inlet side of the engine heater and secure with hose clamp.
9. Check the radiator hose length to ensure the hose is not kinked. Secure as required.
10. Secure the water hose to the seat mount post with a cable tie. Ensure that the heater is not resting on the chassis rail.
11. Secure the power cable in a convenient position to the seat mount post with a cable tie.
12. Fill the radiator with coolant ensuring that all air is purged from the system.

****Any leaks in the cooling system will cause engine heater failure!****

13. Leave the radiator cap off.
14. Plug in to 240volt power source & turn on.
15. Check the heater is circulating the coolant and install radiator cap.
16. Once temperature is reached, disconnect from the 240 volt power source.

Let's go racing!



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GENERAL TIPS

- DO NOT operate P1 engine heater prior to being connected to a cooling system. If power is applied to the unit without being connected DAMAGE WILL OCCUR!
- Ensure that the P1 engine heater has a stable power supply source. Unstable power supply can cause internal damage to the unit.
- If the heater gets hot very quickly after start up, switch off immediately to prevent further damage. The possible cause is air in the system.
- Ensure that the P1 engine heater is protected from water. Although the unit is sealed it is an electrical device and any external water entering the unit may cause failure.
- The cooling system MUST be drained in sub zero temperatures. If the coolant freezes, the heater (as well as your engine) will be damaged.
- Ensure that the P1 engine heater is operated periodically during the offseason to ensure correct operation is maintained. Failure to operate could cause engine heater failure.