

# ENGINE HEATER

G0038

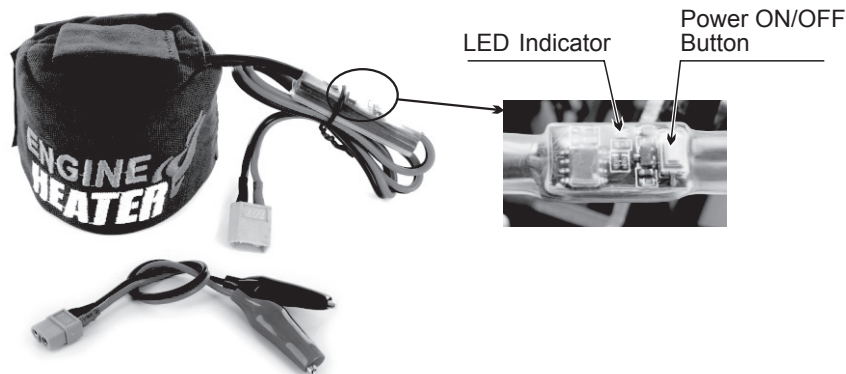
## ENGINE HEATER INSTRUCTION MANUAL

G FORCE

### INTRODUCTION

The G-FORCE engine heater uses technology similar to that used by Formula 1, Indy Car and NASCAR Teams! It will properly pre-heat your engine to 60-70°C in 10 minutes based on ambient temperature.

G-FORCE engine heater will pre-heat all the critical parts of your nitro engine, giving you a minimal of stress and wear on the engine. It help relieve the stress on the crank, con-rod, piston and sleeve during warm-up. It also give you a very easy and smooth engine start, with no stress on your starterbox. Fuel consumption is much less, as you do not have to spend time warming up and adjusting your engine. A pre-heated glow-plug will increase the life of your plug. It is also perfect for break-in, as it reduces the "pinch" on your new engine. You will experience that engine pre-heating is a must. Most importantly, it will quickly pay for itself by increasing engine life and performance!



### FEATURES

- MCU control heating time and heating power for maximum safety.
- Safety timer: turn off power around 10 minutes automatically
- Built-in temperature sensor: to control the output power of the heater
- LED indicator for status of engine heater.
- 12V DC source with low voltage cutoff.
- Fireproof and heat resistant adjustable cover.
- Fits all .19-.26 RC nitro engines.
- Very small, lightweight and compact for quick and easy storage.
- It's designed to transfer heat effectively and efficiently.
- Access port on top allows you to start and monitor your engines temperatures without having to take the heater off.

### HOW TO USE



1. Place the heater around your engine.
2. Connect the power cord to DC Source: Can be operated from any 12V DC power source, including 3S LiPo battery or 12V Lead Acid battery.
3. Push power button. The LED turn red and the engine heater will starting heat the engine up to 10 minute and the engine is pre-heated. If the temperature is not reach the optimal temperature range, push the power button for another 10 minutes heating.
4. You can turn off the heater during heating process, push and hold power button for more than 3 seconds, the heater will stop.
5. Disconnect the DC source and take it off the engine. Caution, the heater and engine are HOT. Now you are ready to start your pre-heated engine.

### Warning:

NEVER HAVE POWER ON THE HEATER, IF IT IS NOT MOUNTED ON THE ENGINE. IT CAN OVERHEAT.

### SAFETY NOTES

- Before using this product, make sure that the heat element/cord/plug and switch are in perfect conditions. If damaged do NOT use it.
- Do not pull on the cord. Please do not bend or twist the cord.
- NEVER leave the heater on, if you are not present.
- Always unplug the heater before starting your engine.
- Never refuel your car with he heater connected.
- Leave the heater in a safe area. After use, the heater is still very hot.
- This is an electrical product; it can result in dangerous shock and fire. Please use this product with care.

### SPECIFICATION

Input Voltage	12Volt DC	LED indicator	[Heating] Red LED stays on
Heating Power	90Watt		[Low Voltage] Red LED blinking
Heating Time	Around 10 minutes	Net weight	65g
Low Voltage Cutoff	9-10Volt	Dimension	Diameter≈63mm Height≈50mm



Products by

**G-FORCE, Inc.**

www.gforce-hobby.jp

Mare-kanda Bld.9F, 1-3-1, Kajicho, Chiyoda-ku,  
Tokyo, 101-0044, JAPAN

Copyright © 2014 G FORCE, Inc. All Right Reserved.