

Quick, Easy Starting!  
 No Priming!  
 Easy-to-Reach Speed Control  
 Long Life "Workhorse" Design

DESIGNED FOR SAFETY!

Thunderhead  
 .11 GAS ENGINE



**INSTRUCTIONS FOR STARTING AND OPERATING THE NO. 40108 .11 THUNDERHEAD GAS ENGINE**

Every new Thunderhead Gas Engine, as it comes from the factory, is a precision piece of machinery and should start easily. It should always be broken in as follows, step by step:

**STEP 2** — Set your Engine on motor mounts made of hard wood, using #3-48 machine bolts to hold it in place. You will note that the crankcase is tapped for this size of screw. NEVER attempt to hold the Engine down with wood screws.

**STEP 8** — Flip the Propeller with a smart stroke in a counterclockwise direction until the Engine starts firing. This may take one to five flips of the Propeller. After Engine has started remove clips from the Glow Head. DO NOT OPERATE ENGINE AT HIGH SPEED WHEN FIRST STARTED. After starting Engine let it run on a rich feeding of fuel (this throws the unburned fuel out of the exhaust ports in the cylinder and is called 4-cycling).



**STEP 3** — Secure the Propeller on the shaft, making sure that the Propeller Nut is pulled up tightly, using a Gilbert Universal Wrench. Use a 6" dia. x 3" pitch, or a 6" dia. x 4" pitch Propeller on the .074 Thunderhead, and a 7" dia. x 4" pitch, or 8" dia. x 3" pitch Propeller on the .11 Thunderhead.

**STEP 4** — Set up a fuel tank alongside the Engine, so that the top of the tank is level with the bottom of the Needle Valve on the Engine.

Start the Engine in this manner two or three times and run it approximately one minute after each start, with a three to five minute cooling off period between each run. The Engine can now be started and run with the Needle Valve adjusted down as far as possible, which will create maximum speed of the Engine. With each successive run

**STEP 5** — Connect gas tank to Engine with fuel line. Fill up the fuel tank with sufficient fuel so that it will flow through the fuel line to the Engine.

**STEP 6** — Open the Needle Valve approximately 1-1/2 turns from the closed tight position. Choke the Engine by turning the Propeller over once while the finger of your left hand covers the opening in the intake tube. If the movement of fuel from the tank up to the Needle Valve is noticeable in the fuel line you are now in a good position in which to start the Engine. If no movement of fuel in the line is noticeable continue opening the Needle Valve at one-half turn intervals until you see a movement of fuel in the fuel line. When the correct position of the Needle Valve is determined, choke the Engine through two revolutions and it should then be ready for starting after connecting dry cell battery.

**STEP 7** — Connect a 1.5 volt dry cell battery to the Glow Head. A BATTERY OF HIGHER VOLTAGE WILL BURN OUT THE GLOW HEAD. Clip one lead wire to the electrode in the Glow Head, and one to any fixed metal part of the Engine. Connect other ends of wires to terminals on battery.