AeroTech composite propellant rocket motors are the most powerful motor motors available to hobbyists. They are designed and built for them. Use AeroTech composite model rocket motors only in model rockets damaged in any way. Do not ignite an AeroTech composite model rocket motor. Attempt to alter the size, attempt to disassemble, attempt to modify, or try to rebuild any part of the motor. Store AeroTech composite model rocket motors in a dry place where the temperature will remain between 45°F and 100°F. Do not cut, saw, attempt to alter the size, attempt to disassemble, attempt to modify, or drop an AeroTech composite model rocket motor. Do not use an AeroTech composite model rocket motor that you believe has been damaged in any way. Do not ignite an AeroTech composite model rocket motors indoors. Do not breathe fumes from the rocket motor exhaust.

**GENERAL INFORMATION**

Each AeroTech composite model rocket motor is labeled with a code (e.g. E15-7W) which gives important information about the motor's performance. The letter indicates the total impulse (in Newton-seconds) produced by the motor. The number following the letter indicates the motor's average thrust in Newtons. The next number of the code shows the time delay in seconds between propellant burn-out and the firing of the ejecting charge. The letter following the time delay code shows the type of propellant formulation used in the motor: "W" for White Lightning™, "B" for Blue Thunder™, "F" for BlackMax™, "R" for Redline™ and "G" for Mojave Green™.

**STORAGE AND HANDLING**

Store AeroTech composite model rocket motors in a dry place where the temperature will remain between 45°F and 100°F. Do not cut, saw, attempt to alter the size, attempt to disassemble, attempt to modify, or drop an AeroTech composite model rocket motor. Do not use an AeroTech composite model rocket motor that you believe has been damaged in any way. Do not ignite an AeroTech composite model rocket motor indoors. Do not breathe fumes from the rocket motor exhaust.

**USE**

Use AeroTech composite model rocket motors only in model rockets designed and built for them. Fig.-1

1. **FirstFire Jr™ Igniter**
   - **FirstFire Jr™ Igniter**:

   **IGNITION AND LAUNCHING**

   1. Select and carefully straighten the AeroTech FirstFire Jr™ Igniter provided.
   2. Fig.-1: Holding the FirstFire Jr™ by the neck of the igniter, insert the black-cut end of the igniter into the nozzle of the rocket. Rotate the igniter until it is fully inserted. Grip the igniter firmly and push it into the propellant grain. Slowly rotate the motor while probing with the tip of the igniter may help in finding the slot. Once the FirstFire Jr™ has entered the propellant grain slot, continue inserting it until contact is made with the delay element. Once the igniter is fully inserted into the propellant grain, slowly rotate the motor while probing with the tip of the igniter may help in finding the slot.
   3. **Slot**:
   4. **Delay Element**
   5. 3. Once the FirstFire Jr™ has entered the propellant grain slot, continue inserting it until contact is made with the delay element. The motor. Failure to insert a FirstFire Jr™ igniter as described may result in low-thrust ignition of the motor.

   **MISFIRE**

   If a misfire occurs and an AeroTech composite model rocket motor does not ignite for any reason within five seconds of pressing the launch button, remove the igniter and repeat the launch. If the misfire occurs, and the delay element is not fully inserted into the propellant grain, slowly rotate the motor while probing with the tip of the igniter may help in finding the slot.

   **NAR MODEL ROCKET SAFETY CODE**

   1. **Construction**: My model rockets will be made of lightweight materials such as balsa wood, plywood, plastic, or other lightweight materials. My model rockets will not fly into clouds, fly near aircraft in flight, or be hazardous to people or property.
   2. **Engines**: I will use only pre-loaded factory made NAR certified rocket engines in the manner recommended by the manufacturer. I will never use incompatible model rocket engines or their ingredients in any way, or attempt to reload these engines.
   3. **Recovery**: I will always use a recovery system in my model rockets that will return them safely to the ground so that they may be flown again. I will always use one of the methods recommended by the manufacturer for my rockets.

   **RECOMMENDED FOR AGES 16 OR OLDER. ADULT SUPERVISION recommended for those under 16 years of age. CAUTION: DO NOT allow children to fire these motors. Keep Out Of Reach Of Small Children.**

   **READ AND FOLLOW all instructions before use. Use these model rocket motors only in accordance with these instructions. AEROTECH Composite Model Rocket Motors are NOT toys! Handle with care and respect. Read and follow all instructions before and during use.**