COMPOSITE D’ & E MOTOR INSTRUCTIONS
WARNING-FLAMMABLE: Read Instructions
And Back Of Package Before Use.

RECOMMENDED FOR AGES 16 OR OLDER. ADULT SUPERVISION recommended for those under 16 years of age. CAUTION: DO NOT SMOKE when using these motors or in the vicinity of open flames. 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.

GENERAL INFORMATION
AEROTECH composite model rocket motors are the most technically advanced model rocket engines in the world. AEROTECH motors use the same propellant as America’s space boosters. Pound for pound, this advanced rocket motor is the most powerful motor in the world. AEROTECH motors use the same propellant as America’s space boosters. Pound for pound, this advanced rocket motor is the most powerful motor in the world.

Motor Classification
Each AEROTECH composite model rocket motor is labeled with a code (e.g. E15-W) which gives important information about the motor's performance. The letter indicates the total impulse (in Newton-seconds) produced by the motor; the number indicates the power level up to twice that indicated by the previous letter. For example, an "F" motor can be twice as powerful as an "E" motor. The number following the letter code indicates the motor's average thrust in Newtons. Throat moment, Cooperhead™, and the igniter may help in finding the slot. Slowly rotating the motor while probing with the tip and forefinger, insert the black-coated end into the nozzle end of the motor to a thickness equal to that of the motor tube. Wrap a layer of masking tape tightly around the nozzle showing, away from buildings, people, animals, and flammable elements of the recovery system are in good working order. Prepare the recovery system of your rocket. Make sure that all

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.

- Cooperhead Igniter
- Ignition and Launching
1. Select and carefully straighten the AeroTech Cooperhead™ igniter provided.
2. Fig-1 Holding the Cooperhead™ between thumb and forefinger, insert the black-coated end into the bottom of the nozzle. Slowly rotating the motor while probing with the tip of the igniter may help in finding the slot.
3. Slot
4. Delay Element
3. Once the COPPERHEAD™ has entered the propellant grain, slot, and delay element into the nozzle from the pilot end of the propellant grain. Slowly rotating the motor while probing with the tip of the igniter may help in finding the slot.

- MIFISPIRS
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, release the launch button and remove the safety key from the INTERLOCK™ electrical launch controller. WAIT ONE MINUTE before approaching or allowing anyone else to approach the model rocket. Keep your fingers and hands out from underneath the model rocket and away from the possible path of the exhaust jet. Do not place any part of your body over the nozzle when igniting the rocket. NEVER touch any part of the motor or recovery system to the igniter clip on the AEROTECH COPPERHEAD™ igniter. Always remove the model rocket from the launch pad. Keeping the motor nozzle pointed away from your face and body when igniting a rocket. NEVER touch any part of the igniter to the AEROTECH COPPERHEAD™ igniter. Remove the engine from the motor mount and use the same propellant as America’s space boosters. Pound for pound, this propellant delivers nearly 3 times the power of black powder used in other model rocket motors. AEROTECH composite model rocket motors allow you to fly larger rockets, heavier payloads, and achieve the same propellant as America’s space boosters. Pound for pound, this advanced model rocket motor is the most powerful motor in the world. AEROTECH motors use the same propellant as America’s space boosters. Pound for pound, this advanced rocket motor is the most powerful motor in the world.

- DISPOSAL
Damaged, defective, or unwanted motors should be disposed of in the following manner. Mark the motor firmly in the ground with the yellow elastic band. Using a hand held pipe wrench, slowly rotate the motor until the igniter is no longer held in place. Cut the igniter using a pair of scissors. Turn the motor upside down and firmly rotate the igniter again to remove the propellant. NEVER touch any part of the igniter to the AEROTECH COPPERHEAD™ igniter. Remove the engine from the motor mount and use the same propellant as America’s space boosters. Pound for pound, this advanced rocket motor is the most powerful motor in the world.

- SAFETY
Controlled tests show that composite propellant model rocket motors will not explode in fires and normally will not ignite if subjected to intense, sustained fires for two minutes or less. Use water to fight fires in which AEROTECH composite model rocket motors may become involved. The AEROTECH MANTIS™ model rocket launch pad will accommodate launch rods of several diameters and lengths and may be used with all types of model rockets.

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- Motor Performance Data

- Typical Time-Thrust Curves

- Fire Safety
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NOTICE: As we cannot control the storage and use of our products, once sold, we shall not be held responsible for any personal injury or property damage resulting from storage and use of our product. This buyer assumes all risks and liabilities theretofore for himself and his products and uses AEROTECH/RCS products on their own risk. AEROTECH/RCS products, except as otherwise stated herein, are not designed or intended to be defective in manufacture within one year from the date of original purchase. For repair or replacement under this warranty, contact RCS. Proof of purchase will be required. Note: Your state may provide additional rights not covered by this warranty.

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