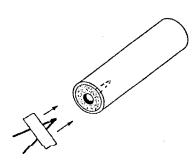
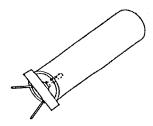


26



Insert the igniter into a D12-5 model rocket engine.

27



- 1. Tape the igniter into place or use one of the newer igniter plugs.
- 2. Insert the engine into the motor mount; the clip should securely hold the engine in place.
- Place the model on the launcher and hook up your launch equipment (not included). Keep at least 15 feet when launching.

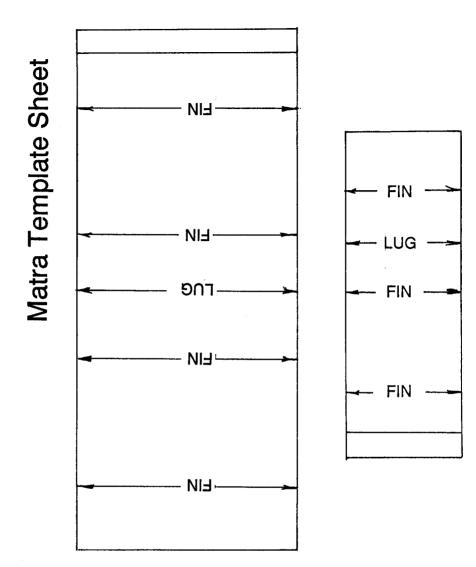


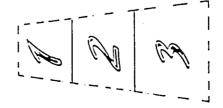
## N.A.R. MODEL ROCKET SAFETY CODE

- MATERIALS-My model rocket will be made of lightweight materials such as paper, wood, rubber and plastic suitable for the power used and the performance of my model rocket. I will not use any metal for the nose cone, body or fins of a rocket.
- 2. MOTORS-I will use only commercially-made, NAR-certified model rocket motors in the manner recommended by the manufacturer. I will not alter the model rocket motor (engine), its parts or its ingredients in any way.
- 3. RECOVERY-I will always use a recovery system in my model rocket that will return it safely to the ground so it may be flown again. I will use only flame-resistant recovery wadding if wadding is required by the design of my model rocket.
- 4. WEIGHT AND POWER LIMITS-My model rocket will weigh no more than 1,500 grams (53 ounces) at liftoff and its rocket motor(s) will produce no more than 320 Newton-seconds (4.45 Newtons equals 1.0 pound) of total impulse. My model rocket will weigh no more than the motor manufacturer's recommended maximum liftoff weight for the motors used or I will use motors recommended by the manufacturer for my model rocket.
- 5. STABILITY-I will check the stability of my model rocket before its first flight, except when launching a model rocket of already proven stability.
- PAYLOADS-Except insects, my model rocket will never carry live aniimals or a payload that is intended to be flammable, explosive or harmful.
- LAUNCH SITE-I will launch my model rocket outdoors in a cleared area, free of tall trees, power lines, buildings, and dry brush and grass.
- 8. LAUNCHER-I will launch my model rocket from a stable launch device that provides rigid guidance until the model rocket has reached speed adequate to ensure a safe flight path. To prevent accidental eye injury, I will always place the launcher so the end of the rod is above eye level or I will cap the end of the rod when approaching it. I will cap or disasseble my launch rod when not in use and I will never store it in an upright position. My launcher will have a jet deflactor device to prevent the motor exhaust from hitting the ground directly. I will always clear the area around my launch device of brown grass, dry weeds, or other easy-to-burn materials.
- 9. IGNITION SYSTEM-The system I use to launch my model rocket will be remotely controlled and electrically operated. It will contain a launching switch that will return to "off" when released. This system will contain a removable safety interlock in series with the launch switch. All persons will remain at least 15 feet from the model rocket when I am igniting model rocket motors totalling 30 Newton-seconds or less of total impulse. I will use only electrical igniters recommended by the motor manufacturer that will ignite model rocket motor(s) within one second of actuation of the launching switch.
- 10. LAUNCH SAFETY-I will ensure that people in the launch area are aware of the pending model rocket launch and can see the model rocket's liftoff before I begin my audible 5-second count down. I will not launch a model rocket so its flight path will carry it against a target. If my model rocket suffers a misfire, I will not allow anyone to approach it or the launcher until I have made certain that the safety interlock has been removed or that the battery has been disconnected from the ignition system. I will wait one minute after a misfire before allowing anyone to approach the launcher.
- 11. FLYING CONDITIONS-I will launch my model rocket only when the wind is no more than 20 miles per hour. I will not launch my model rocket so it flies into clouds, near aircraft in flight, or in a manner that is hazardous to people or property.
- 12. PRE-LAUNCH TEST-When conducting research activites with unproven model rooket designs or methods, I will, when possible, determine the reliability of my model rooket by pre-launch tests. I will conduct the launching of an unproven design in complete isolation from persons not participating in the actual launching.
- LAUNCH ANGLE-My launch device will be pointed within 30 degrees of vertical. I will never use model rocket motors to propel any device horizontally.
  RECOVERY HAZARDS-If a model rocket becomes entagled in a power line or other dangerous place, I will not attempt to retrieve it.

I pledge to follow the N.A.R. Safety Code in all of my model rocket activities.

Rocketeer's Signature



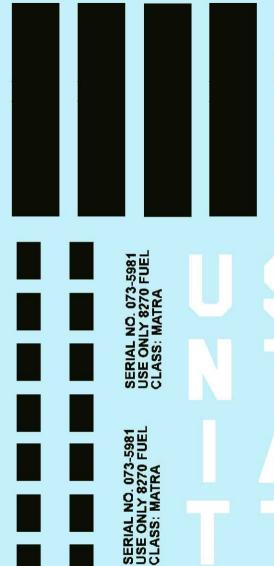


2

- 3

-- 5 -

- 6



CLASS: MATRA

SERIAL NO. 073-5981 USE ONLY 8270 FUEL CLASS: MATRA

DANGER NITROGEN FILL

DANGER NITROGEN FILL