HIGH-POWER RMS™
Reloadable Motor System™

H178DM-14A Rocket Motor Reload Kit
For RMS-38/360 Motor Hardware
Metalstorm DM™ Composite Propellant

To adjust time delay, use AeroTech Reload Delay Kits (RDKs) or drill delay 1/32" per second of adjustment using twist drill or optional AeroTech RMS Delay Drilling Tool (RDDT, P/N T082510-1). Drilled end faces propellant.

Do not open reload kit until ready to use.

WARNING-FLAMMABLE: Read Instructions Before Use. Use RMS reload kits only in accordance with instructions. Sale to persons under 18 years of age prohibited by federal law. For use only by certified users 18 years of age or older. Ignite by electrical means only. Do not smoke when loading RMS motors or use in the vicinity of open flames. CAUTION: Keep out of reach of children. Produces showers of hot sparks. Clear launch area of all combustible material for at least a 75 foot diameter radius around launcher. Follow NAR & TRA safety codes at all times. Motor hot after firing.

Certified by the Tripoli Rocketry Association • Made in U.S.A. • www.aerotech-rocketry.com
AeroTech Division, RCS Rocket Motor Components, Inc., 2113 W. 850 N. St., Cedar City, UT 84721

H178DM-14A Typical Time-Thrust Curve

Motor Specifications
- Total Impulse: 293 N-sec
- Burn Time: 1.7 seconds
- Propellant Wt.: 170.3 grams
- Peak Thrust: 48 pounds
- Loaded Wt.: 318 grams
- Delay Time: 14 seconds (adjustable)
- Motor Diameter: 38mm
- Motor Length: 7.95"
Assembly Instructions:

1. Lightly grease o-rings (4, 10, 17), case threads (7) and delay cavity of forward closure (14) (but not the forward end of cavity).

2. Assemble delay grain (12), delay spacer (11), delay insulator (13) and delay o-ring (17) as shown.

3. Insert forward delay spacer (18) into forward closure (14), then push step 2 delay assembly into forward closure (14), o-ring end first.

4. Insert propellant grains (8) into liner (6), then push liner assembly into case (7) until recessed equally from end of case.

5. Insert forward insulator (9) and forward o-ring (10) into one end and forward closure (14) into the end of the case (7) until seated.

6. Thread forward closure (14) into the end of the case (7) with the forward insulator (9) and forward o-ring (10) until seated.

7. Assemble aft insulator (5), aft o-ring (4), nozzle (3) and aft closure (2) into open end of case (7) until seated.

8. Dispense ejection charge (15) into forward closure (14) and seal end with ejection charge cap (16).

NOTE: THE DRAWING SHOWN BELOW MAY BE A GENERIC REPRESENTATION OF THE ACTUAL MOTOR. NOZZLE SIZE, NUMBER AND SIZE OF PROPELLANT GRAINS AND LENGTH OF DELAY GRAIN & SPACER MAY BE DIFFERENT FOR A DETAILED ASSEMBLY DRAWING OF THIS MOTOR PLEASE VISIT THE AEROTECH WEBSITE AT WWW.AEROTECH-ROCKETRY.COM.

H178DM-14A Assembly Drawing and Instructions.