

# AEM 1905: High-Power Rocketry

## Kit rockets for Fall 2016



# U.S. ARMY MIM-23B HAWK

## Specifications:

Length: 36"  
Diameter 2.6"  
Weight: 40oz  
Recovery: 36" Nylon Chute  
Motor Mount: 38mm  
Fins: 4 - 1/16" G10  
Recommended CG: 22.5"

## Suggested Motors:

<i>Aerotech</i>		<i>Cesaroni</i>	
G67R-6	790'	G115WT-8	1000'
H148R-10	1850'	H143SS-10	2100'
H242T-10	2150'	H225WT-11	2490'

## Parts List

1. (1) Fiberglass nose cone
2. (1) G10 nose cone bulk plate
3. (1) Pre-slotted body tube
4. (2) G10 centering rings
5. (1) 38mm motor tube
6. (4) G10 fins
7. (2) Eyebolt, nut, washer set
8. (1) Nylon shock cord
9. (2) Rail Buttons and Screws
10. (1) Cut Letter Vinyl decal
11. (1) Polycarbonate Tail Cone

## Optional Recovery System

1. (1) 9"x9" flameproof chute protector
2. (1) 36" Nylon chute

**Required to complete:** 5 minute epoxy, 120/220 sandpaper, masking tape, finishing filler/paint, Rubbing Alcohol for cleaning.

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## Notes:

- all fiberglass
- 2.6" diameter

PK-68

**Mini-Mag<sup>TM</sup>**

**Height: 37.0"**  
**Weight: 40 oz.**  
**Diameter: 5.540"**

Single motor flights to over 2,200 ft.

**Sample Motor Selections**

**G\*-H\*-I\* 38mm motors**

\* 29mm requires MMA-2 Adapter

**Kit Features Include:**

- NEW LOC-N-FIN<sup>TM</sup> construction
- Pre-Slotted Airframe Tubing
- Plywood Fins & Rings
- Plastic Nose Cone
- Parachute Recovery

\*This kit is recommended for those with previous model rocket building experience.

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Notes:

- phenolic body
- 5.5" diameter



# Giant Leap Rocketry - T-Bolt

## Attributes

<b>Decals:</b>	<a href="#">Self-Stick</a>
<b>Diameter:</b>	<a href="#">1.6500 inches</a>
<b>Length:</b>	<a href="#">45.7500 inches</a>
<b>Manufacturer:</b>	<a href="#">Giant Leap Rocketry</a> ↗
<b>Motor Size:</b>	<a href="#">38 millimeters</a>
<b>Power:</b>	<a href="#">High-Power</a>
<b>Product Type:</b>	<a href="#">Kit</a>
<b>Production Years:</b>	<a href="#">2012-</a>
<b>Recovery:</b>	<a href="#">Parachute</a>
<b>Status:</b>	<a href="#">In-Production</a>
<b>Style:</b>	<a href="#">Sport</a>
<b>Weight:</b>	<a href="#">30.0000 ounces</a>

## Notes:

- min. dia. magna-frame
- fin can



Notes:

- fiberglass body
- 3.0" diameter

## Giant Leap Rocketry – Liberty-3

**LIBERTY 3:** Length: 51.75", Diameter 3.0 I.D., CP=40.8" aft from nosecone tip. CG should be less than 45.3" aft of nosecone tip. Dry Wt: 3.0 lbs (no motor) in Magna-frame; 3.4 lbs in Dyna-Mag; 4.5 lbs in Filament-wound Fiberglass. Motor Mount: 38mm (29mm with adapter). Chute: 36"  
Recommended motors (motors in *italics* require 38 to 29mm adapter):

**Aerotech:** *H128, H165, H180, H210*

**CTI:** *Pro29: 4-6-grain loads,*

*I161, I357, I300, I211, I284, I366, I435, J420, J350, J570*

*Pro 38: 2-6 grain loads*



# AGM 33 PIKE™

## Specifications

Length: 66.5"  
Diameter 4.0"  
Weight: 60oz  
Recovery: 36" Nylon Chute  
Motor Mount: 38mm  
Fins: 6 - 1/4" Plywood  
CP: 49" from nose tip

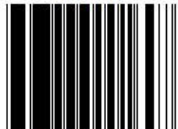
## Parts List

- (1) Nose Cone
- (1) Pre-slotted main body tube (31")
- (1) Payload section body tube (19")
- (2) Centering rings
- (1) Coupler
- (1) Bulkhead
- (1) Motor tube
- (6) laser-cut fins
- (2) Eyebolt, nut and washer
- (1) Nylon shock cord
- (2) Rail buttons, (2) screws, (1) weld nut
- (1) 12x12 Chute Protector (optional)
- (1) 36" Nylon chute (optional)

## You'll need these items to complete this kit

- 5 Minute Epoxy
- Lead Shot for Balance
- Filler and Paint
- Zap or CA Super Glue
- Motor Retainer
- 120/220 Sandpaper
- Pencil

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## Notes:

- phenolic body
- 4.0" diameter



**ARRR**  
ALWAYS READY ROCKETRY

**Specs:**

54mm airframe  
38mm motor mount  
Acme fin can  
Tubular nylon shock cords  
Dual Deploy, includes electronics bay  
36 inch chute  
67 inches tall  
Rail buttons  
Approx 4 pounds  
Recommended motors: H128W (with 29mm adapter) to J510W

**PREDATOR JR**

**HIGH POWER ROCKET KIT**

**Notes:**

- blue tube body
- quasi min-diameter
- fin can