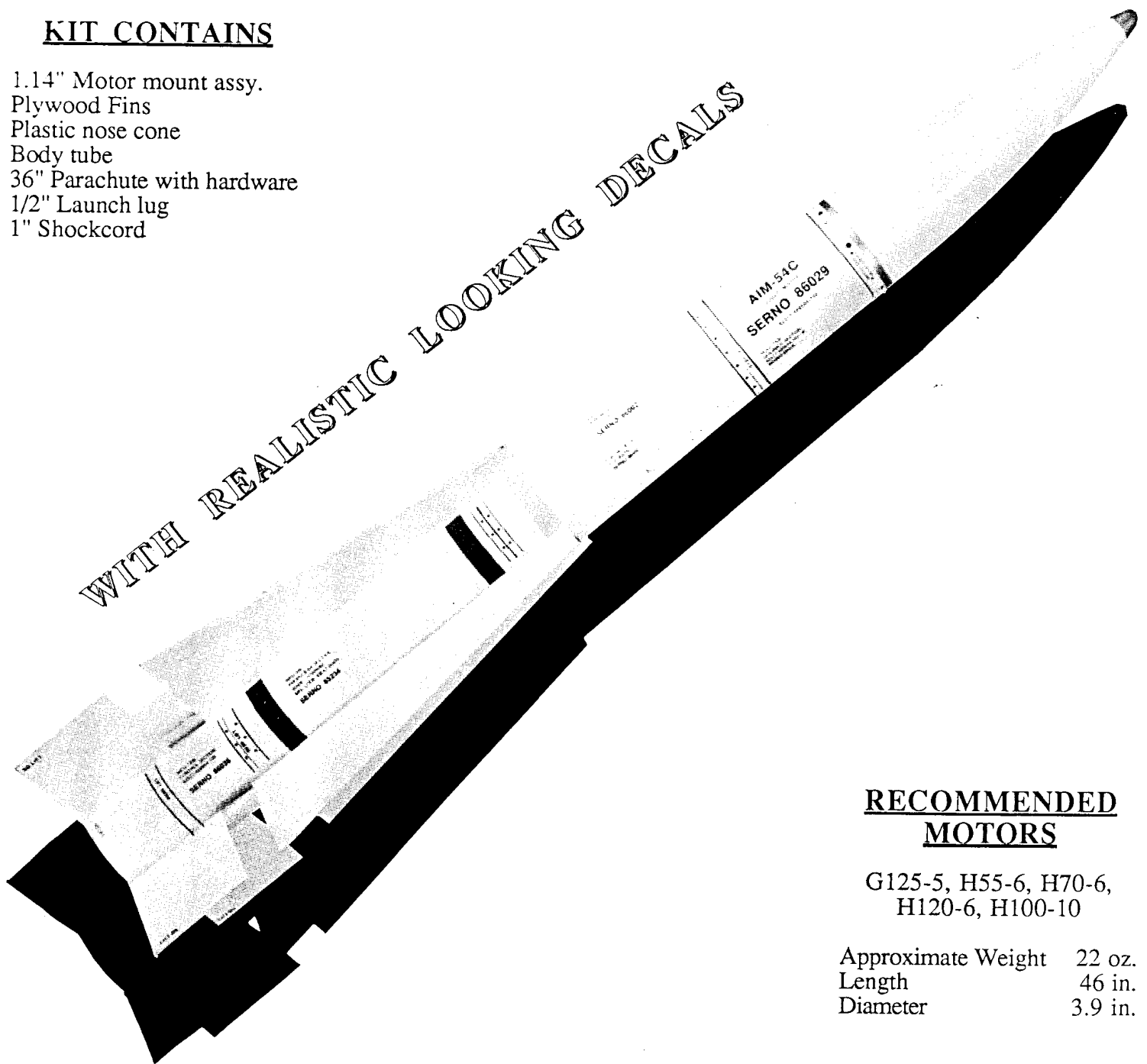


# PHOENIX

## KIT CONTAINS

1.14" Motor mount assy.  
 Plywood Fins  
 Plastic nose cone  
 Body tube  
 36" Parachute with hardware  
 1/2" Launch lug  
 1" Shockcord



## RECOMMENDED MOTORS

G125-5, H55-6, H70-6,  
 H120-6, H100-10

Approximate Weight	22 oz.
Length	46 in.
Diameter	3.9 in.

The Phoenix is a semi-scale model of a Navy air-to-air supersonic missile. Features 38 mm motor mount with a 29mm adapter, 36" Parachute, and through-the-wall fin mounting.

# ASSEMBLY INSTRUCTIONS

Thank you for purchasing the Phoenix model rocket kit. We hope that you will have many enjoyable hours flying your new Tiffany Hobbies rocket kit.

Please read these instructions before assembling, so that you will become familiar with how the kit is to be assembled.

Before assembling, check the kit for completeness. This kit should contain the following parts:

- |                                  |                              |
|----------------------------------|------------------------------|
| (1) BT34-3.9 Body tube           | (1) MT-1.52 Motor mount tube |
| (1) LL-.5 Launch lug             | (1) PNC-3.9 Nose cone        |
| (2) CR1-3.9-1.52 Centering rings | (8) Plywood fins sets        |
| (1) P-36 Parachute               | (1) 9' Shock cord            |
| (1) Shock cord mount             |                              |

*NOTE: If any parts are missing or damaged, please contact us before assembling the kit.*

To complete the kit you will need the following items:

- |                              |                        |
|------------------------------|------------------------|
| 5 minute Epoxy               | Cyanoacrylate Adhesive |
| Sanding sealer               | Sharp modeling knife   |
| Ruler                        | Sanding block          |
| Sandpaper (80, 220, and 400) |                        |

## ASSEMBLY

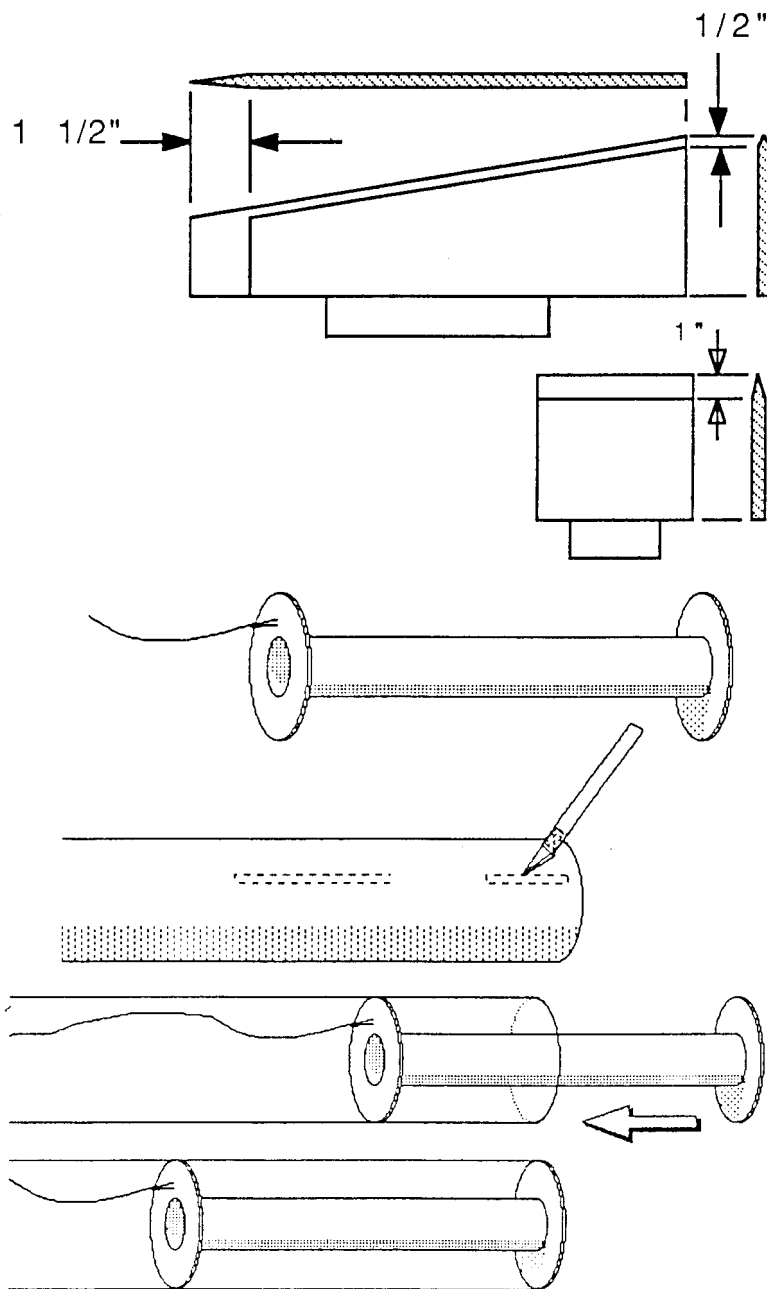
1) Sand the fins with 80 grit sandpaper on a sanding block to the pattern as shown. Fine sand the entire fin smooth with 220 grit sandpaper.

2) Cover the fin mount tabs with masking tape so that the sanding sealer won't seep onto the area to be glued. Seal the fins with sanding sealer, lightly sanding between coats. This will fill the grain of the plywood to obtain a smooth finish.

3) Epoxy the two centering rings flush with each end of the motor mount tubes, and with the shock cord mount extending away from the motor mount assembly.

4) With a sharp knife cut out the fin slots. The fin slots are marked out on the body tube. (use several passes with the knife to cut all the way through)

5) You must check the fit of the motor mount before gluing. To do this, insert the motor mount into the back end of the body tube where the fin slots have been cut. If the fit is too tight, sand the centering rings until a smooth fit is obtained. Then epoxy the motor mount into the body tube so that the bottom centering ring is flush with the end of the body tube and the shock cord mount extends to the top of the body tube.



6) Epoxy the fins into the fin slots in the body tube. Make sure they are straight with the body tube. For maximum strength give the fins a good fillet coat of epoxy.

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7) Cut the launch lug in half at an angle. Lightly sand the two marked areas on the body tube and the launch lug where they are to be glued together. With epoxy, glue the launch lugs directly over the two marked areas. Make sure that they are in line to each other and the body tube. Apply a good coat of epoxy as a fillet for maximum strength.

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8) Lightly sand the nose cone to remove the mold line.

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9) Tie one end of the shock cord to the mount on the nose cone. Apply a drop of cyanoacrylate adhesive on the knot. Attach the parachute to the nose cone.

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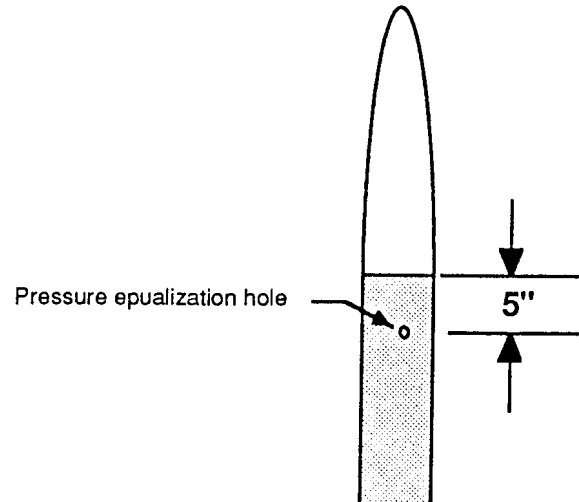
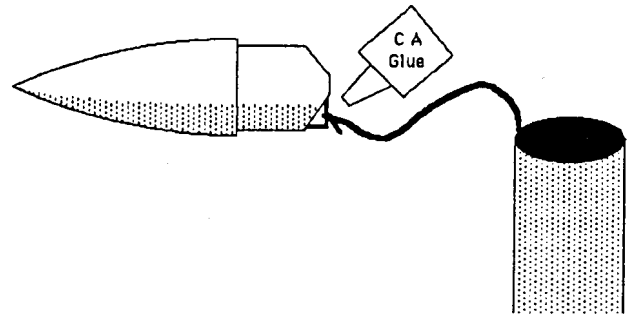
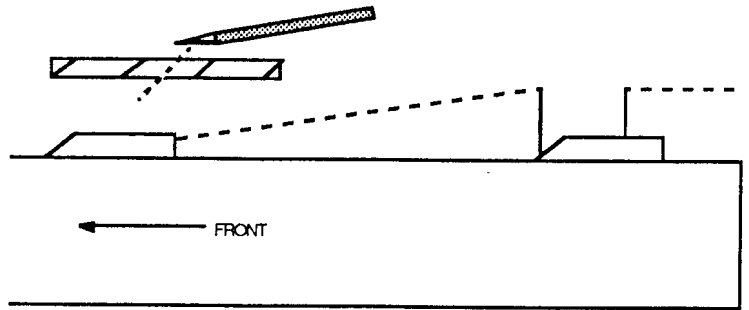
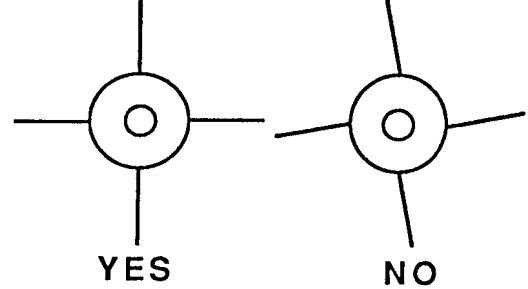
10) Due to the extremely high altitudes this rocket can achieve the outside ambient pressure may be low enough to cause the rocket to separate before ejection. To solve this problem two pressure equalization holes should be drilled into the body tube. These should be placed 5" below the nose cone and 180 degrees apart.

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11) Check the fit of the nose cone into the body tube. If the cone is too loose, wrap tape around the cone. If the cone is too tight, sand it down to a nice smooth fit.

---

12) Paint the rocket as shown on page 3.



## PREPARING FOR FLIGHT

1) Place a generous amount of recovery wadding in the body tube. Slide the wadding down into the body tube (do not pack the wadding).

2) Fold the parachute and insert it into the body tube. Slide the nose cone into the body tube.

3) Wrap 3/4" masking tape around the nozzle end of the motor so that the diameter is equal to the outside diameter of the motor tube. Friction fit the motor into the motor tube.

## FLYING INSTRUCTIONS

1) Always follow motor manufacturers instructions when preparing and flying this rocket.

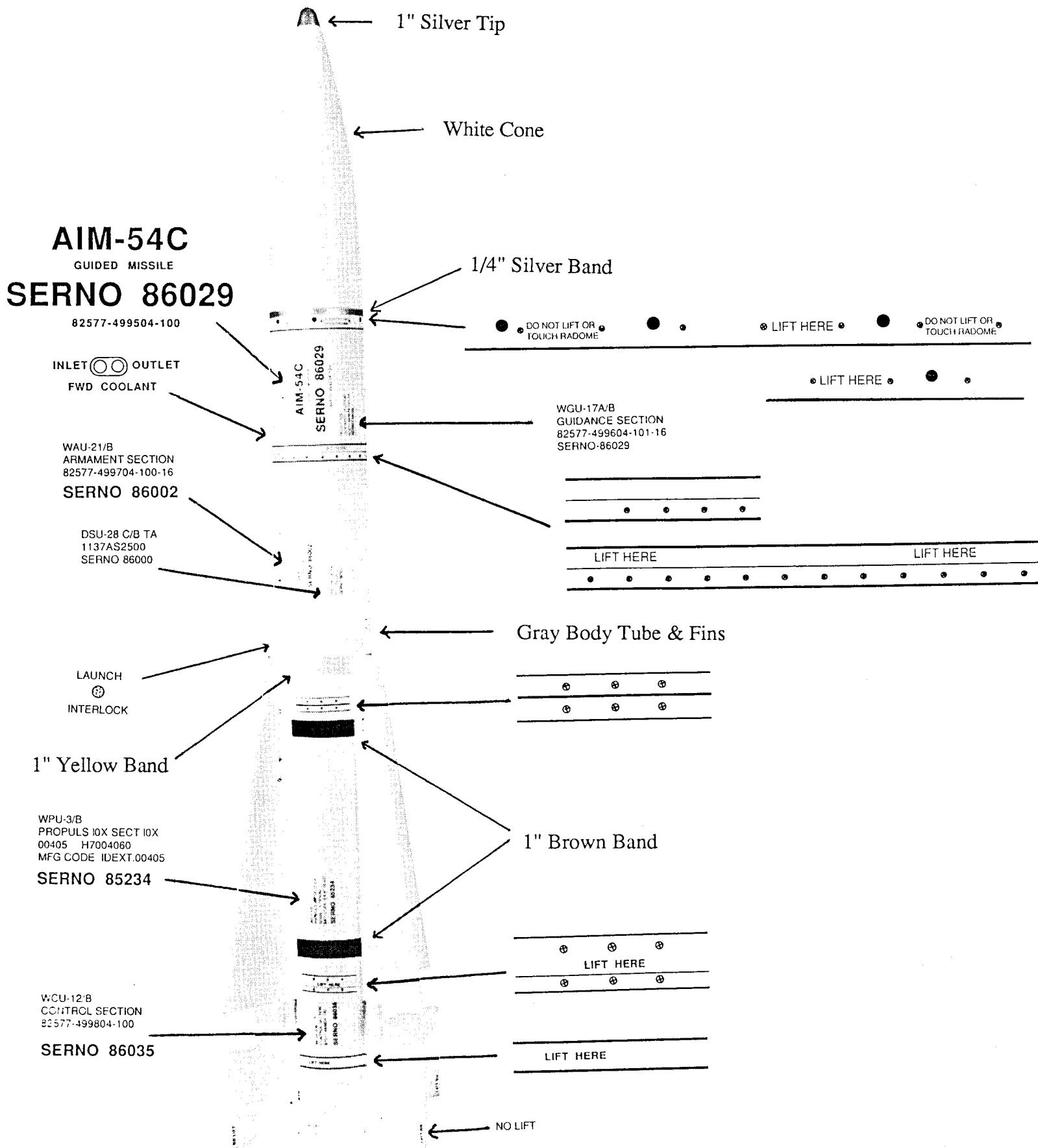
2) Always follow all local laws and ordinances when flying.

3) F.A.A. approval may be required to fly this rocket.

THOY.

*NOTE:* For larger motors (H motors and up) add 2oz of weight to the tip of the nose cone. Turn nose cone upside down (point down), insert weight and epoxy into place.

# PAINT AND DECAL INSTRUCTIONS



**TIFFANY HOBBIES OF YPSILANTI**  
**P.O. BOX 467, YPSILANTI, MI 48197**

1 1/8"



# THOY AIM-56C Phoenix

BT = LOC 3.9" x 34"

NC = LOC 3.9"

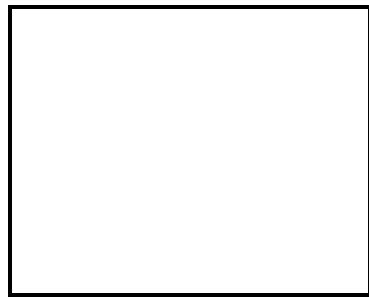
Motor Mount = 38mm

Fin template not to scale

13 3/8"



3 1/2"



4"

WGU-17A/B  
GUIDANCE SECTION  
82577-499604-101-16  
SERNO-86029

WGU-17A/B  
GUIDANCE SECTION  
82577-499604-101-16  
SERNO-86029

WPU-3/B  
PROPULS 10X SECT 10X  
00405 H7004060  
MFG CODE IDEXT.00405

WPU-3/B  
PROPULS 10X SECT 10X  
00405 H7004060  
MFG CODE IDEXT.00405

**AIM-54C**

GUIDED MISSILE

WCU-12/B  
CONTROL SECTION  
82577-499804-100

WCU-12/B  
CONTROL SECTION  
82577-499804-100

WAU-21/B  
ARMAMENT SECTION  
82577-499704-100-16

WAU-21/B  
ARMAMENT SECTION  
82577-499704-100-16

**SERNO 86029**

82577-499504-100

**SERNO 86035**

**SERNO 86035**

**SERNO 86002**

**SERNO 86002**

**AIM-54C**

GUIDED MISSILE

DSU-28 C/B TA  
1137AS2500  
SERNO 86000

DSU-28 C/B TA  
1137AS2500  
SERNO 86000

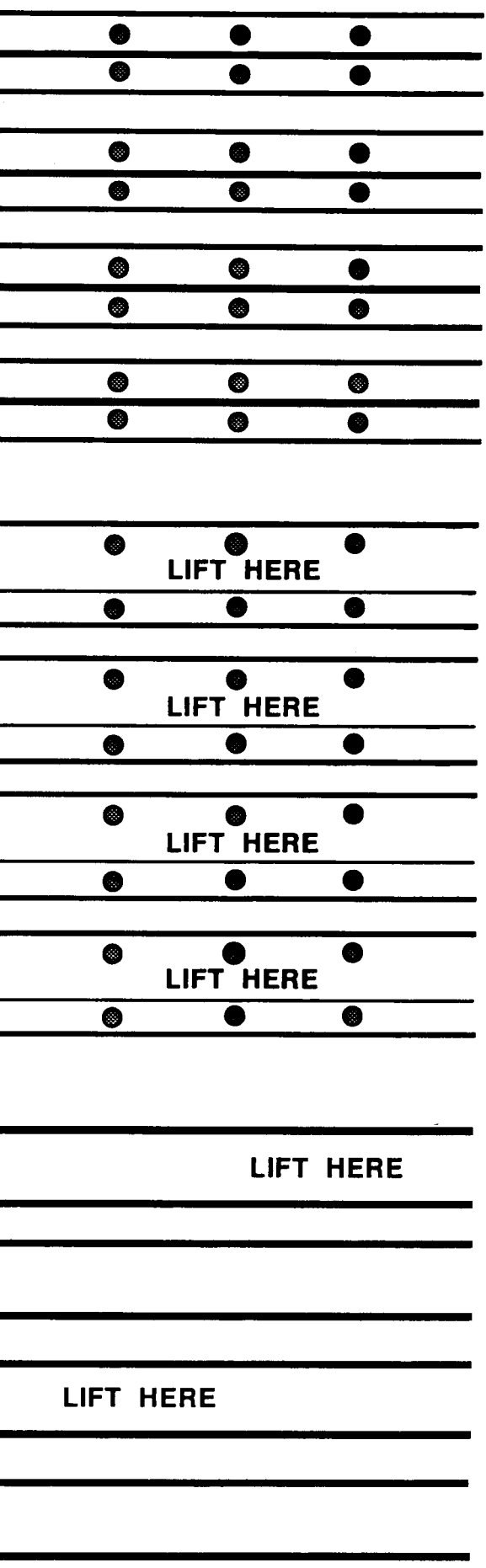
INLET  OUTLET  
FWD COOLANT

**SERNO 86029**

82577-499504-100

LAUNCH 

INTERLOCK



NO LIFT NO LIFT  
NO LIFT NO LIFT  
NO LIFT NO LIFT  
NO LIFT NO LIFT

LIFT HERE

LIFT HERE

DO NOT LIFT OR  
TOUCH RADOME

LIFT HERE

DO NOT LIFT OR  
TOUCH RADOME

LIFT HERE