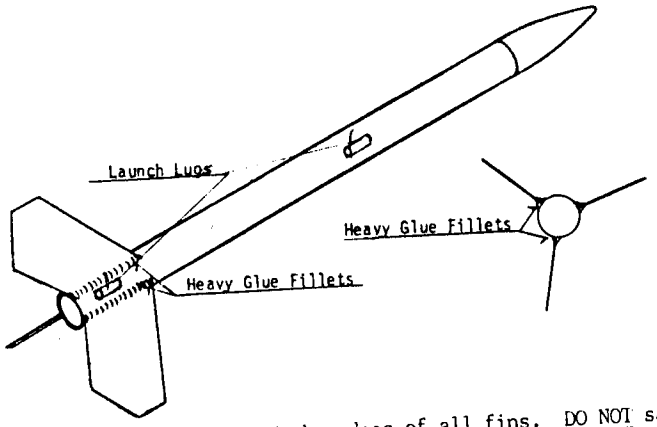
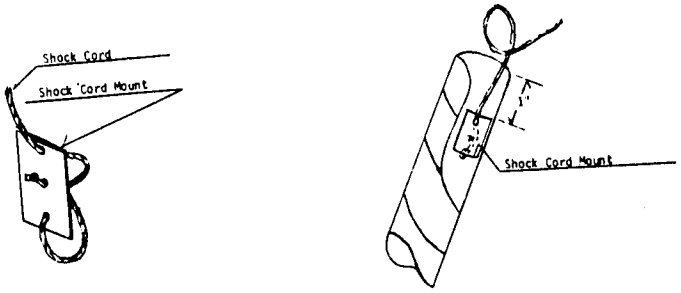
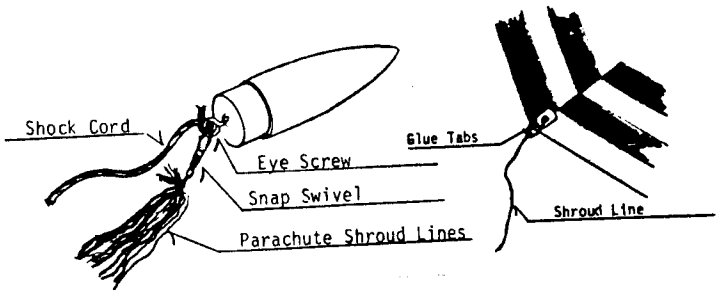


___ 3. Lightly sand and round the edges of all fins. DO NOT sand root (red colored edge) of fins. Attach red edge of the fins to the body tube. Be sure the fins stick straight out from the body tube and are carefully aligned with the lines marked on the body tube. Apply a line of glue to launch lug and place it centered between two fins as shown. Stand the assembly on its forward end and allow to dry. When dry, run 2 or 3 heavy glue fillets on both sides of the fins for added strength. Glue second launch lug 9" up tube from lower lug and parallel with lower lug.



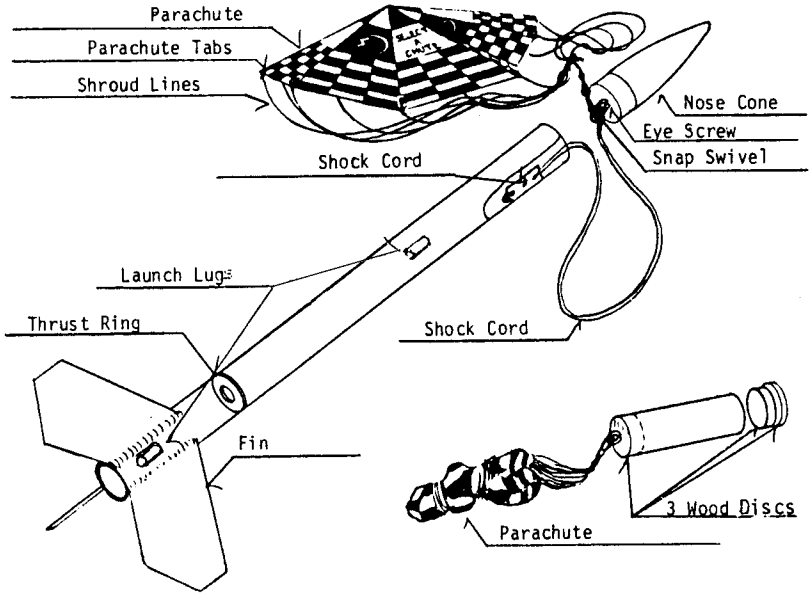
___4. Install shock cord in shock cord mount as shown. Spread a heavy layer of glue over the side opposite the shock cord knot. Curve shock cord mount and insert into the nose cone end of the body tube and firmly press in place. Drawing shows the proper position in the body tube.



___5. Put eyescrew in edge of nose cone. Attach the shock cord. The parachute is marked in inches. Cut with scissors to the desired size. For the Voyager, cut 14". Lay the parachute on a flat surface and attach shroud lines as shown. Punch a hole through the glue tab and tie the shroud lines to the parachute. Attach snap swivel. Repeat operation for second parachute.

VOYAGER

The Voyager with its separate recoverable payload capsule is the high altitude scientific experimental vehicle of the F.S.I. Fleet. Experiments placed in the capsule are returned safely to earth with the capsule which is ejected and recovered separately from the main body of the rocket. To use F.S.I. 21mm D series engines order C-10 engine mount.

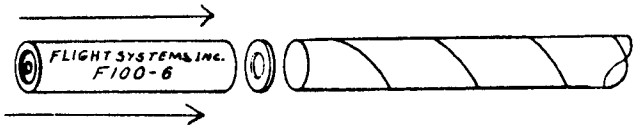


PARTS LIST:

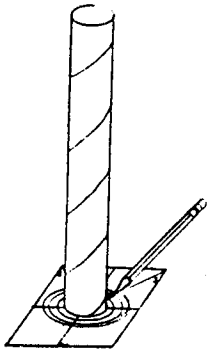
1 Nose cone	2 Sets Shroud Lines
1 Body Tube 18" X 1.13"	2 Sets Glue Tabs
1 Payload Capsule Tube	2 Eyescrews
3 Fins	2 Snap Swivels
1 TR-2 Thrust Ring	2 Launch Lugs (1/8" - 1/4")
1 Shock Cord	1 Flame Resistant Wadding
1 Shock Cord Anchor	3 Wood Discs
2 Parachutes	1 Decal Sheet

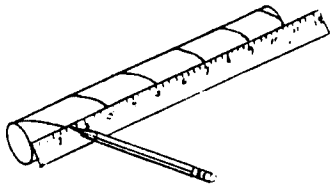
ASSEMBLY INSTRUCTIONS:

Important:
Read through entire instructions before starting assembly. Check to be sure all parts are present. Familiarize yourself with the parts. Test fit the parts together before applying any glue. If a part does not fit properly, sand or build up for a precision fit. Please read each step before starting that step. Check off each completed step.

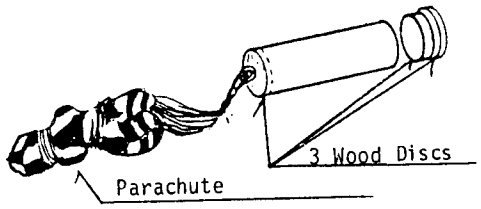


___1. Install thrust ring in body tube. Place a ring of glue inside one end of the body tube. Now using the F.S.I. 27mm engine push the thrust ring into the body tube until the engine protrudes 1/2". Remove the engine.





___2. Mark the body tube for fin placement using the fin placement guide. Using a straight edge extend vertical lines up the body tube from the fin placement marks.

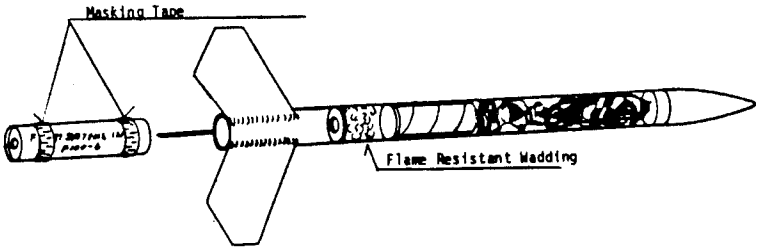


___6. Assemble payload capsule as shown. Twist the eyescrew into one of wooden discs that fits the inside diameter of the payload capsule tube. Place a ring of glue inside one end of capsule tube and insert disc until it is flush with the end of the tube. Next, glue the other wooden disc that will slide into the payload capsule in the center of the larger wooden disc. When dry, slide this assembly into the end of payload tube. This will serve as a removable lid for the payload capsule. Now attach parachute to eyescrew.

___7. The rocket is now ready to paint and add decals. It is recommended that a light coat of paint be sprayed on and let dry. Add a couple more mist coats lightly sanding between them. Then apply a wet coat (gloss just appears) and set aside to dry. After model is completely dry, apply decals. Cut one decal at a time from the sheet and submerge in lukewarm water until decal will slide off of the paper (usually about 20 seconds). Gently slide decal onto rocket and carefully align and smooth out any wrinkles.

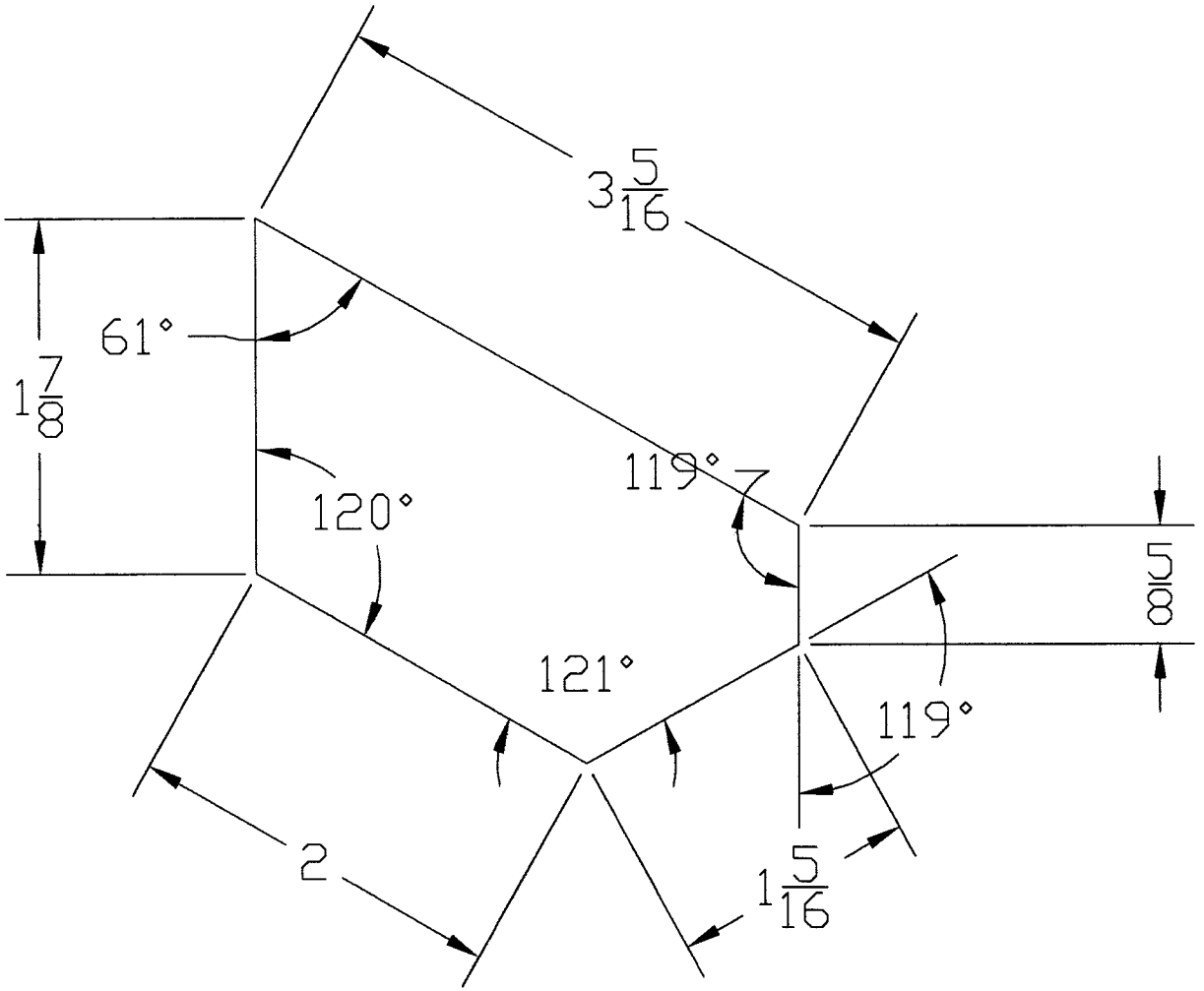
FLIGHT PREPARATION

1. Install flameproof wadding as shown in cutaway view of rocket.
2. Fold parachute and install payload capsule as shown in cutaway view.
3. Fold and install parachute as shown in cutaway view. It is a good idea to dust parachute with ordinary talcum powder before each flight.
4. Install engine using Friction Fit. Several wraps of masking tape are placed around the engine as shown to hold the engine in place.
5. Insert F.S.1. engine until contact is made with the thrust ring. Be sure to use enough masking tape to assure a snug fit in the body tube. It should require a firm push. If the engine does not fit firmly it will be ejected instead of the parachute and the rocket will free fall.
6. Place the rocket on the launcher, insert the F.S.1. ignitor and attach the firing clips as shown.
7. Go back to launch control and clear the area. Arm the launch control by inserting the phone jack attached to the firing line.
8. Give count down, 5-4-3-2-1, ignition!!



Be sure to follow the *HIA-NAR Rocket Safety Code when carrying out your model rocket activities.
*HIA- Hobby Industry of America
NAR- National Association of Rocketry

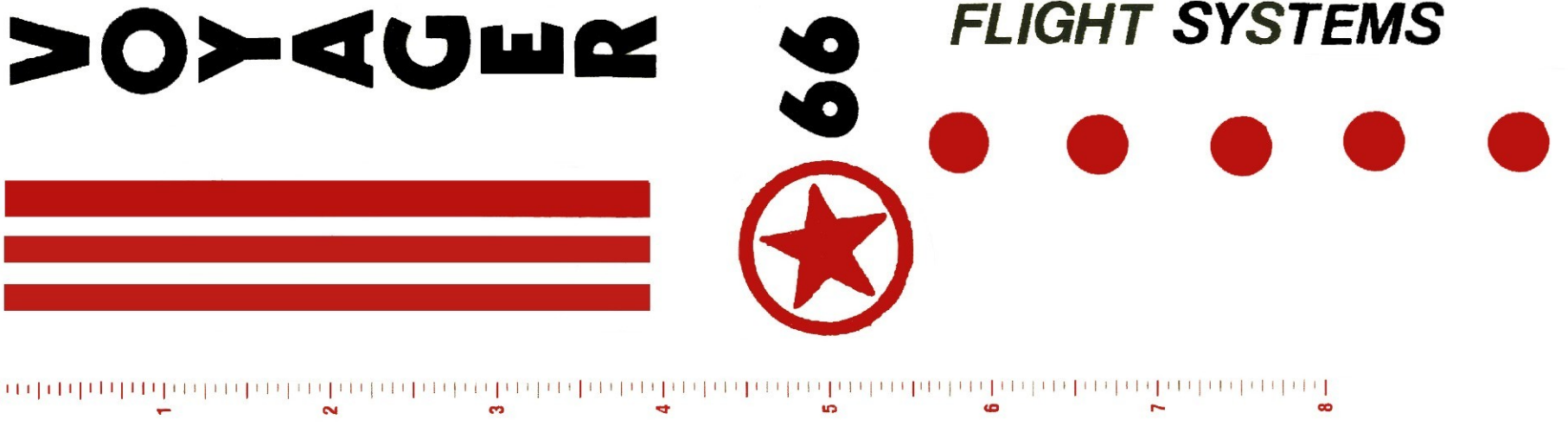
1/16" PLYWOOD



FSI	VOYAGER	FIN PATTERN


TODAY
1993
S M T W T F S
JANUARY
1 2
3 4 5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
31
1
FEBRUARY
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28
MARCH
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31
2
APRIL
1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30
MAY
1
2 3 4 5 6 7 8
9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30 31
3
JUNE
1 2 3 4 5
6 7 8 9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30
4
JULY
1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30 31
AUGUST
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31
5
SEPTEMBER
1 2 3 4
5 6 7 8 9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30
6
OCTOBER
1 2
3 4 5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
31
NOVEMBER
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30
7
DECEMBER
1 2 3 4
5 6 7 8 9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30 31
8
B203


VOYAGER
66
FLIGHT SYSTEMS


VOYAGER
66
FLIGHT SYSTEMS