

LAUNCH RACK



ISSUE
136
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May/June
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In This Issue: More, Much More Than News of 439

The Launch Rack

The Official Publication of The
Garden State Spacemodeling Society

MAY/JUNE 2000

ISSUE 136(69)

The Launch Rack is the official publication of the *Garden State Spacemodeling Society* (Section 439 of the National Association of Rocketry) and is published for the enlightenment and entertainment of its membership.

Others interested in receiving this publication may do so for the annual subscription rate of \$7.50 for 6 issues. Overseas subscriptions are \$17.50. Please send this money in USD to **Arnold Klein, 2 Oneida Avenue, Rockaway, NJ 07866.**

The Editor invites and encourages all to submit articles, photographs, plans, letters to the editor, etc., for future publication. In addition to articles, etc., the Editor welcomes and encourages constructive feedback on each and every issue. Please send material to:

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Visit our WEB site at: www.robnee.com/gsss

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YOUR CLUB OFFICERS

President:Jack Sarhage
Vice-president:Bob Gill
Vice-president:Steve Pantuck
Treasurer/Sec:Arnold Klein
Section Advisor:Bob Zabriskie

DEADLINE FOR NEXT ISSUE: JUNE 15

ON OUR COVER:

Section Treasurer/Secretary Arnold Klein picture with on of his Micor-Max rockets at an earlier launch. "Ye Ole Editor" is still waiting for plans to publish in a future issue. I need articles, plans, kit reviews, building tips, cartoons, and/or drawings.

LAUNCH SCHEDULE

Anyone wishing to attend any GSSS activity should call the **GSSS Hotline 908 658-9417** the morning of, to verify the event is still on. If the event is cancelled, the recording will be updated at 9:00am.

A NOTE ON NORTH BRANCH PARK. Please keep in mind that the park and weather conditions dictate what we allow to fly. Just because a rocket is under the one pound limit, do not assume it is an automatic launch. If the RSO does not feel the model can be safely flown or recovered within the park's boundaries, it will not be flown regardless of the weight or impulse. If some other activity shows up and starts using adjoining fields, the RSO will reduce impulse for all flights. So, bring some small stuff just in case.

REMEMBER, WE SHARE THE PARK. We do not pay a fee and most of us are not a resident of that county. Rocket flying fields in New Jersey are in short supply, and we are protective of the fields we have. If you're unhappy with this limitation, then we invite you to help us in gaining legal access of privately owned, large, open fields.

UNLESS NOTED ALL LAUNCHES WILL BE HELD AT NORTH BRANCH PARK.

Saturday, May 20, 2000

Sport launch 10:00am to 3:00pm

Event: Fun Test 2000-Part III (Section Meet)

½A Flex-wing Glider

Sanction No. 1008-00S

Club Meeting: 1130-1230 hours

Saturday, June 24, 2000

Sport launch 10:00am to 3:00pm

Event: Fun Test 2000-Part IV (Section Meet)

A Helicopter Duration

Sanction No. 1009-00S

and 2nd Ted Rebetje Memorial Launch

Club Meeting: 1130-1230 hours

Saturday, July 29, 2000

Sport launch 10:00am to 3:00pm

Event: Fun Test 2000-Part V (Section Meet)

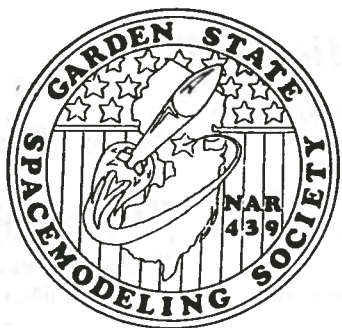
½A Parachute Duration (Multi Round)

Sanction No. 1001-01S

SATURN ROCKET/MOON LANDING

COMMEMORATIVE LAUCH

Club Meeting: 1130-1230 hours



News From Section 439

ed•i•tor \ed-et-er/ *n* 1: one that edits esp. as an occupation 2: a person who write editorials 3: a device used in editing motion-picture film or magnetic tape

Webster's New Collegiate Dictionary

I looked up the definition of "editor" to see if I had misunderstood the meaning. Right off I new that I had because it is to be an "occupation"; meaning paid for it. As we know the work is there but, this is a volunteer positon.

The second meaning, "a person who write editorials" I could identify with. After all I have written editorials for this newsletters and well as other publications. However, an editorial is not supposed to be what comprises the entire issue.

And, while we do not use film or magnetic tape the "device" used to put together our newsletter by yours truly, "Ye Ole Editor"... is called a word processor.

Therefore I am turning to you, once again, to ask that you help me by sending in something for me to edit; articles, plans, kit reviews, building tips, cartoons and/or drawings.

MARCH SPORTS LAUNCH

A is for Alpha flown by Bob Zabriskie with a note "40th Estes Anniversary" flight. **B** is for a Big Bertha on a C6-3 by Rob Nee. **C** is Stephen Pellegrine's "Cheeacha" on an F23. **D** is Der Red Max of Ryan McDaniell. Then there is **E**, Roger's Ex-yellow. **F** was Bob Zabriskie's "Flea" though a "super" one.

What this means is that at any given launch there is an alphabet of model rockets launched.

At this launch there were 71 "logged in" flights. We know there are more but, some of

you still are not logging your flights in. We want and need this information. It has been discussed that we may go the way of some other sections by having everyone fill out an **Official NAR Sport Launch Flight Card** for each flight. Of course, this would mean more paper work for all involved.

We have always kept our launches as informal as we can, while still insuring that the NAR Safety Code is observed.

SO PLEASE , LOG IN YOUR FLIGHT BEFORE YOU GO OUT TO THE LAUNCH PAD.

APRIL SPORTS LAUNCH

In a word you could say this launch was "Blustery". But, it is not felt this is what caused the rather small turn out.

Anyway, GSSS has always strived for quality and not quantity in its activities.

This launch featured the first "Fun Test" of the year. The event was 1/2A Rocket-glider with the following results. The Hyperspace Team (Emily and Stephen Flynn) came in first with a flight of 11.36 seconds. Second with 9.27 seconds was Daniel Flynn. Third place was held by Jack Sarhage and a flight of 5.16 seconds and Bob Zabriskie's time of 3.81 kept him in fourth place.

This event was also an NAR Sanction "Section Meet" and the only difference between it and the contest reported above was that Jack and Bob tied for third place.

As always there were several new people attending the launch and we hope that they will become members.

FUN TEST 2000 - PART V

In the "Launch Schedule" on page two you will see that on the 29 July launch the event is 1/2A Parachute Duration (Multi-flight). This means that each contestant has three official flights flown in three rounds. Per Rule 15.12.1 "Number of Flights" each round will be flown as follows:

Round 1: 1000-1100 hours

Round 2: 1100-1200 hours

Round 3: 1245-1345 hours

Fly-offs, if needed will begin at 1400 hours.

"Any model not flown in its designated round shall receive a zero score." Rule 15.12.1

News from Section 439 continued...

REPORTER FOR A LAUNCH

As I said at the beginning of this I need help covering the section's activities.

At the May launch, which I will cover, I will have a sign up sheet. I am asking for volunteers to sign up to be a "Reporter for a Launch" starting with the June launch.

If we can do that, it means that by taking turns covering a launch no one is overburdened, especially your editor.

And, remember, by writing the report you earn 20-points toward your "Achievements in Model Rocketry" award.

Astrophilately



This is reproduced at 54% of the original size.

sky watch

Contributing Editor: *Bob Zabriskie*

MAY

Mercury and Mars are very low in the west northwest sky right after sunset (30 minutes). On the 18th they are only 1.2-degrees apart with Mars above and to the left.

Jupiter and Saturn will reappear in the dawn sky by the end of the month, very low in the east northeast. Look about 1/2-hour before sun rise. During the last few days of the month they will be in conjunction and only 1-degree apart. **Note: This in their first conjunction in 20 years.)**

JUNE

Mercury will be very low in the west northwest sky right after sunset.

Venus and Mars are behind the sun and will not be visible.

Jupiter and Saturn will appear very low in the east northeast predawn sky. On the 28th the waning crescent moon will join the pair.

The Sun on the 20th at 9:48pm reaches the June Solstice which is the start of Summer in the Northern Hemisphere.

"...to arouse public interest in the possibilities of rocket and space flight, also to carry out practical experiments."

No, this isn't an early NASA "mission statement" but, the aim of the *Paisley (Scotland) Rocketeers' Society* founded February 27, 1936. Though their history is short, being dissolved with the outbreak of World War II in 1939, it contains several firsts; a model rocket contest in 1936, the successful launch of a 3-stage rocket in 1937.

No further activities take place for 32 years. Then, on February 23, 1968, John D. Stewart, the founder of the Paisley group, along with three others revive the society with a new aim, "to foster the development of small-scale rockets for peaceful uses, to cooperate with other societies in this, and to organise, possibly yearly, rocket mail shots in aid of suitable charities

Rocket mail? Yep, the subject of this new column. Actually, it has to do with one area in the philatelic topic of rocket/space on stamps.

Rocket mail, as used here, refers to the special "covers" with insignias, symbols, and "cachets" designed by rocket groups and individuals to commemorate a special rocket launch. This "mail" in the form of cards, letters or specially printed forms showing characteristics of the flight such as date, what was being commemorated, number flown and by whom are then launched in a rocket, model or full size.

At the beginning of the column is a piece of "mail" reduced to fit, is a photocopy of a

Continued on the next page.....

GSSS - 18 Years of Model Rocketry

Astrophilately continued...

"flimsy" (we call it onion-skin paper) flown in the 1st Aquajet shot for TV, by the Paisley Rocketeers' Society in 1976.

While you may not think there would be much interest in collecting these bits and pieces (literally after certain unsuccessful flights), the American Air Mail Society published a two volume "list" ; "Ellington-Zwisler Rocket Mail catalog. Volume 1 are items produces up to 1967 and Volume 2 covers those produced between 1967 and 1972. The majority are in the \$10.00 range but, many covers are rare and valuable, including one flown by Paisley that is in such demand it is valued at \$200.00 each.

England is not the only country that flew, or flies, rocket mail, nor can it be said for certain they were the first...Australia, Austria, France, German, India, Italy, Yugoslavia and our own country have "rocket mail" listings.

If you want to begin a collection of rocket mail covers, you can get over 30-pages of what's available from Warren H. Crain, P. O. Box 5954, San Antonio, TX 78201 for a dollar.

Maybe you will design and fly your own card or cover at an upcoming launch. What about a charity launch? Rocket mail covers can be flown, then sold, and the money donated to some cause.

Next time, we will look at another interesting collection, that of "launch date covers".

LETTERS TO THE EDITOR

(The following letter was received by a fellow editor, Okie Free Flight Flyer, down Oklahoma way as appropriate to the "so you think you're having a bad day" department.)

Dear Editor Bill,

Yew hay knot herd frum me in a long tyme. That is becawz I have knot rote tew yew.

This lettr is kinder sogy cawz we hed trubble gettin hit tew the Post Office. Me an muh bruther Sluf (he's the won whut's got a camara) and muh othr bruther Skosh (yew ain't met him yet) wuz goin lickety-split fer town in Pa's ol pickem-up truk to put this hear lettr in the male box wen a weel came off.

Sluf, he uz drivin an he got reel paniky and

runned off in the crick. Skosh, he's in the bak an starts yellin Ah'm drowndin, Ah, drowndin! I says to him yew dam fool open the talegate an clime out. Wul he did but he uz carryin this hear lettr in hiz overhaluls an hit got a gud dunkin wen he dropped hiz drawers to see whut parts he dun got wet.

Ol Skosh he uz mad az hell cawz he sed everthin cept his Petunia got wet an hit ain't even Satiday night yet. Wul don't chew no that Skosh jist went on an on bout his Petunia being so skared an all, but I cudn't see no cents to it. I looked hiz Petunia over purty careful lik an fer a pet chicken she dint seam no werse fer ware to me.

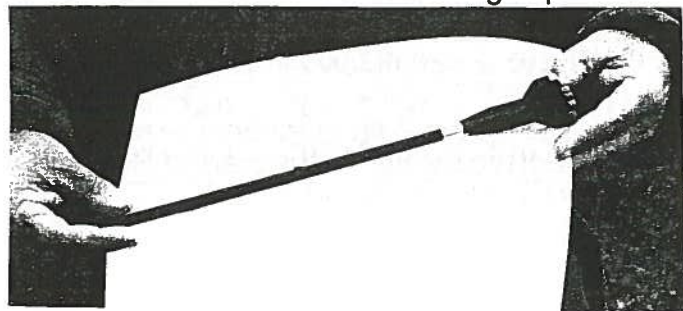
That's whut maid me think torite tew yew. Yew sed yew wuz agoin to rite bout Ol Timers fer that ther Model Aviashun magzine. Wel are fambly is famus fer ol timers. Ukle Caleb Crews wuz won of the best of the litter. He wud get hooted up on corn skweezins, tuck a Leghorn rooster under each are an jump off the tallist thang he cud find, just a flappin and crowin all the way down. Them two chickens maid a powerful lota rackit two.

Hits kinda tew bad ol' Caleb wuz a short timer as wel az bein an ol timer. Hiz last jump-n-flap show wuz off uv the water towr down at the depo, jus befor ol Numer 97 cam threw a cuggin an a steamin. Yew ain't never seen so meny fethers ifn yer life. Why hit wuz a reglar blizzard!

We dun berried him wer he landed-in front of the depo.....and over by Logans Hdwe Store.....an jus west of the barber shop.....an rite next tuh the livry stable. Peeple came frum milz aroun fer the fewneral an even Col. Sanders got teery eyed.

Wul anyway Editor Bill ahm rite glad yore gonn dew that ther Ol Time riting. Ifn yew ever kneed to no bout sum of them Ol timers yew jus let me no.

Lafe Crews
Hogslop Jct. OK



Centuri body tubes

Centuri paper tubes

Code	Length	Inside diam.	Outside diam.	Wall thick.
ST-56	6.00"	0.515"	0.543"	0.014"
ST-512	12.00"	0.515"	0.543"	0.014"
ST-518	18.00"	0.515"	0.543"	0.014"
ST-73	3.00"	0.715"	0.759"	0.022"
ST-76	6.00"	0.715"	0.759"	0.022"
ST-79	9.00"	0.715"	0.759"	0.022"
ST-712	12.00"	0.715"	0.759"	0.022"
ST-718	18.00"	0.715"	0.759"	0.022"
ST-83	3.00"	0.865"	0.908"	0.022"
ST-87	7.00"	0.865"	0.908"	0.022"
ST-88	8.00"	0.865"	0.908"	0.022"
ST-810	10.00"	0.865"	0.908"	0.022"
ST-812	12.00"	0.865"	0.908"	0.022"
ST-818	18.00"	0.865"	0.908"	0.022"
ST-103	3.00"	1.000"	1.040"	0.020"
ST-105	5.00"	1.000"	1.040"	0.020"
ST-108	8.00"	1.000"	1.040"	0.020"
ST-1010	10.50"	1.000"	1.040"	0.020"
ST-1018	18.00"	1.000"	1.040"	0.020"
ST-133	3.00"	1.300"	1.340"	0.020"
ST-138	8.00"	1.300"	1.340"	0.020"
ST-1313	13.50"	1.300"	1.340"	0.020"
ST-1318	18.00"	1.300"	1.340"	0.020"
ST-163	3.00"	1.600"	1.640"	0.020"
ST-165	5.25"	1.600"	1.640"	0.020"
ST-1612	12.80"	1.600"	1.640"	0.020"
ST-1618	18.00"	1.600"	1.640"	0.020"
ST-205	5.00"	2.000"	2.040"	0.020"
ST-2012	12.00"	2.000"	2.040"	0.020"
ST-2018	18.00"	2.000"	2.040"	0.020"

Centuri plastic tubes

Code	Length	Inside diam.	Outside diam.	Wall thick.
CPT-71	1.87"	0.715"	0.741"	0.013"
CPT-72	2.75"	0.715"	0.741"	0.013"
CPT-73	3.25"	0.715"	0.741"	0.013"
CPT-78	8.00"	0.715"	0.741"	0.013"
CPT-82	2.50"	0.865"	0.891"	0.013"
CPT-83	3.50"	0.865"	0.891"	0.013"
CPT-811	11.25"	0.865"	0.891"	0.013"
CPT-102	2.50"	1.000"	1.030"	0.015"
CPT-103	3.50"	1.000"	1.030"	0.015"
CPT-1010	10.00"	1.000"	1.030"	0.015"
CPT-1018	18.00"	1.000"	1.030"	0.015"
CPT-134	4.00"	1.300"	1.330"	0.015"
CPT-136	6.00"	1.300"	1.330"	0.015"
CPT-1312	12.00"	1.300"	1.330"	0.015"
CPT-1318	18.00"	1.300"	1.330"	0.015"

Quest body tubes

Quest paper tubes

Code	Length	Inside diam.	Outside diam.	Wall thick.
T1518	18.00"	0.550"	0.590"	0.02"
T1524	24.00"	0.550"	0.590"	0.02"
T2018	18.00"	0.747"	0.787"	0.02"
T2024	24.00"	0.747"	0.787"	0.02"
T2518	18.00"	0.944"	0.984"	0.02"
T2524	24.00"	0.944"	0.984"	0.02"
T3018	18.00"	1.140"	1.180"	0.02"
T3024	24.00"	1.140"	1.180"	0.02"
T3518	18.00"	1.338"	1.378"	0.02"
T3524	24.00"	1.338"	1.378"	0.02"

Astron X-Ray

Design by Estes Industries
Re-drawn by Peter Alway

Parts List:
(all parts from Estes)

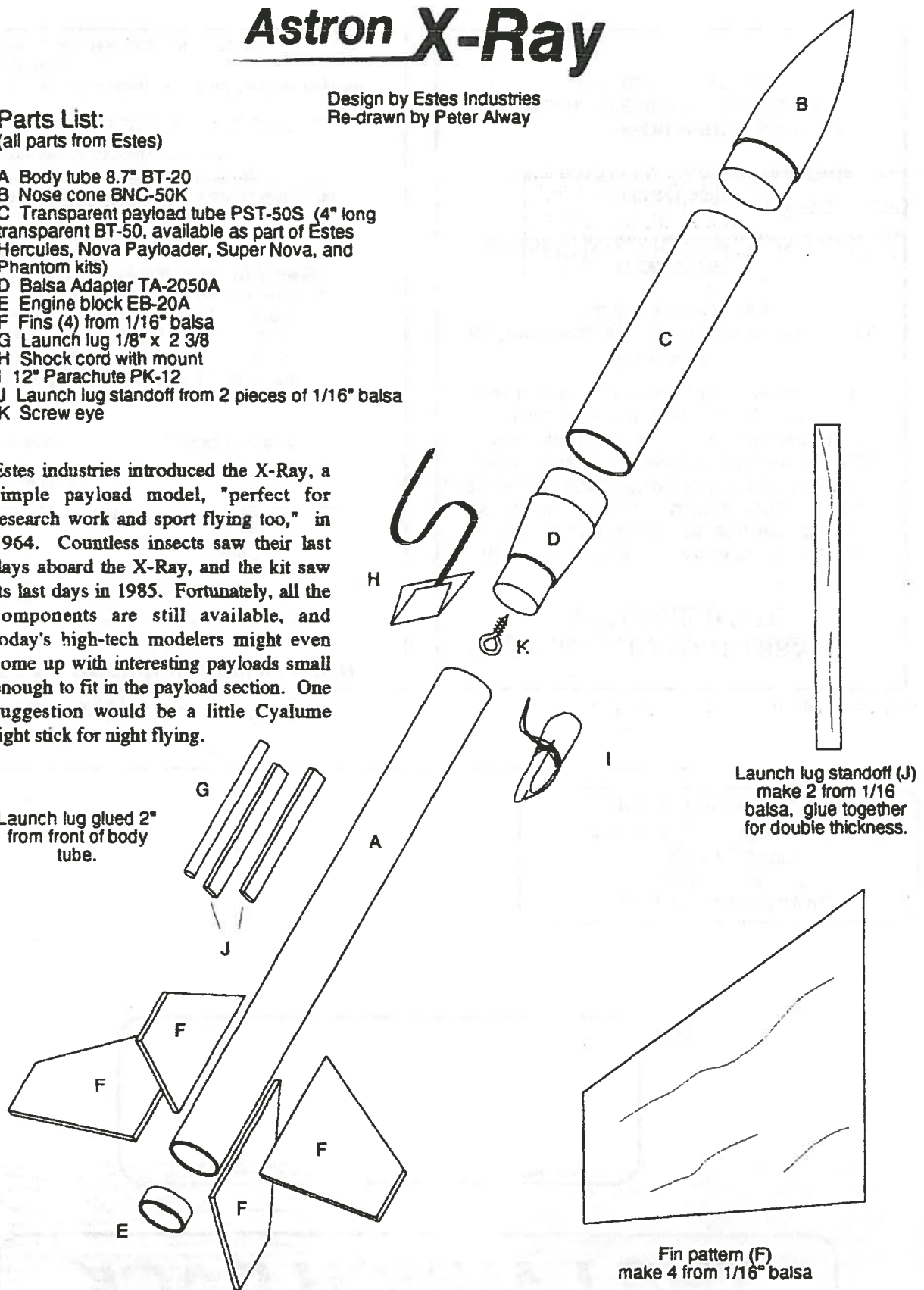
- A Body tube 8.7" BT-20
- B Nose cone BNC-50K
- C Transparent payload tube PST-50S (4" long transparent BT-50, available as part of Estes Hercules, Nova Payloader, Super Nova, and Phantom kits)
- D Balsa Adapter TA-2050A
- E Engine block EB-20A
- F Fins (4) from 1/16" balsa
- G Launch lug 1/8" x 2 3/8
- H Shock cord with mount
- I 12" Parachute PK-12
- J Launch lug standoff from 2 pieces of 1/16" balsa
- K Screw eye

Estes industries introduced the X-Ray, a simple payload model, "perfect for research work and sport flying too," in 1964. Countless insects saw their last days aboard the X-Ray, and the kit saw its last days in 1985. Fortunately, all the components are still available, and today's high-tech modelers might even come up with interesting payloads small enough to fit in the payload section. One suggestion would be a little Cyalume light stick for night flying.

Launch lug glued 2" from front of body tube.

Launch lug standoff (J) make 2 from 1/16" balsa, glue together for double thickness.

Fin pattern (F) make 4 from 1/16" balsa



**DIRECTIONS TO NORTH BRANCH
PARK LAUNCH SITE**

North Branch Park is very near the traffic circle
junction of NJ Routes 22, 28, 202, and 206, near
Somerville. Follow 202 South from the circle for
2 miles, past Ortho Pharmaceutical and Harris Corp,
under railroad trestle marked "4H is Tops", to right
turn onto Milltown Road. Make first left after
firehouse and 4H Center on right; follow
path to open field. Monthly launches from 10-4.

FROM NORTH
NJ Turnpike South to Exit 10, 287 North to Exit 13,
202/206 South to Circle

FROM SOUTH
202 North to Milltown Rd.; or 206 North to Circle

FROM EAST
287 North to Exit 13, 202/206 South to Circle

FROM WEST
Rt. 78 or Rt. 80 East to 287 South to Exit 13,
202/206 South to Circle

GSSS MEMBERSHIP APPLICATION

Name _____
Address _____
City _____ State _____
Zip _____ Birthdate _____
Phone Number _____
NAR number _____ GSSS number _____

Membership Category (Check One)
 Junior (Under 16)\$5.00
 Leader (16 through 20)\$7.00
 Senior (21 or over)\$10.00
 Family Plan (Deduct \$2.00 for each additional
 family member, only one Launch Rack will be
 sent.)
 I pledge to abide by the NAR/HIA Safety Code and
 GSSS Constitution and Bylaws in all my
 non-professional rocketry activities.
 Signed _____ Date _____
 Send this application along with check for dues payable
 to: Arnold Klein,
 2 Onelda ave Rockaway N.J. 07866

**GARDEN STATE SPACEMODELING
SOCIETY -- NAR SECTION #439**
 Robert Zabriskie
 3 Peachtree Road
 Basking Ridge, NJ 07920



TO:

Robert Nee
 222 Willow Avenue - #2A
 Hoboken NJ 07030

THE LAUNCH RACK
 NEWSLETTER OF NEW JERSEY'S SPACEMODELING SOCIETY

