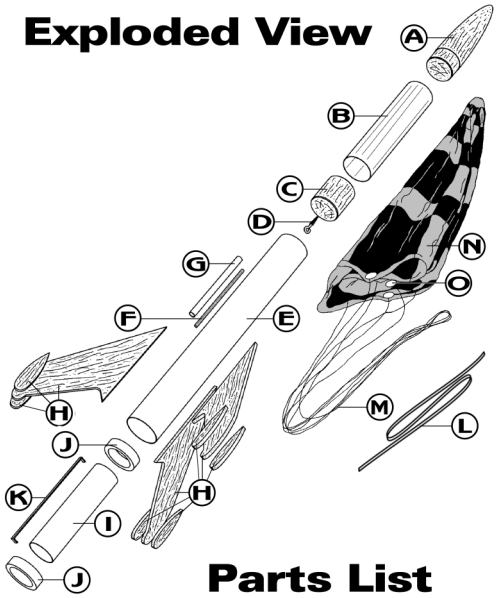
Exploded View



Parts List

Item	Estes Part #	Semroc Part #	Description
A	BNC-50X	BNC-50X	Balsa Nose Cone
B	PST-50S	PST-50S	Payload Section Tube
C	NB-50	NB-50	Balsa Nose Block
D	SE-2	SE-2	Screw Eye
E	BT-50H	BT-50H	Body Tube
F	WD-2B	WD-106	Wood Dowel
G	LL-2B	LL-2B	Launch Lug
H	BFS-30	FES-K35	Laser-cut Balsa Fins
I	BT-20J	BT-20J	Body Tube
J	AR-2050	AR-2050	Centering Rings
K	EH-2	EH-28	Engine Hook
L	SC-1	SC-1	Shock Cord
M	SLT-12	SLT-72	Shroud Line
N	PK-12A	RC-12RW	Parachute Canopy
O	TD-2J	TD-2J	Tape Strips
P	SP-35	IES-K35P	Pattern Sheet
Q	Not Incl.	DES-K35	Decal Sheet

JOIN THE NAR!

Sign up online at www.nar.org to join the premier model rocketry organization. Semroc fully supports the National Association of Rocketry and recognizes it as the sport's official voice. Check online at www.semroc.com/nar for promotions just for NAR members.

SEMROC

constellation™

XKIT™

CLEAR PAYLOAD SECTION

RUBBER SHOCK CORD

EASY TO BUILD

1968 ORIGINAL Repro

Designed by: Gene Street



LASER CUT FINS

FLYING MODEL ROCKET KIT

MADE IN THE USA

Instructions not included. Available online.

SEMROC

Made in the U.S.A by Semroc Astronautics Corporation - Knightdale, N.C. 27545

Constellation™
Kit No. XES-K35

Specifications		Engine	Approx. Altitude
Body Diameter	.976" (2.5 cm)	A8-3	300'
Length	16.5" (41.9 cm)	B6-4	650'
Wing Span	5.2" (13.2 cm)	C6-5	1250'
Net Weight	0.9 oz. (24.7 g)		

PARACHUTE RECOVERY

What is an xKit™?

A Semroc xKit™ is a kit designed for the expert modeler. It is a reproduction of the materials found in an early, historically significant model rocket kit. The parts are close enough that the original instructions can be used to construct the kit. Copies of original instructions of many early out-of-production kits are available online from several sources, the two best-known being Jimz and oldrocketplans.com. The xKit™ line is only available online and is intended for advanced builders that have experience with the instructions and designs from the early days of model rocketry.

About Estes Industries, Inc.

In July 1958, G. Harry Stine of Model Missiles, Inc. in Denver, Colorado approached Vern Estes about making model rocket engines for them. On January 15, 1959, Vern's automated model rocket engine fabricating machine, "Mabel", produced the first of many millions of Estes model rocket engines. In 1960, Estes was producing more engines than Model Missiles could sell. Vern and his wife Gleda opened a mail order rocket company and introduced the Astron Scout and Astron Mark.

In 1961, a catalog was mimeographed and hand stitched on Gleda's sewing machine. Later that year, Estes Industries had outgrown the confined space in Denver. In December 1961, the entire operation was moved to an old farm in Penrose, Colorado quickly establishing the small town as the "Model Rocket Capital of the World."

Estes Industries was sold to Damon in September 1969. The name Estes is synonymous with model rocketry. Almost everyone remembers growing up firing Estes rockets or knowing someone that did. Estes Industries has introduced millions of youngsters of all ages to model rocketry for almost half a century.

July 3, 2008

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Box 1271 Knightdale, NC 27545 (919) 266-1977

About the Constellation™

The Astron Constellation was designed by Gene Street, Chief Illustrator for Estes Industries. His drawings and kit illustrations became the standard for the industry. His model rocket design ability was also evident from many of his creations, notably the 1/70 Scale Saturn 1B. Combining a clear payload section with unique fin tips made the Astron Constellation an early hit. The Constellation was introduced as a free kit in 1968 and appeared in the 1969 Catalog as #K-35 with an introductory price of $2.00.

The Semroc Constellation™ xKit™ is a faithful rendition of the original kit. Laser-cut fins are provided using the original patterns as models. A rubber shock cord is used like the original model. All parts are selected to be as close to the original as possible.

Plans are not provided in this kit but they are available online at http://www.dars.org/jimz/k-35.htm thanks to the tireless efforts of Jim Zalewski and the generosity of Estes Industries in allowing him to help preserve the past.

Construction Notes

1. After downloading the instructions, they should be read and understood before beginning construction.

2. The online instructions do not cover decals, which were not on the earliest model. Use the front cover of these instructions for placement similar to later versions of the model that did have decals.

3. Use the shock cord mount on the included pattern sheet instead of the one on the instructions.

4. Tape strips are provided for the clear payload section, but cyanoacrylate (CA) glue may work better and provide a neater attachment method.

100% SATISFACTION GUARANTEE

If you are not 100% satisfied with your Semroc product, we will make it right by providing whatever you consider fair, from refund to replacement.

Contact us at:
Semroc Astronautics Corporation
Customer Service Department
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Knightdale, North Carolina 27545