

3RD

## THE FLYING WHY

Modified from the original plans of JOHN P. CHILDS  
Rockaway Beach, New York.

Straightforward model rocket construction applies to assembly of the recovery, payload and main body and fin portions of this bird. Special attention must be paid to tapering ends of the angle support tubes for a neat fit. Be sure to cut the ports or your recovery system will not function. Double glue all of the tapered body tube joints.

## PARTS LIST

1	Nose cone	BNC-30N
4	Nose cones	BNC-30D
4	Body tubes	BT-30
3	Sheet Balsa Stock	BFS-20
1	Engine holder	EH-2
1	Launching lug	LL-2B
1	Parachute, 12"	PK-12
1	Shock cord	SC-1
1	Screw eye	SE-1



Recovery assembly--parachute, shroud-lines, shock cord and anchor plus screw eye.

Nose cones (BNC-30D) top off the recovery and payload sections.

Wadding

Recovery section

Nose cone (BNC-30N) cement securely in place.

BT-30 4-1/2" (make 2)

BT-30 6" long (make 2)

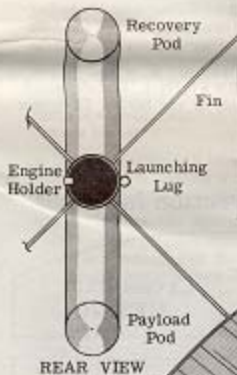
BT-30 6" long (make 2)

Shaded arrows show the path of ejection gases through ports and into the recovery section base.

Sand all edges except root edge round. Sand both sides of all fins to a smooth surface.

Nose cones (BNC-30D) used here as tail cones. Cement securely.

HALF-SIZE  
FIN  
PATTERN



REAR VIEW

Showing relative alignment of all components.

Engine Holder (EH-2) secures the engine throughout the flight yet allows easy engine changing. Secure in place with glue and gauze leaving the rear 1" free to move.



Wrap as shown and mark on curved edge.

Launching lug (LL-2B) well cemented to the body tube.

2-piece fins (of BFS-20) Four are required. Cement and fillet securely.

TUBE TAPER  
PATTERN  
(Full Size)

This edge on centerline

This end to tube end

Wrap and mark as shown

Grid point lines are provided for easily enlarging the pattern

1"