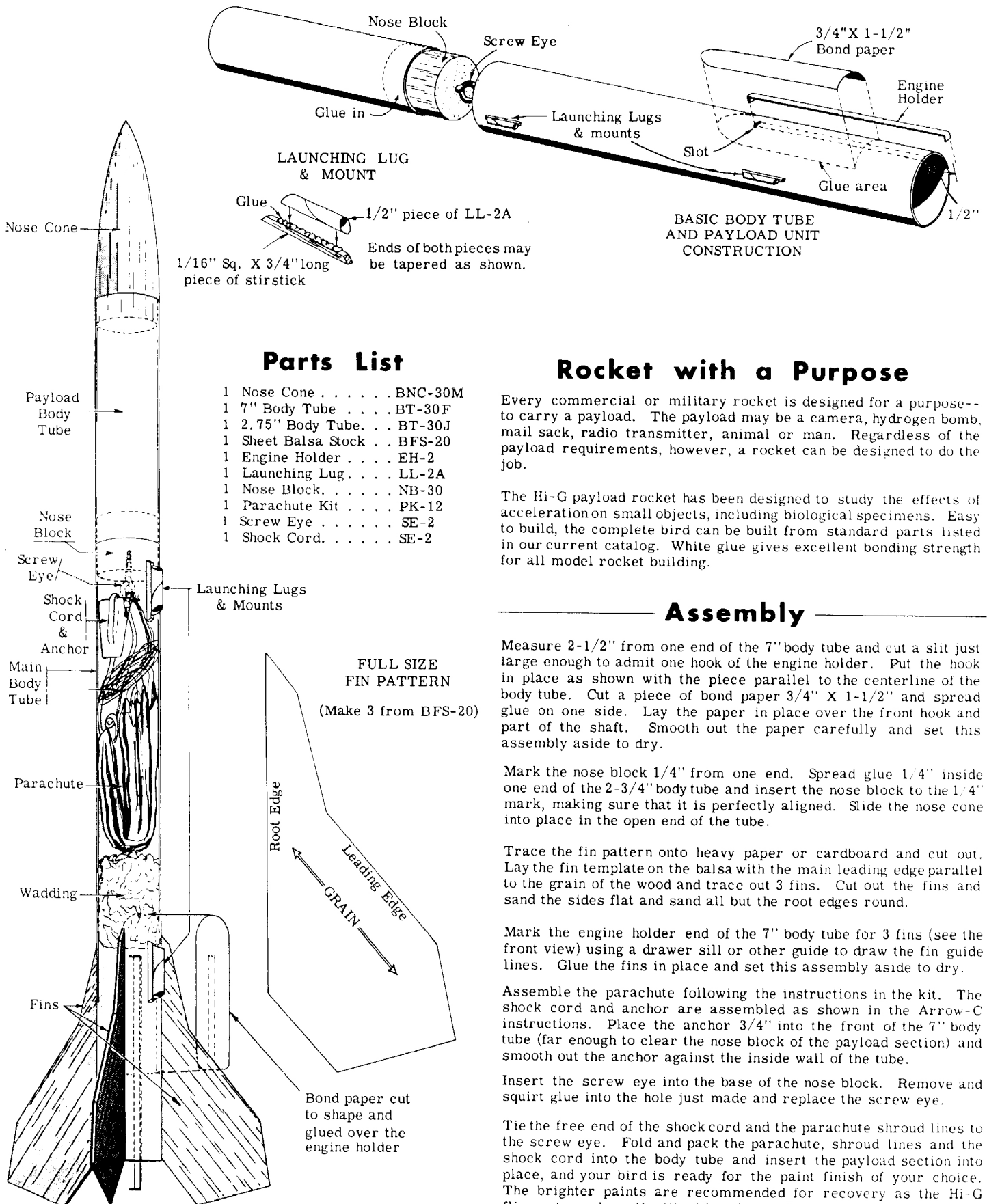


Hi-G Payloader

PARACHUTE - RECOVERED
HIGH PERFORMANCE BIRD
USE WITH EITHER SERIES I OR II ENGINES



Parts List

- 1 Nose Cone BNC-30M
- 1 7" Body Tube BT-30F
- 1 2.75" Body Tube BT-30J
- 1 Sheet Balsa Stock BFS-20
- 1 Engine Holder EH-2
- 1 Launching Lug LL-2A
- 1 Nose Block NB-30
- 1 Parachute Kit PK-12
- 1 Screw Eye SE-2
- 1 Shock Cord SE-2

Rocket with a Purpose

Every commercial or military rocket is designed for a purpose--to carry a payload. The payload may be a camera, hydrogen bomb, mail sack, radio transmitter, animal or man. Regardless of the payload requirements, however, a rocket can be designed to do the job.

The Hi-G payload rocket has been designed to study the effects of acceleration on small objects, including biological specimens. Easy to build, the complete bird can be built from standard parts listed in our current catalog. White glue gives excellent bonding strength for all model rocket building.

Assembly

Measure 2-1/2" from one end of the 7" body tube and cut a slit just large enough to admit one hook of the engine holder. Put the hook in place as shown with the piece parallel to the centerline of the body tube. Cut a piece of bond paper 3/4" X 1-1/2" and spread glue on one side. Lay the paper in place over the front hook and part of the shaft. Smooth out the paper carefully and set this assembly aside to dry.

Mark the nose block 1/4" from one end. Spread glue 1/4" inside one end of the 2-3/4" body tube and insert the nose block to the 1/4" mark, making sure that it is perfectly aligned. Slide the nose cone into place in the open end of the tube.

Trace the fin pattern onto heavy paper or cardboard and cut out. Lay the fin template on the balsa with the main leading edge parallel to the grain of the wood and trace out 3 fins. Cut out the fins and sand the sides flat and sand all but the root edges round.

Mark the engine holder end of the 7" body tube for 3 fins (see the front view) using a drawer sill or other guide to draw the fin guide lines. Glue the fins in place and set this assembly aside to dry.

Assemble the parachute following the instructions in the kit. The shock cord and anchor are assembled as shown in the Arrow-C instructions. Place the anchor 3/4" into the front of the 7" body tube (far enough to clear the nose block of the payload section) and smooth out the anchor against the inside wall of the tube.

Insert the screw eye into the base of the nose block. Remove and squirt glue into the hole just made and replace the screw eye.

Tie the free end of the shock cord and the parachute shroud lines to the screw eye. Fold and pack the parachute, shroud lines and the shock cord into the body tube and insert the payload section into place, and your bird is ready for the paint finish of your choice. The brighter paints are recommended for recovery as the Hi-G flies extremely well with either Series I or II engines.