





U.S. AIR FORCE

Estes Industries Rocket Plan No. 19

LOADLIFTER 1-A

Winning Design
Favorite Design Contest
by Merrell Lane

Assembly Instructions

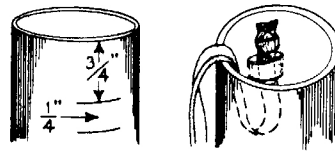
Spread glue around the inside of one end of the 6-1/2" long body tube as far in as you can reach with your little finger. Insert an engine block and push it forward into the body tube with an empty engine casing. Move the block forward until the end of the engine casing is even with the end of the body tube (and the engine block is 2-3/4" from the end of the body). Remove the engine casing immediately.

Cut out four fins and glue them to the body tube. Be sure to match the grain on the balsa with the grain direction indicated on the fin pattern. Align each fin by sighting along the body and adjusting it until the fin is parallel to the body and projects straight away from it. After the glue has dried run a fillet of glue along each of the fin-body joints.

Glue the launching lugs into place as shown in the drawing. Apply glue to the large end of the balsa adapter and insert it into one end of the payload section tube. The nose cone should fit tightly in the other end of the payload tube. If it is too loose wrap its shoulder with tape to increase the diameter.

Attach the shock cord and recovery system as shown in the illustration. Paint the model and apply decals.

Shock Cord Installation



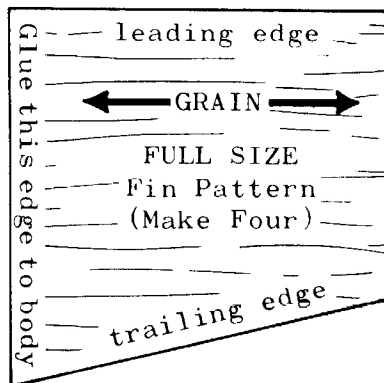
Cut two slits and push section inward. Thread cord through and knot. Restore body tube contour and seal with glue.

PARTS LIST

1 Nose Cone	#BNC-50J
1 Body Tube	#BT-50S
2 Launching Lugs	#LL-1A
1 Balsa Adapter	#TA-2050
1 Screw Eye	#SE-1
1 Shock Cord	#SC-1
1 Parachute	#PK-12
1 Body Tube	#BT-20D
1 Engine Block	#EB-20A
Balsa Fin Stock	#BFS-20

Recommended Engines

1/2A6-2	A5-2
A8-3	B6-4
B4-4	C6-5
	B14-5



Bottom View

