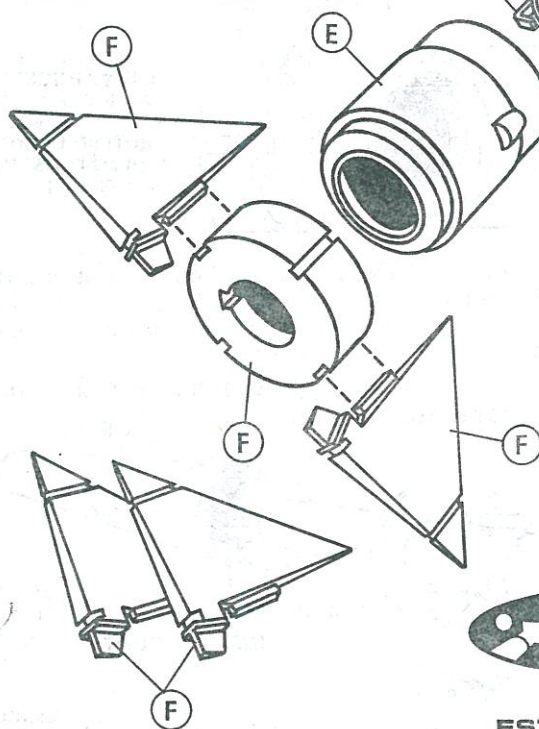


SP-87 ESTES INDUSTRIES 83239



A DAMON COMPANY  
**ESTES INDUSTRIES**  
 PENROSE, CO 81240 USA

Kit No. 1287  
**LTV Scout**

Skill Level 3 - This kit recommended for Craftsman Rocketeers.

**PARTS LIST**

		Part No.	
A)	1 Engine Mount Tube (type BT-20D) 6.5" long	30322	20
B)	1 Engine Hook (type EH-2)	35025	45
C)	1 Die-Cut Card Adapter Rings (type RA-2060)	30128	15
D)	1 First Stage Body Tube (type BT-60KC) 12.84" long	30415	95
E)	1 Molded Adapter Set (type PTA-1287)	71068	13
F)	1 Plastic Parts Set (type PRP-1287)	32473	1.2
G)	1 Molded Nose Cone Set (type PNC-1287)	71067	1.1
H)	1 Payload Body Tube (type SBT-139BJ) 2.00" long	30448	35
I)	1 Third Stage Body Tube (type SBT-123BE) 2.50" long	30446	30
J)	1 Second Stage Body Tube (type SBT-127GC) 7.26" long	30447	45
K)	1 Conduit Strip (type BF-87)	85934	55
L)	1 Shock Cord (type SC-1)	85730	30
M)	1 Parachute (type PK-18A)	85566	50
N)	1 Shroud Line Cord (type SLT-108)	38239	30
O)	1 Strip of 6 Tape Discs (type TD-3F)	38406	15
P)	1 Launch Lug (type LL-2A)	38175	1.5
Q)	1 Decal (type KD-87)	37093	1.5
R)	1 Pattern Sheet (type SP-87, on back of display panel)		
S)	1 Clay Weight	85264	40

In addition to the parts included in this kit you will need scissors, a pencil, a metal-edged ruler, white glue, tube-type plastic cement, liquid plastic cement, a sharp model knife (or a single edge razor blade), a razor saw, fine sandpaper, masking tape, sanding sealer, and paint.

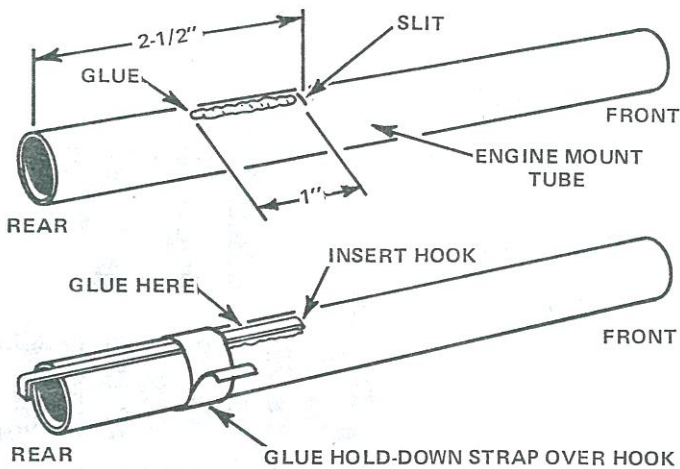
## IMPORTANT:

Read all instructions before beginning work on your model. Make sure you have all parts and materials. When you are thoroughly familiar with the assembly order, begin construction. Check off each step as you complete it. In each step, test-fit the parts together before applying any glue. If some part doesn't fit properly, sand lightly or build up as appropriate for precision assembly.

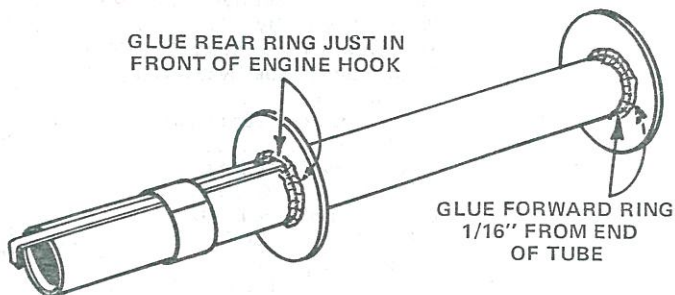
## PRE-ASSEMBLY NOTE

It is important to remove any plastic flash from all molded plastic parts. Scrape or lightly sand - do not cut - the flashing from the outside of the long blow-molded adapter and nose cone sections. Cutting will result in surface gouges which are extremely difficult to repair. Once you are satisfied that all surfaces are smooth, wash the parts in soapy water, rinse thoroughly, and allow to dry before assembly.

## LTV SCOUT ASSEMBLY INSTRUCTIONS

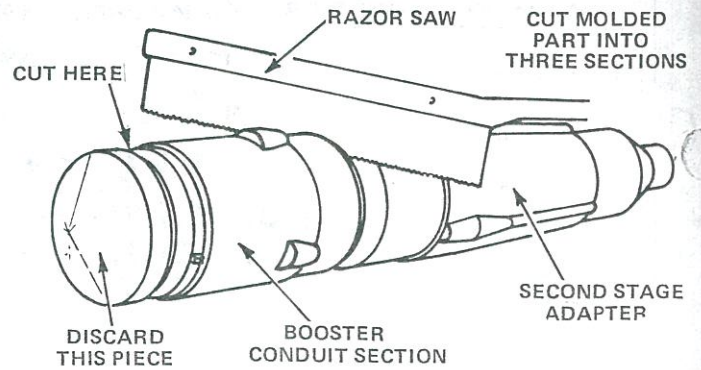


1 Mark the engine mount tube (part A) 2-1/2" from one end. Cut a 1/8" long slit in the tube at the mark as shown. Cut out the hold-down strap from the pattern sheet (part R). Apply a 1" long line of glue to the tube as shown. Push one end of the engine hook (part B) into the slit and press the main part of the hook into the glue. Apply glue to one side of the hold-down strap and wrap it tightly around the middle of the tube over the engine hook.

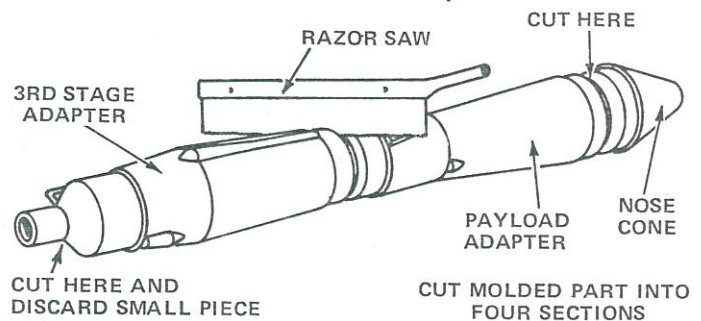


2 Separate the adapter rings (part C) from the die-cut card. Slide one ring onto the tube from the forward end. Place it just in front of the engine hook. Slide the other ring into place 1/16" from the forward end of the tube. Apply a line of glue at the ring/tube joint on both sides of each ring. Let the assembly dry completely.

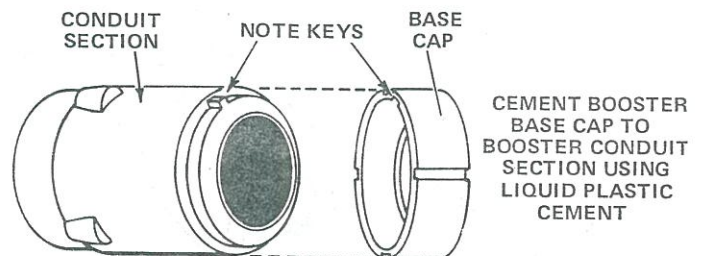
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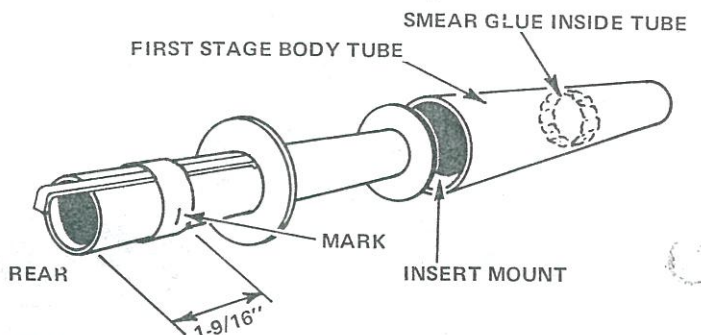
3 If you have a razor saw, use it to cut the molded adapter piece (part E) into three parts as shown. If you do not have a razor saw, use a model knife or single edge razor blade. Make very light cuts around the parting lines (bottom of grooves) and repeat until you have cut completely through the plastic. Work carefully to avoid tearing the plastic. One piece is the booster conduit section, one piece is the second stage adapter, and the short conical section is to be discarded.



4 Cut the molded nose cone piece (part G) into four sections in the same manner as the molded adapter piece. The four pieces are the nose cone, the payload adapter, the 3rd stage adapter, and the end piece which is discarded. Cut off any molding flash from the shock cord eyelet and from the base of the 3rd stage adapter.



5 Remove the booster base cap from the plastic parts set (part F). Using the molded keyways for positioning, glue together the booster conduit section and the base cap. Use liquid plastic cement. Set aside to dry.



6 Mark the engine mount tube 1-9/16" from the engine hook end. Smear glue around the inside of one end of the 1st