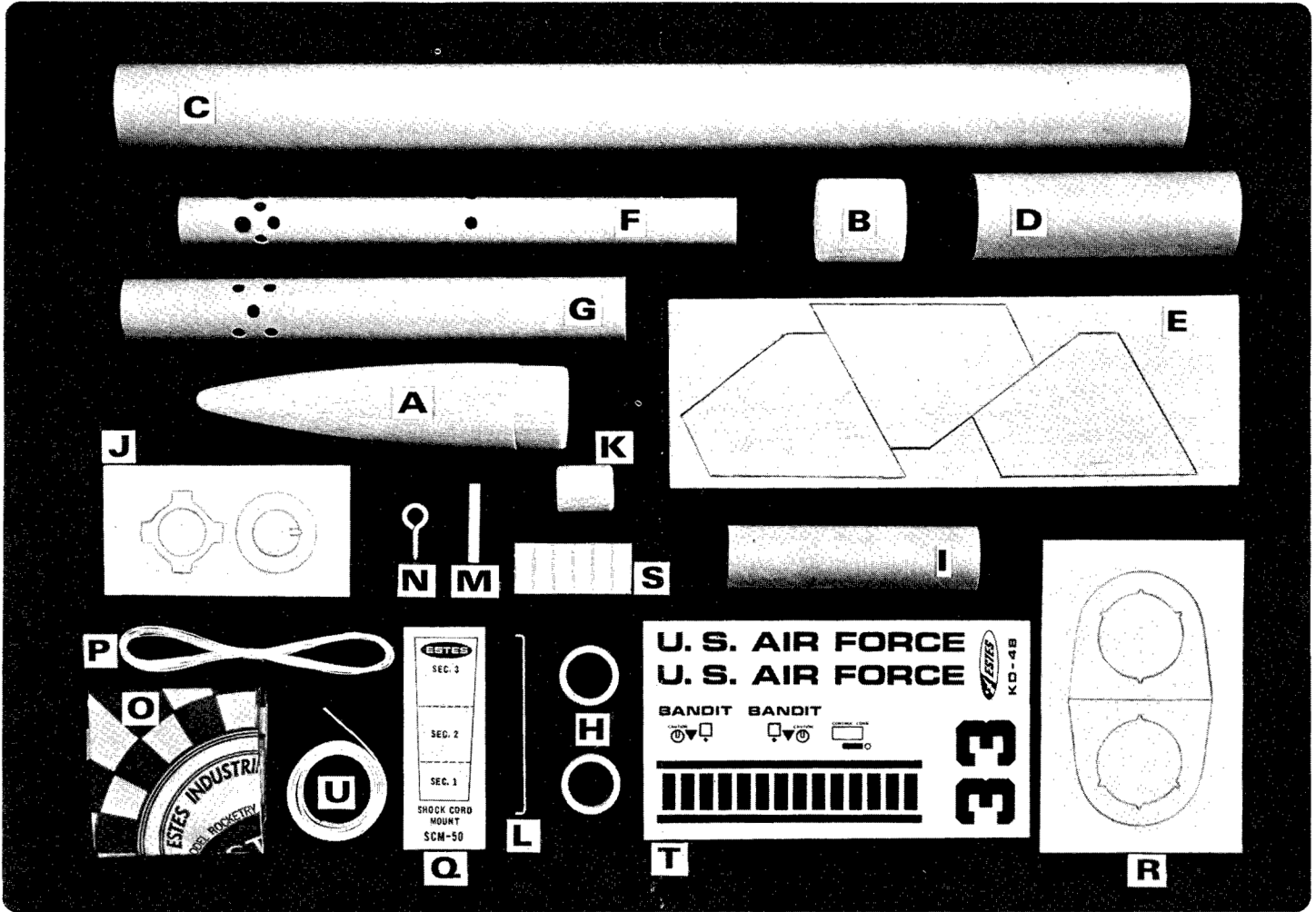




BANDIT

K-48

designed by MARK KELLNER



PARTS LIST

A	1	Nose Cone	# BNC-55AO	K	1	Nose Block	#NB-20
B	1	Nose Block	#NB-55	L	1	Engine Holder	# EH-2
C	1	Body Tube	#BT-55V	M	1	Launch Lug	# LL-2A
D	1	Payload Tube	#BT-55S	N	1	Screw Eye	# SE-1
E	1	Balsa Fin Stock	#BF-48	O	1	Parachute	#PK-12A
F	1	Punched Baffle Tube	#PBT-20B	P	1	Shroud Line	#SLT-72
G	1	Punched Baffle Tube	#PBT-50H	Q	1	Shock Cord Mount	#SCM-50
H	2	Centering Rings	#AR-2050	R	1	Marking Guide	#MG-553
I	1	Body Tube	#BT-51CI	S	6	Tape Strips	# TD-2F
J	1	Ring Set	# TA-48	T	1	Decal Sheet	# KD-48
				U	1	Shock Cord	# SC-3

In addition to the parts supplied, you will also need:

- | | | |
|-------------------|---------------------------------------|-----------------------|
| 1. Scissors | 4. Metal ruler | 7. Sanding sealer |
| 2. White glue | 5. Ball point pen or pencil | 8. Paint as specified |
| 3. Modeling knife | 6. Fine and extra fine grit sandpaper | |

FINISHING & PAINTING

Apply two or more coats of sanding sealer to balsa surfaces. Sand lightly with extra fine sandpaper between coats. Give the whole rocket a base coat of white paint. Sand again lightly and apply paint as shown.

APPLYING THE DECALS

Cut out each decal carefully around its edges. To transfer, dip decal into warm water for about 30 seconds or until it slides easily on the backing paper. Slide decal off the paper onto the desired surface and blot dry. Refer to rocket photograph at right for proper decal positioning. Allow the decals to dry for about 24 hours.

COUNTDOWN CHECKLIST

12 Pack desired payload, if any, into the payload section of BANDIT and insert nose cone.

11 Fold parachute in half. Pack the chute, shroud lines and shock cord neatly into the rocket. (NOTE: no recovery wadding is necessary since this rocket is equipped with an ejection ducting system.) Insert payload section and nose cone into body tube.

10 Insert an igniter into the engine as directed in the engine instruction sheet. Install engine in rocket.

9 Disarm the launch panel. Place rocket on launcher.

8 Clean the microclips and attach them to the igniter.

7 Clear the launch area; alert recovery crew and trackers.

6 Arm the launch panel.

5

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2

1

LAUNCH!!

RECOMMENDED ENGINES:

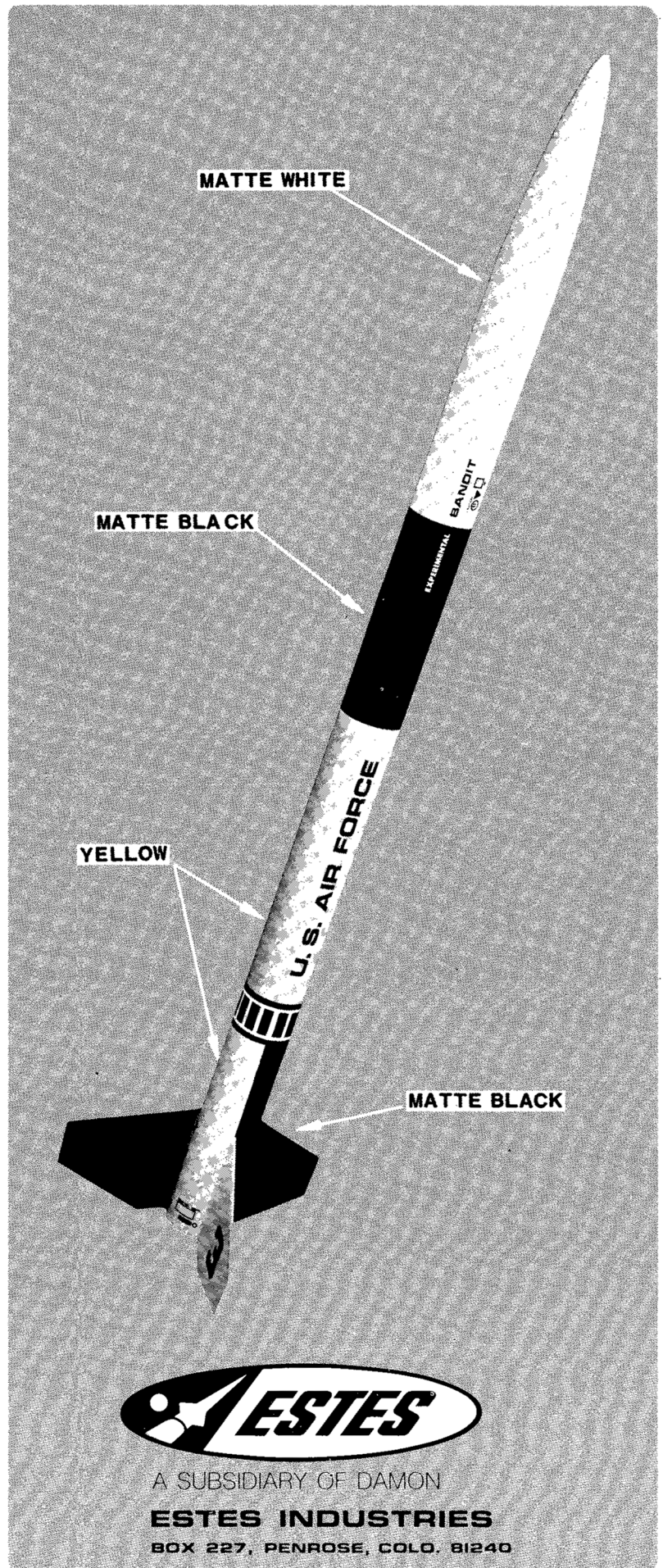
A-8-3

B4-4

B6-4

B14-5

C6-5



ASSEMBLY INSTRUCTIONS

1 Slit engine tube (part #PBT-20B) and install engine holder (part #EH-2). Glue centering rings (part #AR-2050) in place as shown and secure nose block.

2 Glue BT-50 body tube (part #PBT-50H) over AR-2050 centering rings so that it is flush with the front ring and the holes are to the rear. Glue BT-51CI body tube over the end of PBT-50H body tube so that it is flush with the front ring. Glue on the two TA-48 rings as shown and allow to dry thoroughly.

3 Assemble payload section as shown in figure #3.

4 Slip tube marking guides (part #MG-553) onto body tube (part #BT-55V), align and mark as illustrated.

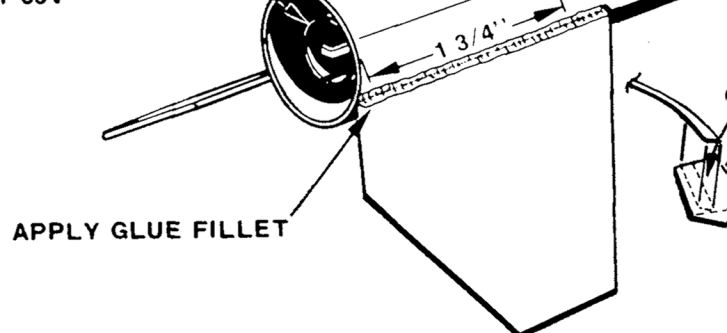
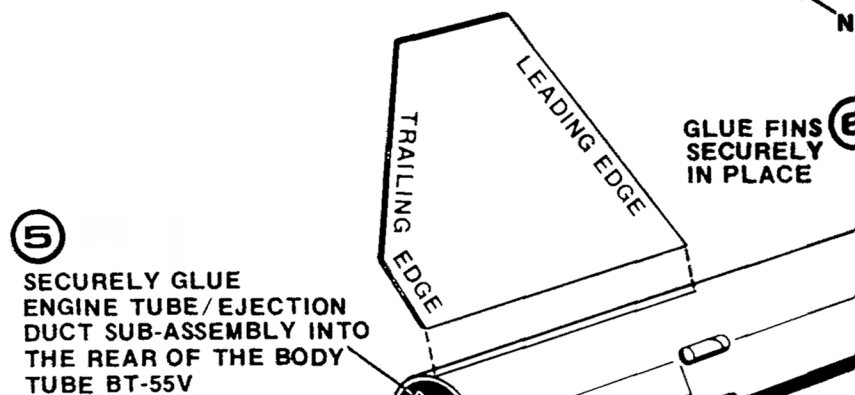
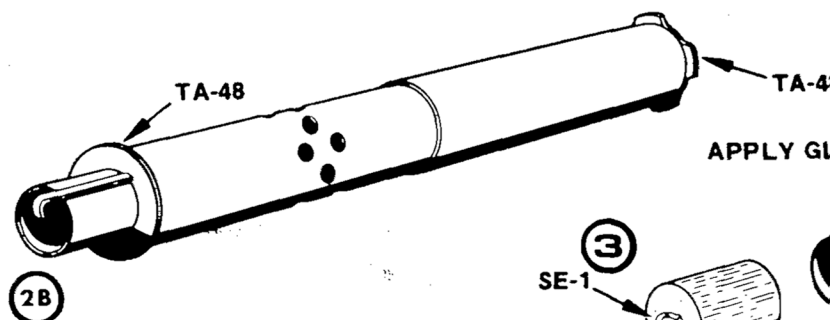
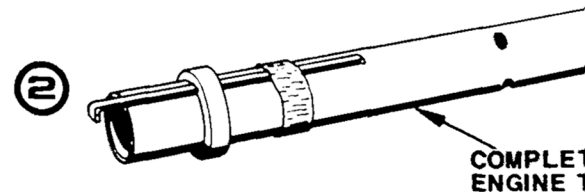
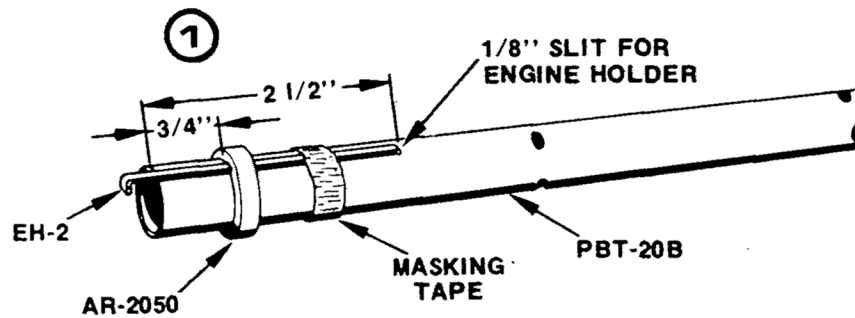
5 Insert engine tube/ejection duct sub-assembly into the rear of the BT-55V body tube and glue securely so that the engine holder is even with end of tube.

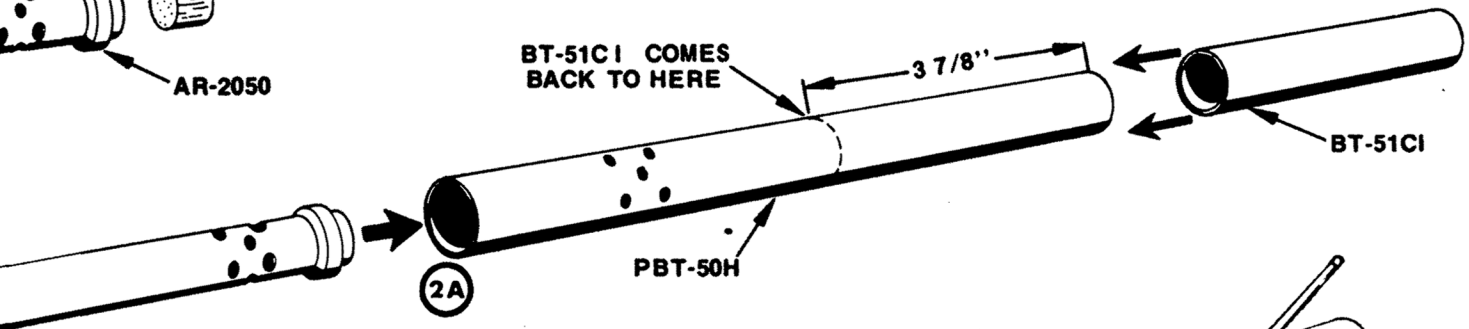
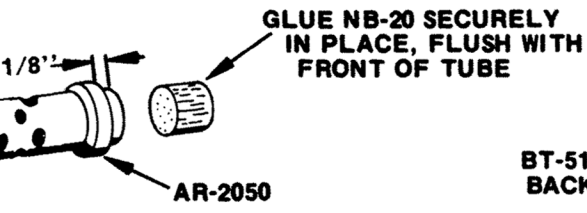
6 Fine-sand all fins before removing them from balsa sheet (part #BF-48). Sand leading and trailing edges round. Sand other edges square. Glue fins to body tube NEXT TO ALIGNMENT LINES as shown. Cut the launch lug (part #LL-2A) in half and glue NEXT TO LAUNCH LUG ALIGNMENT LINE as shown, aligning them carefully with each other.

7 Assemble shock cord mount (part #SCM-50) as shown in Fig. #7 and glue to the inside of body tube.

8 Cut out the parachute (part #PK-12A) along its edge lines. Cut the shroud line (part #SLT-72) into three equal lengths. (Approximately 24" each.) Attach lines to 'chute top with tape strips (part #TD-2F) as in Fig. #8.

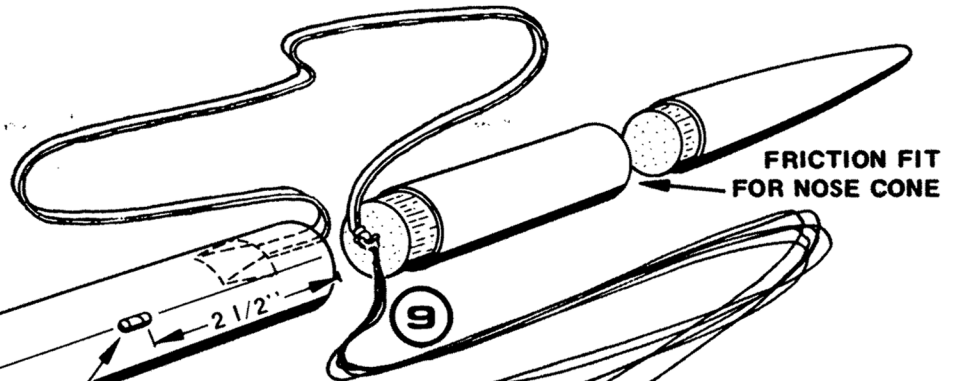
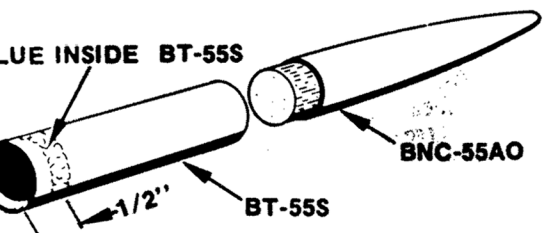
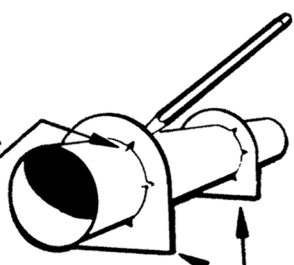
9 Pass the shroud line loop ends through the payload screw eye and over the forward end of the payload section. Draw the lines tight against the screw eye and set the knot with a drop of glue. Tie the free end of the shock cord to the screw eye. When launching special payloads you may wish to recover the payload separately by parachute. (Second parachute not included.)





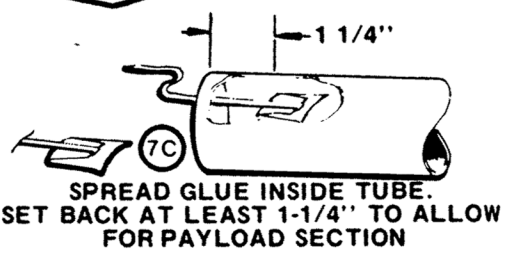
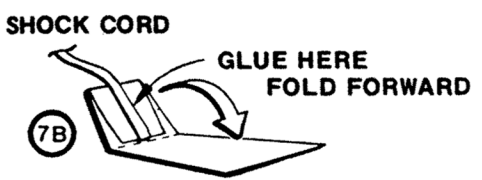
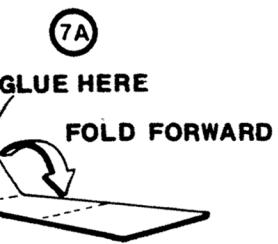
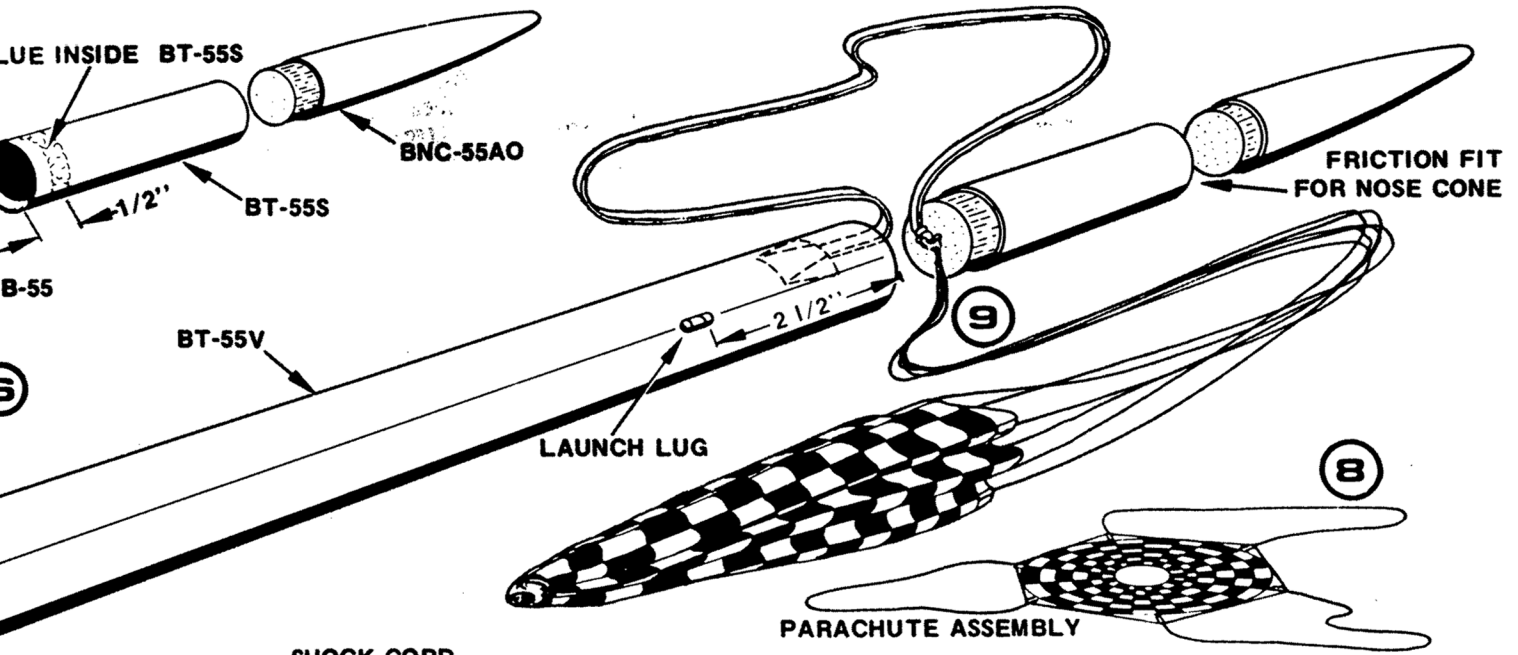
TED
TUBE

4 ROTATE PENCIL IN EACH NOTCH TO MARK TUBE



B-55

3



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BANDIT

K-48

ASSEMBLY INSTRUCTIONS

1 Slit engine tube (part #PBT-20B) and install engine holder (part #EH-2). Glue centering rings (part #AR-2050) in place as shown and secure nose block.

2 Glue BT-50 body tube (part #PBT-50H) over AR-2050 centering rings so that it is flush with the front ring and the holes are to the rear. Glue BT-51CI body tube over the end of PBT-50H body tube so that it is flush with the front ring. Glue on the two TA-48 rings as shown and allow to dry thoroughly.

3 Assemble payload section as shown in figure #3.

4 Slip tube marking guides (part #MG-553) onto body tube (part #BT-55V), align and mark as illustrated.

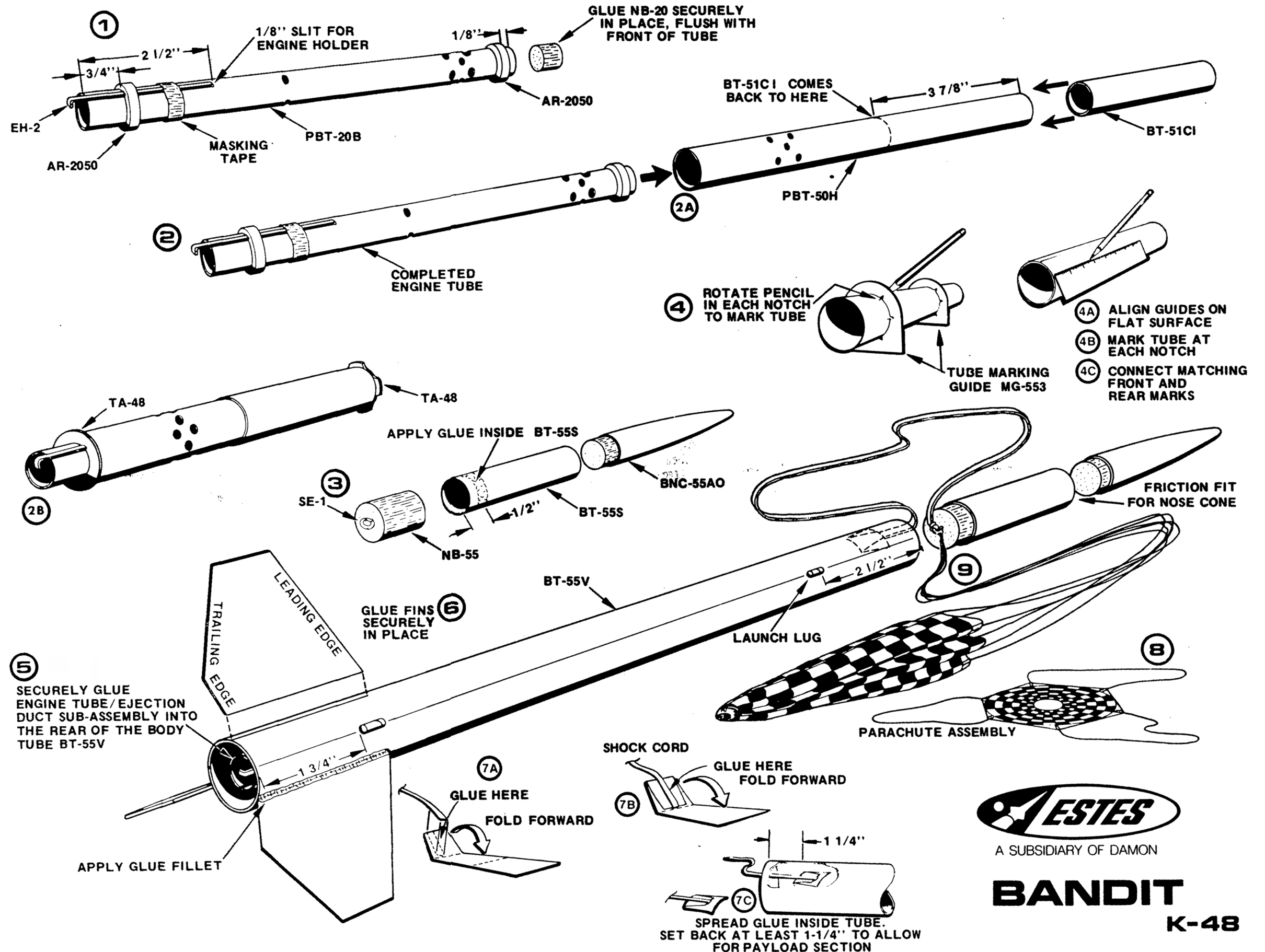
5 Insert engine tube/ejection duct sub-assembly into the rear of the BT-55V body tube and glue securely so that the engine holder is even with end of tube.

6 Fine-sand all fins before removing them from balsa sheet (part #BF-48). Sand leading and trailing edges round. Sand other edges square. Glue fins to body tube NEXT TO ALIGNMENT LINES as shown. Cut the launch lug (part #LL-2A) in half and glue NEXT TO LAUNCH LUG ALIGNMENT LINE as shown, aligning them carefully with each other.

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9 Pass the shroud line loop ends through the payload screw eye and over the forward end of the payload section. Draw the lines tight against the screw eye and set the knot with a drop of glue. Tie the free end of the shock cord to the screw eye. When launching special payloads you may wish to recover the payload separately by parachute. (Second parachute not included.)



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BANDIT

K-48

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DPI

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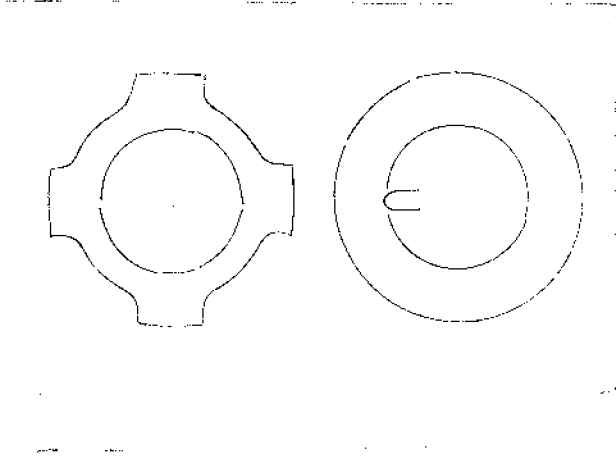
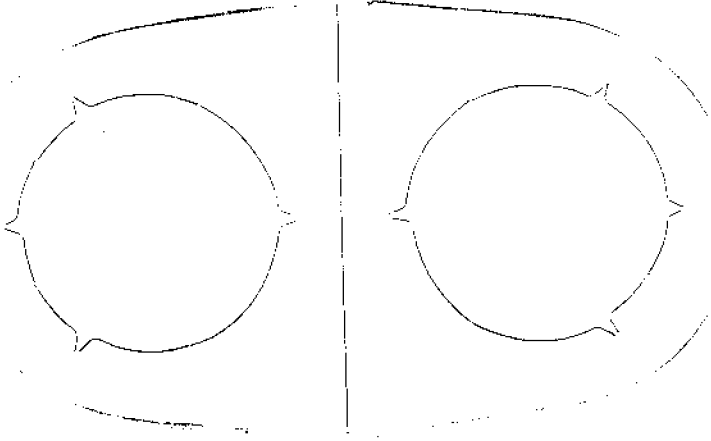
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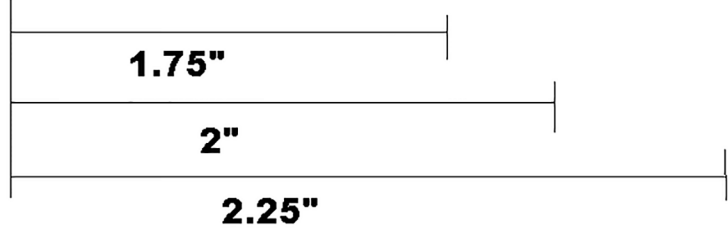
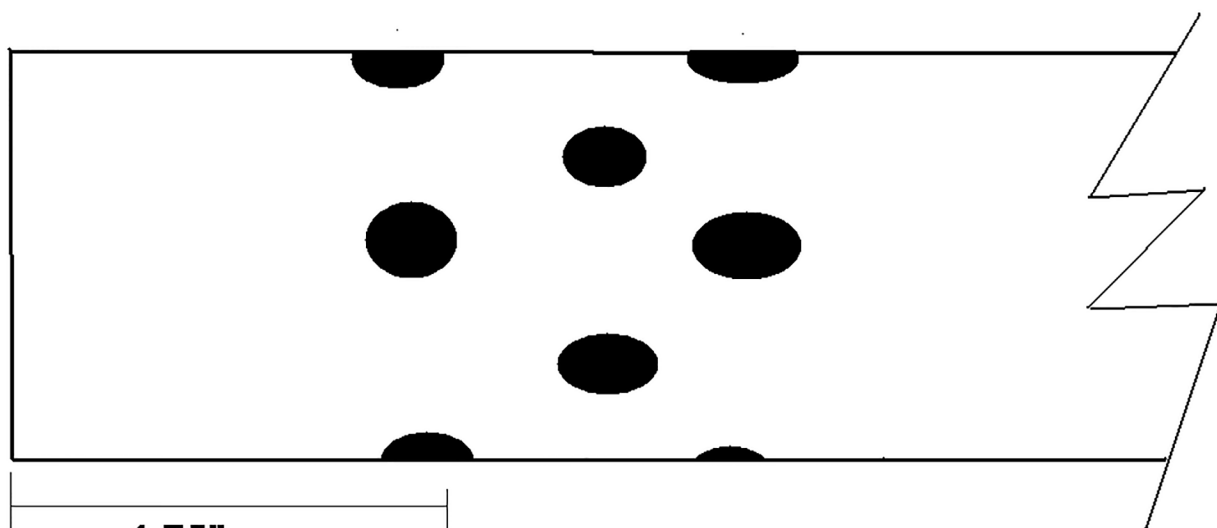
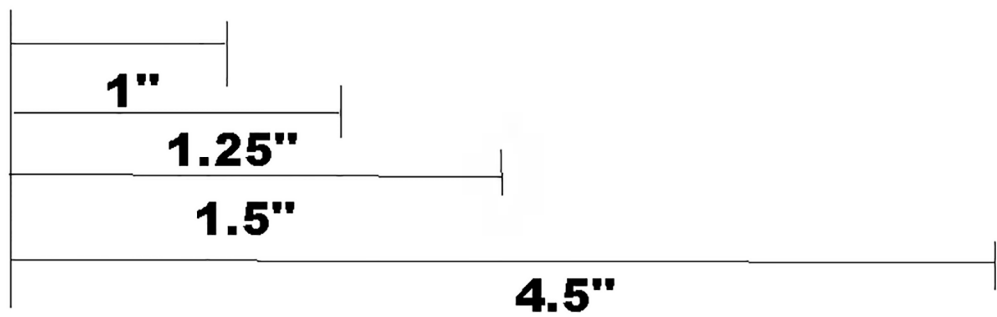
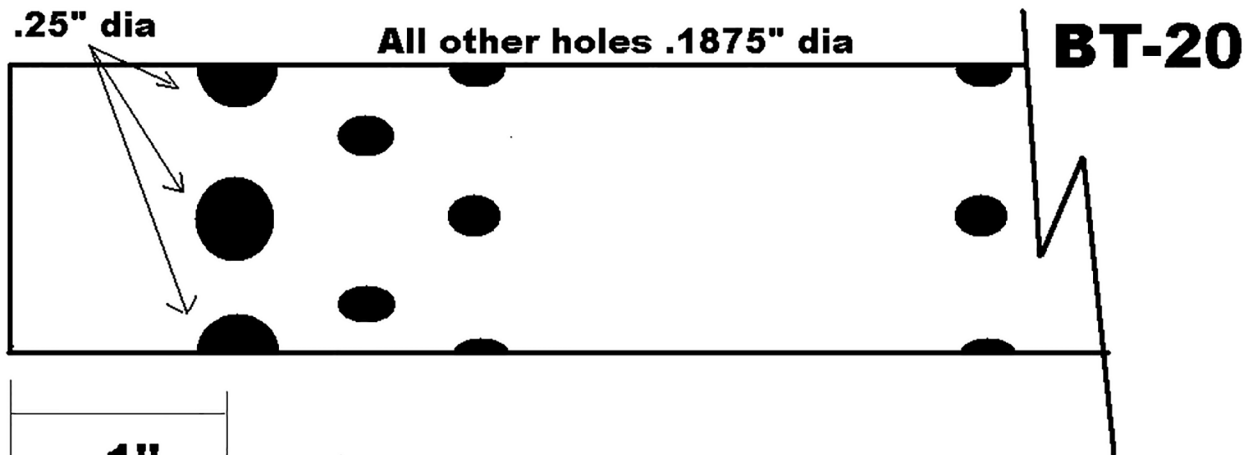
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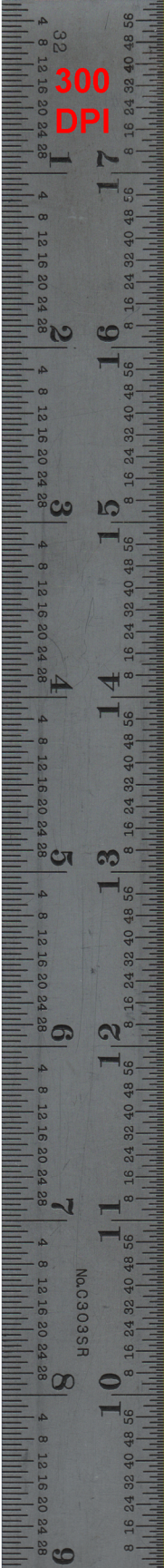
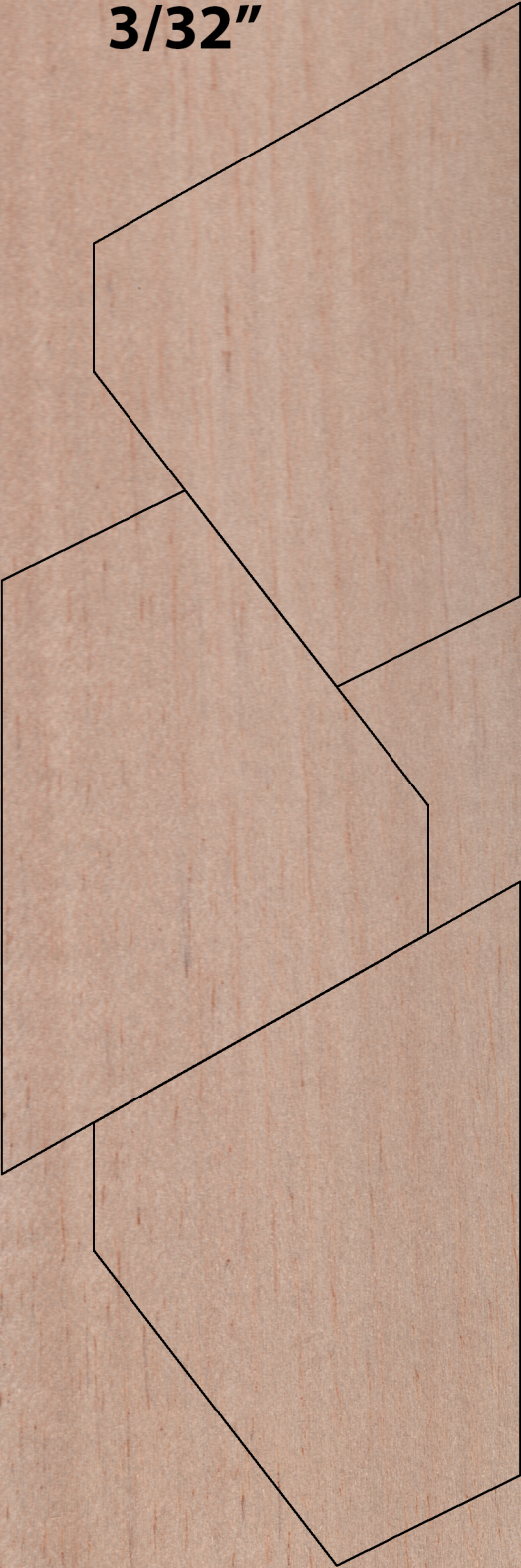
BANDIT "PERFORATED TUBE" DETAILS



BT-50

In each case, there are 4 holes per "ring" around the tube. All holes are 0.1875" diameter except for the endmost set on the BT-20 which are 0.25" diameter.

3/32"





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SEC. 3

PN 84444

SEC. 2

SEC. 1

**SHOCK CORD
MOUNT
SCM-50**



32
600
DPI

U.S. AIR FORCE U.S. AIR FORCE

BANDIT BANDIT

EXPERIMENTAL



ESTES PN 37046

CAUTION



CAUTION



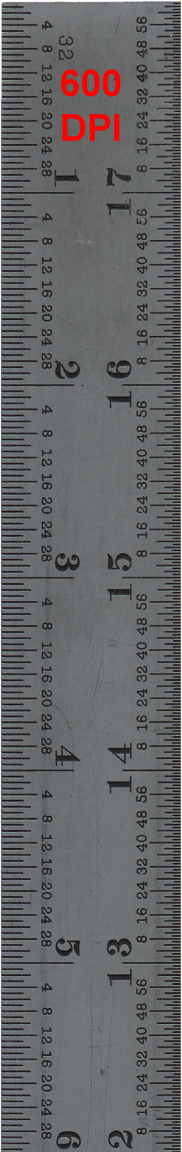
CAUTION



EXPERIMENTAL

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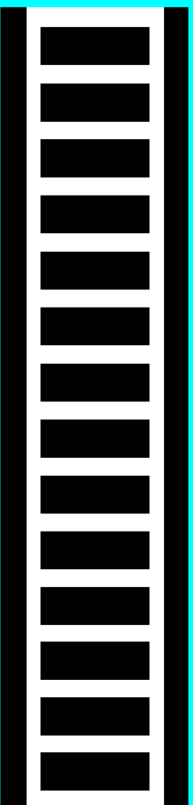
U. S. AIR FORCE U. S. AIR FORCE



37046
KD-48

BANDIT BANDIT

EXPERIMENTAL



EXPERIMENTAL

33

PARTS LIST KIT NO. K-48/1248 - Bandit

Quantity	Description	Type	Number	Detail1	Detail2	Detail3	Detail4	Comment
1	BALSA NOSE CONE	BNC-55AO	70276	5.0" long	1.325" dia.	.75" shoulder		
1	BALSA NOSE BLOCK	NB-55	70162	1.25" long	1.283" dia.			BT-55
1	PAPER BODY TUBE	BT-55V	30392	16.35" long	1.283" ID	1.325" OD	0.021" wall	Glassine
1	PAPER BODY TUBE	BT-55S	30390	4" long	1.283" ID	1.325" OD	0.021" wall	Glassine
1	BALSA FIN STOCK	*BF-48	32222	3" wide	9" long	3/32" thick	Die-cut	Scan
1	Punched Baffle Tube	*PBT-20B		8.625" long	0.710" ID	0.736" OD	0.013" wall	Glassine
1	Punched Baffle Tube	*PBT-50H		7.75" long	0.950" ID	0.976" OD	0.013" wall	Glassine
2	CENTERING RINGS	AR-2050	30164	0.25" long	0.737" ID	0.949" OD	BT-20 in BT-50	Set of 2
1	PAPER BODY TUBE	BT-51CI	30374	3.875" long	0.984" ID	1.011" OD	0.013" wall	Glassine
1	Ring Set	TA-48	30030	0.738" ID	1.27" OD	.05" thick	notch & baffle	Scan
1	BALSA NOSE BLOCK	NB-20	70152	.75" long	0.710" dia.			BT-20
1	ENGINE HOLDER	EH-2	35025	2.8" long	.100" wide	.025" thick		Reg. & D
1	LAUNCH LUG	LL-2A	38175	5/32" ID	1/8" rod	1.25" long		Mylar
1	Screw Eye (Large)	SE-1	38251	1" long				
1	Parachute	PK-12A	82054	12" dia.	1.25 mil thick	LDPE plastic	Blk/Yel	
1	Shroud Line	SLT-72	38237	72"	.020" diameter	Twisted cotton	10" to 12"	
1	Shock Cord Mount	SCM-50	84445	1.5" wide	3.5" long	Heavy paper	BT-50 & larger	Scan
1	Body Tube Marking Guide (MG-553)	MG-553	37603	3" wide	5" long	.05" thick	3 fins BT-55	Scan
6	Tape Strip	TD-2F	2297	1/4" wide	3/4" long	Paper	Self-Stick	6x
1	Decal Sheet	KD-48	37046	3.5" wide	6.5" long	Blk/Wht	Waterslide	Scan
1	Shock Cord	SC-3	85744	1/8" wide	36" long			Rubber

*BALSA FIN STOCK,BFS-30, 32108, 3" wide, 9" long, 3/32" thick

* See Details page

ESTES

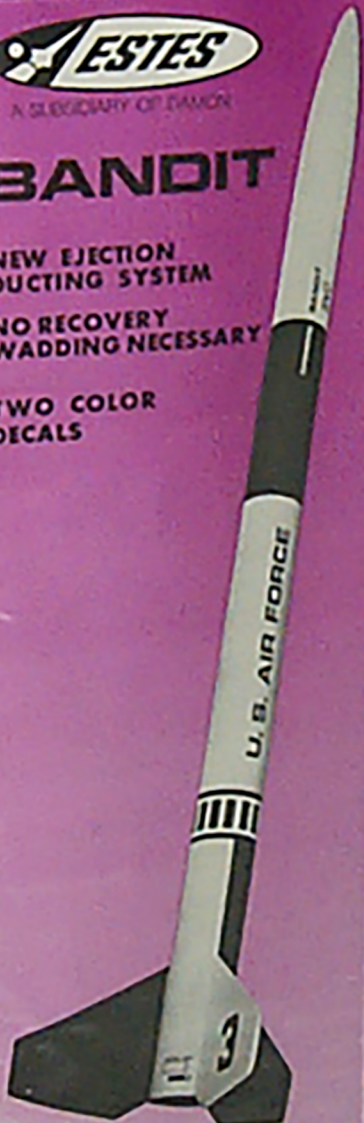
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BANDITNEW EJECTION
DUCTING SYSTEMNO RECOVERY
WADDING NECESSARYTWO COLOR
DECALS**\$4.25****BANDIT
KIT NO. K-40**

SPECIFICATIONS	RECOMMENDED ENGINES		
Length	A87	B44	D64
Body Dia	0.75 in.		
Weight	2.8 oz.		

PARACHUTE RECOVERY

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SYSTEM
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Model Rockets



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- EJECTION SYSTEM
- FEW COLOR TONER
- EASY MAINTENANCE
- EJECTION SYSTEM

Model 1000, 1000A

1. Heavy-duty construction... 2. Efficient... 3. Accurate... 4. Fast

Efficient operation

1. High speed... 2. Low cost... 3. Low maintenance

Recommended models

1000, 1000A, 1000B, 1000C, 1000D, 1000E

1000F, 1000G, 1000H, 1000I, 1000J, 1000K

1000L

1000M

1000N, 1000O, 1000P

1000Q, 1000R, 1000S