STAR WARS

R2-D2



FLYING MODEL ROCKET

EST 2142

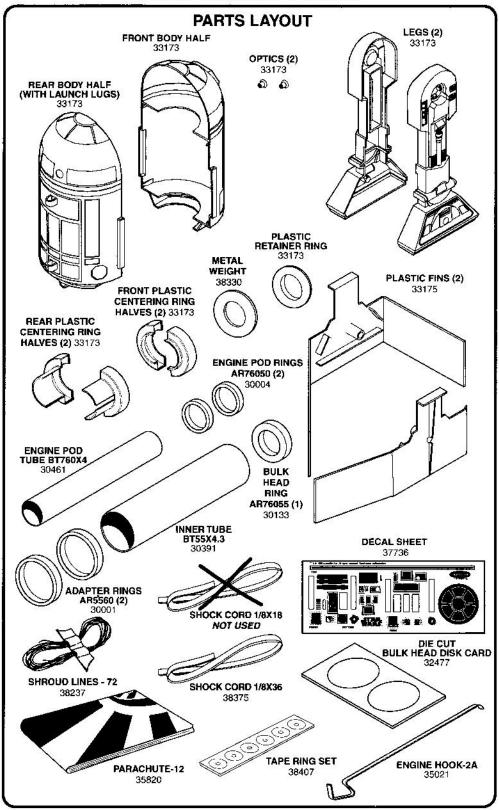


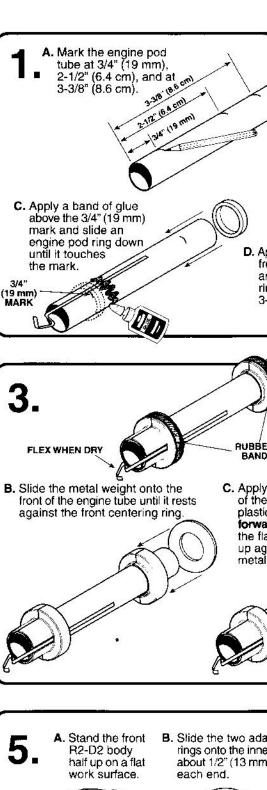
R2-D2

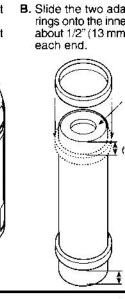
FLYING MODEL ROCKET KIT INSTRUCTIONS

MATERIALS REQUIRED: WHITE OR YELLOW GLUE, TUBE-TYPE PLASTIC CEMENT, SCISSORS, RUBBER BANDS, PENCIL, HOBBY KNIFE, #320 GRIT SANDPAPER, MASKING TAPE, BLUE, BLACK, AND SILVER MODEL PAINT PENS, BRIGHT SILVER SPRAY PAINT.

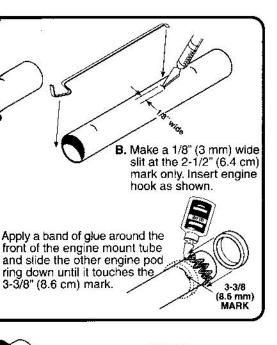
ALL GLUED AREAS ARE SHADED IN GRAY TEST FIT ALL PARTS BEFORE GLUING

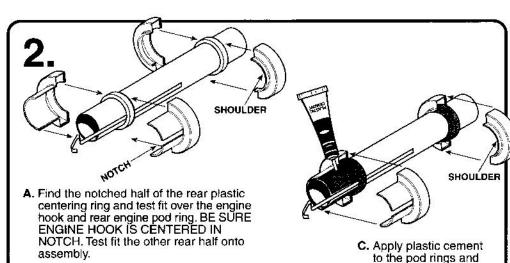




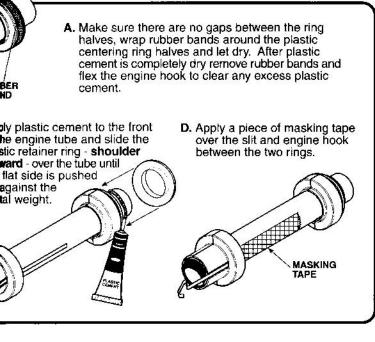


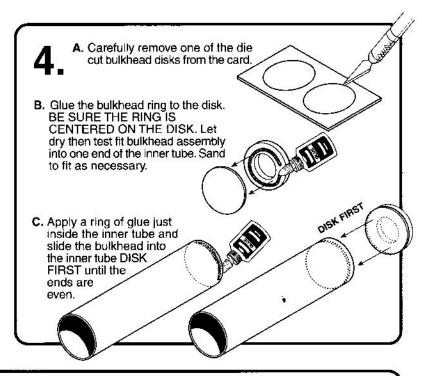
INTERNAL

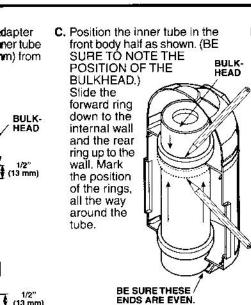




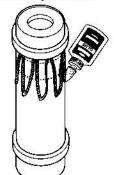
- B. Test fit the front plastic centering ring halves. BE SURE THE SHOULDER POINTS TOWARD THE ENGINE HOOK.
- to the pod rings and tube whereshown, then re apply plastic centering ring halves.



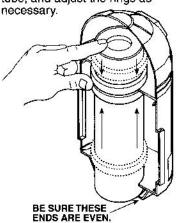




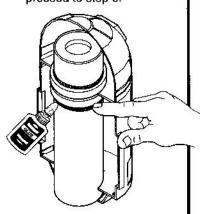
their original positions, and place a wide band of glue around the area between the rings, then slide the rings back to the marks you made.



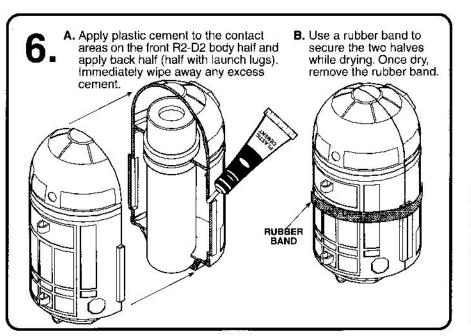
D. Remove the inner tube, slide the rings back to E. Reposition the inner tube in the front body half (BE SURE TO NOTE THE POSITION OF THE BULKHEAD) Hold the top of the tube, and adjust the rings as

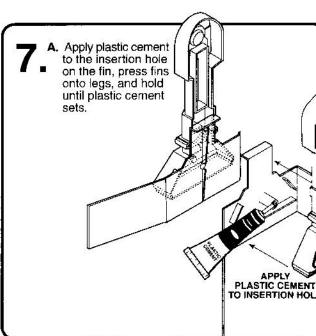


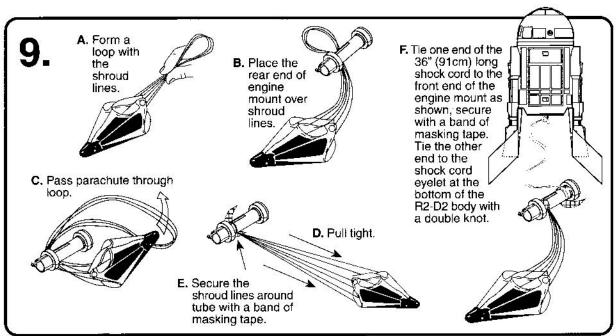
F. Place a glue fillet (reinforcement) at the outer ring/tube joints, smooth with finger, and immediately proceed to step 6.

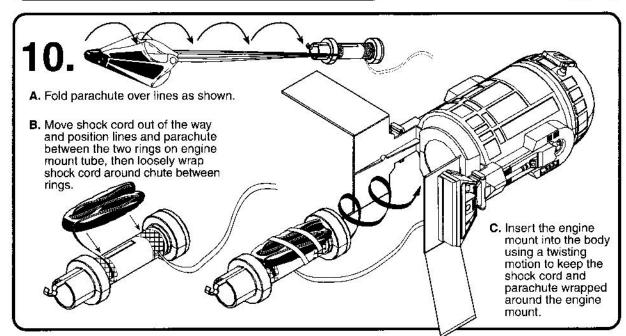


(13 mm)

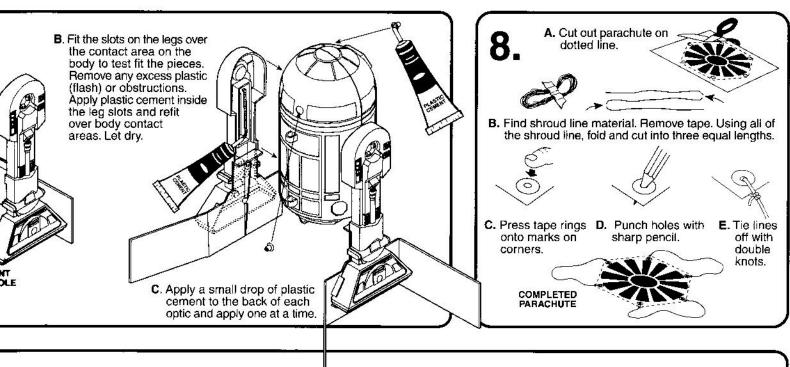


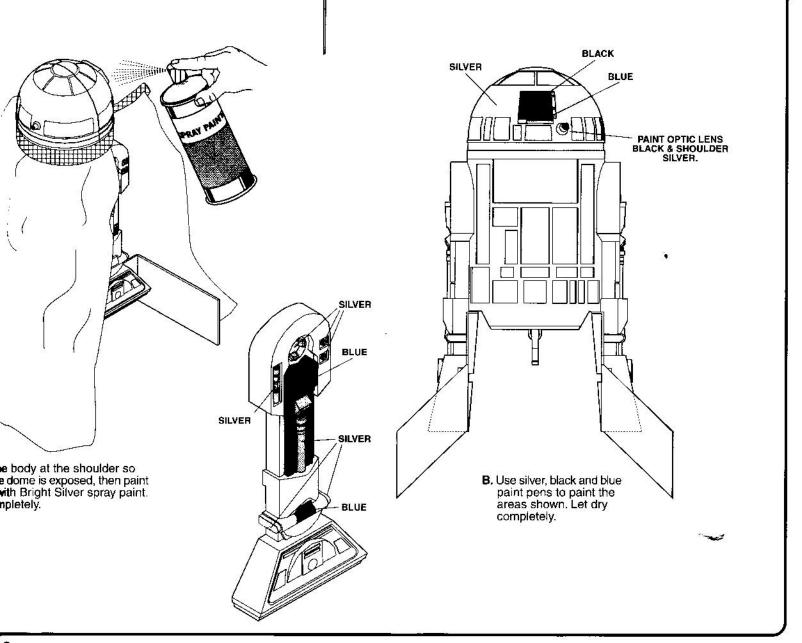






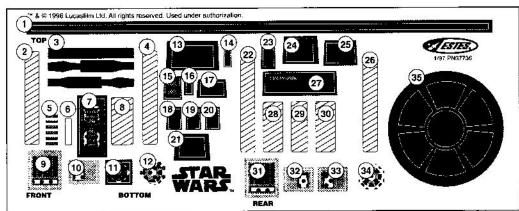


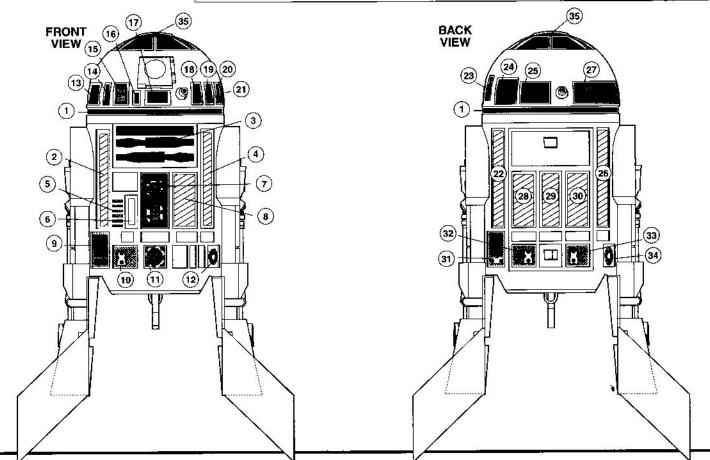


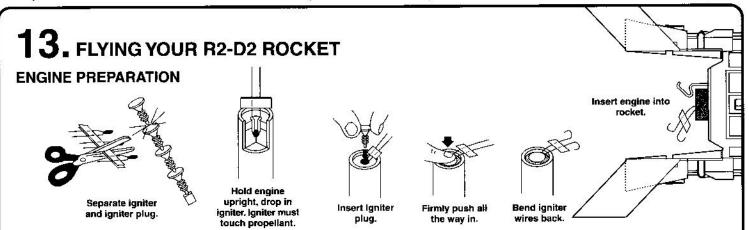


12.

- A. Remove decals from backing sheet one at a time and position according to the diagram.
- B. When position is correct, rub decal down with your finger to remove bubbles and to secure decal to rocket.







Your R2-D2 rocket features rear ejection of the recovery system and power pod. Recovery wadding is not required for this rocket. See step 10 for parachute packing instructions. Be sure to pack parachute immediately before launching to help insure it will open easily.

NOTE: If engine pod is too loose, apply a small amount of masking tape to the rear plastic centering ring for a friction fit. Do not tape pod in place or recovery system will fail.

LAUNCH SUPPLIES

To launch your rocket, you will need the following:

- · Launch Pad (Estes Porta-Pad® II)
- Launch Controller (Estes Electron Beam®)
- Recommended Estes Engines: B4-2, B6-2, C5-3, C6-3. For your first flight, use a 86-2 engine.
- Igniters and Igniter Plugs (included with Estes engines) Use only Estes products to launch this rocket.

ENGINE	PROJECTED ALTITUDE	
	Feet	Meters
B4-2	127	39
B6-2	133	41
C6-3	262	80
C5-3	277	84

TIPS FOR FLYING YOUR ROCKET

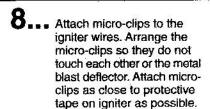
- Choose a large field away from power lines, buildings, tall trees, and low flying aircraft. Try to find a field at least 250 feet (76 meters) square. The larger the launch area, the better your chance of recovering your rocket.
- Launch area must be free of dry weeds and brown grass.
- · Launch only during calm weather with little or no wind and good visibility.
- . Don't leave parachute packed more than a minute or so before launch during cold weather (colder than 40° Fahrenheit [4° Celsius]). Parachute may be dusted with talcum or baby powder to avoid sticking.
- Always follow the National Association of Rocketry (NAR) MODEL ROCKETRY SAFETY CODE while participating in any model rocketry activities. The safety code is enclosed with this kit.

COUNTDOWN AND LAUNCH

10... Safety key must not be in launch controller.

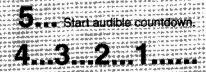
> The safety cap with safety key attached should already be on the launch rod.

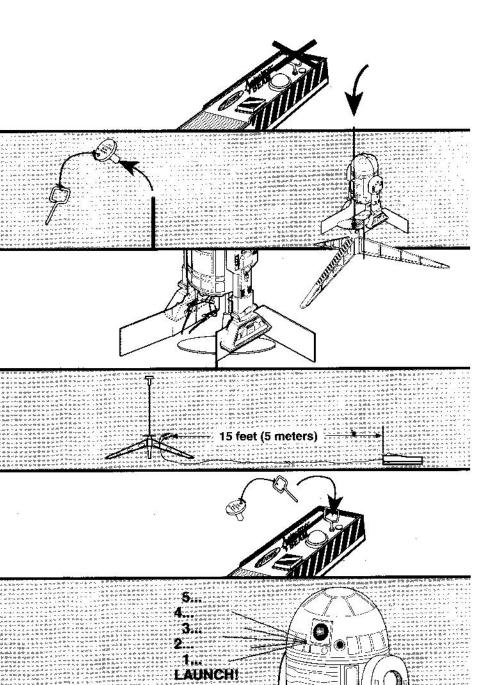




Move everyone back from your rocket as far as launch wire will permit (at least 15 feet - 5 meters).

6... Insert safety key to arm the launch controller.





LAUNCH!

Push and hold button until engine ignites.

For safety, immediately remove safety key from launch controller and replace safety cap on launch rod.

MISFIRES

When an ignition failure occurs, remove the safety key from the launch control system and wait one minute before approaching the rocket. Remove the expended igniter from the engine and install a new one. Be certain the coated tip is in direct contact with the engine propellant. Broken or chipped coating will not affect the performance of the igniter. Reinstall the igniter plug as illustrated previously. Repeat the countdown and launch procedure.