























YELLOW GLUE

FINE SANDPAPER

HOBBY KNIFE

RULER

SOFT LEAD PENCIL

TAPE

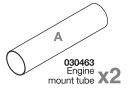
PLASTIC CEMENT

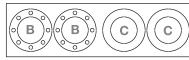
**EPOXY** 

WHITE PRIMER

PAINT (Listed on Pg. 4)

**CLEAR COAT** (OPTIONAL)









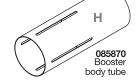
030164-2 Green engine block X2

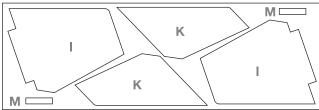


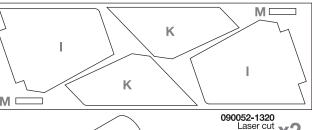
072417 Engine retainer set X2





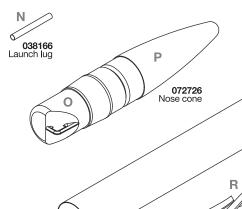


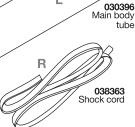


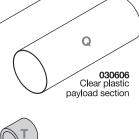




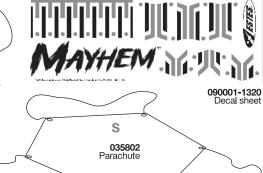
balsa X2



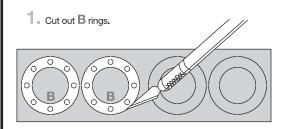


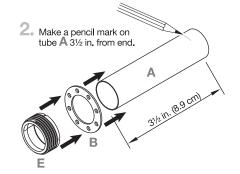


spacer X2



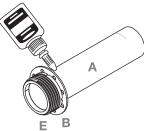


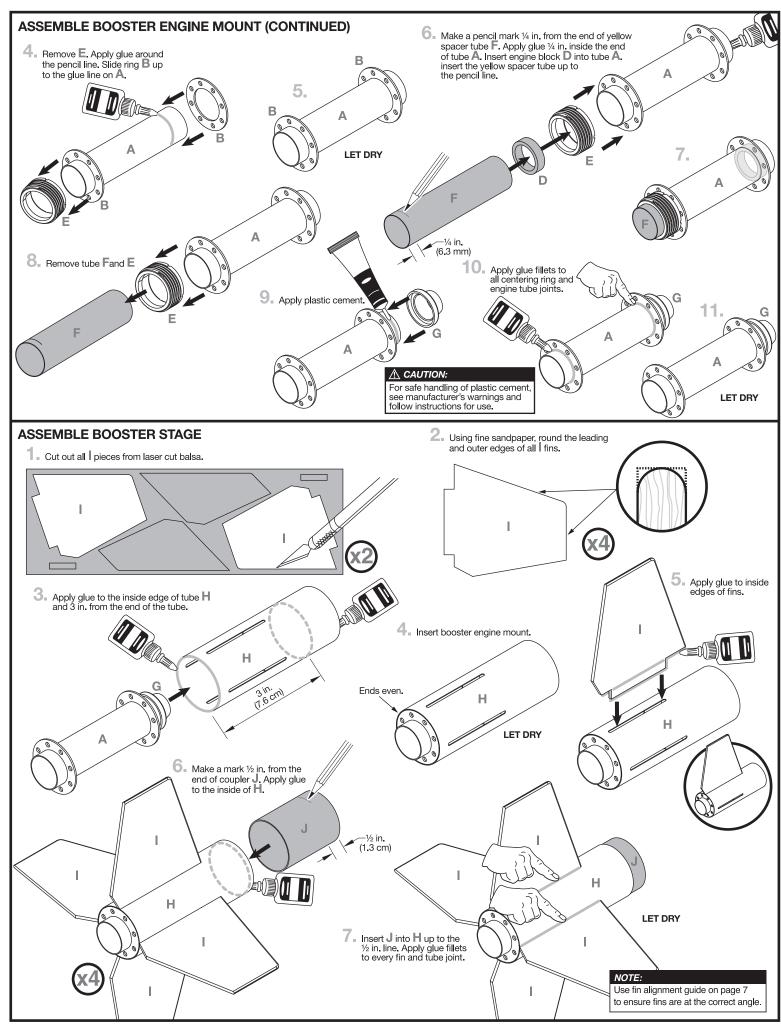


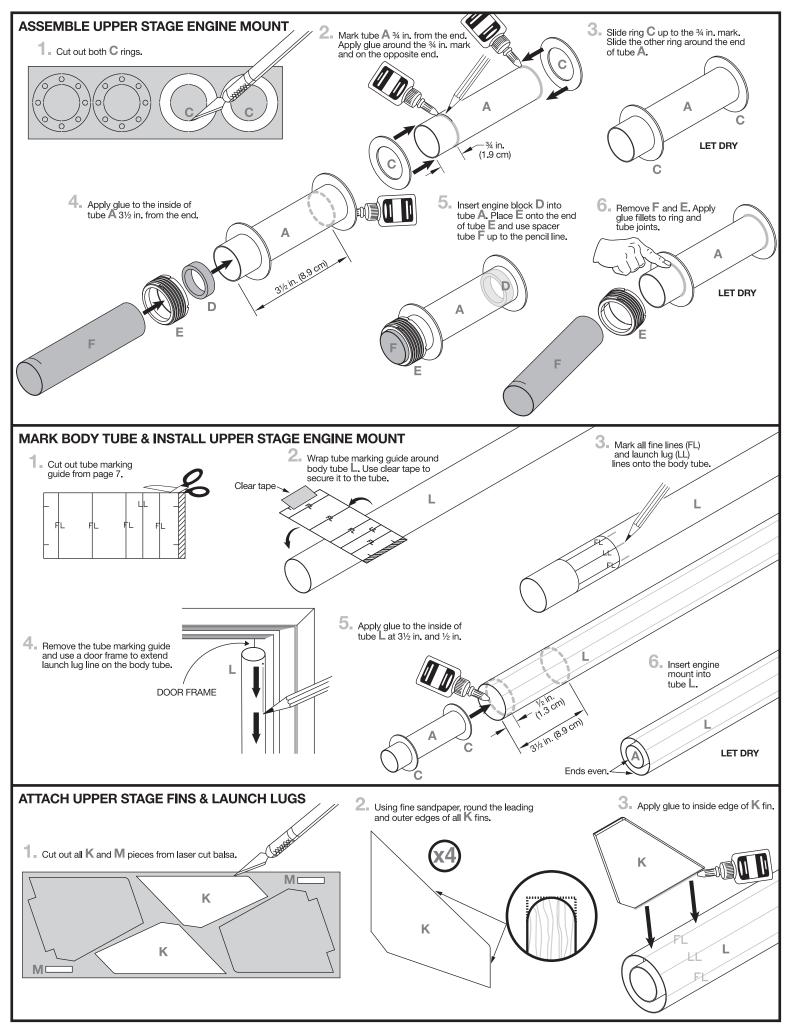


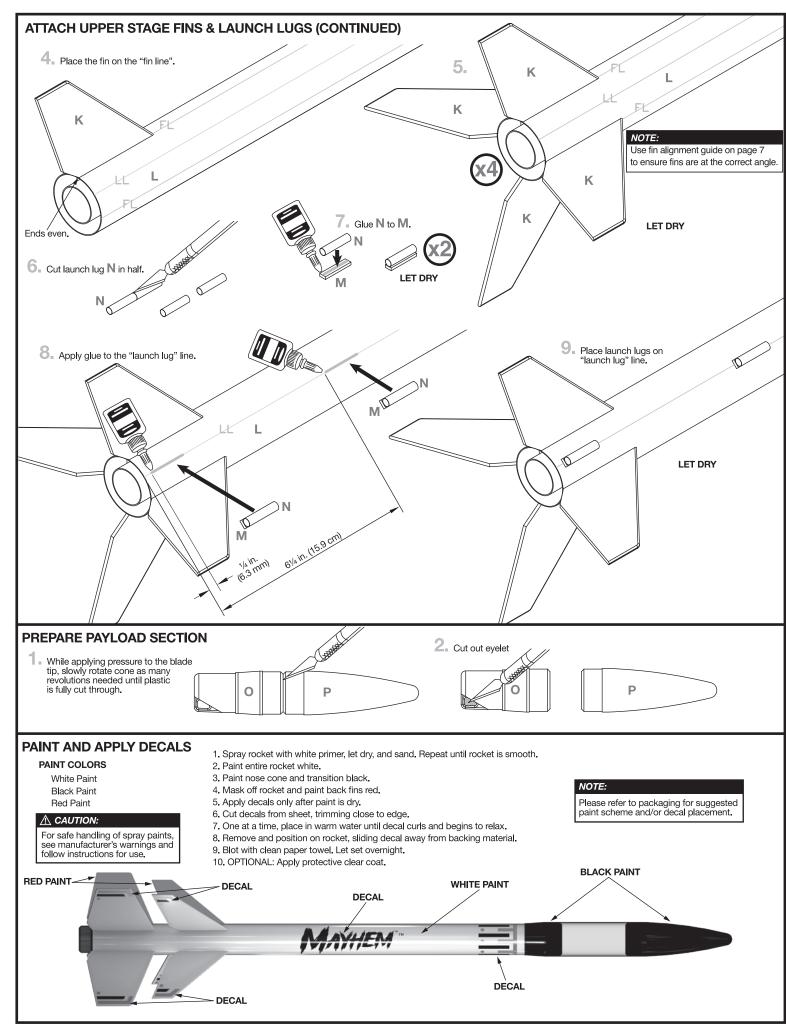
035005 Orange E to D

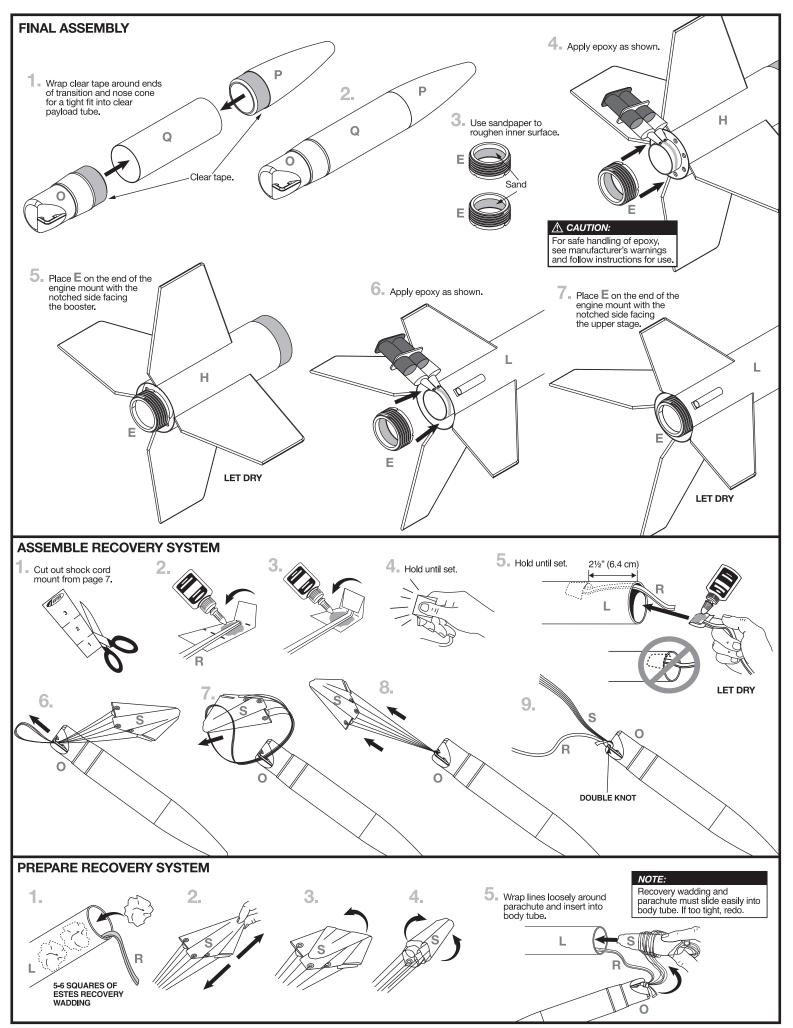
3. Place B and E on opposite end of tube A. Use E to set distance for ring B. Apply glue to inside of ring B.

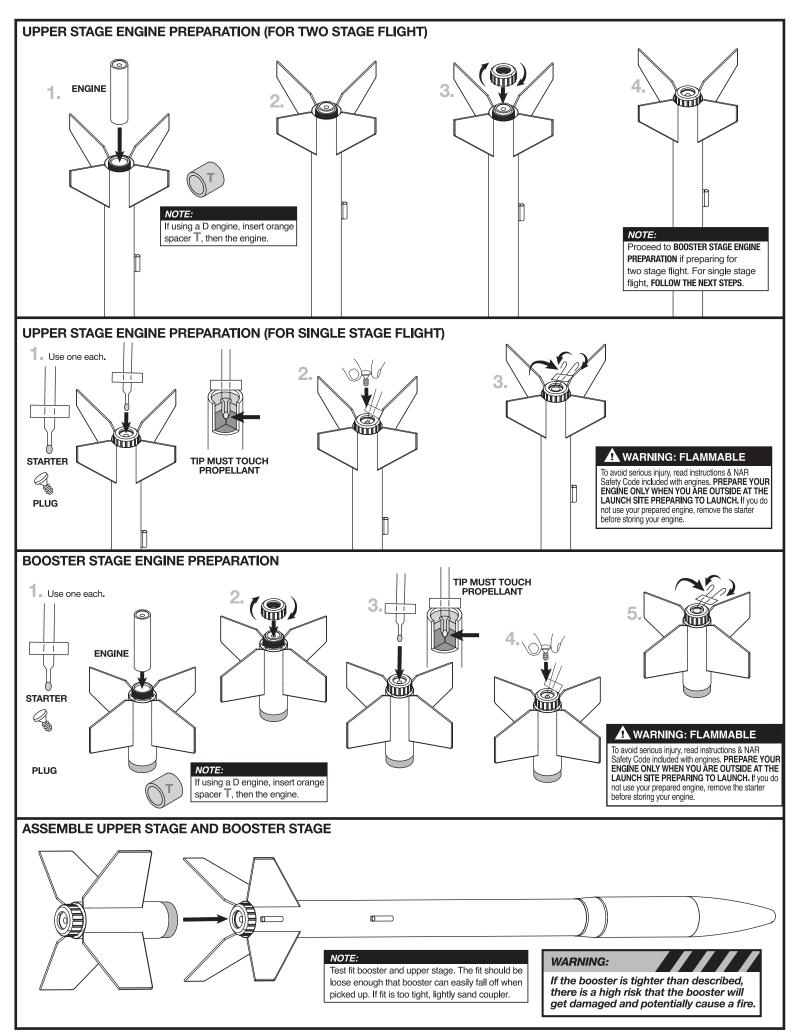


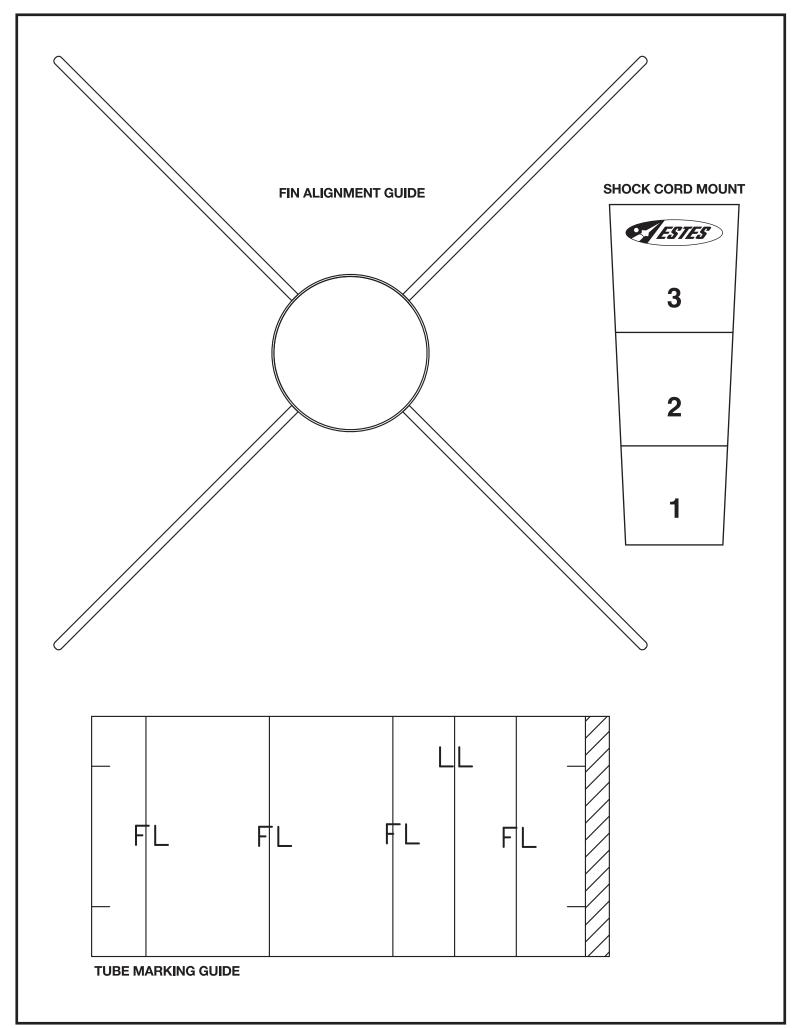












## **COUNTDOWN AND LAUNCH** NOTE: Always keep the key *OUT* until final countdown. Fully extend your launch controller wire before launching. **KEY MASKING TAPE** Insert key, push down hard. Bulb will light. 4... 3**... 2... 1** Estimated weight: 6.5 oz. (184.3 g) **ESTES® LAUNCH SUPPLIES NEEDED** (Sold Separately) Porta-Pad® II Launch Pad • Electron Beam® Launch Controller Recovery Wadding While holding key down FIRMLY, • Starters (with engines) press launch button until LIFTOFF! · Plugs (with engines) • Estes® Engines: Single Stage: D12-5, E12-6 2 Stage: Booster Stage: D12-0, E12-0 Upper stage: D12-5, D12-7, E12-6, E12-8

## **PRECAUTIONS**



NAR SAFETY CODE















NO DRY GRASS OR WEEDS

**PRE-LAUNCH CHECK** For safety, never launch a damaged rocket. Check the rocket's body, nose cone and fins. Also, check the engine mount, recovery system and launch lug(s). Repair any damage before launching the rocket.

FLYING YOUR ROCKET Choose a large field (1000 ft. [305 m] square) free of dry weeds and brown grass. The larger the launch area, the better your chance of recovering your rocket. Launch only with little or no wind and good visibility. Always follow the National Association of Rocketry (NAR) SAFETY CODE (enclosed).

MISFIRES TAKE THE KEY OUT OF THE CONTROLLER. WAIT ONE MINUTE BEFORE GOING NEAR THE ROCKET. Disconnect the micro-clips and remove the engine. Take the plug and starter out of the engine. A burned starter means the starter tip was not touching engine propellant. Install a new starter; be sure the tip is touching propellant inside the engine. Push the plug in place. Repeat steps under Countdown and Launch.

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