**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 (500 ft. [152 m] square) free of dry weeds and brown grass. The larger the launch area, the better your chance of recovering your rocket. Football fields and open park areas are great. Launch only with little or no wind and good visibility. Always follow the National Association of Rocketry (NAR) SAFETY CODE.

**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.

**Countdown and Launch**

1. Insert key, push down hard. Bulb will light.
2. While holding key down FIRMLY, press launch button until LIFTOFF!
3. Fully extend your launch controller wire before launching.
4. Clear to exit must be used when launching rocket.
5. Insert key, push down hard. Bulb will light.
6. While holding key down FIRMLY, press launch button until LIFTOFF!
7. Fully extend your launch controller wire before launching.
8. Clear to exit must be used when launching rocket.

**Display Setup**

1. Remove display nozzle.
2. Push display rod into display adapter. Push display nozzles onto rod.
3. Push display base onto rod as shown.
4. Slide assembled display stand into the engine mount and rotate nozzles to lock in place.

**Important** Make sure you have all the parts and supplies. Test fit all the parts for assembly. Read all instructions carefully.

**Precautions**

- 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.
- Choose a large field (500 ft. [152 m] square) free of dry weeds and brown grass. The larger the launch area, the better your chance of recovering your rocket. Football fields and open park areas are great. Launch only with little or no wind and good visibility. Always follow the National Association of Rocketry (NAR) SAFETY CODE.
- 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 Countdow and Launch.

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FLIGHT PREPARATION
1. Remove rocket from display nozzles and adapter.

PREPARE ENGINE
1. Slide engine into engine mount. Rotate fin unit to lock in place.
2. Slide fin unit onto engine and into rear of model rocket.

PREPARE RECOVERY SYSTEM
1. Slide engine into engine mount.
2. Slide /f_in unit onto engine and into rear of model rocket.
3. Rotate /f_in unit to lock in place.

PREPARE FLIGHT RECOVERY
1. 6-7 SQUARES
2. NOTE: Only Estes® recovery wadding recommended.
3. Fold parachute from the top only once and wrap in from sides. Parachute must be rolled slim enough to easily slide into body tube.
4. NOTE: Recovery wadding and parachute must slide easily into body tube. If too tight, redo.
5. Wrap lines loosely.
6. 32 TIP MUST TOUCH PROPELLANT
7. 32