# Mines Rocket Club General Launch Preparation Checklist

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|---|---|---|---|
| Flyer Name | | Launch Date | |
| Overseer Name | | Rocket Name | |

Notes

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Avionics Configuration

| | | | |
|---|---|---|---|
| Computer Model | | Serial Number | |
| Drouge Delay | | Drouge Charge Size | |
| Main Altitude | | Main Charge Size | |
| Callsign | | Channel / Frequency | |
| Orientation | | Baudrate | |

☐ 1 Pre-Departure

- 1.1 ☐ Test of all pyro charges (Pop Test).
- 1.2 ☐ Test fit of avionics and batteries.
- 1.3 ☐ Test recovery deployment via pull test.
- 1.4 ☐ Construct, label, and store pyro charges.
- 1.5 ☐ Ensure good fit of motor into motor mount and casing retention system.
- 1.6 ☐ Ensure presence of launch rail guide system.
  - 1.6.1 ☐ Flyaways

1.6.2 ☐ Lugs

1.6.3 ☐ Tower

1.7 ☐ Ensure appropriate paperwork

1.7.1 ☐ Certification Paperwork

1.7.2 ☐ Club Flight Card

1.7.3 ☐ Site Flight Card

☐ 2 Departure

2.1 ☐ Ensure all rocket components are together and labelled.

2.2 ☐ Ensure that all of the rocket's recovery devices are present if not already integrated into the rocket.

2.3 ☐ Ensure that all electronics and electronics support equipment needed is present.

2.4 ☐ If using pyro charges, ensure charges are packed correctly and labelled.

2.5 ☐ If tools are needed onsite, ensure they are present and packed to avoid damage.

2.6 ☐ If using flyaway rail guides, ensure presence.

☐ 3 Preflight

3.1 ☐ Ensure rail guides are installed.

3.2 ☐ Ensure avionics are functional outside rocket.

3.3 ☐ Ensure airframe is undamaged.

3.4 ☐ Ensure motor mounts & retention is undamaged.

3.5 ☐ Install avionics.

3.6 ☐ Construct motor per motor assembly guides.

3.7 ☐ Install motor.

3.8 ☐ Collect pyro charges from pyro box.

3.9 ☐ Install pyro charges (do not arm the flight computer).

3.10 ☐ Collect flight-time paperwork from paperwork storage.

3.11 ☐ Check out with Club Safety Officer

3.12 ☐ Check in with site RSO and/or Safety Officer

☐ 4 On Pad

- 4.1 ☐ Approach the rail.
- 4.2 ☐ Install rocket onto launch rail.
- 4.3 ☐ Orient the launch rail for launch.
- 4.4 ☐ Activate & arm the avionics.
- 4.5 ☐ If telemetry is present, check with base station for connectivity.
- 4.6 ☐ Retreat to the launch control area.
- 4.7 ☐ Upon launch:
  - 4.7.1 ☐ Assign a person for visual tracking.
  - 4.7.2 ☐ If using telemetry, communicate with the telemetry base station for position data.
  - 4.7.3 ☐ Wait for ground hit.
  - 4.7.4 ☐ Collect tracking information from visual tracking and others.
- 4.8 ☐ Ensure recovery party has radion communication with the base staion & depart.

☐ 5 Recovery

- 5.1 ☐ Take pictures of the rocket as found.
- 5.2 ☐ Collect all components of the rocket, as well as any waste that can be found.
- 5.3 ☐ If using avionics, deactivate and disarm.
- 5.4 ☐ Ensure the casing is still present and undamaged.
- 5.5 ☐ Take a visual inspection of the rocket.
- 5.6 ☐ Communicate to base station that the rocket has been recovered and the status of the casing and airframe.