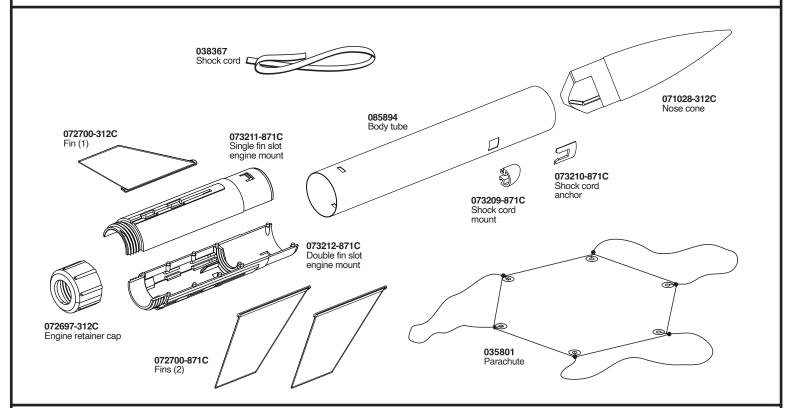


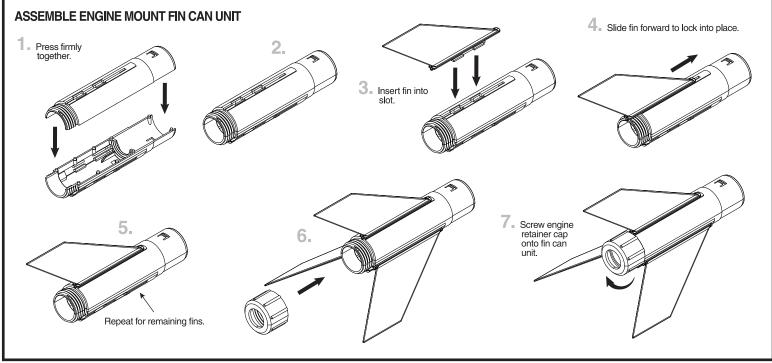
MODEL ROCKET INSTRUCTIONS

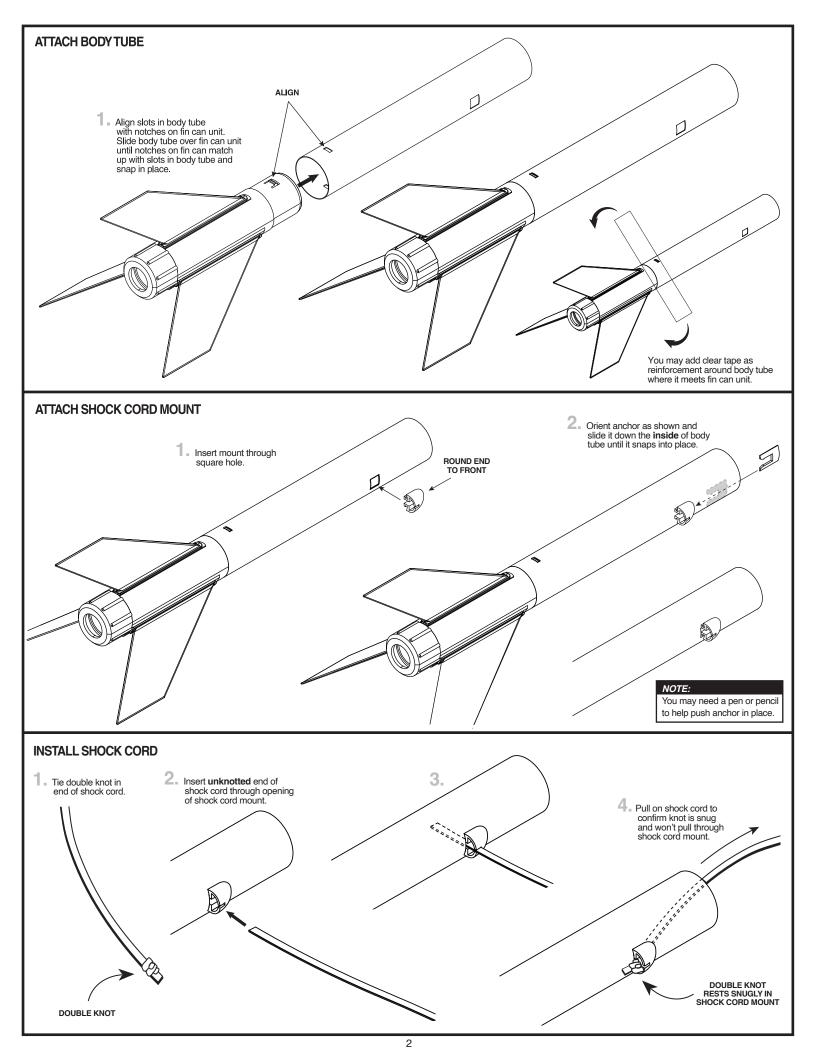
KEEP FOR FUTURE REFERENCE

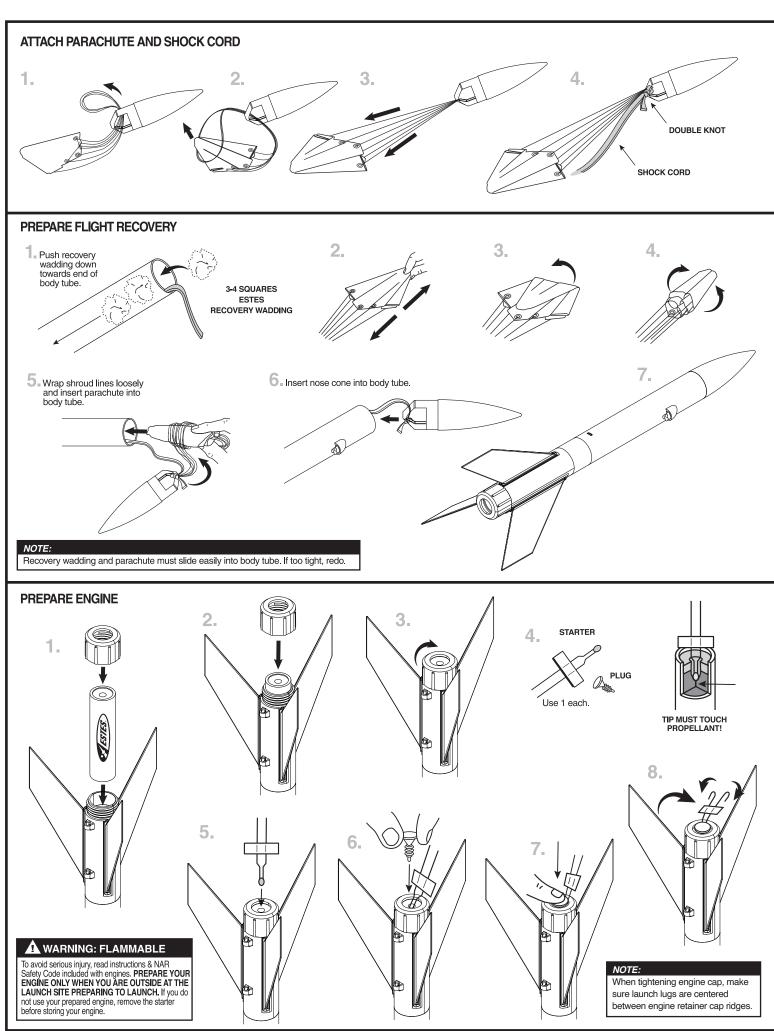
IMPORTANT: Please record date found on box and keep for future reference.

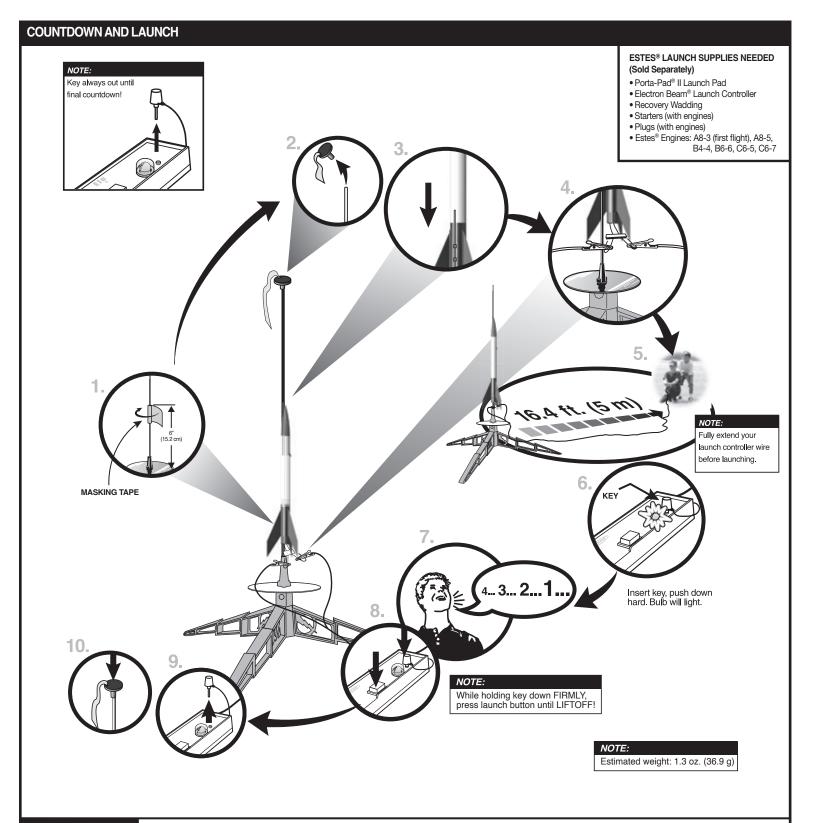
READ ALL INSTRUCTIONS. Make sure you have all parts and supplies.











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 (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 playgrounds are great. 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 engine. Repeat the steps under Countdown and Launch.

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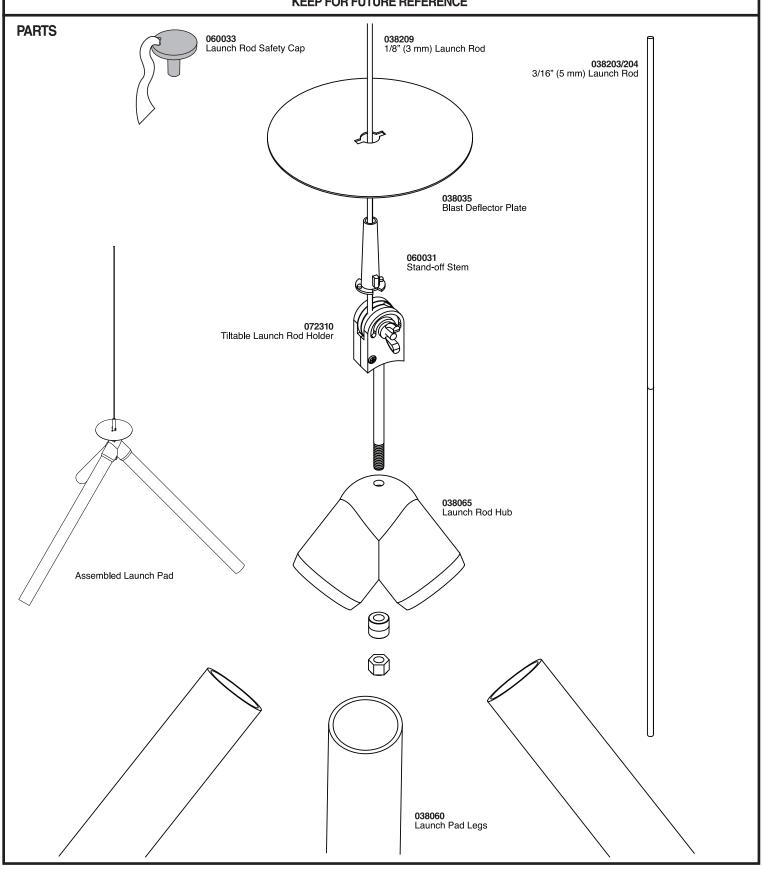
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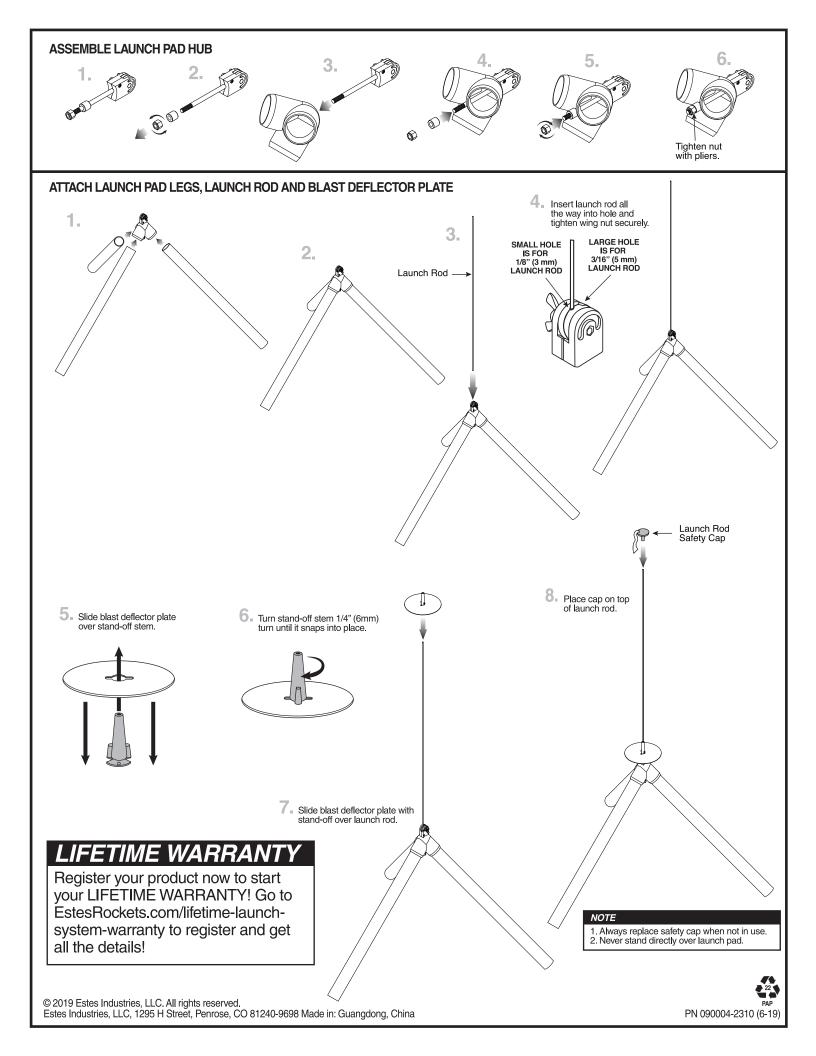


LIFETIME LAUNCH PAD

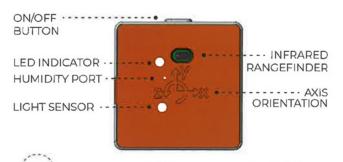
MODEL ROCKET LAUNCH PAD INSTRUCTIONS

KEEP FOR FUTURE REFERENCE





PRODUCT MANUAL





ALIGN SILICONE CASE BUTTON WITH VOYAGER BUTTON



MICRO USB CHARGING PORT



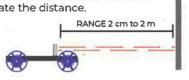
TEMPERATURE JACK

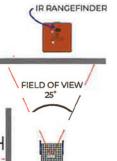
BUTTON FUNCTIONS			
Short press	Initiate B	Initiate Bluetooth connection	
Long press	Power off		
LED CODES			
Fast red and green flash		Ready to connect via Bluetooth	
Slow red and green flash		Disconnected from app	
3 green flashes		Bluetooth connection initiated	
Green flash every 5 seconds		Connected to app	
Solid red		Disconnecting from app	
3 red flashes every 10 seconds		Battery charging	
Orange flashes		Downloading stored data to app	

IR RANGEFINDER

MEASURE VELOCITY

Attach the PocketLab Voyager to the top of a cart so the IR rangefinder is pointing at a wall. Rangefinders work by emitting laser beams that bounce off distance objects. The rangefinder's clock measures the time it takes for the laser to return and uses that time to calculate the distance.

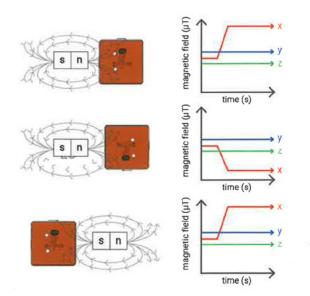




MAGNETOMETER

MEASURE MAGNETIC FIELDS

If the direction of an axis of the magnetometer is aligned with the direction of the magnetic field, the strength of the magnetic field will increase along that axis. Can you find the north and south side of a magnet on your refrigerator?



SENSOR CAPABILITIES

ACCELERATION ANGULAR VELOCITY MAGNETIC FIELD **POSITION - RANGEFINDER VELOCITY - RANGEFINDER** TEMPERATURE - PROBE TEMPERATURE - AMBIENT BAROMETRIC PRESSURE

ALTITUDE LIGHT INTENSITY HUMIDITY **DEW POINT HEAT INDEX**

CHARGING THE BATTERY

To charge the battery, connect a micro USB cable to the connector on the PocketLab. Plug the USB cable into a USB charger or computer port. The LED will blink red every 10 seconds while charging and stop blinking when fully charged.

CONNECTION Bluetooth 4.0

SIZE 3.9 x 3.9 x 1.6 cm $(1.5 \times 1.5 \times 0.6 in)$

BATTERY

Rechargeable Li-Poly Connect via micro USB 17 grams (0.6 oz) 240 mAh capacity

SENSOR SETTLE TIME

Give your PocketLab Voyager up to ten minutes to settle on new conditions.

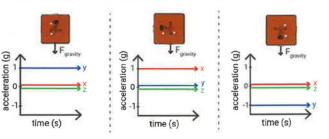
PRODUCT CARE

PocketLab Voyager is NOT waterproof. Make sure it is protected from rain.

ACCELEROMETER

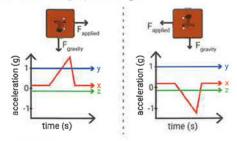
MEASURE GRAVITY

With PocketLab Voyager at rest, change its orientation with respect to Earth's gravity. How does the graph change?



MEASURE MOVEMENT

Shake PocketLab Voyager back and forth along different axes. How does the graph change?



Need Support?

Sign in to PocketLab Notebook for tutorials, knowledge base and chat support.

thepocketlab.com/notebook

Email:

thepocketlab.com/contact

Find detailed instructions and experiments.

app.thepocketlab.com/voyager



Turn On

Connect

Sign Up

Turn on your PocketLab sensor by pressing the button on the top. LED light will start blinking.

To turn off PocketLab, hold power button for three seconds until you see a solid light.

See your product manual for LED codes.

Stream live data from your sensor. Go to thepocketlab.com/notebook and click "Connect a PocketLab"

Computers with Chrome, Microsoft Edge Go to thepocketlab.com/notebook

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Download "PocketLab Notebook"

Apple App StoreDownload "PocketLab" iOS app

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- · Customize lessons from our Lesson Library
- · Manage a classroom of 35 students

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