

Hoyt St

ELECTRIC LONGBOARD
EL1

HP1 and HR1 Controller

OWNER'S MANUAL



READ BEFORE YOU RIDE!



ALWAYS WEAR A HELMET when riding the board. Other protective gear like wrist guards, gloves, elbow and knee pads are also strongly recommended.



THE BOARD MAY LOSE POWER OR BRAKES due to low batteries or regenerative braking overcharge. Ride at speeds manageable without power or brakes.

DO NOT ride downhill on a full charge.



It is strongly recommended all riders take their first rides in **LEARNING MODE** (Mode 1) and slowly elevate modes to learn the feel and power of the board.



HILLS AND HIGH SPEED can be very dangerous. Always assume you may need to foot brake your way out of a sticky situation and never ride faster than you can stop. Ride within your capabilities.



NEVER ride the board while under the influence of drugs and/or alcohol.



PROLONGED EXPOSURE TO HIGH HEAT may damage the electronics. Avoid leaving your board in a hot car or trunk.



LEARN AND OBEY local traffic laws.

SHARE the road. Be courteous of cyclists, pedestrians and other modes of transport.



WARNING!



RISK OF DEATH OR SERIOUS INJURY. Skateboarding, electric or otherwise, is a dangerous activity. You put yourself at risk of death or serious injury every time you ride a skateboard. Appropriate precautions naturally mitigate these risks.



AVOID WATER! Your Hoyt St board is water resistant, not waterproof. The electronics and other components are susceptible to water damage.



ELECTRIC SHOCK RISK when opening the deck to remove batteries, avoid touching the encased electronics and blade connectors, particularly with metal, as it can damage the electronics and deliver an electric shock.



PINCH POINTS at the motor end of your board can grab fingers, hair and loose clothing. Keep clear of the motors, belts, pulleys and other moving parts.



MAINTENANCE is important to keep your board in safe and optimal condition. Familiarize yourself with the maintenance section of this manual and establish a regular schedule of care.

If your board is behaving irregularly, please contact hoytskate@hoytskate.com so we can troubleshoot the problem together.

PERFORMANCE SPECS

Depending on many variables including rider weight, speed, incline, temperature and tempo, your Hoyt St electric skateboard will travel up to 24 miles.

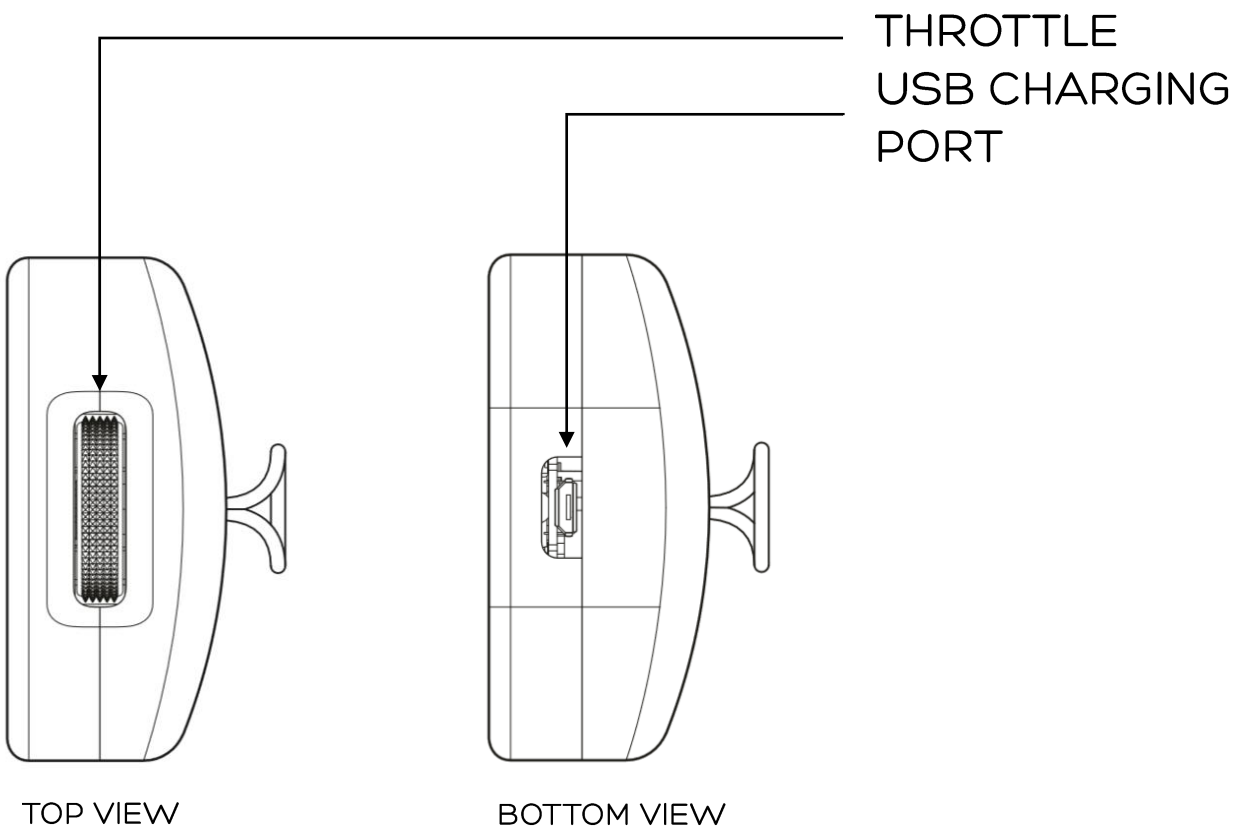
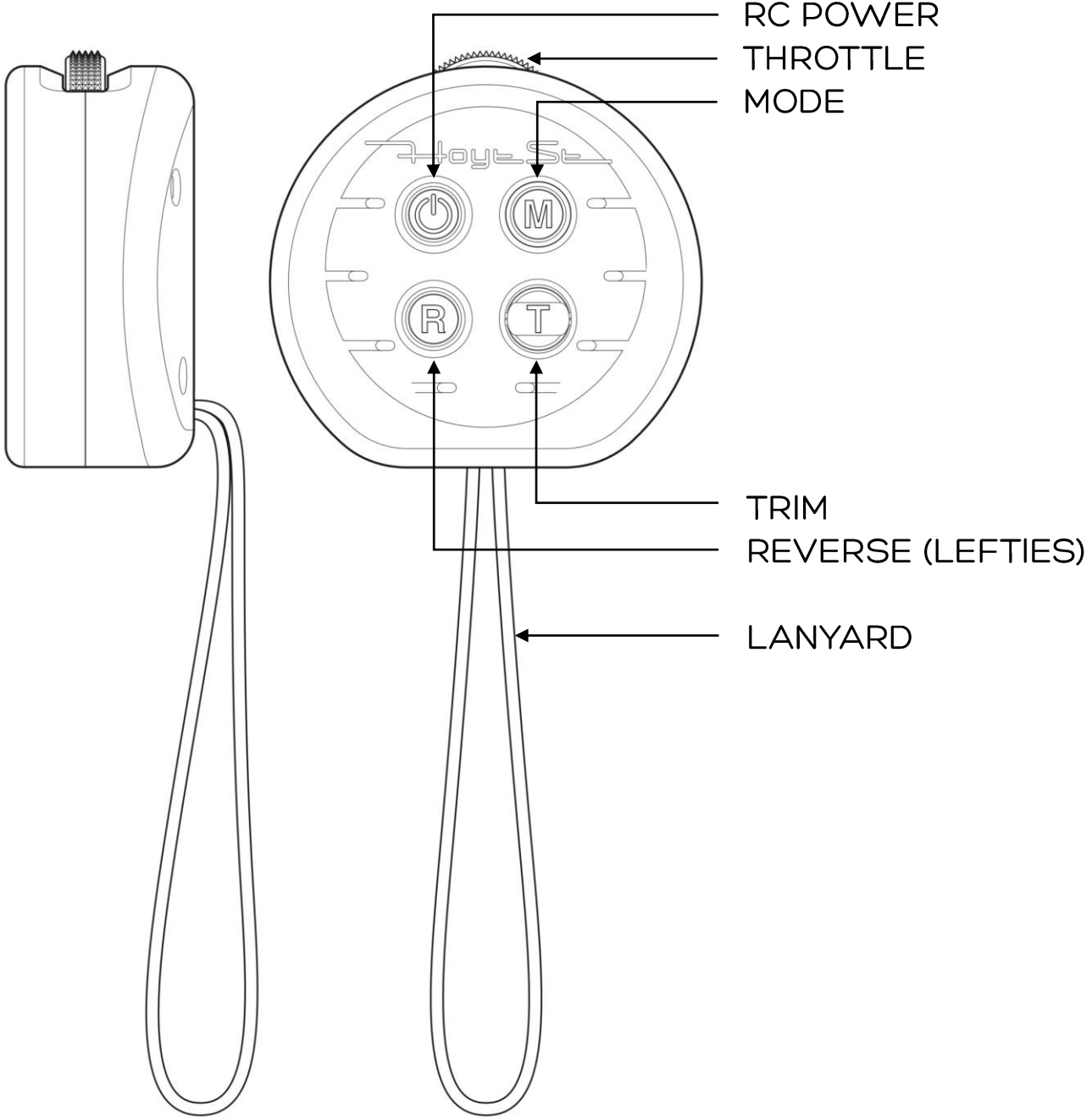
Top speed varies depending on operating mode. Mode 1 top speed is 15 mph, mode 2 is 25 mph and, in optimal conditions, mode 3 will reach 28 mph.

Maximum grade in mode 3 on a full charge is 30% while mode 2 is 25% and mode 1 is 15%. A running start and momentum is required to achieve maximum grade.

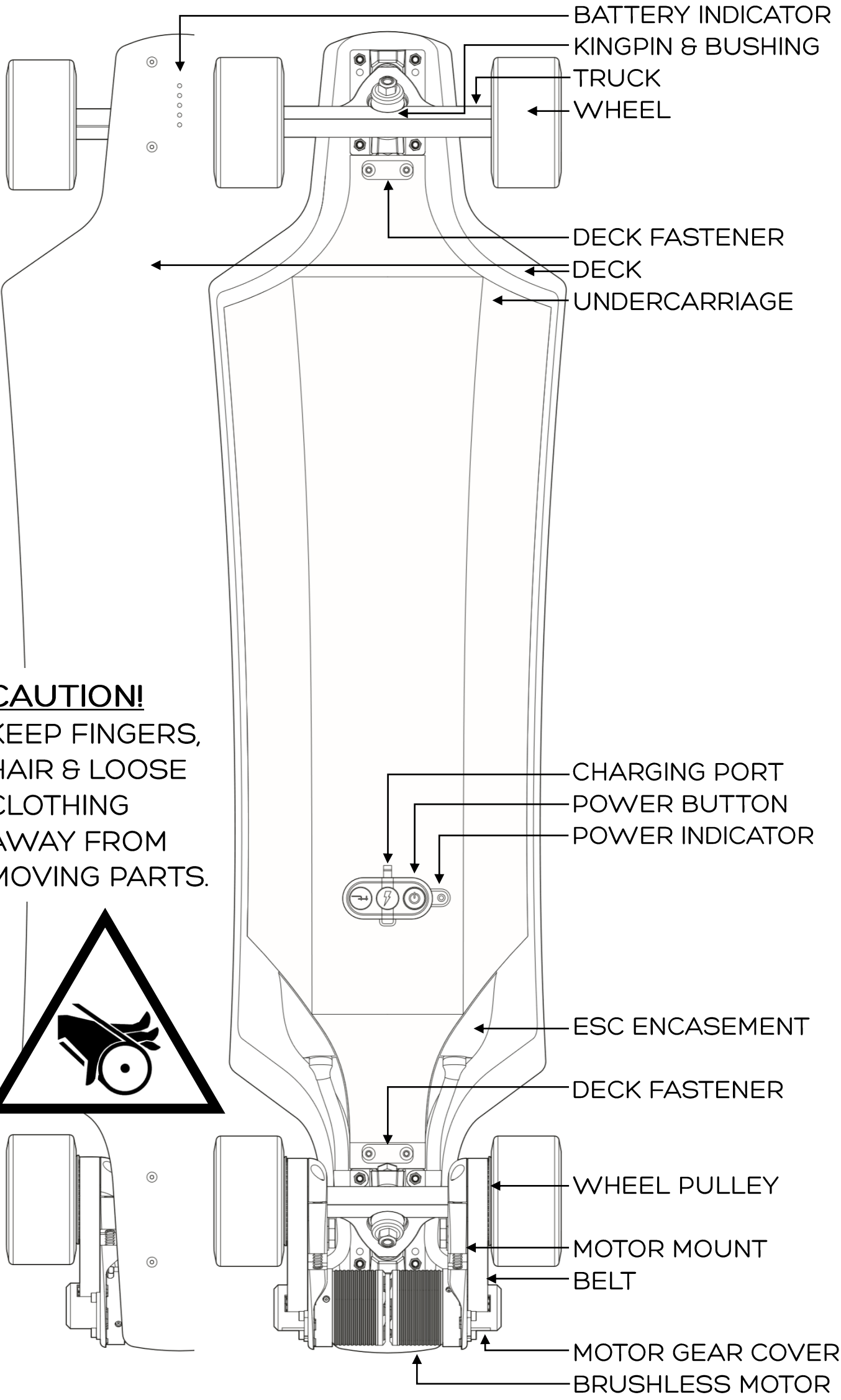
Your Hoyt St skateboard weighs in at 19.5 pounds. The ranges, speeds and grades noted above are assuming a 160 pound rider.

GLOSSARY

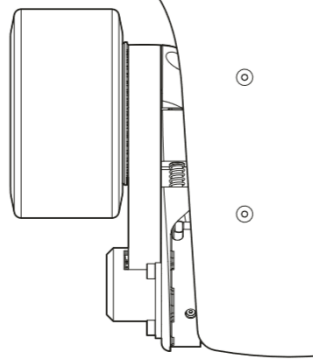
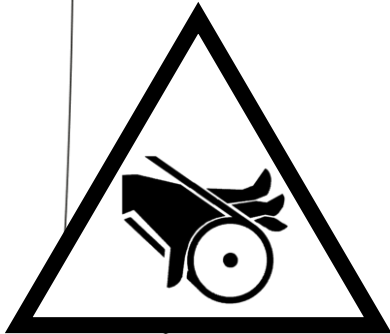
REMOTE CONTROL



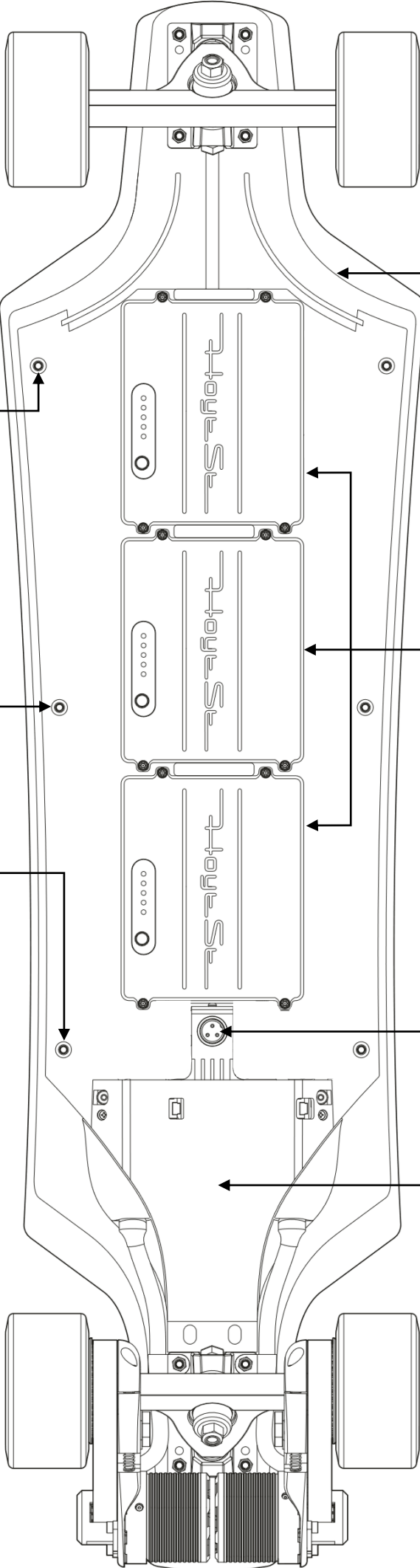
EXTERNAL COMPONENTS



CAUTION!
KEEP FINGERS,
HAIR & LOOSE
CLOTHING
AWAY FROM
MOVING PARTS.



INTERNAL COMPONENTS



DECK

BATTERIES

DECK
FASTENERS

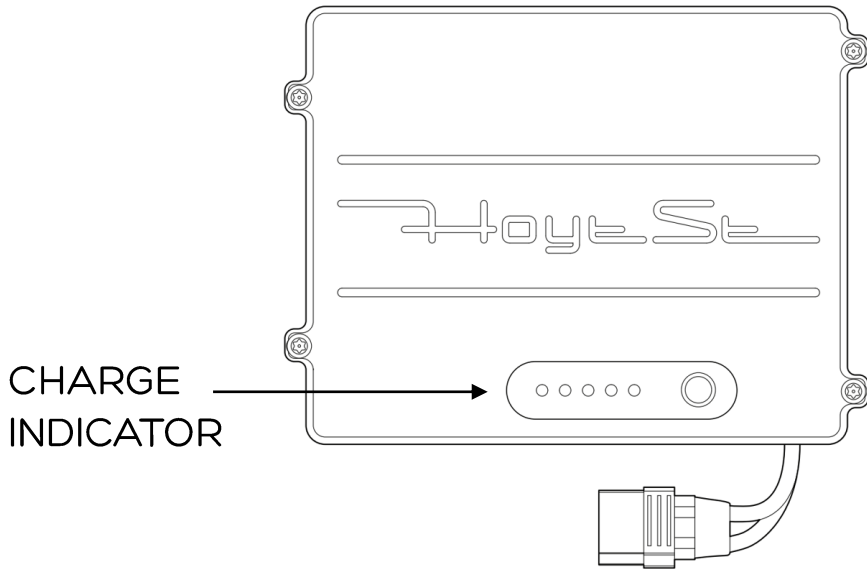
CHARGING
PORT

ESC
ENCASEMENT



WARNING!
ELECTRIC
SHOCK RISK!
DO NOT TOUCH
ELECTRONICS

BATTERIES



BATTERY REMOVAL AND INSTALLATION

Hoyt St battery packs are connected to the electrical system with blades that slide onto connectors located within the battery pack. **IMPORTANT:** Do not force the blades or this may damage the connectors. Align the blades with the openings in the battery pack and gently push the pack until the blades are fully embedded. If excessive force is required or if the blades can only be partially inserted, the operation was performed incorrectly. Remove, align and reinsert.



CAUTION: Do not touch any exposed electrical components, especially with metallic objects, while the batteries are inserted into the blades connectors. This could short circuit and severely damage the electronics.

CHECKING INDIVIDUAL PACK CHARGE AND BALANCING

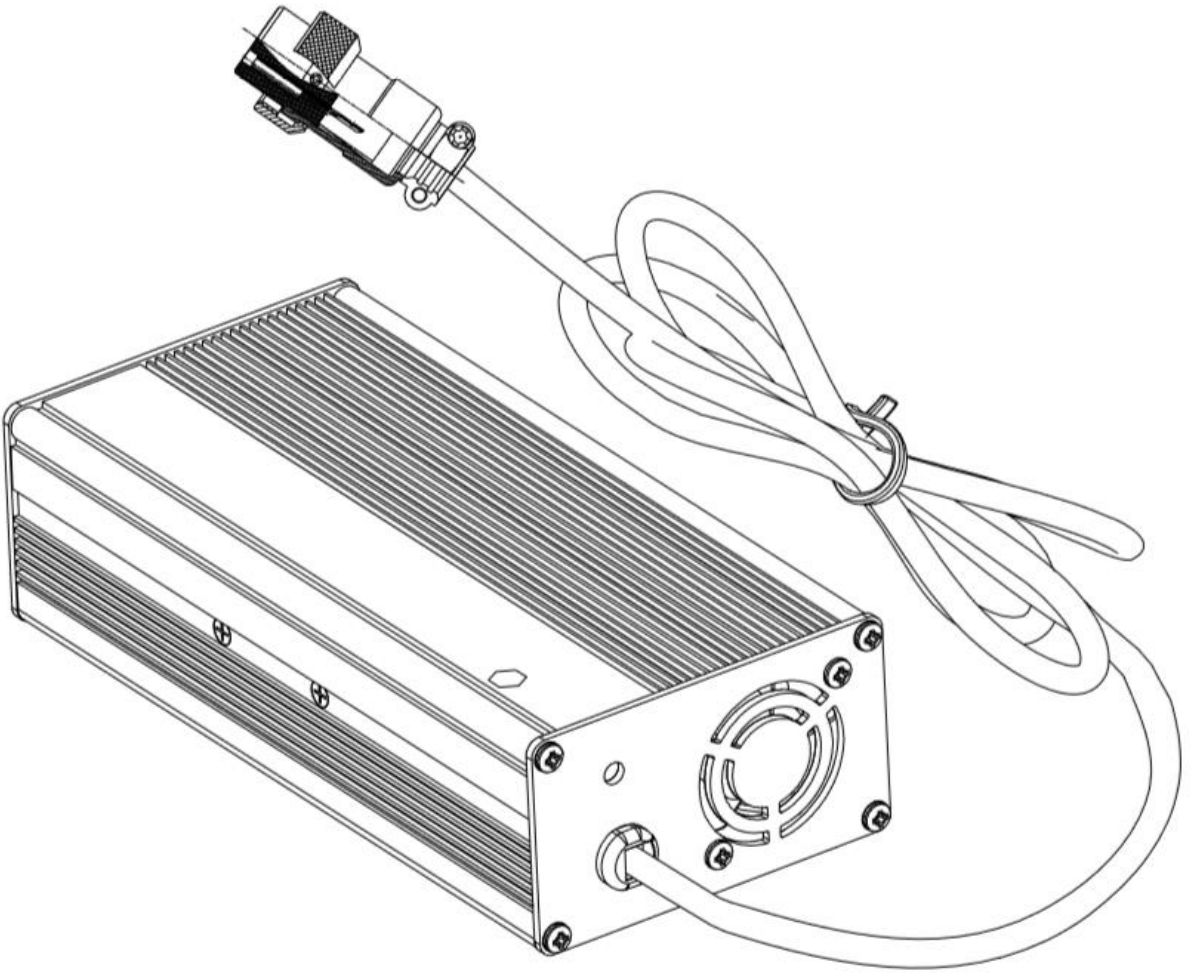
The three battery packs discharge electricity evenly and simultaneously. After several hundred miles of use, check to ensure the packs remain equally charged.

Press the LED meter located directly on the pack.

Alternatively, use a multi-meter to check the voltage by placing the two leads on a set of blades while a battery pack is installed.

The three batteries should have equal charge for efficient board performance and range. If they are not equal, fully charge each battery individually (by removing the other two batteries).

CHARGER



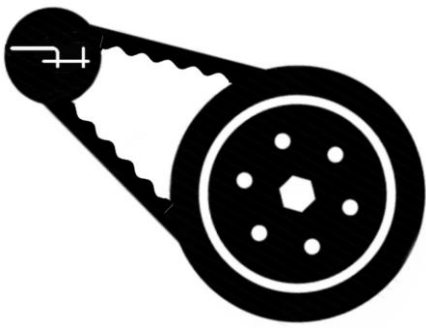
Hoyt St chargers are UL certified and built with the highest level of quality and safety. To charge your Hoyt board, plug in the charger to the port located on the underside of the skateboard's control panel. Lift open the charging hatch and insert the charger. Do not force fit. A red LED will light up while charging and turn green when fully charged. The process requires ~2½ hrs.

TIP 1: The batteries will not be damaged in any way by operating the board after a partial charging session.

TIP 2: The charger is designed to safely charge individual packs as well as two or three packs at a time.

TIP 3: Be wary of quick charge claims by resellers. A charge time of 2½-3hrs for a 270WH lithium ion battery is recommended by industry experts. An accelerated charging session requires a higher current flow to the cells and may shorten battery life.

CAUTION: The majority of lithium ion battery accidents occur during the charging process. Only use Hoyt St's supplied charger. Using a different charger may damage the batteries, shorten their life cycles, or even cause fires.

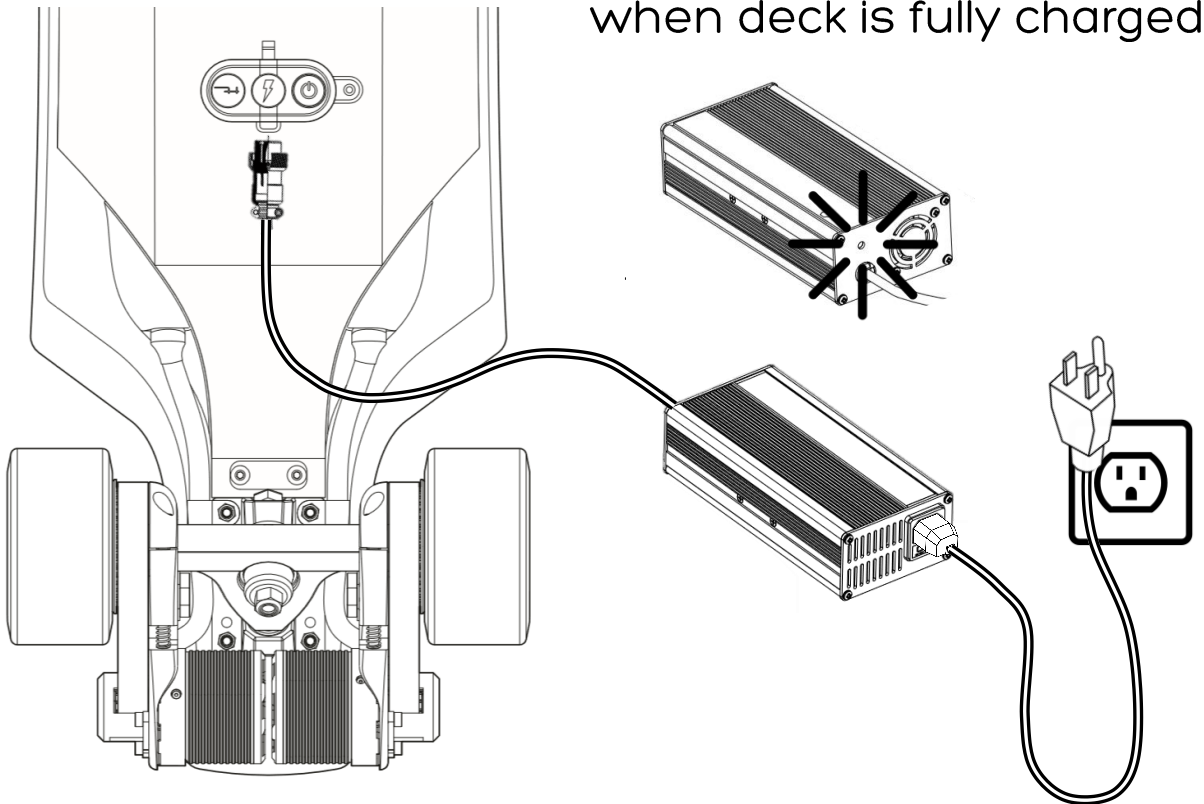


OPERATION GETTING STARTED

CHARGE THE DECK

Full charge = 2½ hours

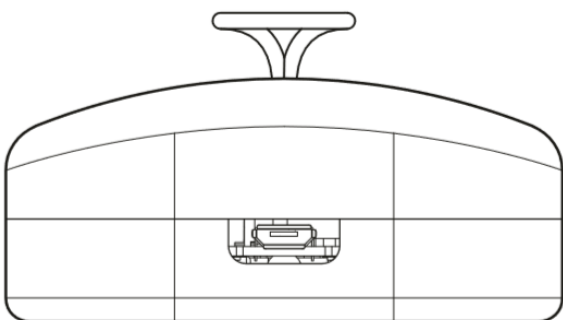
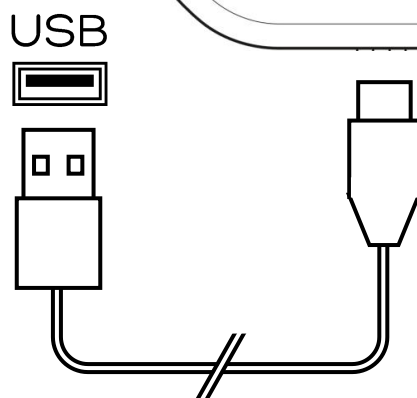
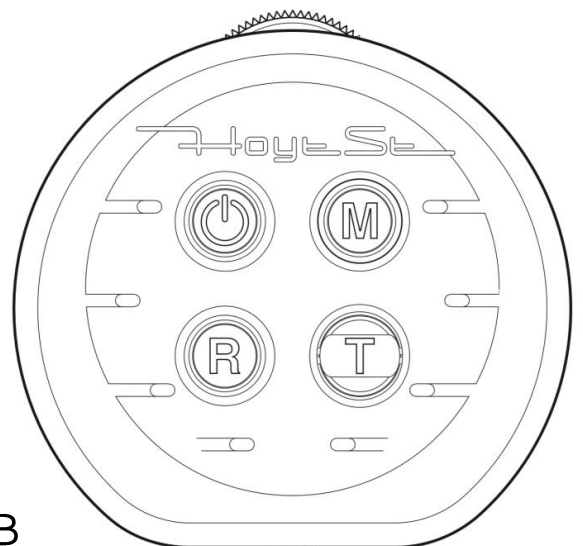
Charger light turns green when deck is fully charged.



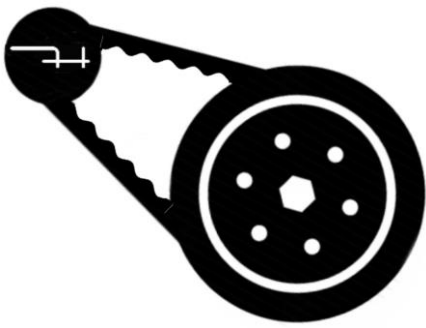
CHARGE THE REMOTE

Full charge = 6-8 hours of use with a 30-60 minute charge. LEDs glow green when full charge reached. While riding, click the power button once to check SOC.

Blue = 8 to 4 ½ hours
Green = 4 ½ to 1 hour
Yellow = 1 hour to 20 min
Red = <20 min



BOTTOM VIEW



OPERATION LET'S RIDE!

SAFETY FIRST

ALWAYS WEAR A HELMET and consider other protective equipment.



Verify the board is functioning (without rider) in a flat, open area clear of obstructions.

If this is your first ride, we urge you to get a feel for the power and nuance of the board in beginner mode.

Beware of obstacles that may cause control issues: gravel and rocks, cracks and tracks, grates and drains, water and ice, etc.

Remember skateboarding is a dangerous activity, capable of causing serious injury or death. Take necessary precautions to avoid both.

STANCE

Leverage the drop deck and position your body to brace yourself against the forces of acceleration and deceleration.



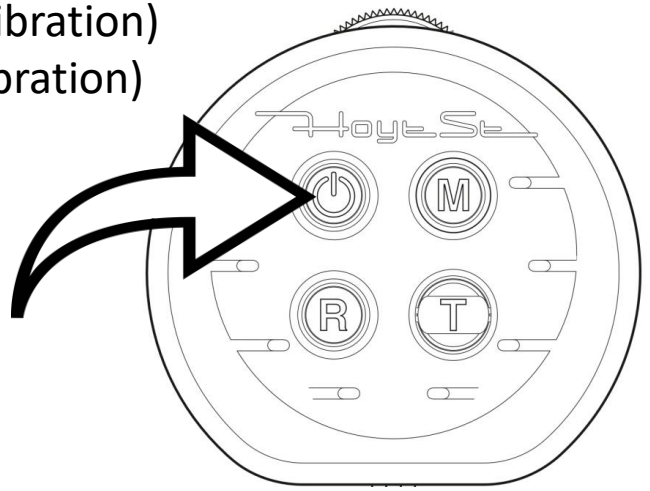
POWER THE REMOTE ON AND OFF

Press and hold the power button until it vibrates.

ON: hold 1½ seconds (short vibration)

OFF: hold 1½ seconds (long vibration)

AUTO-OFF: after 5 minutes
of inactivity.



POWER THE DECK ON AND OFF

ON: instantaneous

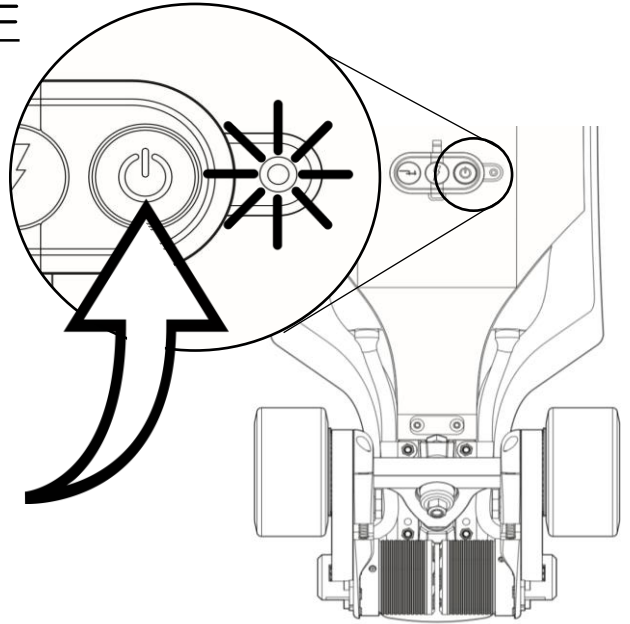
LED light will glow blue.

OFF: hold 1½ seconds

until LED light turns off.

AUTO-OFF: board will turn
off automatically after
5 minutes of inactivity.

SAFETY NOTE: always turn
skateboard off when
remote is off to avoid
wi-fi hijacking.



CHECK REMOTE-DECK PAIRING

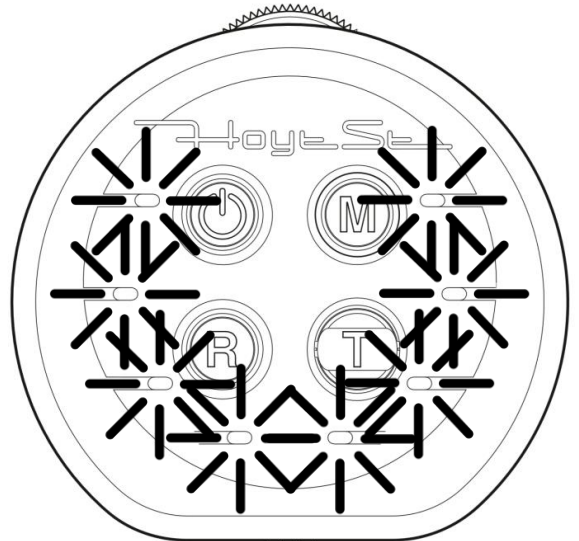
Paired:

remote LED lights
turn white for <1 second

Unpaired:

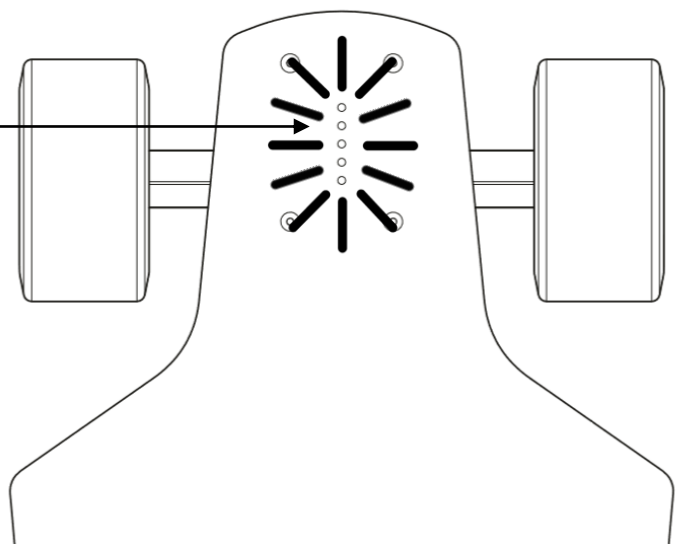
remote LED lights
are blinking red.

Reference Maintenance
section for re-pairing.

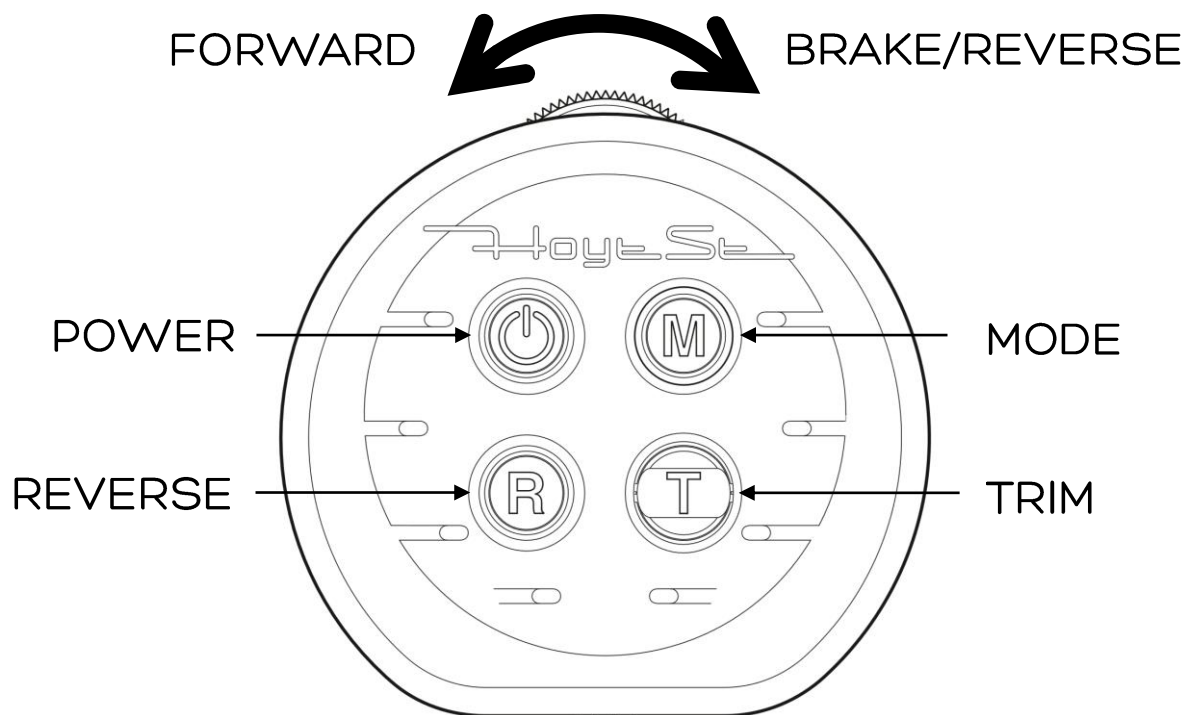


CHECK DECK BATTERY LIFE

LED deck battery
indicator at nose
of deck illuminates
when throttle engaged.



USING THE REMOTE CONTROL



POWER: Powering on and off requires a 1½ second hold. Remote will vibrate at activation. Auto-off activates after 5 minutes of inactivity. Double click to lock/disengage throttle but maintain pairing. Double click again to unlock. Throttle Lock: double click to lock/unlock. Blue light will glow when locked.

MODE: Hoyt St remote control comes with three modes: Click once to toggle between modes, each mode vibrating (once, twice or thrice) to indicate mode.

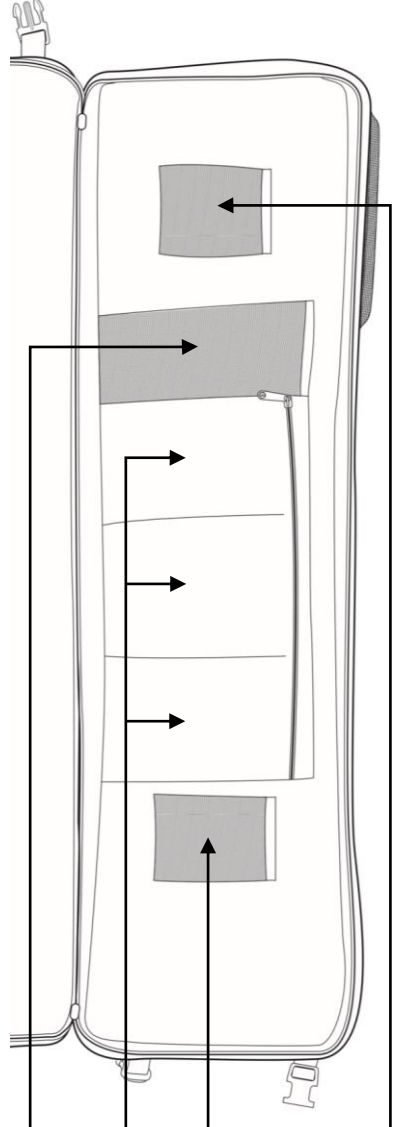
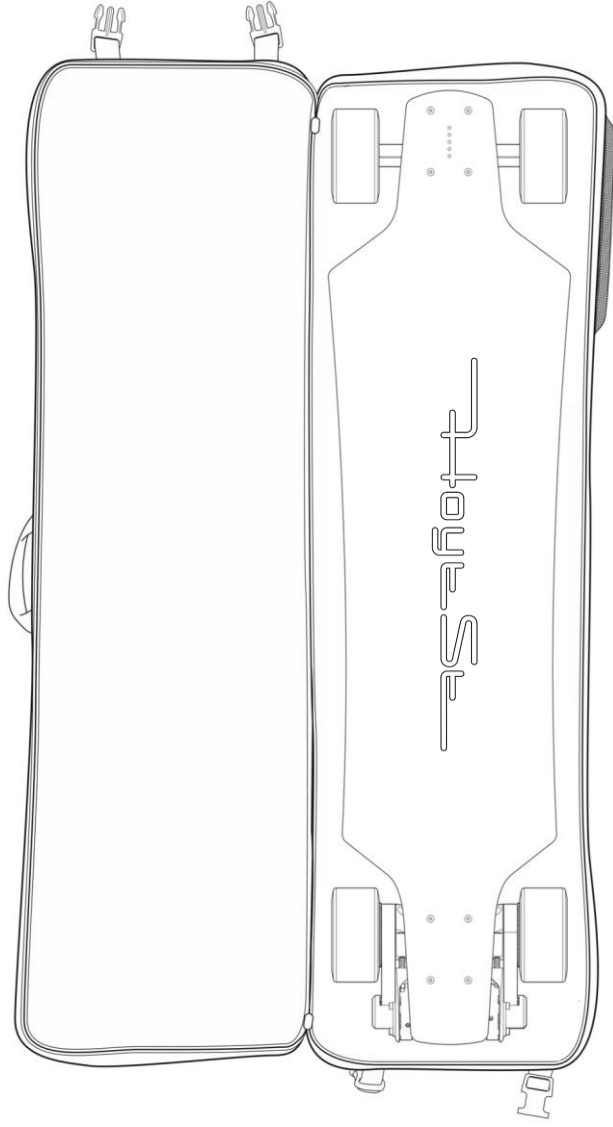
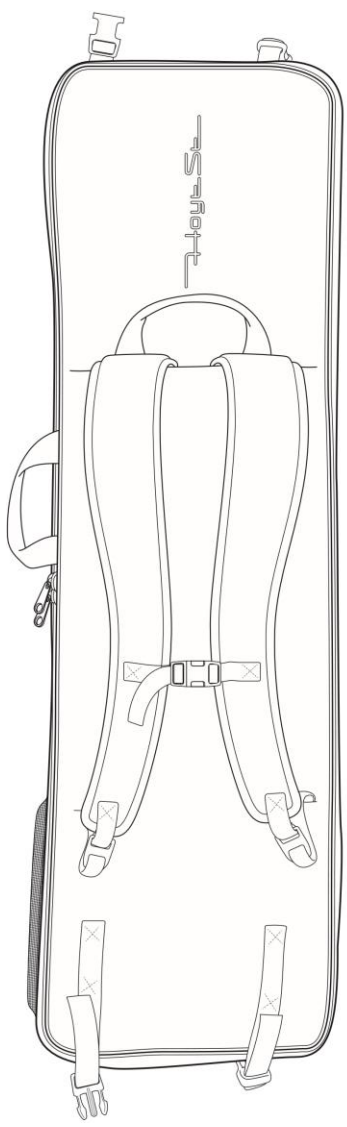
Mode 1: Learning on flat ground for beginners.
Mode 2: Moderate acceleration and hill climb.
Mode of choice for majority of riders.
Mode 3: Delivers more power on acceleration and steep uphill climbs.

All modes have equal braking characteristics.
Toggling modes while operating the skateboard is enabled when throttle in neutral position.

REVERSE: For left handed remote use. Hold button for 1½ seconds until vibrating beep. Test to validate throttle direction has reversed before riding.

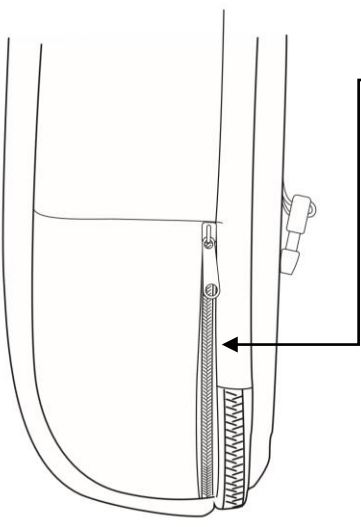
TRIM: Intended to allow the rider to set and adjust the neutral point between accelerating and braking but appears to be either unnecessary or non-functional.

BACKPACK



TOOLS: (SKATE TOOL,
ALLEN WRENCHES)

CORD
REMOTE
BATTERIES
CHARGER



WITHOUT THE BOARD: Your Hoyt St backpack is designed to fold into a compact standard size pack when riding the board and wearing the pack. Fold the pack just above and below the backpack straps and clip the ends into each other



LIMITED WARRANTY

Your Hoyt St electric skateboard is covered by a 6 month manufacturer's warranty, covering defects in craftsmanship and materials. Not covered is damage as a result of abuse, misuse, neglect, negligence, accident or exposure to water. Modification of components and/or tampering with the electronics voids the warranty. Perishable items like wheels, belts and bearings are excluded from warranty.

If you discover a product defect within 6 months of ship date, contact hoytskate@hoytskate.com for return instructions.

Retain your box for return shipping. Warranty excludes damage from shipping in alternative packaging.



ADDITIONAL ONLINE INFO

Website: www.hoytskate.com

Email: hoytskate@hoytskate.com

Instagram: [hoytskate](https://www.instagram.com/hoytskate)

Facebook: [hoytsk8](https://www.facebook.com/hoytsk8)

Twitter: [@hoytskate](https://twitter.com/hoytskate)

Mail: 922 NW 11th 104, Portland, OR 97209



FLYING WITH YOUR BOARD

COMMERCIAL FLIGHTS, HOW-TO & REGULATIONS

- Lithium Ion batteries are highly regulated by the airlines and the FAA.
- FAA policy is shared by nearly all major US carriers including Alaska, American, Delta, Frontier, Hawaiian and United Airlines.
- Spirit Airlines strictly forbids electric skateboards.
- Most international airlines also comply with FAA standards for lithium ion batteries.
- Perform an online search to verify latest airline policy ("*x airlines lithium ion battery policy*") and carry a printed copy to avoid misunderstandings.
- Hoyt St boards are in compliance with FAA commercial airline regulations.
- Each battery is under the 100WH (watt hour) limit, clearly marked on the back sticker, and may be transported as part of your carry-on.
- Before check-in, remove all battery packs from the skateboard and place them in your carry-on.
- Leave deck and undercarriage unfastened during travel. Notify the airline attendant that you have an electric skateboard in your possession and that the batteries have been completely removed as required by their restricted substance policy.
- **DON'T FORGET YOUR SKATE TOOL AND ALLEN WRENCHES!**
- **TIP:** airlines will often allow the skateboard as a carry-on. Ask for an oversized carry-on label and attach it to the skate bag. At the gate, display the tag for TSA. Otherwise, you will be sent back to the airlines check-in counter.

REMOVING BATTERIES FOR FLIGHT

Use the provided Allen wrench to loosen all bolts and remove the undercarriage. Gently remove batteries from blade connectors.

Reseal the deck: fit the deck and undercarriage together ensuring the undercarriage is seated correctly in the deck grooves.

Use the Allen wrench to tighten all bolts. Tighten firmly but do not over tighten.



MAINTENANCE --- GUIDE

Every several rides inspect all screws, nuts and bolts, and tighten as necessary. Ensure belts are under proper tension.

Remote Control (Re-)Pairing: Pairing is the process of wirelessly coupling your remote control transmitter with the receiver built into the board so other transmitters cannot interfere with data transmission. To re-pair the remote:

- Turn off skateboard and remote control.
- Simultaneously hold the Power, Mode and Reverse buttons until remote control LEDs flash rapidly.
- Turn on the skateboard's power. Pairing is complete.

Changing Wheels (wheel pulley transfer):

- Use a bearing puller to push the pulley out of the wheel.
- Add a light lubricant spray to wheel core holes and pulley extensions.
- Press the pulley into the wheel core using an arbor press.
- Stop when pulley is 1-2mm from urethane wheel wall.

Hoyt St will transfer your wheel pulleys to new wheels free of charge (incl. shipping) when new wheels purchased from Hoytskate.com. Contact hoytskate@hoytskate.com for details.

IMPORTANT: For optimal safety and range, always use wheel spacers and washers against both the trucks and bolts in the wheel assembly.

Belt maintenance: Hoyt St 300-5M-15 belts have been built to last hundreds of miles without replacement.

1. **Inspect belts and pulleys** periodically by manually rotating the wheels. Remove any sharp objects and debris that may have lodged in the belt or pulley teeth.
2. **Belt replacement:**
 - Unscrew wheel nut, carefully setting aside washers.
 - Pull the wheel and pulley assembly off the belt by gently rotating the wheel while nudging the belt towards the truck.
 - Once the wheel is off, unscrew the four bolts on the motor gear cover. Take care not to let the motor drop.
 - Remove the old belt and place the new belt around the motor gear.
 - Add the motor gear cover and firmly screw into place. Align the screw holes in the motor, motor mount and motor mount cap. Screw in the bolts. Note there are two screw holes per motor hole position. Use the same position for the left and right motors. You may need a second pair of hands if this is your first time installing the motor mount cover.
 - Ensure the motor gear is fully pressed against motor.
 - Install first wheel washer. Align the bearing spacer with the hole and install the wheel and pulley onto the axle and over the belt. Add the second washer.

Wheel bearings: Electric skateboards can easily travel hundreds of miles at high speeds over several sessions; it is imperative that the bearings be maintained for rider safety. Periodically check for noise. A grinding or squeaking noise may indicate compromised bearings. Bearings should either be replaced or cleaned every three hundred miles. No skateboard bearings are fully protected from the debris that rainwater and mud carries. Avoid riding in the rain or be prepared to replace/clean your bearings more frequently.

PLEASE CONTACT hoytskate@hoytskate.com if your board is behaving irregularly so we can troubleshoot together.

Hoyt St

PORTLAND, OREGON

Please visit hoytskate.com for more information and instructional videos.

Enjoy your Hoyt St electric skateboard!



4.0mm stubby



3.0mm Allen



Skate Tool

FCC STATEMENT:

Warning: changes or modifications not expressly approved by the party responsible for compliance void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is not guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Wireless Electrical Parameters:


RF Range: 2408-2475MHZ

RF Power: >20dBm(EU)

Input Power: 1S3.7V *1000mAh

HP1: 2AZE4-HP1

HR1: 2AZE4-HR1



Hoyt Se

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www.hoytskate.com

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