Owner’s Manual

v1.01 (8 April 2026)



Advanced Recreational Jet Propulsion Platform

IMPORTANT—READ BEFORE USE

Failure to follow the warnings and instructions in this manual may result in serious injury or death.

Retain this manual for future reference.

Thank you for purchasing a FluxJet Kayak!

The FluxJet Kayak (“FluxJet”) is an electric jet-propelled kayak. It is easy to operate, transport, store and maintain. Due to its simple operation, beginner to experienced kayak enthusiasts will be able to feel the power and enjoyment of the kayak in all situations where other kayaks fall short.

Enjoy your FluxJet Kayak!

The FluxJet Team



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INTRODUCTION

The FluxJet Kayak represents a new generation of recreational fishing and performance-oriented watercraft integrating variable-speed electric jet propulsion, foot-controlled steering, and marine-grade corrosion-resistant components.

Read this Owner's Manual fully before first using your FluxJet, to keep yourself and others safe, and to get the most out of your experience.

FluxJet kayaks are low maintenance, but they do require *some* essential maintenance. Failure to read this manual and conduct required maintenance on your FluxJet may result in damage which will not be covered under warranty.

The FluxJet has been designed with safety in mind, using delayed throttle response, pre installed navigation lights, and a low center of gravity. The FluxJet is a performance electric vessel and must be treated with caution and respect.

By using your FluxJet, you acknowledge and accept responsibility for all risks associated with the use of this water sports equipment, up to and including injury or death.

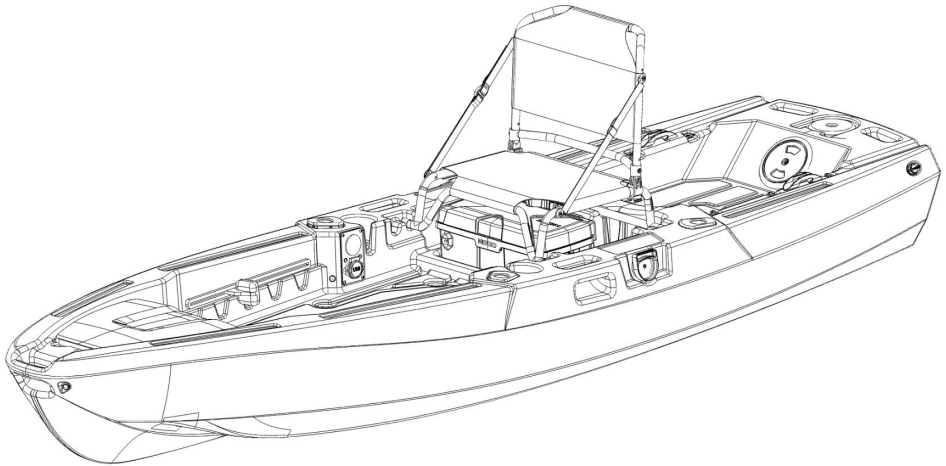
This manual is intended to minimize risk but is only an outline of best practices. There is no substitute for common sense and good judgement. Always operate within your limits, wear a PFD, avoid hazardous conditions, and ensure you always adhere to safe boating practices.

Always use your FluxJet in accordance with all applicable local laws, rules, and regulations, which may include registration and licensing.

Note: this manual describes the first generation model of FluxJet Kayak (see REVISION below). Future models of FluxJet may have different features and specifications. If you need to discuss, please contact us at **info@fluxjetkayaks.com**

WHAT'S IN THE BOX?

1. FluxJet Kayak including:
   motor, electronics, wiring, steering, gear tracks, paddle holders, deck pads and front hatch cover
2. Group 31 Battery Box
3. Seat
4. Rear 360° Light
5. Tool kit and parts



ASSUMPTION OF RISK, RELEASE AND LIMITATION OF LIABILITY

IMPORTANT - READ CAREFULLY

Operating a powered kayak involves inherent and unavoidable risks including but not limited to:
• Capsizing/rollover
• Collision
• Electrical malfunction
• Battery fire or explosion
• Loss of steering
• Submersion
• Hypothermia
• Drowning
• Personal injury or death

By assembling, operating, transporting, or using this product, the owner and operator:
• Voluntarily assume all risks associated with use.
• Accept sole responsibility for safe operation.
• Accept responsibility for battery selection and voltage compliance.
• Acknowledge that misuse or modification may result in serious injury or death.

To the fullest extent permitted by law, FluxJet shall not be liable for incidental, consequential, indirect, or economic damages.

Maximum liability shall not exceed the original purchase price of the product.

SAFETY DEFINITIONS

WARNING

• Indicates a hazardous situation which, if not avoided, could result in serious injury or death.

CAUTION

• Indicates a hazardous situation which, if not avoided, may result in minor or moderate injury.

NOTICE

• Indicates information related to equipment protection and proper operation.

GENERAL WATER SAFETY

ALWAYS

• Wear a USCG-approved Personal Flotation Device (PFD).
• File a float plan.
• Monitor weather conditions.
• Operate within your skill level.
• Carry required safety equipment.

NEVER

• Operate under the influence of drugs or alcohol.
• Exceed 400 lb maximum usable capacity.
• Operate in severe storms.

ELECTRICAL & PROPULSION SAFETY

Operating Voltage Range: 12V–60V DC

WARNING

Exceeding 60V DC input will cause immediate and irreversible damage to propulsion electronics and motor components.

Damage resulting from the following is not covered under warranty:

- Over-voltage
- Improper battery wiring
- Series stacking exceeding 60V
- Voltage spikes
- Non-approved charging systems

User is solely responsible for verifying total system voltage prior to connection.

Never operate propulsion system out of water.

Keep hands, clothing, and gear clear of intake.

BATTERY & LITHIUM COMPLIANCE

The FluxJet system uses a user-supplied battery housed in the included NOCO Group 31 battery box.

Battery Requirement:

- Must be rated for 50a output continuous
- Must not exceed 60V DC total system voltage
- Must fit securely inside the battery box
- Must be properly secured

Lithium Battery Warning:

Lithium batteries may present fire or explosion risk if improperly installed or charged.

- Use only batteries with integrated BMS
- Use manufacturer-approved charger
- Do not puncture or crush
- Do not charge unattended
- Do not expose to extreme heat

FluxJet Kayaks LLC assumes no liability for battery-related damage, misuse, or fire.

SPECIFICATIONS

Model: FluxJet Kayak 11’

Maximum Usable Capacity: 400 lbs

Propulsion
• Drive Type: Outboard Jet Thruster with Steering Bucket
• Throttle: Side-Mounted Dial
• Speed Control: Infinite Variable 0–100%
• Reverse: Yes (Reduced Power / No Steering)
• Steering: Foot Pedal Controlled

Electrical
• Voltage Range: 12V–60V DC
• Battery: User Supplied
• Battery Housing: NOCO Group 31

Water Compatibility
• Freshwater: Yes
• Saltwater: Yes (Ceramic Bearings Installed)

PACKAGE INCLUSIONS

Installed - kayak hull with deck padding, motor, steering nozzle with cable-connected foot-pedals, electronic throttle, speed controller, electrical and steering cabling, magnetic kill switch, navigation lights (red/green/white 360), blue cockpit flights (4), power panel with USB and 12V supply, gear tracks, rod holders, HIN

Included - battery box with breaker, seat, front hatch cover, paddle holders (tacos), tool set plus parts, security lanyard (red), MSO

PACKAGE EXCLUSIONS

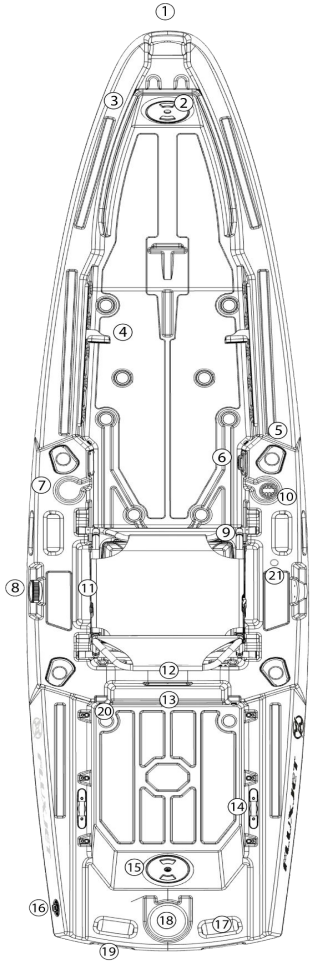
Battery, any other cables, paddle, life vest

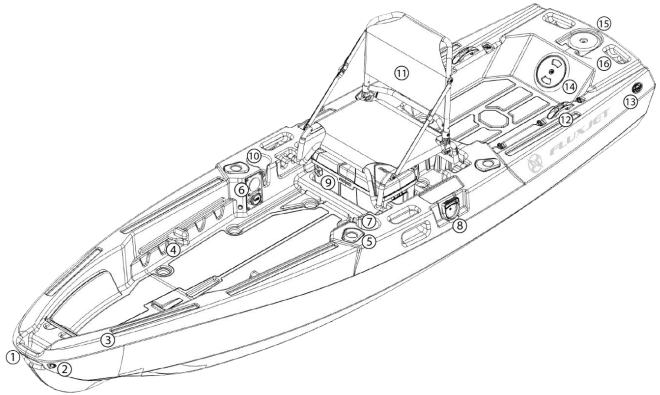
COMPONENT IDENTIFICATION

Refer to diagram on next pages for identification of:

• Seat assembly
• Foot steering pedals
• Throttle
• Jet intake
• Steering bucket
• Noco Battery Box
• Drain plug
• Rear 360° light
• Paddle holders

1	Front Grab handle
2	Bow Cover
3	Top Load Track
4	Foot Steering
5	Flush Mount Rod Holder
6	Electronics Plate (Battery Meter, Usb, light Switches)
7	Cup Holder
8	Throttle
9	Group 31 Noco Battery Box
10	Transducer Scupper
11	3600 Series Tackle Box Storage
12	3700 Series Tackle Box Storage
13	Rear Electronics Panel
14	Paddle Clips
15	Rear Hull Access
16	Drain Plug
17	Stern Accssory Mount
18	Turn Table Steering Plate
19	Rear Grab Handle
20	360 Light Port (supports Nocqua Usb - C Adapter)
21	KillSwitch





1	Front Grab handle
2	Bow Navigation Led Lights
3	Top Load Track
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6	Electronics Plate (Battery Meter, Usb, light Switches)
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9	Group 31 Noco Battery Box
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12	Paddle Clips
13	Drain Plug
14	Rear Hull Access
15	Turn Table Steering Plate
16	Stern Accssory Mount

PRE-USE INSPECTION

Perform the following checks before each outing to ensure safe operation and prevent equipment damage.

1. Inspect Hull
• Examine the hull for cracks, deformation, deep gouges, or impact damage.
• Verify no hardware is loose and no through-hull fittings show signs of leakage.

2. Confirm Drain Plug Installed
• Ensure the drain plug is securely installed and properly seated before launching.

3. Verify Battery Connections
• Confirm terminals are tight, clean, and free of corrosion.
• Ensure cables are secure and properly routed.

4. Confirm Voltage Compliance / 50a Continious Current Output
• Verify the battery system does not exceed the maximum rated system voltage (60V DC maximum).
• Operating above rated voltage may cause immediate electronic damage.

5. Inspect Jet Intake
• Check intake grate for debris, fishing line, rope, vegetation, or obstruction.
• A flashlight is useful to quickly verify the drive is clear.

6. Test Steering Pedals
• Confirm smooth pedal movement and full steering range without binding and the lines are properly routed into the rear turntable.

7. Verify Kill Switch Functionality
• Attach lanyard and briefly test that the system cuts power when the switch is disengaged.

8. Confirm Required Safety Equipment Onboard
• Ensure all required safety equipment is present and accessible, including approved personal flotation devices.

Do not operate the watercraft if any damage, abnormal resistance, electrical fault, or malfunction is observed.

Correct all issues before launching.

LAUNCHING PROCEDURE

Follow this procedure to ensure safe and proper system activation.

1. Install Drain Plug
• Verify the drain plug is securely installed before launching to prevent water intrusion.

2. Connect Battery
• Connect positive (+) terminal first, then negative (–) terminal.
• Ensure connections are tight and free of corrosion.

3. Verify Battery Breaker
• Confirm the battery box breaker is in the ON position and has not tripped.
• If the breaker has tripped, inspect the system before resetting.

4. Verify Throttle Position
• Confirm throttle is set to 0% (neutral) before powering the system.

5. Check Water Depth
• Launch only in sufficient water depth to fully submerge the jet intake.
• Do not activate propulsion in shallow water or where sand, rocks, or debris may be ingested.

6. Attach Kill Switch Lanyard
• Secure the kill switch lanyard to your life vest before engaging the propulsion system.

7. Power On & System Check
• Power on the system and verify normal response before applying throttle.

OPERATING INSTRUCTIONS

STARTUP

Power the system ON.

Confirm throttle is at zero before engaging propulsion.

Gradually advance the throttle lever to increase speed.

The throttle provides infinite variable control from 0% to 100%.

Always increase speed gradually to maintain stability and control.

Rapid throttle changes may reduce operator control and increase risk of capsizing/rollover.

STEERING

Steering is controlled entirely by the foot pedal system, which adjusts the steering bucket on the fixed jet thruster.

Apply steady pedal pressure to turn.

Reduce speed before sharp turns.

Avoid aggressive high-speed directional changes.

High-speed turning may reduce stability and increase rollover risk.

REVERSE

Reduced thrust.

No steering authority.

Always increase speed gradually.

CAPACITY & LOADING

Maximum Usable Capacity: 400 lbs

Distribute weight evenly.

Shift weight to the rear where necessary.

Keep heavy items low and centered.

Secure all gear.

TRANSPORTATION

Disconnect the battery before transport

ROOF RACK

• Support hull evenly
• Use bow and stern tie-downs
• Do not overtighten straps

TRAILER

• Use bunk-style support
• Avoid roller-only trailers

TRUCK BED

• Tailgate down (failure to follow this step may result in damage)
• Bed extender may be needed for short bed vehicle
• Cam Straps are recommended - ratchet straps can over tighten and cause damage

STORAGE

Sawhorses are not recommended for storage

SHORT-TERM (<2 WEEKS)

• Store out of direct sunlight
• Turn off the battery box breaker and remove the battery
• Loosen transport straps

LONG-TERM (>2 WEEKS)

• Store out of direct sunlight, indoors if possible
• Ensure the hull interior is fully dry
• Remove the battery
• Support the hull evenly, ideally on 16” on center Bunks 8’ in length with carpet wrap.
• Inspect the seals before next use (especially for very long-term storage)

You may stand the FluxJet upright on its stern, paying close attention to not damage the motor or steering components, and making sure the kayak can not fall over due to improper storage or bracing.

CLEANING

1. Remove and wipe down the battery box
2. Place the kayak in a safe, stable location
3. Make sure all hatches, connections, and openings are closed
4. Hose the outside of the kayak with fresh water
5. Tilt or flip the kayak to allow all water to drain out
6. If water has made it inside the hull of the kayak:
    a. Although all exposed components are water proof and internal components inside the kayak are water resistant; a clean and dry inside ensures proper long-term health of the FluxJet.
    b. Whether salt or freshwater is in the hull, start off by opening all hatches and draining any pooled water out of the hull
    c. Then take a rag and get it damp with freshwater and wipe all accessible internal areas of the hull, being careful not to damaging any internal wiring.
7. Leave the kayak with the hatches open in a dry area to allow any residual moisture to evaporate. Do not leave in direct sunlight.
8. Allow the kayak to dry fully, then store.

PERIODIC MAINTENANCE SCHEDULE

REQUIRED MAINTENANCE & OWNER RESPONSIBILITY

Routine inspection and maintenance are required to preserve performance, prevent premature wear, and maintain warranty eligibility.

The FluxJet propulsion system operates in high-load, high-moisture, and debris-prone environments. Failure to perform required maintenance may result in:

- Corrosion
- Impeller erosion
- Motor damage
- Controller damage
- Electrical failure

Damage resulting from neglect, sand intake, saltwater corrosion, improper storage, or failure to follow the maintenance schedule is not covered under warranty.

Saltwater operation requires increased maintenance frequency.

AFTER EACH USE

1. FRESH WATER RINSE

(Critical after saltwater operation)

For best results motor can be run on low power with a hose running low pressure into the rear of the jetpump. 1~2min is sufficient to flush salt from the drive unit.

• Thoroughly rinse hull, jet intake, and steering bucket with fresh water
• Spray intake area with low-pressure hose
• Do NOT use high-pressure spray directly into the jet housing, electronics or deck pads
• Rinse foot pedals and steering cables
• Rinse battery box exterior and surrounding compartment.

Salt residue If not removed will accumulate and can jam / damage critical components.

2. JET INTAKE & IMPELLER INSPECTION

• Visually inspect intake grate for debris
• Check for fishing line, rope, or vegetation entanglement

Do not operate with restricted rotation.

3. DRAIN & DRY

• Remove drain plug
• Fully drain hull
• Allow interior to dry before storage

Standing water accelerates corrosion and electrical degradation.

4. BATTERY & ELECTRICAL CHECK

• Inspect battery terminals for corrosion
• Inspect IP68 connectors for sand intrusion
• Ensure breaker on battery box is OFF during storage

The battery box is splash resistant - not waterproof.

Remove battery for long-term storage.

5. STEERING SYSTEM CHECK

• Confirm smooth pedal movement
• Check for fraying or wear on steering lines
• Ensure cables are tensioned evenly

QUARTERLY MAINTENANCE

(Or Every 40–80 Operating Hours)

1. JET ASSEMBLY INSPECTION

Remove the cover plate and intake grate to inspect the drive.

- Inspect composite impeller edges for chipping or erosion
- Check for scoring inside jet housing
- Confirm smooth shaft rotation

Sand and fine sediment accelerate wear.

2. GREASE INSPECTION

- Inspect grease condition
- Remove contaminated grease if milky or sandy
- Repack with marine-grade grease as required

Grease can be added with the drive fully installed but requires a specific Connector to prevent damage to the drive. The LockNLube XL connector. Available on Amazon here:

https://www.amazon.com/LockNLube-Grease-Gun-Coupler-XL/dp/B06Y2GBFFT

3. ELECTRICAL SYSTEM INSPECTION

- Inspect all accessible connectors
- Confirm no corrosion is present at terminals
- Verify all panel mounting Screws are tight
- Inspect wiring harness for chafing

Salt intrusion is cumulative — early detection matters.

4. STEERING CABLE TENSION

- Inspect steering lines for stretch or wear
- Confirm symmetrical pedal response
- Adjust tension if needed

5. THROUGH-HULL INSPECTION

- Inspect battery hookup penetration
- Inspect electronics panel seal
- Inspect spare electronics plate seal (opposite electronics panel)

Look for:
- Cracking
- Seal shrinkage
- UV degradation

ANNUAL MAINTENANCE

(Or Every 300 Operating Hours)

1. FULL JET ASSEMBLY INSPECTION

• Inspect internal housing for scoring
• Inspect composite impeller balance and wear
• Inspect shaft alignment

If impeller shows significant impact damage or vibration, replace.

2. MOTOR INSPECTION (MANUFACTURER SERVICE RECOMMENDED)

The motor is made and serviceable by FluxJet Kayaks.

Annual recommendation, especially for heavy saltwater users:

• Internal inspection
• Bearing evaluation
• Shaft inspection

Motor can easily be removed and sent separate from kayak to save on shipping costs.

3. SPEED CONTROLLER INSPECTION

• Verify speed controller behind the seat remains mounted above the bilge line
• Inspect casing for corrosion or moisture intrusion
• Confirm cooling pathways are clear

Water-cooled electronics rely on clean flow and an intact housing.

4. HULL STRUCTURAL INSPECTION

• Inspect rotomolded HDPE for deformation
• Inspect through-hulls for stress cracks
• Inspect mounting inserts

Heat and UV exposure can cause long-term hull fatigue.

EXTREME USE SCHEDULE

If operating in:	Then:
• Beach surf launches • Sand-bottom shallows • Heavy saltwater environments • Marsh mud • Tournament-level usage	• Perform freshwater rinse immediately after use • Perform jet inspection every 10–15 hours • Inspect impeller monthly

Excessive sand intake is the #1 long-term degradation factor.

BEARING MAINTENANCE

The FluxJet propulsion system requires periodic bearing lubrication, particularly when operated in saltwater environments.

Lubrication must be performed at a minimum of:

• Every 30 trips in freshwater
• Every 20 trips in saltwater
• Before storage exceeding 10 days

Failure to maintain proper lubrication may result in premature bearing wear or damage.

TOOLS REQUIRED

• Grease gun with flexible hose and long-reach coupler
• Compatible marine-grade grease cartridge for your grease gun

Attach the flexible hose and long-reach coupler to the grease gun, and install the marine grease cartridge.

Marine-grade grease is available at most marine supply or outdoor retailers. Ensure the cartridge is compatible with your grease gun prior to installation.

GREASE APPLICATION PROCEDURE

1. Position the kayak on a truck bed, stand, or trolley with the rear elevated to allow clear access to the jet nozzle area.
2. Purge air from the grease gun by gently squeezing the trigger until a small amount of grease appears at the coupler tip.
3. Wipe away any debris which attached to the grease during storage.
4. Thread the coupler in through the steering bucket to the zerk fitting (grease nipple) on the drive housing.
5. Slowly apply no more than two (2) pumps of grease.

Important: Rapid over-greasing may cause excessive internal pressure and can dislodge the grease cap, potentially resulting in severe component damage.

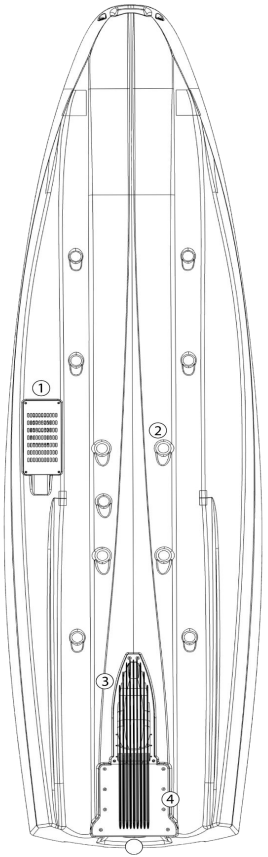
WARRANTY NOTE

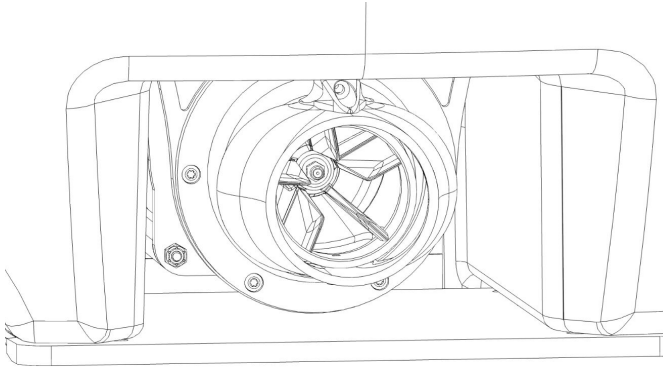
Failure to perform routine maintenance, especially after saltwater exposure, may result in:

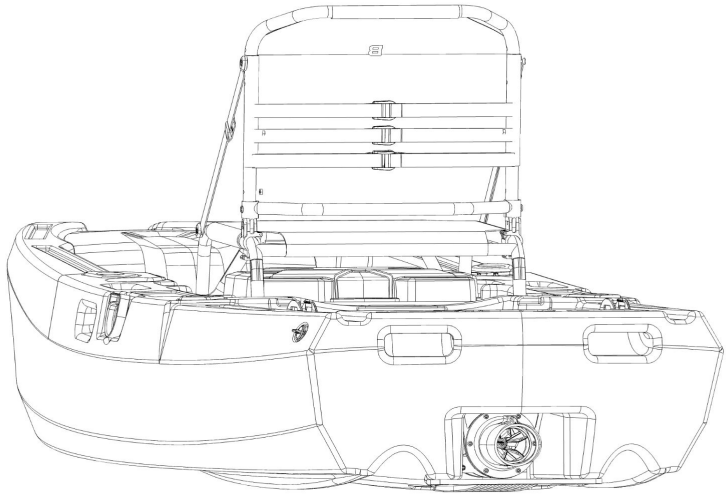
• Corrosion-related damage
• Electrical degradation
• Jet assembly scoring

Damage resulting from neglect is not covered under warranty.

1	Transducer Cover Plate
2	Scupper
3	Intake Grate
4	Ride Plate
5	Stern Lower Grab Handle







CART/TRAILER BUNK REQUIREMENTS

Proper trailer setup is required to prevent hull deformation and structural damage.

Use of the incorrect style of kayak cart/trailer can cause structural damage to the FluxJet that is not covered by warranty.

BUNK SPACING

Trailer bunks must be spaced 16 inches (406 mm) center-to-center.

Incorrect spacing may cause uneven load distribution and permanent hull deformation.

RECOMMENDED BUNK MATERIALS

The following bunk configurations are recommended:

• A fit-for-purpose kayak cart the same style as the FluxJet Kayak Cart,
• A 3–4 inch diameter PVC pipe wrapped in marine-grade carpet, or
• Pressure-treated 2x4 lumber fully wrapped in marine-grade carpet

TROUBLESHOOTING

Motor Will Not Power On:

1. Verify battery breaker is not tripped or open
2. Ensure magnetic kill switch lanyard is attached to kayak
3. Make sure the throttle is centered, sweep slightly across center to reverse and retry. The throttle has a safety feature that requires center 4% +/- to activate.
4. Verify plug from battery box to kayak is secured
5. Verify battery is securely connected inside battery box
6. Verify battery has charge
7. Verify voltage is within 12–60V

Reduced Performance:

• Inspect intake for debris
• Verify battery output

Water in Hull:

• Check hatch covers are secured
• Check drain plug is firmly closed
• Inspect seals

REGULATORY COMPLIANCE (U.S. COAST GUARD)

The FluxJet kayak is classified as a recreational vessel under U.S. Coast Guard regulations.

When equipped with electric propulsion, it remains subject to applicable federal, state, and local boating laws.

Owner is responsible for:

- Registration (if required by state)
- Required safety equipment
- Navigation lights when required
- Compliance with local motorized waterway restrictions

This vessel is not rated for offshore heavy weather use.

REGISTRATION

FluxJet Kayak ownership is registered to the Billing Name associated with the purchase.

It is the owner's responsibility to ensure that FluxJet Kayaks is provided updated contact information including email and phone number to ensure that the owner is kept informed about warranty, recall or technical updates.

LIMITED WARRANTY

COVERAGE PERIOD

Non-transferable two (2) years from collection/delivery date

INCLUDES

- Structural hull defects
- Factory-installed propulsion components

EXCLUDES

- Impact damage
- Debris intake
- Corrosion from improper cleaning and maintenance
- Improper battery installation
- Over-voltage damage
- Unauthorized modification
- Normal wear components
- Commercial or rental use

Liability is limited to repair or replacement at FluxJet's discretion.

Proof of purchase may be required.