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QUICKSTART GUIDE	M6102505
M-SERIES ELECTRIC OUTBOARD MOTORS	

Congratulations on your purchase of a Momentum electric outboard motor.

We started Momentum to create the best user experience possible in electrified marine propulsion and we are sure you will enjoy using the outboard as much as we have enjoyed creating it.

Please read this manual comprehensively as it contains crucial information on set-up, operation, maintenance and safety. By using this Momentum electric outboard motor, it is deemed that you have read and understood the contents of this user guide and Momentum accepts no liability in the event of misuse of this product.

We reserve the right to update this User Guide in-line with any evolution of this product.

Please visit our website for the latest version of this user guide.



www.momentumelectricmarine.com

WARNING

Operate the outboard only when the propeller is in the water. Operating the outboard with the propeller out of the water may damage the shaft seals and/or result in overheating of the motor.

Protect the battery from immersion in water, extended exposure to sunlight and physical impact and shocks.

Do not use or charge a defective or damaged battery, e.g. cracked case, battery display does not light up

Do not use connectors that are wet or corroded.

IN THE BOX

Outboard with Propeller

3M Power/Data Cable

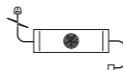
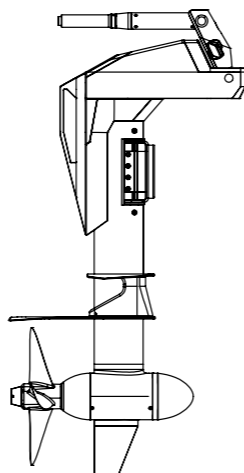
M-series Mount

Charger

Killswitch

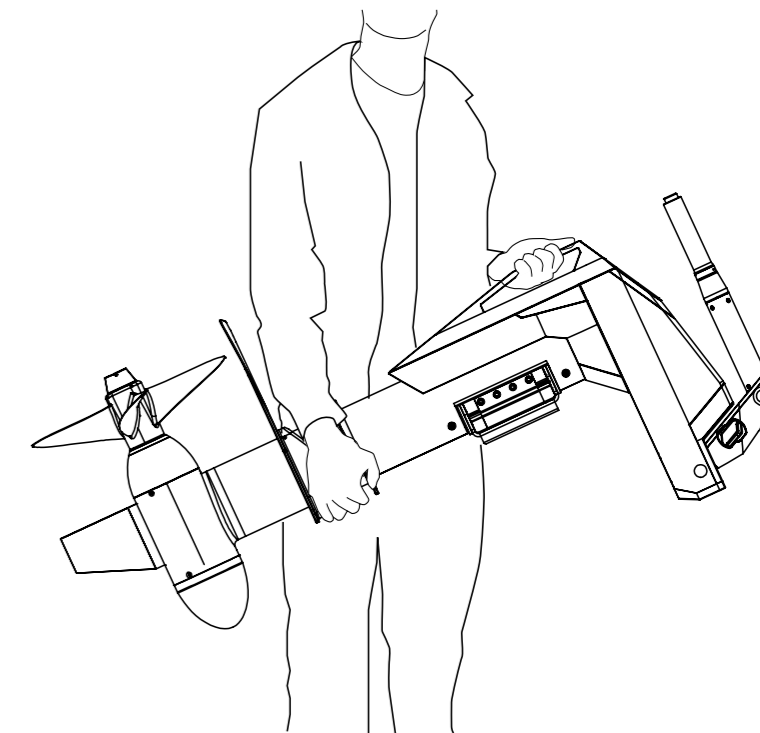
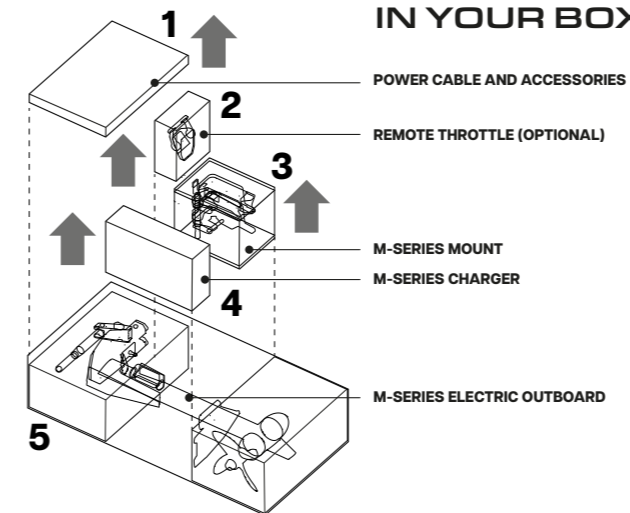
Prop Tool

User Guide/ Warranty Card



QUICK START GUIDE

IN YOUR BOX



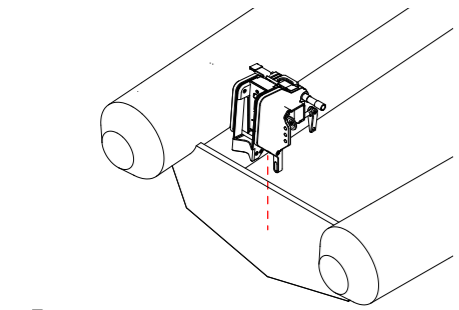
Unpacking

By now you would have likely unpacked your new Momentum electric outboard motor, but if you are reading this ahead of time, follow the unpacking sequence as illustrated above.

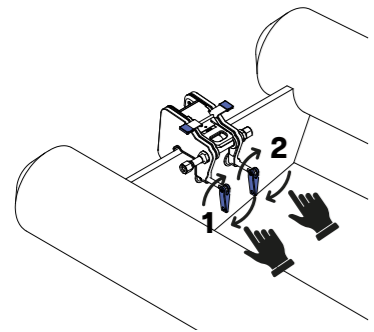
Carrying and handling your outboard motor

We have designed the M-series system to be as user-friendly as possible.

Our outboard can be carried by a single user and it is recommended that you handle it as shown above, with one hand holding the integrated handle and one hand on the stem.



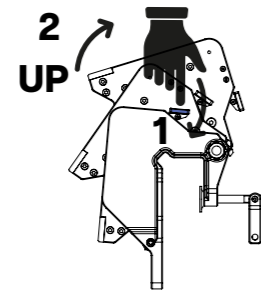
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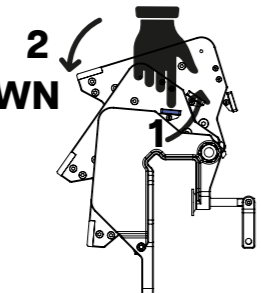
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Installing the mount

In single outboard use applications, install the mount dead-centre to the transom of your boat as shown in the diagram above and secure the mount clamps to the transom with hand tightness.



1



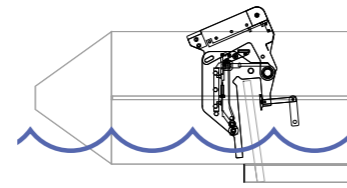
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Installing the outboard motor

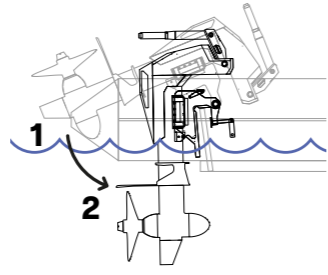
Keep hands and fingers clear of moving parts when tilting the mount

1,2 - Press down on the trim lever to tilt the mount to the highest position to receive the outboard.

3 - With the outboard inside the boat, secure the outboard safety line to a fixed point in the boat before installing it. Aim the dovetail mount into the tapered receiver of the mount until you hear a positive click.



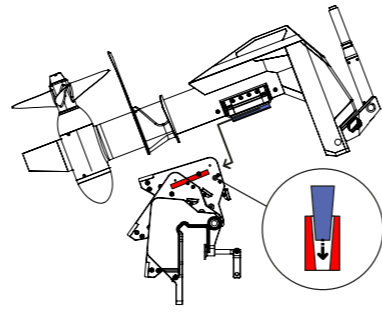
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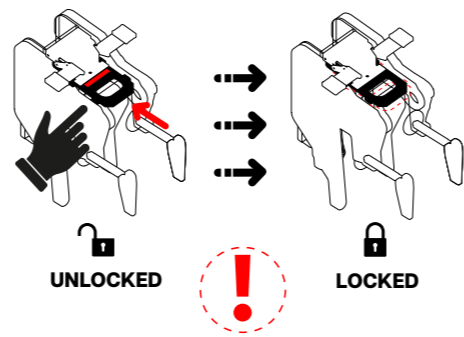
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4,5 - Press down on the trim lever to lower the outboard into the water.

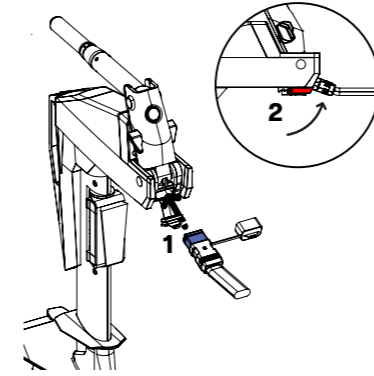
6 - Important! -Lock the outboard to the mount by pushing in the locking handle as shown in the diagram.



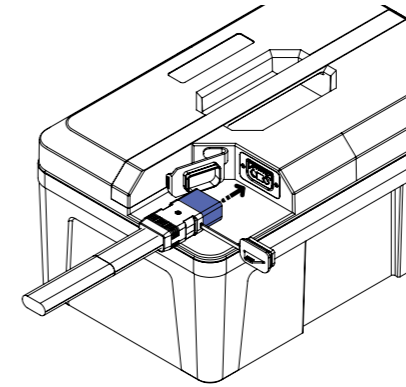
3



6 LOCK WHEN OBM IS INSTALLED!



1 CONNECT OBM FIRST



2 CONNECT BATTERY AFTER

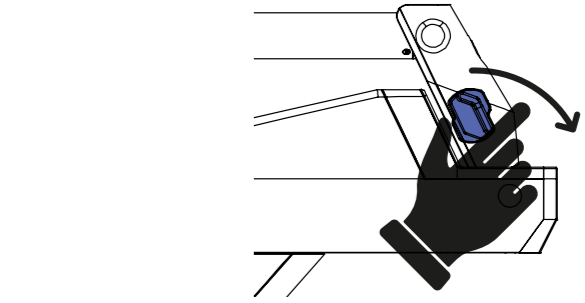
! ENSURE THAT CONNECTORS ARE FULLY INSERTED

Connecting the power cable

Check that the outboard is free to turn to hard port and starboard without any obstruction to the cable.

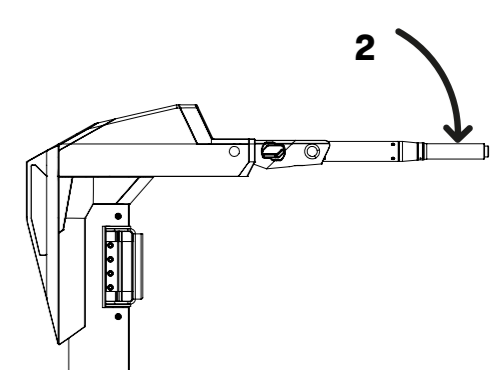
Do not use connectors that are wet or corroded

1,2 - Connect the cable into the outboard first, then to the battery. Push the connector in until it is fully inserted.



1

POSITION 1

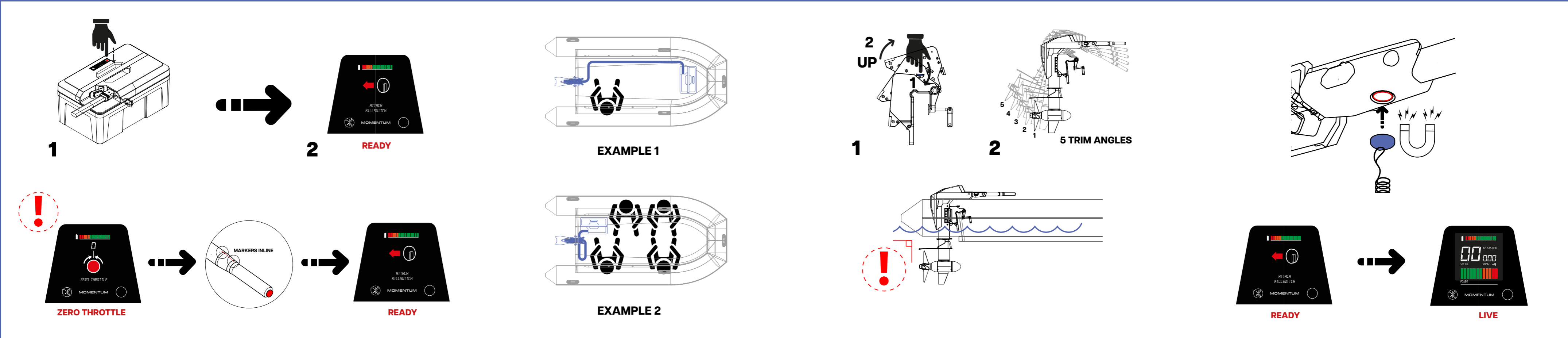


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POSITION 2

Deploying the in-built tiller

Twist the knob on the mid-tiller to unlock the tiller and adjust to preferred angle. The tiller locks at 2 positions.



Powering the system

Always set the throttle to zero before powering the system.

Check that safety button can be depressed and springs back when released.

Press the on/off button on the battery until the battery display turns on. The display on the outboard will also turn on at the same time and will show the READY screen.

If the ZERO THROTTLE screen is shown, perform the following steps to zero the throttle.

Setting the throttle to zero

Loosen the throttle friction lock until the throttle springs back to zero. The return should happen automatically and the markers on the throttle will be aligned.

Before setting off

Boat Balance

Balance the boat by positioning the battery, passengers and other items on board the boat to achieve a suitable and safe boat trim.

Trim Angle Adjustment

Stop the boat before making any trim adjustments to ensure safe handling

The outboard should be adjusted to one of the five different trim positions to suit the boat and running conditions, e.g. number of people in the boat, sea condition, boat type etc.

To trim the outboard, press down on the trim lever, then press down on the tiller to rotate the outboard.

Attaching the killswitch

Secure the killswitch leash to your wrist or life jacket.

Once ready to make way, attach the killswitch to the red ring below the mid-tiller.

The screen will switch from the READY screen to the LIVE screen.

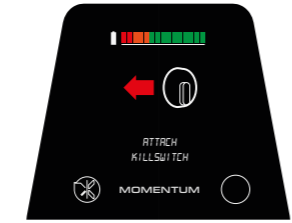
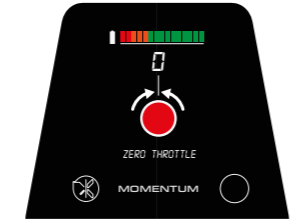
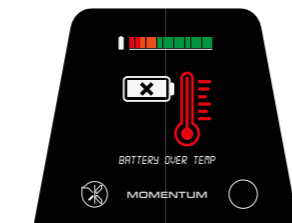
IMPORTANT NOTES

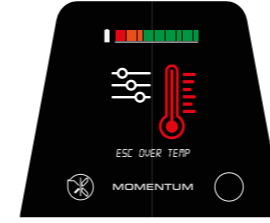
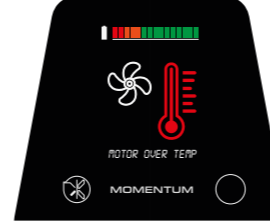


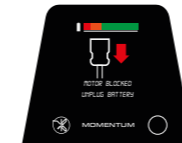
- Only use the Momentum charger to charge the battery.
- Always store and charge the battery in a cool, dry and well-ventilated environment, away from flammable materials.
- Disconnect the charger from the battery when not in use.
- Raise the outboard motor above the water when not in use.
- Do not leave the outboard in the water if the boat speed reaches 5 km/h (3 kts), when the boat is propelled by other means such as sailing or towing.
- Wash the outboard with freshwater after each use in salt water.
- Clean all electronic contacts with contact spray every two months, or as necessary.
- Inspect the anodes on the outboard before each use and replace them as required.
- Ensure the top of the outboard is uncovered to avoid GPS signal attenuation.
- Do not attempt to disassemble the outboard or battery, except to install/ remove the propeller and anodes. If other assembly or disassembly is required, please contact your dealer.
- Momentum accepts no liability for any damage or malfunction caused by operations that violate this manual.

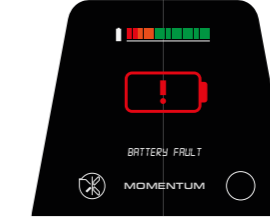
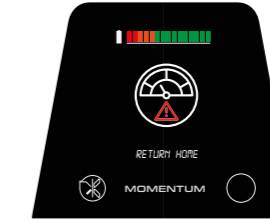
TROUBLESHOOTING

A fault/warning message(s) will appear on the display in the event of an outboard/ battery fault or warning.

Return the throttle to zero and remove the killswitch before referring to the following table for details and solutions. The outboard will shut down when the temperature of the motor or battery exceeds the limits or the battery voltage drops too low during operation.

Warning / Fault Message	Likely Cause	Solution
	Killswitch is not placed on tiller or remote throttle	<ul style="list-style-type: none"> • Attach killswitch on tiller or remote throttle
	Throttle has been turned to or held in forward/ reverse direction	<ul style="list-style-type: none"> • Take hand off throttle or loosen throttle friction ring
	Battery cells or BMS temperature has exceeded limit	<ul style="list-style-type: none"> • Stop use of battery • Inspect for physical damage or deformation • Ensure that battery is in a well-ventilated area and ambient temperatures are between the recommended values • Contact your dealer for support

	Electronic Speed Controller (ESC) temperature has exceeded limit	<ul style="list-style-type: none"> • Stop use of motor • Ensure that front end of the motor is free from obstruction and fully immersed in the water • Wait for message to disappear after ESC has cooled down • If message reappears after resuming operation, contact your dealer
	Motor temperature has exceeded limit	<ul style="list-style-type: none"> • Stop use of motor • Ensure that mid-section of the motor is free from obstruction and fully immersed in the water • Check that boat is not overloaded or underpowered • Wait for message to disappear after motor has cooled down • If message reappears after resuming operation, contact your dealer
	Motor torque demand has exceeded limit	<ul style="list-style-type: none"> • Ensure that outboard is safe to handle
		<ul style="list-style-type: none"> • Remove killswitch
		<ul style="list-style-type: none"> • Turn off the battery, then disconnect battery from outboard motor • Raise outboard to maximum angle • Inspect propeller and shaft for entanglement with rope/ fishing net/sea weed/etc. • Check that propeller can be rotated freely by hand before resuming operation

	Battery fault, excluding high temperature	<ul style="list-style-type: none"> • Stop use of battery • Inspect for physical damage or deformation • Contact your dealer for support
	Battery level < 20%	<ul style="list-style-type: none"> • Review voyage plan and return to home or operate at reduced speed in a safe manner

