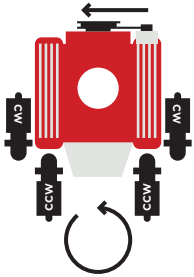


TECH TIP

HOW TO DETERMINE THE CORRECT STARTER ROTATION

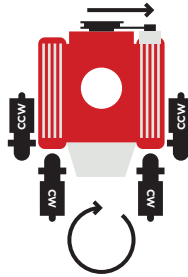
LEFT HAND ENGINE ROTATION



This is the most common engine rotation found on today's marine engines. This is the same rotation as automotive engines. Use these charts to determine the correct starter rotation needed.

Engine Rotation Viewed From The Flywheel End

RIGHT HAND ENGINE ROTATION



This is not very common on today's marine engines. This is the opposite rotation of automotive engines.

Engine Rotation Viewed From The Flywheel End

IMPORTANT CHECK POINTS

Worn Out Battery

Batteries cause more trouble than any other component in a marine electrical system.

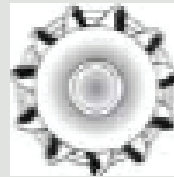
Always make sure the battery is completely charged and load tested before replacing other components.

Loose Connections

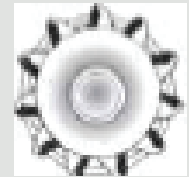
Be sure to check all the terminals and connections and make sure they are clean and tight.

High Resistance

This is a very common problem found in marine electrical systems. Corrosion, undersized wire, or bad connections will cause low voltage to the electrical components. Low voltage causes high heat and will destroy electrical devices. Be sure to check for voltage drops.



Clockwise Rotation



Counter Clockwise Rotation

Another way to determine the starter rotation is to inspect the chamfer on the starter drive gear. The bevel will always be on the trailing edge.

Incorrect Wiring

Incorrect wiring can cause burnouts. Always tag the wires when removing an electrical component. **If you are not sure how to connect the wires call our technical department toll free at 800-722-2720.**

Loose Battery Clamps

Cable terminals must be tight. If the ends of the clamps touch at the top, disconnect the cable clamps and shave the ends of the clamp jaws with a file so there is a gap.

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