

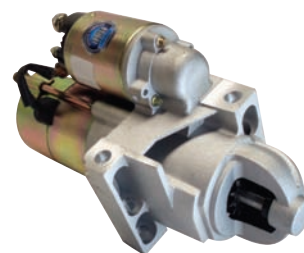
ELIMINATE THE CONFUSION!

Starter Application Guide for Inboard & I/O Marine Engines Using GM Blocks . . .

BOTTOM MOUNT APPLICATION (continued)

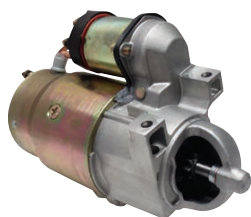
14" Flywheel "Standard" Rotation Engines

Late GM blocks using a 14" flywheel with "standard rotation" use API Marine starter #10095 or #10099. Late style Delco PMGR starters with staggered-bolt pattern use API #BK95 which includes 2 long bolts to mount starter to block. These starters weigh approximately 10 lbs. and are used on 6 and 8 cylinder engines. They are used on Mercruiser, OMC, Volvo & other marine engines.



12.75" Flywheel "Reverse" Rotation Engines

Older GM blocks using a 12.75" flywheel with "reverse rotation" use API Marine starter #10064LH. Early style Delco 10MT starters with straight-bolt pattern use 1 long bolt and 1 short bolt to mount starter to block. These starters weigh approximately 21 lbs.



Most late model boats reverse the prop shaft rotation in the transmission AND NOT in the engine. Because of this, use API Marine starter #10096 (new) on late GM blocks using a 12" flywheel with "reverse rotation."



14" Flywheel "Reverse" Rotation Engines

Older GM blocks using a 14" flywheel with "reverse rotation" use API Marine starter #10071LH. Early style Delco 10MT starters with staggered-bolt pattern use 2 long bolts to mount starter to block. These starters weigh approximately 21 lbs.



Most late model boats reverse the prop shaft rotation in the transmission AND NOT in the engine. Because of this, use API Marine starter #10095 or #10099 on late GM blocks using a 14" flywheel with "reverse rotation."



3.0L Vortec Engines with 14" Flywheel

Late model 3.0L Vortec Engines with a One Piece Rear Main Seal have a 14" Flywheel and use a New API Marine Starter #10099.



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TOP MOUNT APPLICATION

Many marine engines mount the starter on top of the engine in back of the bell housing. Standard rotation GM engines using a top mount starter use API Marine starter #10059LH and GM blocks with “reverse rotation” use API Marine starter #10059.

API Marine offers four styles of new Top Mount Starters:

API Marine 10MT Delco Style

High Torque
Weight: 23 lbs.
API #10059 C.W. Rotation
#10059LH C.C.W. Rotation



Delco Remy 14MT

High Torque
Weight: 21 lbs.
API #10059SP C.W. Rotation
#10059SPLH C.C.W. Rotation



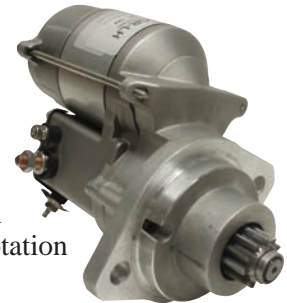
Delco Gear Reduction Style

High Torque
Weight: 10 lbs.
API #10059DRPGLH
C.C.W. Rotation



API Marine

Denso Gear Reduction Style
High Torque
This is the premier of
the top mount starters
Weight: 10 lbs.
API #10059 ND C.W. Rotation
API # 10059NDLH C.C.W. Rotation



Tech Tips & Important “Need-to-Know” Information . . .

- **Check Batteries:** “Always make sure batteries are fully charged and load tested. Defective and/or inadequate batteries are one of the most common causes of problems in marine electrical systems!”
- **Check Connections:** “Be sure all connections and terminals are tight and clean. Also, battery cable terminals need to be tight and should have a gap between the top of the terminal and the side of the clamp!”
- **Check Wiring:** “Remember to always tag wiring when removing any electrical unit. Also, feel the lines for soft spots. Soft spots usually indicate the wire is corroded and needs to be replaced!”
- **Check for High Resistance:** “Be sure to check for voltage drops. Low voltage will ruin your electrical components and shorten the life of a battery!”