

service bulletin

NUMBER: 85-19

NOTICE
This Bulletin Supercedes
Bulletin 83-20.

CIRCULATE TO:
SERVICE MANAGER
PARTS MANAGER
MECHANICS
"Place in a Service
Bulletin Binder"

HIGH ELEVATION GEAR RATIO RECOMMENDATIONS FOR MERCRUISER MCM 120MR-thru-260MR MODELS

ACAUTION

Under no circumstances should a high elevation gear ratio be used on boats that will be operated at elevations below those specified on chart, as damage to drive unit may result. Damage resulting from the use of the improper gear ratio will not be covered by the MerCruiser Warranty.

Boats which are operated at 3500 ft. (1067m) or above may require an alternate gear ratio to compensate for horsepower losses caused by the high elevation. (Refer to chart following for recommendations.)

The alternate gear ratios should improve performance and acceleration by allowing the use of 17", 19" and 21" pitch propellers on most boats. These propellers are more efficient than the 11", 13" and 15" pitch propellers that would otherwise be required if standard gear ratio was used. An alternate gear ratio that requires the use of a 23" or 25" pitch propeller should never be used.

If an alternate gear ratio is installed, the stern drive unit drive shaft housing MUST BE remarked to indicate the appropriate gear ratio. In addition, a Caution Decal, SIS-853 (shown below) MUST BE affixed to a visible location on the dash. This decal alerts the owner that his stern drive unit is equipped with an alternate gear ratio and that the gear ratio must be changed if the boat is to be operated at lower elevations. Contact your Regional Service Center to obtain these decals.

ACAUTION

The MerCruiser Stern Drive on this boat is equipped with a gear ratio and/or propeller selected to optimize performance at higher elevations [above 3500 ft. (1067m.)]. It boat is to be operated at lower elevations, the gear ratio and/or propeller MUST BE changed. Contact your MerCruiser Servicing Dealer for details.

Failure to change gear ratio and/or propeller could result in engine damage from overspeeding. Drive unit damage also may result if gear ratio is not changed. Mercury Marine warranty is void on parts damaged as a result of incorrect gear ratio or propeller selection.

\$15-853 1-283

Neccury Mainte Division of Brunswick Core Fond du Litt WI 14931 U.S.A.

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HIGH ELEVATION DRIVE UNIT GEAR RATIO RECOMMENDATIONS

Elevation	3500-6000 (Feet)		6000 and Above (Feet)	
Boat Length	Up to 19'	19' and Above	Up to 19'	19' and Above
120MR w/1.98	No Change	\longrightarrow		
140MR w/1.98	No Change	\longrightarrow		
170MR w/1.84	No Change	\longrightarrow	\longrightarrow	- 1.98:1
190MR w/1.84	No Change	\longrightarrow	\longrightarrow	- 1.98:1
*185MR w/1.84	No Change			1.98:1

^{* 229} Cu. In. & 262 Cu. In.

Boat Length	<u>Up to 21'</u>	21' and Above	Up to 21'	21' and Above
200MR w/1.65	No Change		1.84;1	1.84:1
205MR w/1.65	No Change	\longrightarrow	1.84:1	1.84:1
230MR w/1.50	No Change	1.65:1	1.84:1	1.84:1
260MR w/1.50	No Change	1.65:1	1.65:1	1.84:1