

NUMBER: 85-20

CIRCULATE TO:  
SERVICE MANAGER   
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MECHANICS   
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**NOTICE**

**This Bulletin Supercedes Information  
in Bulletin 83-14.**

**Subject:** MerCruiser I Drive Shaft Housing Gear Identification

Use the following chart when servicing MerCruiser I drive shaft housings to determine which gear ratio and gear set is being used and the shimming tool requirements.

- It should be kept in mind, that more than one gear set has been used on many of the models.
- DO NOT rely on the gear ratio stamped into the housing, as a different gear ratio may have been installed without the housing being remarked.

## DRIVE SHAFT HOUSING GEAR SPECIFICATIONS

MerCruiser Model	D.S.H. Gear Teeth No. (Drive/ Driven)	D.S.H. Gear Set Part No.	Overall Drive Gear Ratio	Drive Gear Shimming Tool No. (and Position)	Driven Gear Shimming Tool No. (and Position)
60-80	11/11	43-38122A2 or 43-55427A1	60-1.64:1  80-2:1	91-36763	91-38764
90	11/11	43-55427A1	2:1	91-36763	91-38764
I	21/28	43-33538A1	2:1	91-33487 or 91-36385 ("MC-I")	91-33488
IA (EZ and NON-EZ)	21/23	43-36342A1	1.84:1	91-36385 ("A-B")	91-36384 ("A")
	20/24	43-45615A2 (NOTE 1)	1.98:1	91-45878 ("X", "120" or "B") or 91-60523 ("X")	91-45877 ("120" or "B") or 91-60526 ("Y")
IB (EZ and NON-EZ)	20/24	43-36219A1	2.01:1	91-36385 ("A-B")	91-36384 ("B")
		43-45615A2 (NOTE 1)	1.98:1	91-45878 ("X", "120" or "B") or 91-60523 ("X")	91-45877 ("120" or "B") or 91-60526 ("Y")
IC (EZ and NON-EZ)	24/24	43-35994A2	1.68:1	91-36385 ("C")	91-36384 ("C")
		43-45569A2 (NOTE 1)	1.68:1	91-45878 ("Y", "160" or "C") or 91-60523 ("Y")	91-45877 ("160" or "C") or 91-60526 ("X")
120/140 (S/N 2791956 and Below) NOTE 2	20/24	43-45615A2	1.98:1	91-45878 ("X", "120" or "B") or 91-60523 ("X")	91-45877 ("120" or "B") or 91-60526 ("Y")
120/120R/ 120MR/140/ 140R/140MR (S/N 2791957 and Above) NOTE 2	20/24	43-55766A2	1.98:1	91-60523 ("Y")	91-60526 ("Y")
160	24/24	43-45569A2	1.68:1	91-45878 ("Y", "160" or "C") or 91-60523 ("Y")	91-45877 ("160" or "C") or 91-60526 ("X")
165	24/24 Standard	43-55765A2	1.65:1	91-60523 ("Y")	91-60526 ("X")
	17/19 High Elevation (NOTE 3)	43-75324A2	1.84:1	91-60523 ("Y")	91-60526 ("Y")
	20/24 High Elevation (NOTE 3)	43-55766A2	1.98:1	91-60523 ("Y")	91-60526 ("Y")

470/470R/ 170MR/485/ 488R/190MR/ 185R/185MR	17/19 Standard	43-75324A2	1.84:1	91-60523 ("Y")	91-60526 ("Y")
	24/24 Optional	43-55765A2	1.65:1	91-60523 ("Y")	91-60526 ("X")
	20/24 High Elevation (NOTE 3)	43-55766A2	1.98:1	91-60523 ("Y")	91-60526 ("Y")
888/898/ 898R/225-S/ 228/228R/ 230MR	22/20 Standard	43-59832A2	1.50:1	91-60523 ("Z")	91-60526 ("Z")
	24/24 Standard & High Elevation (Note 3 & 4)	43-55765A2	1.65:1	91-60523 ("Y")	91-60526 ("X")
	17/19 High Elevation (NOTE 3)	43-75324A2	1.84:1	91-60523 ("Y")	91-60526 ("Y")
200MR/ 205MR	24/24 Standard	43-55765A2	1.65:1	91-60523 ("Y")	91-60526 ("X")
	22/20 Optional	43-59832A2	1.50:1	91-60523 ("Z")	91-60526 ("Z")
	17/19 High Elevation (NOTE 3)	43-75324A2	1.84:1	91-60523 ("Y")	91-60526 ("Y")
	20/24 High Elevation (NOTE 3)	43-55766A2	1.98:1	91-60523 ("Y")	91-60526 ("Y")
233/250/260/ 260R/260MR/ 300MR	20/16 (NOTE 5)	43-66773A2	1.32:1	91-60523 ("Z")	91-60526 ("Z")
	22/20 (NOTE 5)	43-59832A2	1.50:1	91-60523 ("Z")	91-60526 ("Z")
	24/24 High Elevation (NOTE 3)	43-55765A2	1.65:1	91-60523 ("Y")	91-60526 ("X")
	17/19 High Elevation (NOTE 3)	43-75324A2	1.84:1	91-60523 ("Y")	91-60526 ("Y")

NOTE 1: Drive units with this gear set will not have shock absorbers.

NOTE 2: If serial number is not available, use the following means to categorize 120/140 drive unit:

- On units with Serial Number 2791956 and below, driven gear is attached to upper drive shaft with a nut
- On units with Serial Number 2791957 and above, driven gear has a press fit on upper drive shaft (no nut)

NOTE 3: For high elevation gear ratio recommendations, contact your Mercury Marine Regional Service Center.

NOTE 4: Newer production MerCruiser 898R models are equipped with this ratio as standard.

NOTE 5: MerCruiser 233, 250, 260 and 260R models could be equipped with either the 1.50:1 or 1.32:1 ratio.