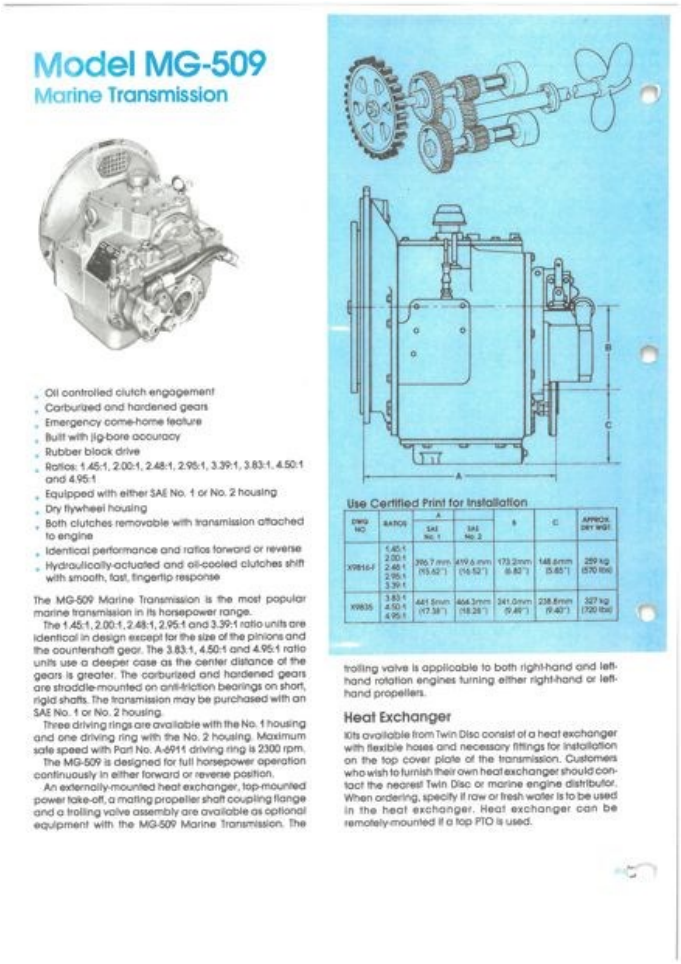
GEAR

GB2297-M - Twin Disc

STATUS	På lager
REF. NR.	GB2297-M
MANUFACTURE	Twin Disc
TYPE	MG 509
RED.	2,00:1
HP IND	325
RPM IND	2100
FABRIKS NR.	Serie 5BP438 Bom. 37213



Model MG-509
Marine Transmission

- Oil controlled clutch engagement
- Carburized and hardened gears
- Emergency come-home feature
- Built with jig-bore accuracy
- Rubber block drive
- Ratios: 1.45:1, 2.00:1, 2.48:1, 2.95:1, 3.39:1, 3.83:1, 4.50:1 and 4.95:1
- Equipped with either SAE No. 1 or No. 2 housing
- Dry flywheel housing
- Both clutches removable with transmission attached to engine
- Identical performance and ratios forward or reverse
- Hydraulically-actuated and oil-cooled clutches shift with smooth, fast, fingertip response

The MG-509 Marine Transmission is the most popular marine transmission in its horsepower range.

The 1.45:1, 2.00:1, 2.48:1, 2.95:1 and 3.39:1 ratio units are identical in design except for the size of the pinions and the countershaft gear. The 3.83:1, 4.50:1 and 4.95:1 ratio units use a deeper case as the center distance of the gears is greater. The carburized and hardened gears are straddle-mounted on anti-friction bearings on short, rigid shafts. The transmission may be purchased with an SAE No. 1 or No. 2 housing.

Three driving rings are available with the No. 1 housing and one driving ring with the No. 2 housing. Maximum safe speed with Part No. A-6911 driving ring is 2300 rpm.

The MG-509 is designed for full horsepower operation continuously in either forward or reverse position.

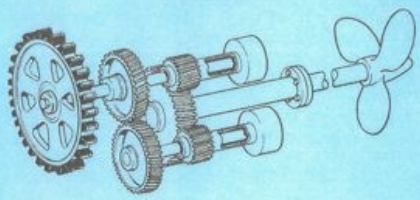
An externally-mounted heat exchanger, top-mounted power take-off, a mating propeller shaft coupling flange and a trolling valve assembly are available as optional equipment with the MG-509 Marine Transmission. The trolling valve is applicable to both right-hand and left-hand rotation engines turning either right-hand or left-hand propellers.

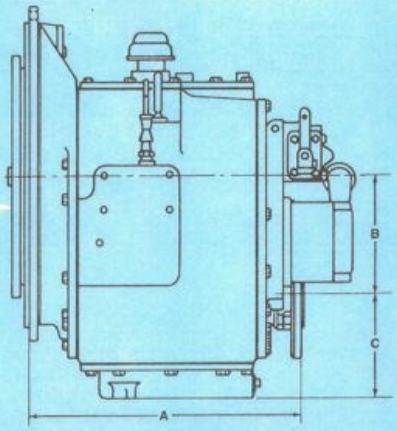
Use Certified Print for Installation

DWG NO	RATIOS	A SAE No. 1	A SAE No. 2	B	C	APPROX. DRY WGT.
X9816-F	1.45:1 2.00:1 2.48:1 2.95:1 3.39:1	396.7 mm (15.62")	419.6 mm (16.52")	173.2 mm (6.82")	148.6 mm (5.85")	259 kg (570 lbs)
X9835	3.83:1 4.50:1 4.95:1	441.5 mm (17.38")	464.3 mm (18.28")	241.0 mm (9.49")	238.8 mm (9.40")	327 kg (720 lbs)

Heat Exchanger

Kits available from Twin Disc consist of a heat exchanger with flexible hoses and necessary fittings for installation on the top cover plate of the transmission. Customers who wish to furnish their own heat exchanger should contact the nearest Twin Disc or marine engine distributor. When ordering, specify if raw or fresh water is to be used in the heat exchanger. Heat exchanger can be remotely-mounted if a top PTO is used.





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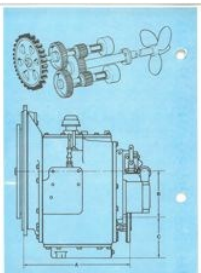

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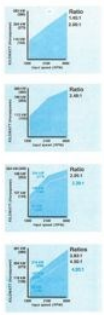
Continuous Duty



Intermediate Duty

Pleasure Craft (Planing Hull)

IMPORTANT NOTICE

Disregarding propulsion system torsional compatibility could cause damage to components in the drive train resulting in loss of mobility. At minimum, system incompatibility could result in gear clatter at low speeds.

The responsibility for ensuring that the torsional compatibility of the propulsion system is satisfactory rests with the assembler of the drive and driven equipment.

Torsional vibration analyses can be made by the engine builder, marine survey societies, independent consultants and others. Twin Disc is prepared to assist in finding solutions to potential torsional problems that relate to the marine transmission.

For Service Classification Definitions see back cover.