

Twin Disc - MG 509

STATUS	På lager
REF. NR.	GB804
MANUFACTURE	Twin Disc
TYPE	MG 509
RED.	2,00:1
HP IND	325
RPM IND	2100
FABRIKS NR.	Serie 5M9901 Spec. 34004
VESSEL	Vos siren

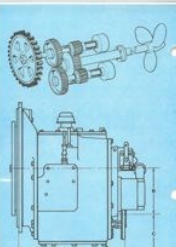




Model MG-509 Marine Transmission



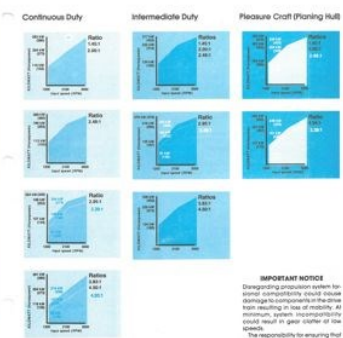
- Oil controlled clutch engagement
- Carburized and hardened gears
- Emergency come-home feature
- Built with rig-bore accuracy
- Rubber block drive
- Ratios: 1.45:1, 2.00:1, 2.48:1, 2.95:1, 3.39:1, 3.83:1, 4.50:1 and 4.95:1
- Equipped with either SAE No. 1 or No. 2 housing
- Dry flywheel housing
- Both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



Use Certified Print for Installation

SAE No.	SAE No. 1	SAE No. 2	APPROX. DRY WT.
1.45:1	173.2mm (6.82")	173.2mm (6.82")	259 kg (570 lbs)
2.00:1	173.2mm (6.82")	173.2mm (6.82")	259 kg (570 lbs)
2.48:1	173.2mm (6.82")	173.2mm (6.82")	259 kg (570 lbs)
2.95:1	173.2mm (6.82")	173.2mm (6.82")	259 kg (570 lbs)
3.39:1	173.2mm (6.82")	173.2mm (6.82")	259 kg (570 lbs)
3.83:1	173.2mm (6.82")	173.2mm (6.82")	259 kg (570 lbs)
4.50:1	173.2mm (6.82")	173.2mm (6.82")	259 kg (570 lbs)
4.95:1	173.2mm (6.82")	173.2mm (6.82")	259 kg (570 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 kits are remotely mounted if a top PTO is used.



IMPORTANT NOTICE
Overloading production engines beyond rated capacity could cause damage to components and the drive train resulting in loss of mobility. All maximum ratings are based on the engine's rated output. Exceeding the rated output could result in gear failure or oil leaks.
The responsibility for ensuring that the horsepower capability of the propulsion system is satisfactory rests with the operator of the drive and drive equipment.
Several optional features can be made by the engine builder: remote survey controls, independent air compressors and others. Twin Disc is pleased to assist in finding solutions to potential engine problems that relate to the marine transmission.

For Service Classification Definitions see back cover.

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- Equipped with either SAE No. 1 or No. 2 housing
- Dry flywheel housing
- Both clutches removable with transmission attached to engine
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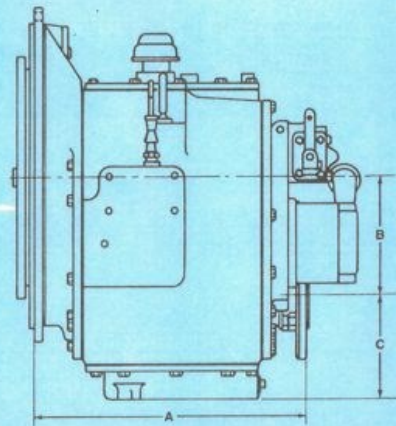
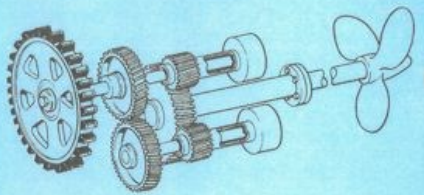
The MG-509 Marine Transmission is the most popular marine transmission in its horsepower range. The 1.45:1, 2.00:1, 2.48:1, 2.95:1 and 3.39:1 ratio units are identical in design except for the size of the pinions and the countershaft gear. The 3.83:1, 4.50:1 and 4.95:1 ratio units use a deeper case as the center distance of the gears is greater. The carburized and hardened gears are shroud-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-4914 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

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SAE NO.	SAE No. 1	SAE No. 2	A	B	C	APPROX. DRY WT.
1.45:1	173.2mm (6.82")	173.2mm (6.82")	173.2mm (6.82")	148.6mm (5.85")	259 kg (570 lbs)	
2.00:1	173.2mm (6.82")	173.2mm (6.82")	173.2mm (6.82")	148.6mm (5.85")	259 kg (570 lbs)	
2.48:1	173.2mm (6.82")	173.2mm (6.82")	173.2mm (6.82")	148.6mm (5.85")	259 kg (570 lbs)	
2.95:1	173.2mm (6.82")	173.2mm (6.82")	173.2mm (6.82")	148.6mm (5.85")	259 kg (570 lbs)	
3.39:1	173.2mm (6.82")	173.2mm (6.82")	173.2mm (6.82")	148.6mm (5.85")	259 kg (570 lbs)	
3.83:1	173.2mm (6.82")	173.2mm (6.82")	173.2mm (6.82")	148.6mm (5.85")	259 kg (570 lbs)	
4.50:1	173.2mm (6.82")	173.2mm (6.82")	173.2mm (6.82")	148.6mm (5.85")	259 kg (570 lbs)	
4.95:1	173.2mm (6.82")	173.2mm (6.82")	173.2mm (6.82")	148.6mm (5.85")	259 kg (570 lbs)	

trolling valve is applicable to both right-hand and left-hand rotation engines turning either right-hand or left-hand propellers.

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DWG. NO.	RATIOS	A		B	C	APPROX. DRY WGT.
		SAE No. 1	SAE No. 2			
X9816-F	1.45:1					
	2.00:1					
	2.48:1	396.7 mm (15.62")	419.6 mm (16.52")	173.2 mm (6.82")	148.6 mm (5.85")	259 kg (570 lbs)
	2.95:1					
X9835	3.53:1					
	4.52:1	441.5 mm (17.38")	464.3 mm (18.28")	241.0 mm (9.49")	238.8 mm (9.40")	327 kg (720 lbs)
	4.95:1					