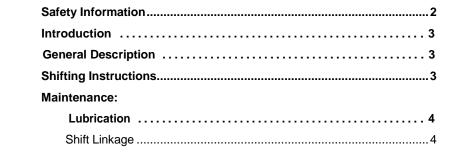


TMR Reversing Transmission Operation & Maintenance Instructions

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Read through the operation and maintenance instructions carefully before using your Waterous TMR Reversing Transmission

NOTE: Instructions subject to change without notice

T-328 (Revised: 10/12/23)



Read through the safety information and operating instructions before using your Waterous Reversing Transmission.

Death or serious personal injury might occur if proper operating procedures are not followed. The operator, as well as other individuals using the apparatus must be familiar with these operating instructions as well as other operating instructions and manuals for the apparatus, water hydraulics and component limitation.

Unexpected Truck Movement May result in serious personal injury or death

Failure to properly shift transmission in accordance to the transmission operating instructions may result in unexpected truck movement which may result in serious personal injury or death.

🗥 WARNING

If the truck attempts to move, reduce engine speed to idle. Put truck transmission in NEUTRAL and repeat shifting instructions.

NOTICE:

When towing, disconnect the drive shaft that connects the pump transmission's rear output (coupling) shaft to the vehicles differential. Failure to do so may result in damage from lack of lubrication.

Introduction

This publication contains operation and maintenance instructions for the Waterous Model TMR Reversing Transmission. Refer to Service Parts List SPL81121 for reference numbers when ordering repair parts. Also provide the serial number of the TMR when placing inquiries or orders.

General Description

The TMR Reversing Transmission is designed for installation in a vehicle between the main transmission and rear axle to provide reverse vehicle motion with the main transmission in forward gears. In forward, power is transmitted directly through the TMR transmission to the rear axle input and output shafts rotating in the same direction. When in reverse, power is transmitted through a chain drive to a countershaft and then through gearing to the output shaft. The output shaft rotates opposite the input. When the TMR transmission is operated in either mode, it allows the vehicle's main transmission to be operated in any desired gear. The chain drive is a Morse Hy-Vo[®] and the gears helical type. Ball bearings are used throughout. The input and output shaft are available with either 1-3/4-10 SAE spline or 2-10 SAE spline.

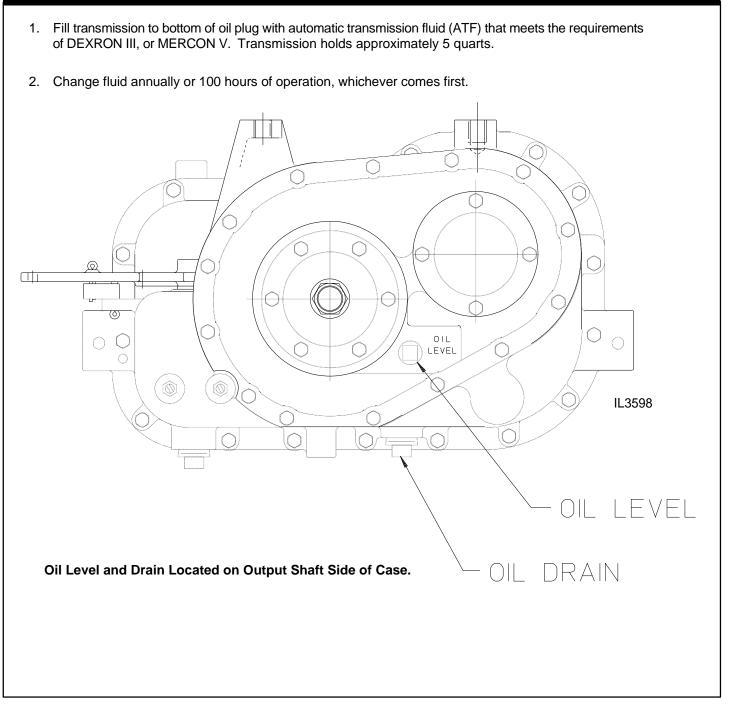
Shifting from forward to reverse mode is through an external lever. The design of the internal shift mechanisms is self - locking after the shift has been completed.

Shifting Instructions

Vehicles With Automatic Transmissions
1. With engine at idle speed, place automatic transmis- sion in NEUTRAL.
2. Shift TMR Transmission to desired mode.
3. If the shift cannot be completed due to a butt tooth
condition, shift automatic transmission momentarily to REVERSE while keeping pressure on the TMR shift lever to complete the shift.
 Shift automatic transmission to desired gear or drive range.

Maintenance

Lubrication



Shift Linkage

Periodically check all shift linkage for freedom of movement and clean as necessary.

Towing

When towing, disconnect the drive shaft that connects the pump transmission's rear output (coupling) shaft to the vehicles differential. Failure to do so may result in damage from lack of lubrication.