

Meritor MTC-4208, -4210, and -4213 Series Transfer Cases

INSPECTION AND TOWING PROCEDURES

Hazard Alert Messages

Read and observe all hazard alert messages in this publication.

DANGER

Indicates imminent danger. Failure to follow this instruction will result in death or serious injury.

WARNING

Indicates a possibly impending danger. Failure to follow this instruction can result in death or serious injury.

CAUTION

Indicates a hazardous situation or unsafe practice which, if not avoided, could result in injury or damage to components.

How to Obtain Additional Maintenance, Service and Product Information

Refer to the following maintenance manual publications on Literature on Demand at meritor.com:

- MM-1 - Preventive Maintenance and Lubrication
- MM-0861 - MTC-4208X/XL/XP/XLEV/XLEC, MTC-4210X/XL/XP/XLEV/XLEC & MTC-4213X Series Transfer Cases

Contact the Meritor OnTrac™ Customer Service Center

If you have questions about the procedures in this bulletin, contact the Meritor OnTrac™ Customer Service Center at 866-668-7221 (US and Canada) between 7:30 AM and 10:00 PM ET Monday through Friday, and between 9:00 AM and 6:00 PM ET on Saturday; 001-800-889-1834 (Mexico); or visit our website: <https://www.meritor.com/warranty#OnTracSC>.

Purpose

This bulletin is to provide a quick reference for inspection, oil changes, and towing procedures for the Meritor MTC-4208, -4210, and -4213 Series Transfer Cases.

Towing Procedures

CAUTION

Follow towing procedures recommended by Meritor to prevent internal damage to the transfer case.

Meritor recommends using one of the two methods below when towing to prevent damage to the transfer case.

NOTE: For complete towing information and instructions on axle shaft removal, refer to Technical Bulletin TP-9579 - Driver Instruction Kit on Literature on Demand at meritor.com.

Method 1

Remove both axle shafts from the axles that will remain on the road when the vehicle is transported.

Method 2

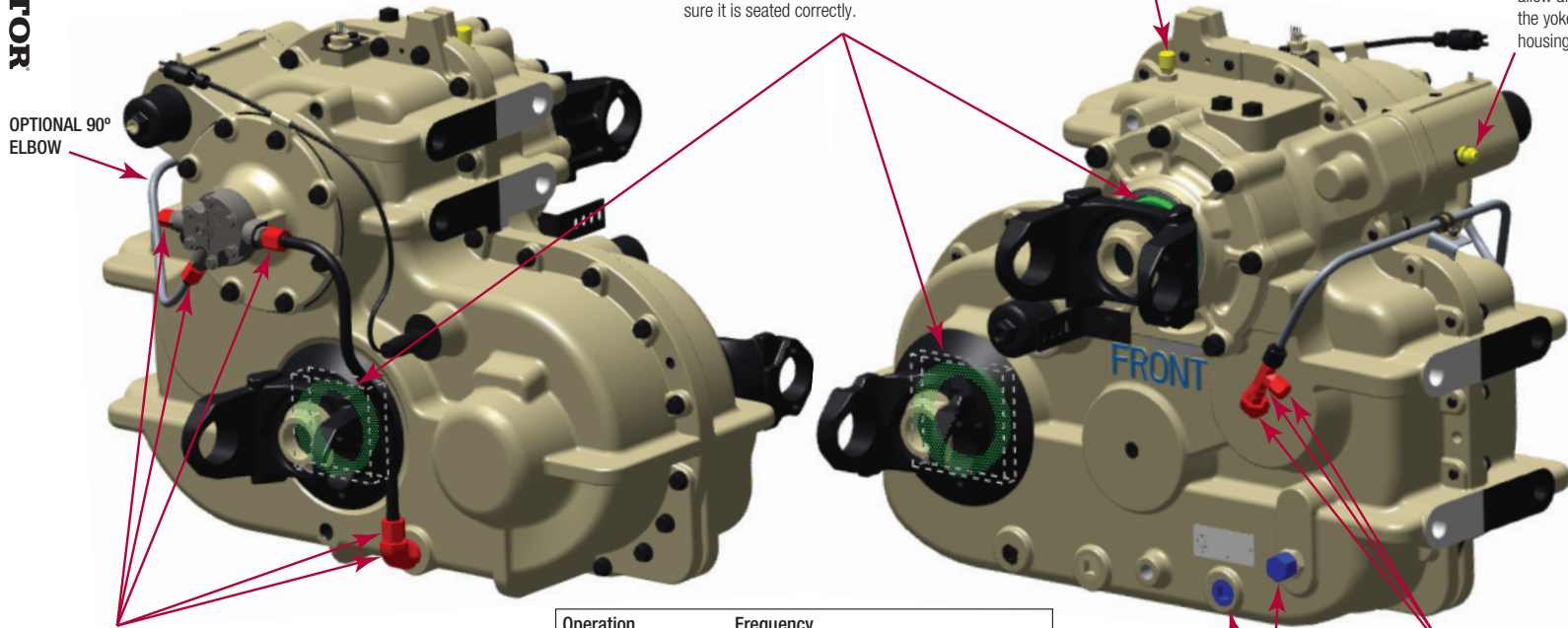
Remove the drive shafts from axles that contact the ground.



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Inspection

Visually inspect the Meritor MTC-4208, -4210, and -4213 transfer cases daily for any leaks in the following areas:



CASE BREATHER

Inspect the breather for clogging. A clogged breather can cause premature seal leaks. Clean or replace, as necessary.

NEUTRAL SHIFT BREATHER (IF EQUIPPED)

Check for damaged o-rings that could allow air to fill the housing damaging the yoke seals or blowing oil from the housing.

SEALS

Inspect for seal leaks. If leaks are present, remove the yoke and replace the seal making sure it is seated correctly.

OPTIONAL 90° ELBOW

COOLER LINES & FITTINGS

Check the lines for leaks and confirm tightened. If loose, tighten fittings to 18-20 lb-ft (24-27 Nm). After tightening, clean case to ensure any future leaks can be identified.

Operation	Frequency
Check oil level	1,000 miles (1 600 km), 100 hours or every month, whichever occurs first
Initial oil change	Before and after extended time high speed road trips
	2,500 miles (4 000 km) or 125 hours, whichever occurs first
Synthetic oil change	Every 25,000 miles (40 000 km), 1,250 hours, or every 12 months, whichever occurs first

Meritor-approved full synthetic oil for Meritor manual transmissions is also approved for Meritor transfer cases. Refer to publication TP-90114 for a list of approved distributors.

OIL FILL & DRAIN PLUGS

The oil level should be inspected every 1,000 miles (1 600 km), 100 hours or every month, whichever comes first, to ensure the transfer case oil level is to the bottom of the oil fill hole.

In addition, the transfer case should be inspected for leaks and the correct oil level before and after extended time high speed road trips.

COOLER LINES & FITTINGS

Check the lines for leaks and confirm tightened. If loose, tighten fittings to 18-20 lb-ft (24-27 Nm). After tightening, clean case to ensure any future leaks can be identified.

⚠ CAUTION

Meritor does not approve petroleum-based and multi-viscosity oil. NEVER install API GL-5 oils, which contain extreme-pressure (EP) additives. These additives can form sludge at normal operating temperatures. Damage to components can result. Use only SAE Grade full-synthetic 40W or 50W oil, Meritor specification O-81, in the transfer case.

⚠ CAUTION

Ensure the housing has the correct oil level. A low oil level causes a lack of lubrication and reduces durability. An oil level that is too high causes excessive splashing and leads to overheating. Damage to components can result from incorrect (low or high) oil level.

⚠ CAUTION

NEVER operate the transfer case if the oil level is below the bottom of the fill hole, which may be an indication that the transfer case is leaking. Damage to components can result. If the transfer case is leaking, repair the leak. Adjust the oil level before returning the transfer case to service.

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