

Technical Service Information



TSI-06-13-02

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Subject File: TRANSMISSION

Subject: Guidelines to Ensure Satisfactory Performance of Meritor Transfer Case Models MTC-4208, MTC-4210, MTC-4213 in Certain International® 7000 HPV Models

Model: 7300, 7400, 7500, 7600, 7700

Unit Code: 13TKA, 13TKB, 13TKC

PARTS INFORMATION

Table 1 Transfer Case Oil Capacity (May Vary Due to Configuration)

Feature Code	Transfer Case Model	Oil capacity (Pints)	Oil Capacity (Liters)	Oil Capacity with Cooler (Pints)	Oil Capacity with Cooler (Liters)
13TKA	MTC-4210	9.0	4.26	11	5.2
13TKB	MTC-4213	9.0	4.26	11	5.2
13TKC	MTC-4208	9.0	4.26	11	5.2

Note 1: Initial Synthetic Oil Change- 2,500 miles (4000 Km) or 125 hours whichever comes first.

Note 2: Synthetic Oil Change- every 25,000 miles (40,000 Km), 1,250 hours or 12 months, whichever comes first.

SERVICE PROCEDURE



WARNING – To avoid property damage, personal injury, or death, park the vehicle on a flat level surface, set the parking brake, turn the engine off, and chock the wheels.

Notice

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Technical Bulletin

Recommended Service Guidelines for the Meritor MTC-4208, -4210 and -4213 Transfer Case

How to Obtain Additional Lubrication and Maintenance Information

Call ArvinMeritor's Customer Service Center at 800-535-5560 to obtain Maintenance Manual 1, Preventive Maintenance and Lubrication; Maintenance Manual MM-0146, Transfer Cases MTC-4208, -4210 and -4213; Technical Bulletin TP-90114, Transmission Lubricant Specifications; and TP-9579, Driver Instruction Kit; or visit Literature on Demand at meritorhvs.com.

Inspection

Meritor MTC-4208, -4210 and -4213 Transfer Case Inspection

CAUTION

Do not 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.

When servicing the transfer case, add the specified lubricant until the oil level is even with the fill hole. Do not overfill the transfer case, which can cause the transfer case to overheat. Damage to components can result.

Meritor does not approve petroleum-based and multiviscosity oil. Do not 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 50W synthetic oil in the transfer case.

Visually inspect the Meritor MTC-4208, -4210 and -4213 transfer cases daily for any leaks. The oil level should be inspected every 1,000 miles (1069 km), 100 hours or every month, whichever comes first. In addition, the transfer case should be inspected for leaks and the correct oil level before and after extended time high speed road trips. Inspect the following areas.

- Cooler lines and fittings
- Seals
- Breather
- Fill and drain plugs
- Pump inlet tube and fittings
- Gaskets and shims
- During the inspection visually check to ensure the transfer case oil level is to the bottom of the oil fill hole.

Operation	Frequency
Inspect for oil leaks	Daily
Check oil level	1,000 miles (1609 km), 100 hours or every month, whichever occurs first
Check oil level	Before and after extended time high speed road trips
Initial oil change	2,500 miles (4000 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.

Towing Procedures

CAUTION

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

Meritor recommends that you use one of the two methods below when towing a vehicle equipped with an MTC-4208, -4210 or -4213 transfer case to prevent damage to the transfer case.

For complete towing information and instructions on shaft removal, refer to Technical Bulletin TP-9579.

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.

Seal Replacement

Meritor has released the multiple-lip seal (MLS) for use in the INPUT POSITION ONLY on the MTC-4208, -4210 and -4213 transfer cases. The multiple-lip seal is compatible with the current input shaft seal and can be used in service. Refer to Figure 1 for the INPUT position and front OUTPUT position. Refer to Figure 2 for the MTC-4208 and -4210 rear OUTPUT position. Refer to Figure 3 for the MTC-4213 rear OUTPUT position.

Transfer Case Model	Seal Position	Seal Service Part Number	Previous Seal Part Number	Seal Driver	Sleeve Driver
MTC-4208, -4210 and -4213	Input Shaft	A1-1205X2728	R945007	2728T1	2728T2
MTC-4208 and -4210	Forward and Rear Output	R945007	A 1205R2592	KIT 4454	NA
MTC-4213	Forward Output	R945007	A 1205R2592	KIT 4454	NA
MTC-4213	Rear Output	R945010	A 1205Q2591	KIT 4454	NA
MTC-4208 and -4210	PTO Seal	R945008	A 1205P2590	KIT 4454	NA

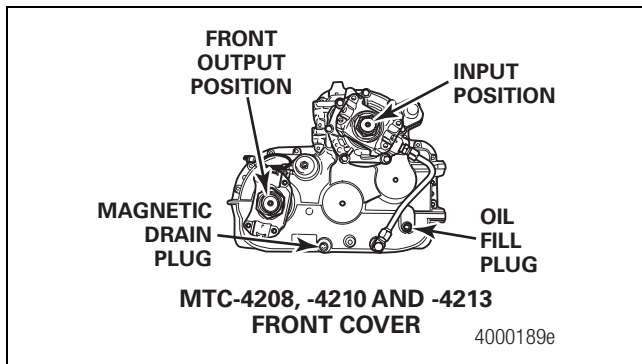


Figure 1

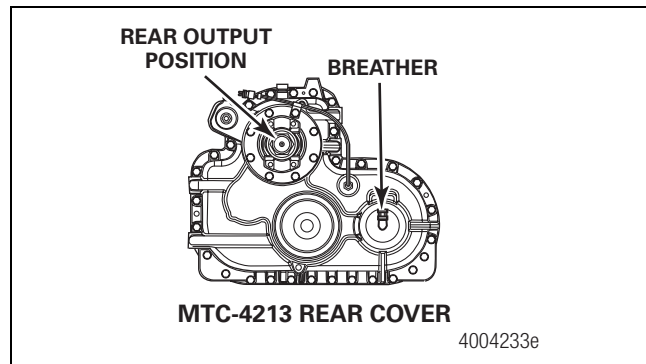


Figure 3

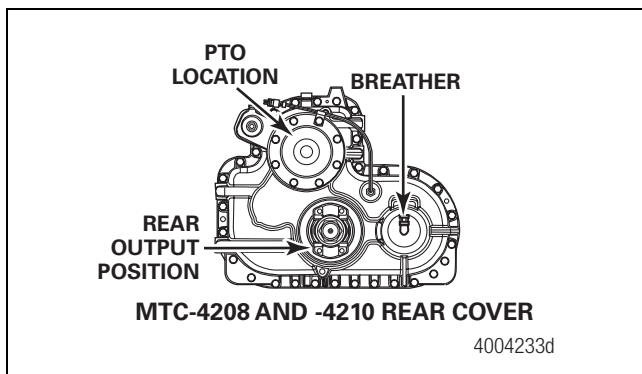


Figure 2

⚠ CAUTION

Only install the Meritor multi-lip unidirectional seal at the input position from the transmission in an MTC-4208, -4210 or -4213 transfer case. If you install the multi-lip seal in either the rear output position or forward output position on these transfer cases, loss of lubricant and damage to components can occur.

The multiple-lip seal must be serviced with the seal and sleeve. The service part number provides both when required. Check your application carefully before installing the multiple-lip seal.

Special Tools and Installation Procedure

Refer to Maintenance Manual MM-0146 for the correct seal installation procedure. To obtain these sleeves, seals and drivers, call ArvinMeritor's Commercial Vehicle Aftermarket at 888-725-9355.



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