



SERVICE INFORMATION LETTER



10-TR-99, Rev. A
March, 2001
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SUBJECT: Revised Transmission Fluid and Fluid/Filter Change Recommendations
Announcement of Allison/Castrol® TranSynd™ Synthetic Fluid

EQUIPMENT AFFECTED:	AT 500 Series	MD 3000 Series	1000 Series™
	MT 600 Series	HD 4000 Series	2000 Series™
	HT 700 Series	B 3/4/500 Series	2400 Series™
			2000 MH

Introduction:

Optimum performance and reliability of heavy-duty automatic transmissions can be noticeably influenced by the type of fluid used and the frequency with which that fluid is changed. Allison Transmission Division and General Motors have designed extensive programs including specifications and tests to verify the quality of fluids and consequently have specific fluid and filter change recommendations. Due to field studies, changes in emission requirements, vehicle design, and operating environments, Allison Transmission has realigned recommended fluid and filter change intervals to more closely match the operating environments heavy-duty automatic transmissions are found in today. Allison Transmission has also entered into a joint partnership with Castrol® Ltd. to offer a new option when selecting transmission fluid. Customers may continue to choose from a wide variety of approved DEXRON®-III or Allison C4 quality fluids or they may elect to switch to TranSynd™ or TES 295 equivalent and extend drain intervals. TranSynd™ is a synthetic, DEXRON®-III/C4 fluid.

Effective with the release of this SIL, the following schedules list current fluid and filter change recommendations based upon vocation. **Local conditions, severity of operation or duty cycle may require more or less frequent fluid change intervals that differ from the published recommended fluid change intervals of Allison Transmission.** Transmission protection and fluid change intervals can be optimized by the use of fluid analysis. Refer to Allison publication number GN2055, "Technicians' Guide to Automatic Transmission Fluid" for additional information on oil analysis and general knowledge about engine oils and transmission fluids.

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SG/mmww

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ROUTE TO:

General Manager
 Sales Manager
 Service Manager

Parts Manager
 Dealer Manager
 Training Manager

Transmission Mechanic
 File
 Other _____

Modified Fluid and Filter Change Intervals:

Initially when the OEM or customer fills the transmission with TranSynd™ or TES 295 equivalent, the modified schedule of Schedule 3 must be used due to the mixture of DEXRON®-III and TranSynd™. DEXRON®-III fluid is present in the transmission due to factory assembly. After the recommended mileage, time, or hours of Schedule 3 have elapsed, the customer may follow the recommended fluid and filter change intervals of Schedule 2.

WT/AT/MT/HT Transmissions

Allison Transmission requires the following initial filter change intervals:

WT	Main/Lube	5000 miles (8000 km)/200 hours
AT	Auxiliary Filter	5000 miles (8000 km)/200 hours
MT	Auxiliary Filter	5000 miles (8000 km)/200 hours
HT	Main External Filter	5000 miles (8000 km)/200 hours
1000/2000/2400 Series	Spin-On Control Main Filter	5000 miles (8000 km)

Availability:

TranSynd™ fluid is available from the Allison Distributor/Dealer network. TranSynd™ fluid is available in:

1. 1 Gallon Containers (6 per case)
2. 5 Gallon Pail
3. 55 Gallon Drum
4. 275 Gallon Tote
5. Bulk

NOTE: For quantities other than listed, contact your local Allison or Castrol® Dealer or Distributor.

WT Series

Schedule 1. Recommended Fluid and Filter Change Intervals (Non-TranSynd™/Non-TES 295 Fluid)

SEVERE VOCATION				GENERAL VOCATION			
Fluid	Filters			Fluid	Filters		
	Main	Internal	Lube/Auxiliary		Main	Internal	Lube/Auxiliary
12,000 Miles (19300 km) 6 Months 500 Hours	12,000 Miles (19300 km) 6 Months 500 Hours	Overhaul	12,000 Miles (19300 km) 6 Months 500 Hours	25,000 Miles (40200 km) 12 Months 1000 Hours	25,000 Miles (40200 km) 12 Months 1000 Hours	Overhaul	25,000 Miles (40200 km) 12 Months 1000 Hours
<p>NOTE: The following recommendations in Schedule 2 are based upon the transmission containing 100% of TranSynd™ fluid. For transmissions that contain a mixture of TranSynd™ and non-TranSynd™ fluids, refer to Schedule 3. WT Filter change intervals in Schedule 2 are only valid with the use of Allison Transmission supplied filters.</p> <p>Flushing Machines are not recommended or recognized due to variation and inconsistencies with ensuring removal of 100% of the used fluid. Recommendations in Schedule 2 are based upon standard Allison fluid change procedures.</p>							
Schedule 2. Recommended Fluid and Filter Change Intervals (TranSynd™/TES 295 Fluid)							
50,000 Miles (80400 km) 24 Months 2000 Hours	50,000 Miles (80400 km) 24 Months 2000 Hours	Overhaul	50,000 Miles (80400 km) 24 Months 2000 Hours	100,000 Miles (160900 km) 48 Months 4000 Hours	50,000 Miles (80400 km) 24 Months 2000 Hours	Overhaul	50,000 Miles (80400 km) 24 Months 2000 Hours
<p>NOTE: WT Filter change intervals in Schedule 3 are only valid with the use of Allison Transmission supplied filters.</p>							
Schedule 3. Modified Fluid and Filter Change Intervals With a Mixture* of TranSynd™ and Non-TranSynd™ Fluids							
25,000 Miles (40200 km) 12 Months 1000 Hours	25,000 Miles (40200 km) 12 Months 1000 Hours	Overhaul	25,000 Miles (40200 km) 12 Months 1000 Hours	50,000 Miles (80400 km) 24 Months 2000 Hours	25,000 Miles (40200 km) 12 Months 1000 Hours	Overhaul	50,000 Miles (80400 km) 24 Months 2000 Hours
<p>* Mixture is defined as the quantity of oil remaining in the transmission after a standard fluid change combined with the quantity of TranSynd™ that is required to fill the transmission to the proper level. A mixture of TranSynd™ or TES 295 equivalent vs. non-TranSynd™ other than as defined in this paragraph does not meet the requirements that permit the eligibility for the recommendations given in Schedule 3.</p> <p>NOTE: Change fluid/filters after recommended mileage, months, or hours have elapsed, whichever occurs first.</p> <p>Severe Vocation: All Retarders, On/Off Highway, Refuse, Transit, and Intercity Coach with duty cycle greater than one (1) stop per mile.</p> <p>General Vocation: Intercity Coach with duty cycle less than or equal to one (1) stop per mile and all other vocations.</p>							

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Local conditions, severity of operation or duty cycle may require more or less frequent fluid change intervals that differ from the published recommended fluid change intervals of Allison Transmission. Transmission protection and fluid change intervals can be optimized by the use of fluid analysis.

1000/2000/2400/2000 MH Series

Schedule 1. Recommended Fluid and Filter Change Intervals (Non-TranSynd™/Non-TES 295 Fluid)

SEVERE VOCATION				GENERAL VOCATION			
Fluid	Filters			Fluid	Filters		
	Control Main	Internal	Lube/Auxiliary		Control Main	Internal	Lube/Auxiliary
25,000 Miles (40000 km) 12 Months	25,000 Miles (40000 km) 12 Months	Overhaul	25,000 Miles (40000 km) 12 Months	50,000 Miles (80 000 km) 24 Months	50,000 Miles (80000 km) 24 Months	Overhaul	50,000 Miles (80000 km) 24 Months

NOTE: The following recommendations in Schedule 2 are based upon the transmission containing 100% of TranSynd™ fluid. For transmissions that contain a mixture of TranSynd™ and non-TranSynd™ fluids, refer to Schedule 3.

Flushing Machines are not recommended or recognized due to variation and inconsistencies with ensuring removal of 100% of the used fluid. Recommendations in Schedule 2 are based upon standard Allison fluid change procedures.

Schedule 2. Recommended Fluid and Filter Change Intervals (TranSynd™/TES 295 Fluid)

50,000 Miles (80000 km) 24 Months	50,000 Miles (80000 km) 24 Months	Overhaul	50,000 Miles (80000 km) 24 Months	100,000 Miles (160000 km) 48 Months	50,000 Miles (80000 km) 24 Months	Overhaul	50,000 Miles (80000 km) 24 Months
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Schedule 3. Modified Fluid and Filter Change Intervals With a Mixture* of TranSynd™ and Non-TranSynd™ Fluids

25,000 Miles (40000 km) 12 Months	25,000 Miles (40000 km) 12 Months	Overhaul	25,000 Miles (40000 km) 12 Months	50,000 Miles (80000 km) 24 Months	50,000 Miles (80000 km) 24 Months	Overhaul	50,000 Miles (80000 km) 24 Months
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* Mixture is defined as the quantity of oil remaining in the transmission after a standard fluid change combined with the quantity of TranSynd™ that is required to fill the transmission to the proper level. A mixture of TranSynd™ or TES 295 equivalent vs. non-TranSynd™ other than as defined in this paragraph does not meet the requirements that permit the eligibility for the recommendations given in Schedule 3.

NOTE: Change fluid/filters after recommended mileage, months, or hours have elapsed, whichever occurs first.

Severe Vocation: On/Off Highway, Refuse, City Transit, Shuttle Transit, and 2000MH models.

General Vocation: All other vocations.

Local conditions, severity of operation or duty cycle may require more or less frequent fluid change intervals that differ from the published recommended fluid change intervals of Allison Transmission. Transmission protection and fluid change intervals can be optimized by the use of fluid analysis.

AT Series

Schedule 1. Recommended Fluid and Filter Change Intervals (Non-TranSynd™/Non-TES 295 Fluid)

SEVERE VOCATION				GENERAL VOCATION			
Fluid	Filters			Fluid	Filters		
	Main	Internal	Lube/Auxiliary		Main	Internal	Lube/Auxiliary
12,000 Miles (19300 km) 6 Months 500 Hours	N/A	12,000 Miles (19300 km) 6 Months 500 Hours	12,000 Miles** (19300 km) 6 Months 500 Hours	25,000 Miles (40200 km) 12 Months 1000 Hours	N/A	25,000 Miles (40200 km) 12 Months 1000 Hours	25,000 Miles** (40200 km) 12 Months 1000 Hours
<p>NOTE: The following recommendations in Schedule 2 are based upon the transmission containing 100% of TranSynd™ fluid. For transmissions that contain a mixture of TranSynd™ and non-TranSynd™ fluids, refer to Schedule 3.</p> <p>Flushing Machines are not recommended or recognized due to variation and inconsistencies with ensuring removal of 100% of the used fluid. Recommendations in Schedule 2 are based upon standard Allison fluid change procedures.</p>							
Schedule 2. Recommended Fluid and Filter Change Intervals (TranSynd™/TES 295 Fluid)							
50,000 Miles (80400 km) 24 Months 2000 Hours	N/A	50,000 Miles (80400 km) 24 Months 2000 Hours	25,000 Miles** (40200 km) 12 Months 1000 Hours	100,000 Miles (160900 km) 48 Months 4000 Hours	N/A	100,000 Miles (160900 km) 48 Months 4000 Hours	50,000 Miles** (80400 km) 24 Months 2000 Hours
Schedule 3. Modified Fluid and Filter Change Intervals With a Mixture* of TranSynd™ and Non-TranSynd™ Fluids							
25,000 Miles (40200 km) 12 Months 1000 Hours	N/A	25,000 Miles (40200 km) 12 Months 1000 Hours	25,000 Miles** (40200 km) 12 Months 1000 Hours	50,000 Miles (80400 km) 24 Months 2000 Hours	N/A	50,000 Miles (80400 km) 24 Months 2000 Hours	50,000 Miles** (80400 km) 24 Months 2000 Hours
<p>* Mixture is defined as the quantity of oil remaining in the transmission after a standard fluid change combined with the quantity of TranSynd™ that is required to fill the transmission to the proper level. A mixture of TranSynd™ or TES 295 equivalent vs. non-TranSynd™ other than as defined in this paragraph does not meet the requirements that permit the eligibility for the recommendations given in Schedule 3.</p> <p>** When an Allison recommended high-efficiency filter is used, the change interval is until the Change Filter light indicates the filter is contaminated or until it has been in use for 3 years, whichever occurs first. No mileage restrictions apply. High-efficiency filters are only approved for use with AT/MT/HT Series.</p> <p>NOTE: Change fluid/filters after recommended mileage, months, or hours have elapsed, whichever occurs first.</p> <p>Severe Vocation: All Retarders, On/Off Highway, Refuse, Transit, and Intercity Coach with duty cycle greater than one (1) stop per mile.</p> <p>General Vocation: Intercity Coach with duty cycle less than or equal to one (1) stop per mile and all other vocations.</p>							

Local conditions, severity of operation or duty cycle may require more or less frequent fluid change intervals that differ from the published recommended fluid change intervals of Allison Transmission. Transmission protection and fluid change intervals can be optimized by the use of fluid analysis.

MT Series

Schedule 1. Recommended Fluid and Filter Change Intervals (Non-TranSynd™/Non-TES 295 Fluid)

SEVERE VOCATION				GENERAL VOCATION			
Fluid	Filters			Fluid	Filters		
	Main	Internal	Lube/Auxiliary		Main	Internal	Lube/Auxiliary
12,000 Miles (19300 km) 6 Months 500 Hours	N/A	Overhaul	12,000 Miles** (19300 km) 6 Months 500 Hours	25,000 Miles (40200 km) 12 Months 1000 Hours	N/A	Overhaul	25,000 Miles** (40200 km) 12 Months 1000 Hours
<p>NOTE: The following recommendations in Schedule 2 are based upon the transmission containing 100% of TranSynd™ fluid. For transmissions that contain a mixture of TranSynd™ and non-TranSynd™ fluids, refer to Schedule 3. Flushing Machines are not recommended or recognized due to variation and inconsistencies with ensuring removal of 100% of the used fluid. Recommendations in Schedule 2 are based upon standard Allison fluid change procedures.</p>							
Schedule 2. Recommended Fluid and Filter Change Intervals (TranSynd™/TES 295 Fluid)							
50,000 Miles (80400 km) 24 Months 2000 Hours	N/A	Overhaul	25,000 Miles** (40200 km) 12 Months 1000 Hours	100,000 Miles (160900 km) 48 Months 4000 Hours	N/A	Overhaul	50,000 Miles** (80400 km) 24 Months 2000 Hours
Schedule 3. Modified Fluid and Filter Change Intervals With a Mixture* of TranSynd™ and Non-TranSynd™ Fluids							
25,000 Miles (40200 km) 12 Months 1000 Hours	N/A	Overhaul	25,000 Miles** (40200 km) 12 Months 1000 Hours	50,000 Miles (80400 km) 24 Months 2000 Hours	N/A	Overhaul	50,000 Miles** (80400 km) 24 Months 2000 Hours
<p>* Mixture is defined as the quantity of oil remaining in the transmission after a standard fluid change combined with the quantity of TranSynd™ that is required to fill the transmission to the proper level. A mixture of TranSynd™ or TES 295 equivalent vs. non-TranSynd™ other than as defined in this paragraph does not meet the requirements that permit the eligibility for the recommendations given in Schedule 3.</p> <p>** When an Allison recommended high-efficiency filter is used, the change interval is until the Change Filter light indicates the filter is contaminated or until it has been in use for 3 years, whichever occurs first. No mileage restrictions apply. High-efficiency filters are only approved for use with AT/MT/HT Series.</p> <p>NOTE: Change fluid/filters after recommended mileage, months, or hours have elapsed, whichever occurs first.</p> <p>Severe Vocation: All Retarders, On/Off Highway, Refuse, Transit, and Intercity Coach with duty cycle greater than one (1) stop per mile.</p> <p>General Vocation: Intercity Coach with duty cycle less than or equal to one (1) stop per mile and all other vocations.</p>							

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HT Series

Schedule 1. Recommended Fluid and Filter Change Intervals (Non-TranSynd™/Non-TES 295 Fluid)

SEVERE VOCATION				GENERAL VOCATION			
Fluid	Filters			Fluid	Filters		
	Main	Internal	Lube/Auxiliary		Main	Internal	Lube/Auxiliary
50,000 Miles (80400 km) 12 Months 1200 Hours	25,000 Miles (40200 km) 6 Months 600 Hours	Overhaul	25,000 Miles**(40200 km) 6 Months 600 Hours	50,000 Miles (80400 km) 12 Months 1200 Hours	25,000 Miles (40200 km) 6 Months 600 Hours	Overhaul	25,000 Miles** (40200 km) 6 Months 600 Hours
<p>NOTE: The following recommendations in Schedule 2 are based upon the transmission containing 100% of TranSynd™ fluid. For transmissions that contain a mixture of TranSynd™ and non-TranSynd™ fluids, refer to Schedule 3.</p> <p>Flushing Machines are not recommended or recognized due to variation and inconsistencies with ensuring removal of 100% of the used fluid. Recommendations in Schedule 2 are based upon standard Allison fluid change procedures.</p>							
Schedule 2. Recommended Fluid and Filter Change Intervals (TranSynd™/TES 295 Fluid)							
50,000 Miles (80400 km) 24 Months 1200 Hours	25,000 Miles (40200 km) 6 Months 600 Hours	Overhaul	25,000 Miles** (40200 km) 6 Months 600 Hours	100,000 Miles (160900 km) 48 Months 2400 Hours	50,000 Miles (80400 km) 12 Months 1200 Hours	Overhaul	50,000 Miles** (80400 km) 12 Months 1200 Hours
Schedule 3. Modified Fluid and Filter Change Intervals With a Mixture* of TranSynd™ and Non-TranSynd™ Fluids							
50,000 Miles (80400 km) 12 Months 1200 Hours	25,000 Miles (40200 km) 6 Months 600 Hours	Overhaul	25,000 Miles** (40200 km) 6 Months 600 Hours	50,000 Miles (80400 km) 12 Months 1200 Hours	25,000 Miles (40200 km) 6 Months 600 Hours	Overhaul	50,000 Miles** (80400 km) 6 Months 600 Hours
<p>* Mixture is defined as the quantity of oil remaining in the transmission after a standard fluid change combined with the quantity of TranSynd™ that is required to fill the transmission to the proper level. A mixture of TranSynd™ or TES 295 equivalent vs. non-TranSynd™ other than as defined in this paragraph does not meet the requirements that permit the eligibility for the recommendations given in Schedule 3.</p> <p>** When an Allison recommended high-efficiency filter is used, the change interval is until the Change Filter light indicates the filter is contaminated or until it has been in use for 3 years, whichever occurs first. No mileage restrictions apply. High-efficiency filters are only approved for use with AT/MT/HT Series.</p> <p>NOTE: Change fluid/filters after recommended mileage, months, or hours have elapsed, whichever occurs first.</p> <p>Severe Vocation: All Retarders, On/Off Highway, Refuse, Transit, and Intercity Coach with duty cycle greater than one (1) stop per mile.</p> <p>General Vocation: Intercity Coach with duty cycle less than or equal to one (1) stop per mile and all other vocations.</p>							

Local conditions, severity of operation or duty cycle may require more or less frequent fluid change intervals that differ from the published recommended fluid change intervals of Allison Transmission. Transmission protection and fluid change intervals can be optimized by the use of fluid analysis.