

Fluid and Filter Change Recommendations

FLUID AND FILTER CHANGE RECOMMENDATIONS

Use of the proper fluid and filters is the simplest thing that an owner can do to ensure the ongoing performance and reliability of Allison automatic transmissions. Allison Transmission has designed extensive specification and testing programs to verify the quality of fluids. As a result, the specific fluid and filter change interval recommendations closely match today's operating environments.

Local conditions, severity of operation or duty cycle may require more or less frequent fluid change intervals that differ from the information contained in the following charts. Allison Transmission recommends that customers use fluid analysis as the primary method for determining fluid change intervals for those vehicles not equipped with prognostic software. In the absence of a fluid analysis program, the fluid change intervals listed in the following charts should be used.

If you have questions regarding fluid or filter change intervals, or models not listed in this brochure, additional information can be found at www.allisontransmission.com; click Service, then Fluids or Fluid/Filter Change Intervals. Or, contact the Allison Technical Assistance Center at 1-800-252-5283.

FLUIDS _____

Allison Transmission recommends that customers use an Allison Approved TES 295® automatic transmission fluid to extend drain intervals and to enhance transmission performance and durability in all operating environments with on-highway products.

Schedule One TES-389™ fluids may be used in traditional on-highway products but do not provide the same drain intervals or filter change intervals as Allison Approved TES 295.

TES 468™ fluids can be used anywhere a TES 295 product is specified. H 40 EP™ and H 50 EP™ products require use of a TES 468 approved fluid.

A complete list of approved fluids can be found at www.allisontransmission.com; click Service, then Fluids. C4 fluids and DEXRON®-VI are no longer recommended in any commercial on-highway transmission

FLUID LOSS WITH FILTER CHANGE ONLY _

When performing initial Main Filter change or changing Main and Lube Filters at recommended intervals, approximate fluid loss for each filter is as follows:

- 1000 and 2000 Product Families Transmissions Control Main Filter = 1 pint (0.47 liters)
- 3000 and 4000 Product Families Transmissions
 Main Filter = 2 quarts (1.9 liters)
 Lube Filter = 8 quarts (7.6 liters)







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Model Year 2009 and 2010 Prognostics:

Prognostics that monitor and maximize fluid and filter life were offered in Model Year 2009 for 1000/2000/3000/4000 Product Families. 3000/4000 Product Families Transmissions began using Prognostics with serial numbers 6510822005, 6520099957, 6610257671, 6620007438. 1000/2000 Product Families Transmission Prognostics were first available in July of 2008 (MY2009). MY2009 Allison Prognostics must only be used with Allison Approved TES 295 fluids.

January 2010 Allison Prognostics are compatible with TES 295 and TES-389 approved fluids in 3000/4000 Product Families Transmissions starting with TCM calibration CIN 4C or later (4C-xxxxx-yyy-z) and all January 2010 1000/2000 Product Families Transmissions.

All 3000/4000 Product Families Transmissions utilizing Prognostics require the use of Allison High Capacity filters. All 1000/2000 Product Families Transmissions utilizing Prognostics require the use of Allison control main spin-on filter, P/N 29539579. 1000/2000/3000/4000 Product Families Transmissions may or may not have this feature "enabled" or turned ON. This option requires that the OEM provide the wiring necessary and the feature enabled in the TCM. Refer to the appropriate operator's manual for the methods of identifying if Prognostics is enabled.

High Capacity Filters allow extended filter change intervals when used with an Allison Approved TES 295 automatic transmission fluid.

High Capacity Filters can be identified by P/N 29545777 or P/N 29545780 stamped into the filter end cap. Prior filters (non-high capacity) for Allison 3000/4000 Product Families transmissions can be identified by P/N 29538231 or P/N 29538232 stamped into the filter end cap.

| 3000/4000 Product Families | High Capacity Filter Kit | | |
|-------------------------------|--------------------------------|--|--|
| | 2 Inch Filter Kit P/N 29548987 | | |
| | 4 Inch Filter Kit P/N 29548988 | | |

Extended fluid and filter change intervals are only allowed with an Allison Approved TES 295 automatic transmission fluid and Allison High Capacity Filters. Filters must be changed at or before recommended intervals.

For a list of current Allison Approved TES 295 automatic transmission fluids, go to www.allisontransmission.com; click on Service, then Fluids.

| 1000/2000 SERIES | | | | | | | |
|--|-----------------------------------|---------------|---|---|--|--|--|
| Fluid and Filter Change Interval Recommendations | | | | | | | |
| | | | | TURNED OFF OR Ated in TCM | PROGNOSTICS TURNED ON | | |
| | | DUTY CYCLE | ALLISON Approved Tes 295® Fluid | ALLISON Approved Tes-389™ Fluid | ALLISON Approved Tes 295® Fluid | ALLISON Approved Tes-389™ Fluid | |
| FLUID | | General* | 150,000 Miles (240,000 km) or 4,000 Hours or 48 Months | 50,000 Miles (80,000 km) or 2,000 Hours or 24 Months | When indicated by controller or | When indicated by controller or | |
| | | Severe** | 75,000 Miles (120,000 km) or 3,000 Hours or 36 Months | 12,000 Miles (20,000 km) or 500 Hours or 6 Months | 48 months, whichever occurs first | 24 months, whichever occurs first (MY2010) | |
| | Spin-On Control Main Filter | General* | 50,000 Miles (80,000 km) or 2,000 Hours or 24 Months | 50,000 Miles (80,000 km) or 2,000 Hours or 24 Months | When indicated by controller or 48 months, whichever occurs first | When indicated by controller or 24 months, whichever occurs first (MY2010) | |
| | | Severe** | 50,000 Miles (80,000 km) or 2,000 Hours or 24 Months | 12,000 Miles (20,000 km) or 500 Hours or 6 Months | | | |
| FILTERS | Internal Filter | All | Overhaul | Overhaul | Overhaul | Overhaul | |
| | Lube/ Auxiliary Filter | General* | 50,000 Miles (80,000 km) or 2,000 Hours or 24 Months | 50,000 Miles (80,000 km) or 2,000 Hours or 24 Months | When indicated by controller or | When indicated by controller or | |
| | | Severe** | 50,000 Miles (80,000 km) or 2,000 Hours or 24 Months | 12,000 Miles (20,000 km) or 500 Hours or 6 Months | 48 months, whichever occurs first | 24 months, whichever occurs first (MY2010) | |

NOTE: Change fluid and filters at or before the recommended mileage, months or hours have elapsed, whichever occurs first.

^{*}General Vocation: All vocations not classified as Severe.
**Severe Vocation: 2000 MH, On/Off Highway, Refuse, City Transit, Shuttle Transit.

3000 SERIES High Capacity Filters Fluid and Filter Change Interval Recommendations

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| | | | PROGNOSTICS TURNED OFF OR NOT CALIBRATED IN TCM | | PROGNOSTICS TURNED ON | |
| | | DUTY CYCLE | ALLISON Approved Tes 295® Fluid | ALLISON Approved Tes-389™ Fluid | ALLISON Approved Tes 295® Fluid | ALLISON Approved Tes-389™ Fluid |
| FLUID | | General* | 300,000 Miles (480,000 km) or 6,000 Hours or 48 Months | 25,000 Miles (40,000 km) or 1,000 Hours or 12 Months | When indicated by controller or | When indicated by controller or 24 months, whichever occurs first |
| | | Severe** | 150,000 Miles (240,000 km) or 6,000 Hours or 48 Months | 12,000 Miles (20,000 km) or 500 Hours or 6 Months | 60 months, whichever occurs first | |
| | Main Filter | General* | 75,000 Miles (120,000 km) or 3,000 Hours or 36 Months | 25,000 Miles (40,000 km) or 1,000 Hours or 12 Months | When indicated by controller or 60 months, whichever occurs first | When indicated by controller or 24 months, whichever occurs first |
| | | Severe** | 75,000 Miles (120,000 km) or 3,000 Hours or 36 Months | 12,000 Miles (20,000 km) or 500 Hours or 6 Months | | |
| FILTERS | Internal Filter | All | Overhaul | Overhaul | Overhaul | Overhaul |
| | Lube/ Auxiliary Filter | General* | 75,000 Miles (120,000 km) or 3,000 Hours or 36 Months | 25,000 Miles (40,000 km) or 1,000 Hours or 12 Months | When indicated by controller or 60 months, whichever occurs first | When indicated by controller or 24 months, whichever occurs first |
| | | | 75,000 Miles (120,000 km) or 3,000 Hours or 36 Months | 12,000 Miles (20,000 km) or 500 Hours or 6 Months | | |

NOTE: Change fluid and filters at or before the recommended mileage, months or hours have elapsed, whichever occurs first.

^{*}General Vocation: All vocations not classified as Severe.
**Severe Vocation: 2000 MH, On/Off Highway, Refuse, City Transit and and Shuttle Transit.

4000 SERIES High Capacity Filters Fluid and Filter Change Interval Recommendations

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|----------------|------------------------------|------------------------------|-----------------|---|---|--|--|
| | | | | PROGNOSTICS TURNED OFF OR NOT CALIBRATED IN TCM | | PROGNOSTICS TURNED ON | |
| | | TRANSMISSION MODEL | DUTY CYCLE | ALLISON Approved Tes 295® Fluid | ALLISON APPROVED TES-389™ FLUID | ALLISON Approved Tes 295® Fluid | ALLISON Approved Tes-389™ Fluid |
| FLUID | | 4000 w/ | General* | 300,000 Miles (480,000 km) or 6,000 Hours or 48 Months | 25,000 Miles (40,000 km) or 1,000 Hours or 12 Months | When indicated by controller or | When indicated by controller or 24 months, whichever occurs first |
| | | 2" and 4" Sump | Severe** | 150,000 Miles (240,000 km) or 6,000 Hours or 48 Months | 12,000 Miles (20,000 km) or 500 Hours or 6 Months | 60 months, whichever occurs first | |
| Main Filter | | | General* | 75,000 Miles (120,000 km) or 3,000 Hours or 36 Months | 25,000 Miles (40,000 km) or 1,000 Hours or 12 Months | When indicated by controller or | When indicated by controller or 24 months, whichever occurs first |
| | Tillei | | Severe** | 75,000 Miles (120,000 km) or 3,000 Hours or 36 Months | 12,000 Miles (20,000 km) or 500 Hours or 6 Months | 60 months, whichever occurs first | |
| FILTERS | Internal Filter | 4000 w/ 2" and 4" Sump | All | Overhaul | Overhaul | Overhaul | Overhaul |
| | Lube/ Auxiliary Filter | 4000 w/ 2" and 4" Sump | General* | 75,000 Miles (120,000 km) or 3,000 Hours or 36 Months | 25,000 Miles (40,000 km) or 1,000 Hours or 12 Months | When indicated by controller or | When indicated by controller or 24 months, whichever occurs first |
| | | | Severe** | 75,000 Miles (120,000 km) or 3,000 Hours or 36 Months | 12,000 Miles (20,000 km) or 500 Hours or 6 Months | 60 months, whichever occurs first | |

NOTE: Change fluid and filters at or before the recommended mileage, months or hours have elapsed, whichever occurs first.

^{*}General Vocation: All vocations not classified as Severe.
**Severe Vocation: 2000 MH, On/Off Highway, Refuse, City Transit and and Shuttle Transit.

FILTERS AND GASKET KITS WITH PARTS NUMBERS

| 1000/2000 Series | | | | | | |
|-------------------------------------|--------------|--|--|--|--|--|
| Filter/Filter Kit | Part Number | | | | | |
| Control Main | P/N 29539579 | | | | | |
| Shallow Pan Suction (Overhaul Only) | P/N 29537965 | | | | | |
| Deep Pan Suction (Overhaul Only) | P/N 29537966 | | | | | |
| 3000 Series | | | | | | |
| 2 Inch Filter Kit | P/N 29548987 | | | | | |
| 4 Inch Filter Kit | P/N 29548988 | | | | | |
| 4000 Series | | | | | | |
| 2 Inch Filter Kit | P/N 29548987 | | | | | |
| 4 Inch Filter Kit | P/N 29548988 | | | | | |

FLUID CAPACITY (APPROXIMATE)

| 1000/2000 Series | | | | | | |
|------------------|--------------|---------|--------|--------|--|--|
| Sump | Initia | al Fill | Refill | | | |
| | Liters | Quarts | Liters | Quarts | | |
| Standard | 14 | 14.8 | 10 | 10.6 | | |
| Shallow | 12 12.7 | | 7 | 7.4 | | |
| 3000 Series | | | | | | |
| Sump | Initial Fill | | Refill | | | |
| | Liters | Quarts | Liters | Quarts | | |
| 4 Inch | 27 | 29 | 18 | 19 | | |
| 2 Inch | 25 | 26 | 16 | 17 | | |
| 4000 Series | | | | | | |
| Sump | Initial Fill | | Refill | | | |
| | Liters | Quarts | Liters | Quarts | | |
| 4 Inch* | 45 | 48 | 37 | 39 | | |
| 2 Inch* | Inch* 38 | | 30 | 31 | | |

^{*}Add 2.8 liters (3 quarts) for transmissions with PTO.

NOTE: Approximate quantities do not include external lines and cooler hose. Fluid fill capacity is dependent on vehicle configuration. Final fluid capacity must be determined by dipstick level (see Mechanic's Tips MT3004EN Section 1 or your Operator's Manual under "Care and Maintenance").



