

Revisions to this document are noted
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SUBJECT: 4000 Series™ 7-Speed Rear Module Shim Locating Ring and Shim Changes

MODELS AFFECTED: 4700, 4750, 4800, 4850

SERIAL NUMBERS AFFECTED: Indianapolis Built Transmissions — May 2021
Hungary Built Transmissions — January 2022

Introduction:

As a continuous product improvement, a change has been made to the 4000 Series™ 7-speed rear module Shim Locating Ring and Shims. Current parts are mandatory for the forthcoming 4900 and 4970 models and optional for all other 4700 and 4800 based models. A change in part processing has resulted in a change of appearance that leaves the current parts visibly darker in color than the former parts. There are no dimensional changes or changes to stamped identification of each part. Due to the nature of the change and backward compatibility of the current part numbers, individual serial number breakpoints were not established and are unnecessary. For information regarding part identification, see [Figure 1](#).

Service Procedures:

Shim Locating Rings and Shims must be matched. Former and current Locating Rings and Shims may not be mixed within a transmission, regardless of transmission model. See [Table 2](#) for compatibility by part number. All other related service procedures remain unchanged.



NOTE: The forthcoming 4900 and 4970 models must be serviced with current Shim Locating Ring and Shim part numbers. Former Shim Locating Ring and Shim part numbers will be incompatible with those transmission models.

Service Parts:

Inventory of all former part numbers have been disposed of to allow simultaneous supersession of all part numbers to current part numbers. Unit down orders for current Shims should be accompanied by an order for the mating Shim Locating Ring for the transmission being serviced, regardless of transmission model.

Parts Catalog:

The Allison Transmission 4000 Series™ Parts Catalog will show the related part number changes via the History button.

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Please Note: Allison Transmission Service Information Letters are intended for use by professional, trained technicians, not for the “do-it-yourselfer.” They are written to inform those technicians of conditions that may occur on some transmission models (or serial numbers ranges) or to provide information that could assist in the proper servicing of a specific Allison transmission. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, do not assume that the Service Information Letter applies to your transmission, or that your transmission has the condition described. Product evolution and information updates are inevitable. Please see your authorized Allison Transmission service dealer or distributor to understand if your particular transmission may benefit from the information contained within the Service Information Letter.

Table 1. Former, Current Shim Locating Ring and Shim Part Numbers

Part Name	Former Part Number	Current Part Number
Ring, Shim Locating	29530525	29566390
Shim, Selective, 0.27 mm	29530516	29565270
Shim, Selective, 0.54 mm	29530517	29565271
Shim, Selective, 0.81 mm	29530518	29565272
Shim, Selective, 1.08 mm	29530519	29565273
Shim, Selective, 1.35 mm	29530520	29565274
Shim, Selective, 1.62 mm	29530521	29565275
Shim, Selective, 1.89 mm	29530522	29565276
Shim, Selective, 2.16 mm	29530523	29565277
Shim, Selective, 2.43 mm	29530524	29565278

Table 2. Former, Current Part Number Compatibility

Former/Current Shim	Part Name	Shim Part Number	Former Locating Ring Part Number 29530525	Current Locating Ring Part Number 29566390
Former Shim	Shim, Selective, 0.27 mm	29530516	Compatible	Incompatible
Former Shim	Shim, Selective, 0.54 mm	29530517	Compatible	Incompatible
Former Shim	Shim, Selective, 0.81 mm	29530518	Compatible	Incompatible
Former Shim	Shim, Selective, 1.08 mm	29530519	Compatible	Incompatible
Former Shim	Shim, Selective, 1.35 mm	29530520	Compatible	Incompatible
Former Shim	Shim, Selective, 1.62 mm	29530521	Compatible	Incompatible
Former Shim	Shim, Selective, 1.89 mm	29530522	Compatible	Incompatible
Former Shim	Shim, Selective, 2.16 mm	29530523	Compatible	Incompatible
Former Shim	Shim, Selective, 2.43 mm	29530524	Compatible	Incompatible
Current Shim	Shim, Selective, 0.27 mm	29565270	Incompatible	Compatible
Current Shim	Shim, Selective, 0.54 mm	29565271	Incompatible	Compatible
Current Shim	Shim, Selective, 0.81 mm	29565272	Incompatible	Compatible

Table 2. Former, Current Part Number Compatibility (*cont'd*)

Former/Current Shim	Part Name	Shim Part Number	Former Locating Ring Part Number 29530525	Current Locating Ring Part Number 29566390
Current Shim	Shim, Selective, 1.08 mm	29565273	Incompatible	Compatible
Current Shim	Shim, Selective, 1.35 mm	29565274	Incompatible	Compatible
Current Shim	Shim, Selective, 1.62 mm	29565275	Incompatible	Compatible
Current Shim	Shim, Selective, 1.89 mm	29565276	Incompatible	Compatible
Current Shim	Shim, Selective, 2.16 mm	29565277	Incompatible	Compatible
Current Shim	Shim, Selective, 2.43 mm	29565278	Incompatible	Compatible



**FORMER
SHIM LOCATING RING
(P/N 29530525)**



**FORMER
SHIM
(Typical)**



**CURRENT
SHIM LOCATING RING
(P/N 29566390)**



**CURRENT
SHIM
(Typical)**

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Figure 1. 4000 Series™ 7-Speed Shim Locating Ring and Shim

		Left	Right
Former	Top	29530525 Shim Locating Ring	Shim (typical)
Current	Bottom	29566390 Shim Locating Ring	Shim (typical)