



**\*\* SOLUTION \*\***

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Title Automated Manual Transmission (AMT) - **All AMT Models (C, D, F)** - Input Shaft And High Range Synchronizer Snap-Ring Selections, Part Number Information, Reference Guide

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**Mack Models**

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**Mack Model** MRU - TerraPro , TE - TerraPro , AN - Anthem , CHU - Pinnacle, Axle back , CXU - Pinnacle, Axle front , GR - Granite , GU - Granite , PI - Pinnacle , TD - Titan

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**Volvo Models**

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**Volvo Model** VN , VNL , VNM , VNR , VNX , VAH , VHD , VT

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**Engine family**

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Engine family 11L Engine , 13L Engine , 16L Engine , MP7 , MP8 , MP10

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**Transmission**

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Transmission AMT-F With Crawler Gears , AMT-F Without Crawler Gears , AMT-C , AMT-D , AMT-F , AMT-C , AMT-D , AMT-F With Crawler Gears , AMT-F Without Crawler Gears

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**\*\* SOLUTION \*\***

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**Cause** The Input shaft snap rings and the high range synchronizer cone snap ring selections have been increased and the dimensional tolerances have been improved.

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**Solution**

**When looking up a chassis by VIN in IMPACT to order snap rings for these positions:**

- **Chassis built after the new snap rings were released into production** (Jan 2019 for input shaft and March 2018 for range synchronizer) WILL show all the snap ring options available.
- **Chassis built before the new snap rings were released into production** will currently NOT show all of the thickness options available.
  - **Superseded part numbers** DO show up in results.
  - **New part numbers** DO NOT show in results.

**To view all of the thickness options in IMPACT:**

**DO NOT fill in any fields for chassis information. Everything aside from the fields indicated below should be left blank.**

1. Under the Parts tab, select Title from the Additional search values dropdown.

Additional search values ▼

**Search by:**

Part No. ▼

- Part No.
- Part code
- Part description
- Title**
- Supersessions
- Identity
- Chassis via Identity
- Vendor to OEM Parts
- OEM to Vendor Parts
- Vendor Web Links
- Notes

2. Enter "transmission components" into the entry field.

Additional search values ▼

**Search by:**

Title ▼

transmission components|

3. Click on the result that comes up, then click on the first entry from the list that appears.

## Transmission Components

Description
43; 04, VAH/VHD/VN, AT2612D/ATO2612D/ATO3112D; TB-126987348-1
43; 04, VAH/VHD/VN, AT2612F/ATO2612F/ATO3112F; TB-126987349
43; 04, VHD/VN/VT, AT2512C/AT2612C/ATO2512C/ATO3112C; TB-127022284

4. The snap rings can be found in the two sections indicated below (snap ring part numbers are the same for all AMT models):

5	Transmission, Input Shaft	AT2612D/ATO2612D/ATO3112D	→
5	Transmission, Input Shaft	UASO,AT2612F/ATO2612F/ATO3112F	→
5	Transmission, Input Shaft	ASO-ULC/ASO-C,AT2612F/ATO2612F/ATO3112F	→
6	Transmisson, Main Shaft		→

Input shaft				
Position	Old PN	New PN	Desc	Thickness
4	NA	23423404	Snap Ring	3.17
4	1521473	23423405	Snap Ring	3.20
4	NA	23423406	Snap Ring	3.23
4	NA	23423407	Snap Ring	3.26
4	1521474	23423408	Snap Ring	3.29
4	NA	23423409	Snap Ring	3.32
4	NA	23423410	Snap Ring	3.35
4	1521475	23423411	Snap Ring	3.38
4	NA	23423412	Snap Ring	3.41
4	NA	23423413	Snap Ring	3.44
4	1521476	23423414	Snap Ring	3.47
4	NA	23423415	Snap Ring	3.50

High range synchronizer				
Position	Old PN	New PN	Desc	Thickness
21	20507504	23315348	Snap Ring	3.70
21	NA	23281809	Snap Ring	3.75
21	20507503	23315347	Snap Ring	3.80
21	NA	23281808	Snap Ring	3.85
21	20507502	23315346	Snap Ring	3.90
21	NA	23281807	Snap Ring	3.95
21	20507501	23315345	Snap Ring	4.00
21	NA	23281806	Snap Ring	4.05

21	20507500	23315344	Snap Ring	4.10
21	NA	23281805	Snap Ring	4.15
21	20507499	23315343	Snap Ring	4.20
21	NA	23281804	Snap Ring	4.25
21	20483569	23315342	Snap Ring	4.30

Solution visibility **Dealer distribution**

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**Function(s)/component(s) affected**

Function affected                      Impact , Input Shaft

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**Function Group**

Function Group                      431 gearbox, manual

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**Administration**

Author                                      UT9268H

Dealer ID                                  UT9268H

Last modified by                      RU4469V

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NA\_Author\_Group                      GTT

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**Variantes Kola**

RWX - TRANSMISSION              D SERIES - AT2612D - VPT AUTOMATED TRANSMISSION 2600NM 12SPEED , F  
SERIES , AT2812C - VOLVO AUTOMATED TRANSMISSION 2800NM (2050 LB  
FT)

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