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SUBJECT: 3000 Series™ and 4000 Series™ Torque Converter Damper and Turbine Changes

MODELS AFFECTED: 3000 Series™, 4000 Series™, B 300, B 400, B 500, T 200, T 300, T 400, T 500 Models

### Introduction:

In the third quarter of 2020, running changes were introduced to all 3000 and 4000 series torque converter models. Changes are limited to new part number damper and turbine assemblies. In all cases, top level torque converter assembly part numbers and groups are unchanged.

These changes have no effect on torque converter performance with respect to stall speed, torque ratio, capacity, K-factor, or damper performance.

Former part numbers will be completely cancelled and unavailable as service parts when service stock is exhausted. These changes dictate that when installing either of the current damper or turbine assemblies into a former torque converter, both the damper and turbine assemblies must be replaced simultaneously. Doing so will functionally convert the former version torque converter to the current version. Proper matching of components is ensured by a change to the spline count for the mating damper and turbine assembly.



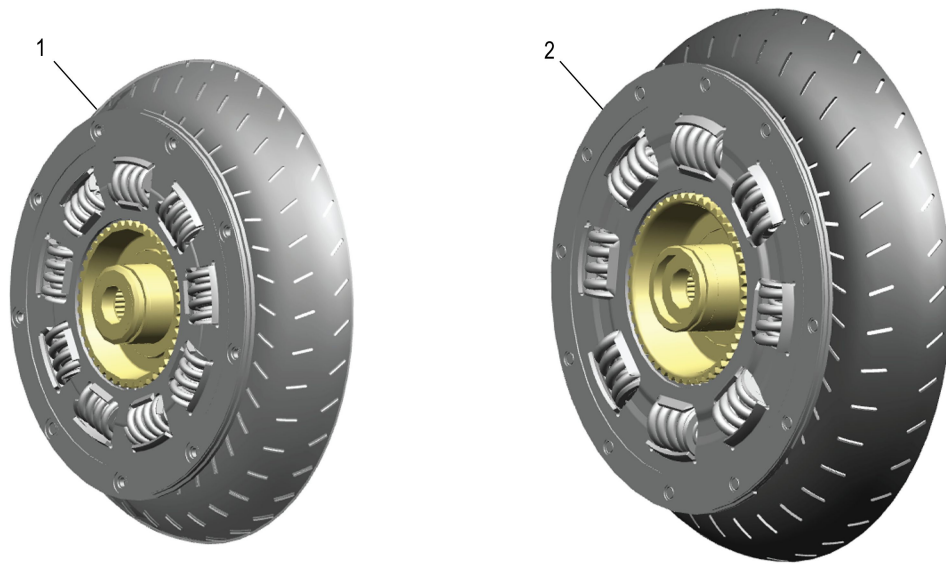
**NOTE:** The 3000 Series™ damper and turbine hub have changed from 40 splines to 42 splines. The 4000 Series™ damper and turbine hub have/will change from 46 splines to 48 splines. Refer to [Figure 1](#).

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**Figure 1. Current 3000 Series™ (Left), Current 4000 Series™ (Right)**

**Table 1. Figure 1 Legend**

| Item | Description                                          |
|------|------------------------------------------------------|
| 1    | Current 3000 Series™ — From 40 splines to 42 splines |
| 2    | Current 4000 Series™ — From 46 splines to 48 splines |



**NOTE:** Two service kits have been released containing damper and turbine assemblies to aid in the servicing of former torque converters. Refer to [Table 4](#) and [Table 5](#).

### Part Identification:

**Turbine Assembly:** The 3000 Series™ and 4000 Series™ have one new turbine assembly part number each, P/N 29560418 and P/N 29560448, respectively (as shown in [Table 2](#) and [Table 3](#) that follow). Positive identification of current versions from former versions may be made by spline count.

**Damper Assembly:** The 3000 Series™ has three new damper assemblies, each with a unique part number. The 4000 Series™ has one new damper assembly (P/N 29559893). Each damper model has its respective part number etched into the cover plate of the damper. Positive identification must be made from the part number on the part.

### Part Number Matching:

Refer to [Table 2](#) and [Table 3](#) to match turbine and damper assemblies to their respective torque converter model.

**Table 2. 3000 Series™ Former and Current Damper and Turbine Assemblies by Torque Converter Model**

| 3000 Series™ Torque Converter Assemblies                                    |          |                         |                          |                        |                         |
|-----------------------------------------------------------------------------|----------|-------------------------|--------------------------|------------------------|-------------------------|
| Group Number                                                                | TC Model | Former Turbine Assembly | Current Turbine Assembly | Former Damper Assembly | Current Damper Assembly |
| 21-935                                                                      | TC 411   | 29503979                | 29560418                 | 29544144               | 29560358                |
| 21-934                                                                      | TC 413   |                         |                          |                        |                         |
| 21-933                                                                      | TC 415   |                         |                          |                        |                         |
| 21-932                                                                      | TC 417   |                         |                          |                        |                         |
| 21-937                                                                      | TC 418   |                         |                          |                        |                         |
| 21-931                                                                      | TC 419   |                         |                          |                        |                         |
| 21-936                                                                      | TC 421   |                         |                          |                        |                         |
| 21-970                                                                      | TC 418D  |                         |                          | 29557862               | 29564212                |
| 21-973 *                                                                    | TC 421H  | 29560418                |                          | 29558613               |                         |
| * Note: 21-973 TC 421H began production with the current turbine and damper |          |                         |                          |                        |                         |

**Table 3. 4000 Series™ Former and Current Damper and Turbine Assemblies by Torque Converter Model**

| 4000 Series™ Torque Converter Assemblies |          |                         |                          |                        |                         |
|------------------------------------------|----------|-------------------------|--------------------------|------------------------|-------------------------|
| Group Number                             | TC Model | Former Turbine Assembly | Current Turbine Assembly | Former Damper Assembly | Current Damper Assembly |
| 21-930                                   | TC 521   | 29506620                | 29560448                 | 29542526               | 29559893                |
| 21-929                                   | TC 531   |                         |                          |                        |                         |
| 21-928                                   | TC 541   |                         |                          |                        |                         |
| 21-927                                   | TC 551   |                         |                          |                        |                         |
| 21-926                                   | TC 561   |                         |                          |                        |                         |
| 21-958                                   | TC 571   |                         |                          |                        |                         |

### New Service Kits:

Two service kits have been released, one for 3000 Series™ and one for 4000 Series™. Refer to [Table 4](#) and [Table 5](#). These kits may be used to convert former versions to current configurations or to service current version torque converters.

Each kit contains one turbine assembly and one damper assembly. The two released kits will service the most common converter models. **Please note the TC418D and TC421H models are not covered by these kits.** Service those models with individual turbine and damper assemblies.

**Table 4. 3000 Series™ Damper and Turbine Service Kit**

| Service Kit Part Number 29564138 | KIT-CONVERTER, DAMPER & TURBINE ASSY, 3K | Qty |
|----------------------------------|------------------------------------------|-----|
| 29560418                         | TURBINE-CONVERTER, ASSEMBLY              | 1   |
| 29560358                         | DAMPER ASSEMBLY-CLUTCH, LOCKUP           | 1   |

**Table 5. 4000 Series™ Damper and Turbine Service Kit**

| Service Kit Part Number 29564139 | KIT-CONVERTER, DAMPER & TURBINE ASSY, 4K | Qty |
|----------------------------------|------------------------------------------|-----|
| 29560448                         | TURBINE ASSEMBLY-CONVERTER, TORQUE       | 1   |
| 29559893                         | DAMPER ASSEMBLY-CLUTCH, LOCKUP           | 1   |

#### **Existing Service Kit:**

Effective immediately, P/N 29548989 Seal and Gasket, B 400R Master Overhaul Service Kit will be completely cancelled. A replacement B 400R overhaul kit P/N 29568666 has been released. Kit P/N 29568666 content is equivalent to former kit P/N 29548989 minus the torque converter damper assembly. See Kit section of the 3000 Series™ Parts Catalog for a complete list of kit P/N 29568666 individual part numbers and quantities. If torque converter damper replacement is necessary as part of the transmission overhaul, the full kit or individual part numbers listed in [Table 4](#) must be ordered separately.

#### **Service Specifications:**

All specifications regarding service of the torque converter assembly are unchanged. Disassembly, assembly, and bolt torque values are unchanged. For specifics, refer to the respective 3000 Series™ and 4000 Series™ service manuals.