



Technical Service Information

ALLISON 1000/2000

P2 PLANETARY CARRIER CHANGES

CHANGE: Vehicles equipped with the Allison 1000/2000 transmission built in September 2006 and later, have a new design P2 Sun gear thrust bearing (T5 Allison reference) for increased capacity, starting with Serial Number 6310696028. See Figure 1 for Tag information.

REASON: For better durability.

PARTS AFFECTED:

P2 SUN GEAR THRUST BEARING (T5)- The thrust bearing thickness and dimensions of the races changed as shown in Figure 2.

P2 SUN GEAR- The inside diameter of the Sun gear dimensionally changed, as shown in Figure 2, to accommodate the new dimensions of the new thrust bearing.

P2 CARRIER ASSEMBLY- The carrier assembly changed to accommodate the bearing changes, as shown in Figure 3. See Figure 3 also for the location of the P2 carrier assembly in the cut-away illustration. See Figures 4 and 5 for an exploded view of the complete planetary assembly.

SERVICE INFORMATION:

P2 SUN GEAR THRUST BEARING (T5).....29541702
P2 SUN GEAR.....29545931
P2 CARRIER ASSEMBLY.....29545240

INTERCHANGEABILITY:

None of the parts listed above are interchangeable for back service, unless used as a set. **Note:** If back servicing, it will be necessary to verify end-play and internal stack-up. Thicker sun gear spacer Part number 29541728 may be required for transmission serial numbers prior to 6310467635 (Indy.) or 6320601447 (Baltimore built). See Figure 1 for Tag information.

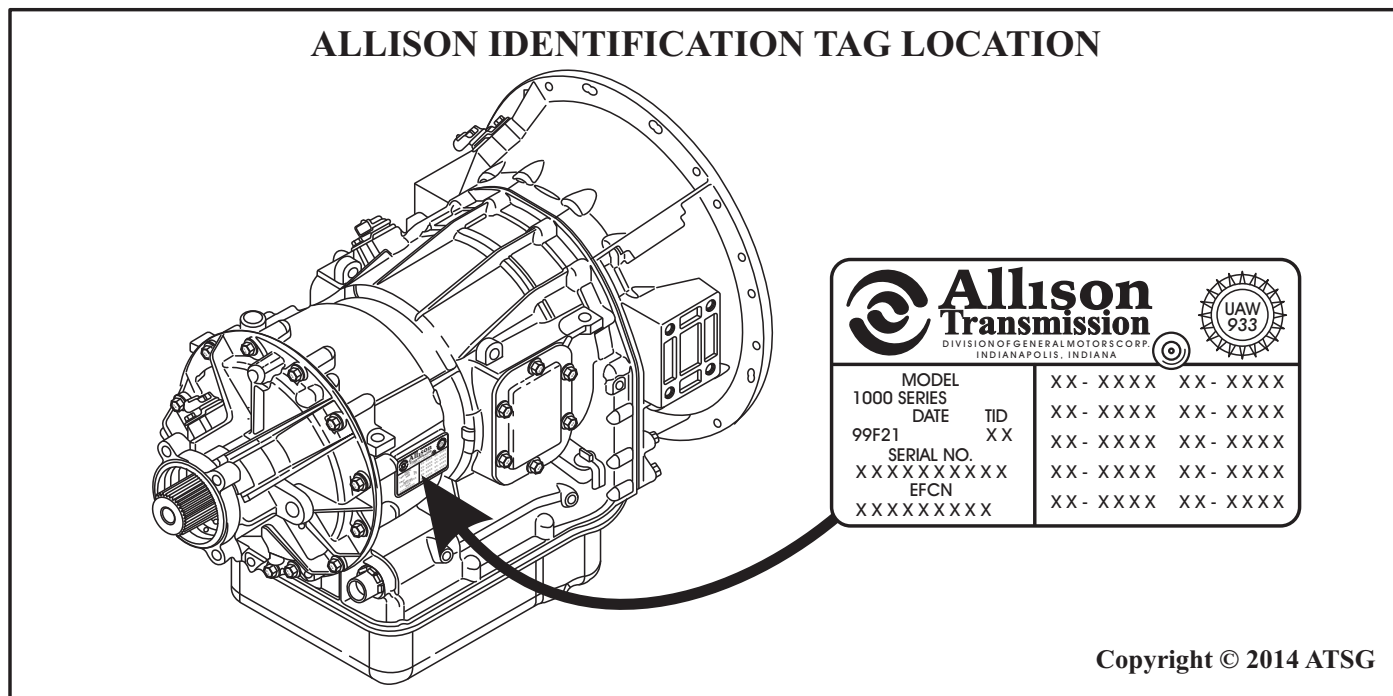
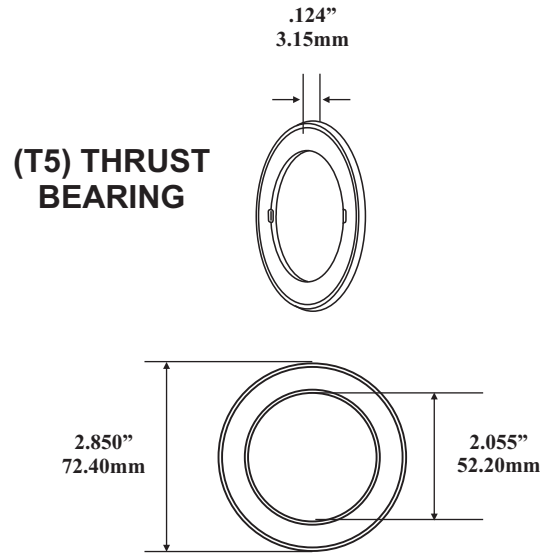


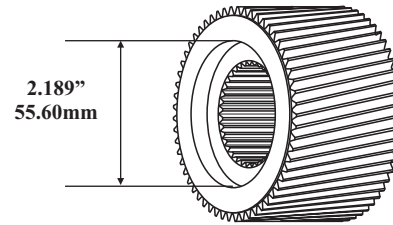
Figure 1

P2 CARRIER THRUST BEARING AND SUNGEAR

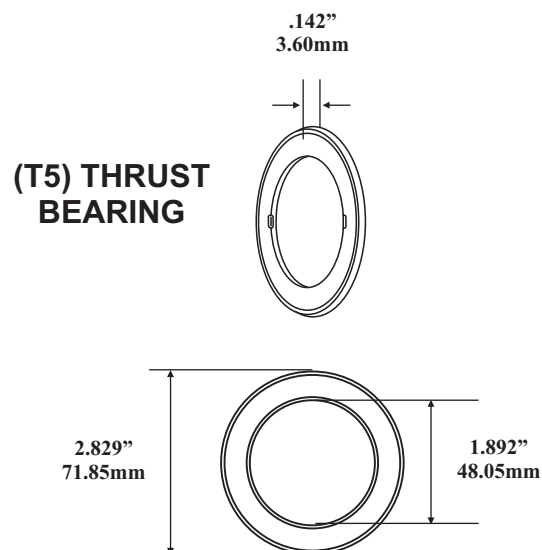
PREVIOUS DESIGN



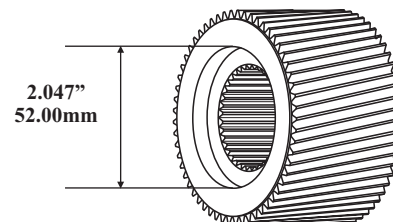
SUNGEAR



NEW DESIGN



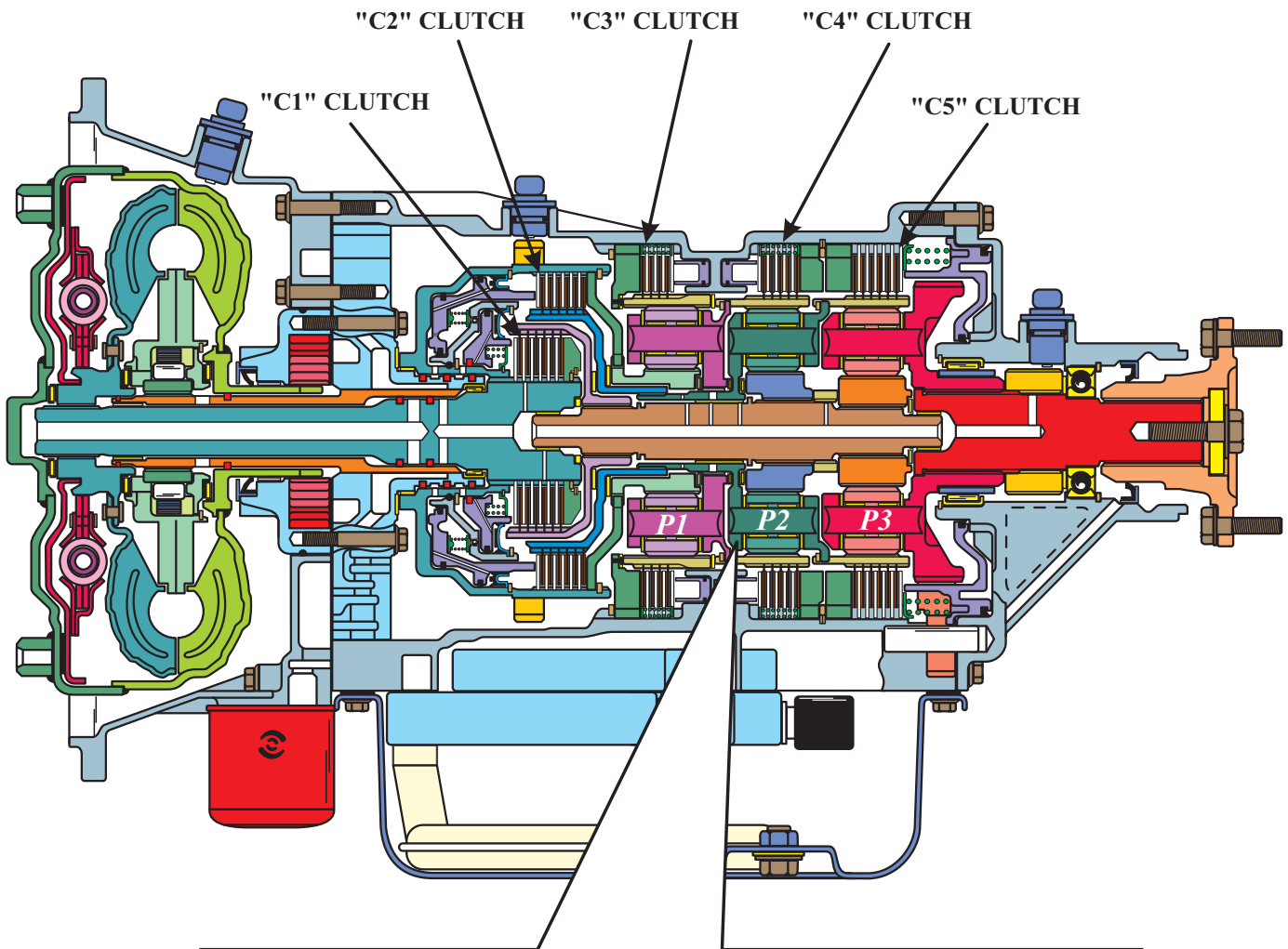
SUNGEAR



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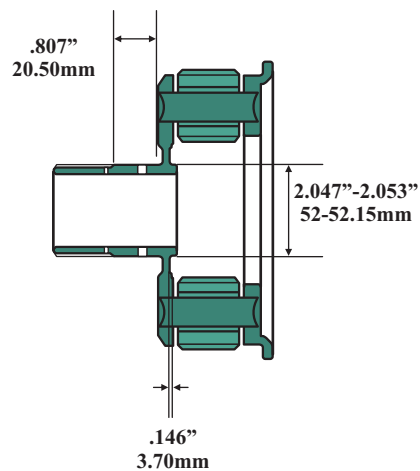
Figure 2

ALLISON 1000/2000 SERIES CARRIER I.D.

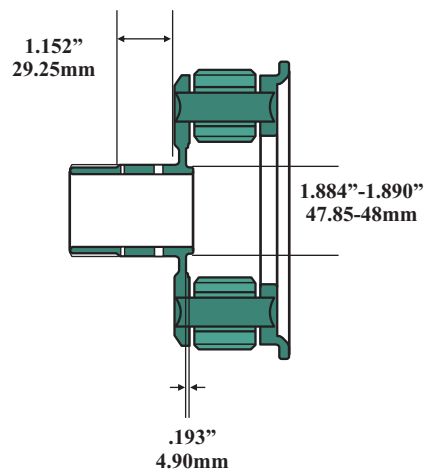


P2 CARRIER ASSEMBLY

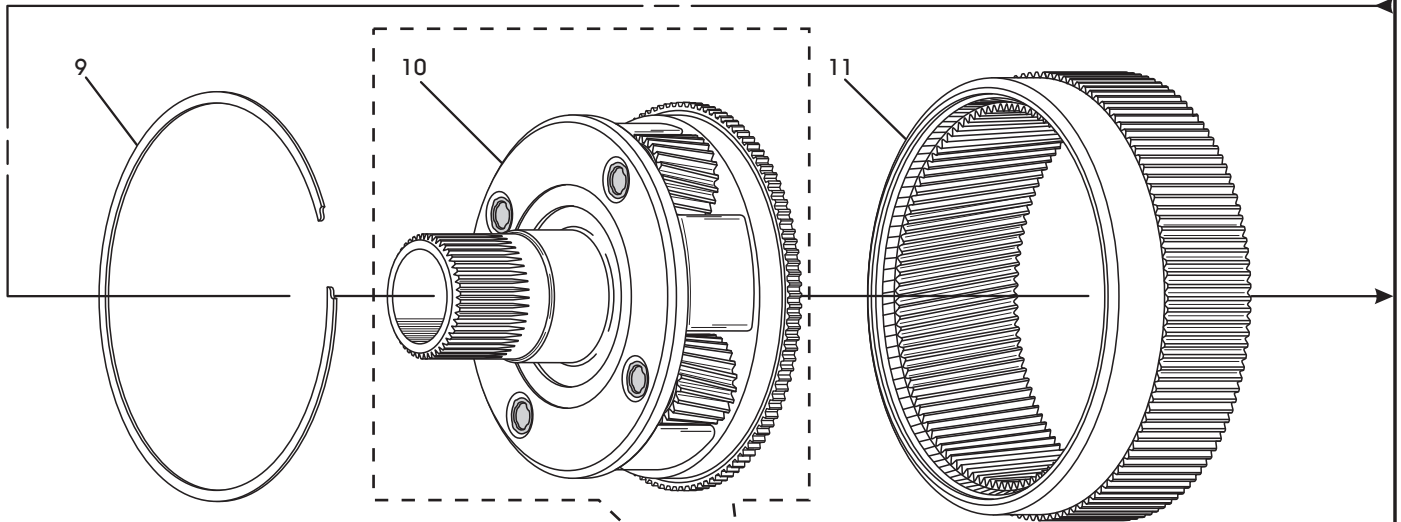
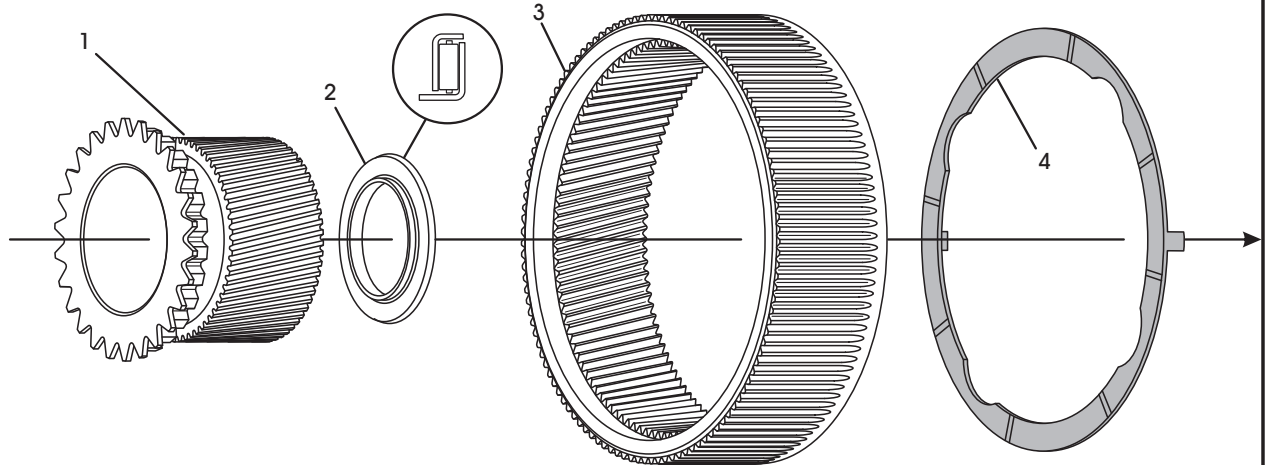
Previous Design



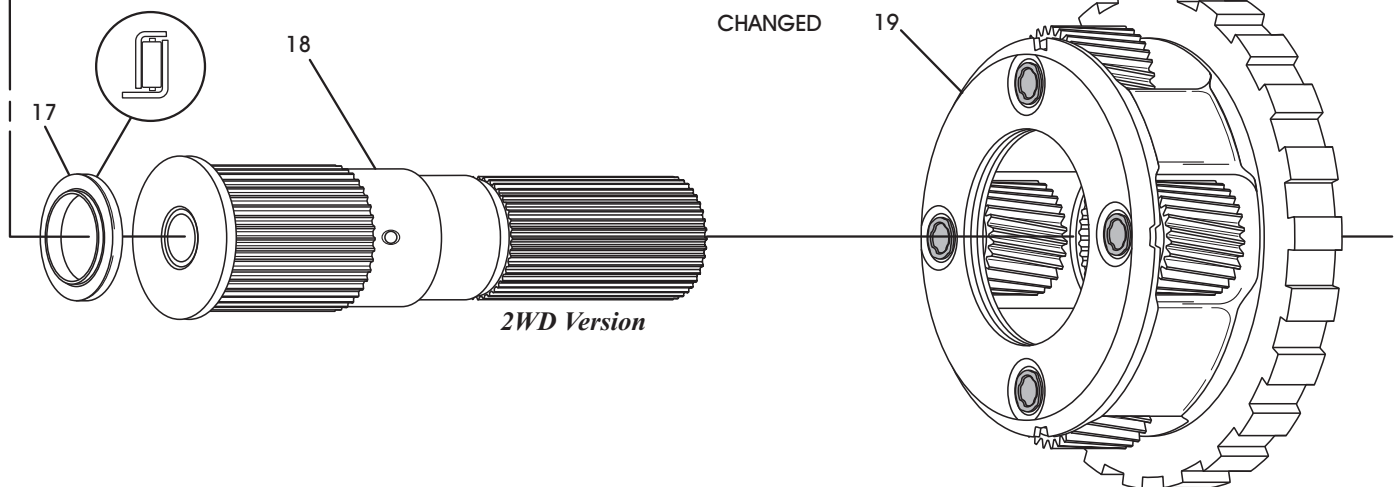
New Design



GEAR TRAIN PARTS EXPLODED VIEW



CHANGED



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Figure 4

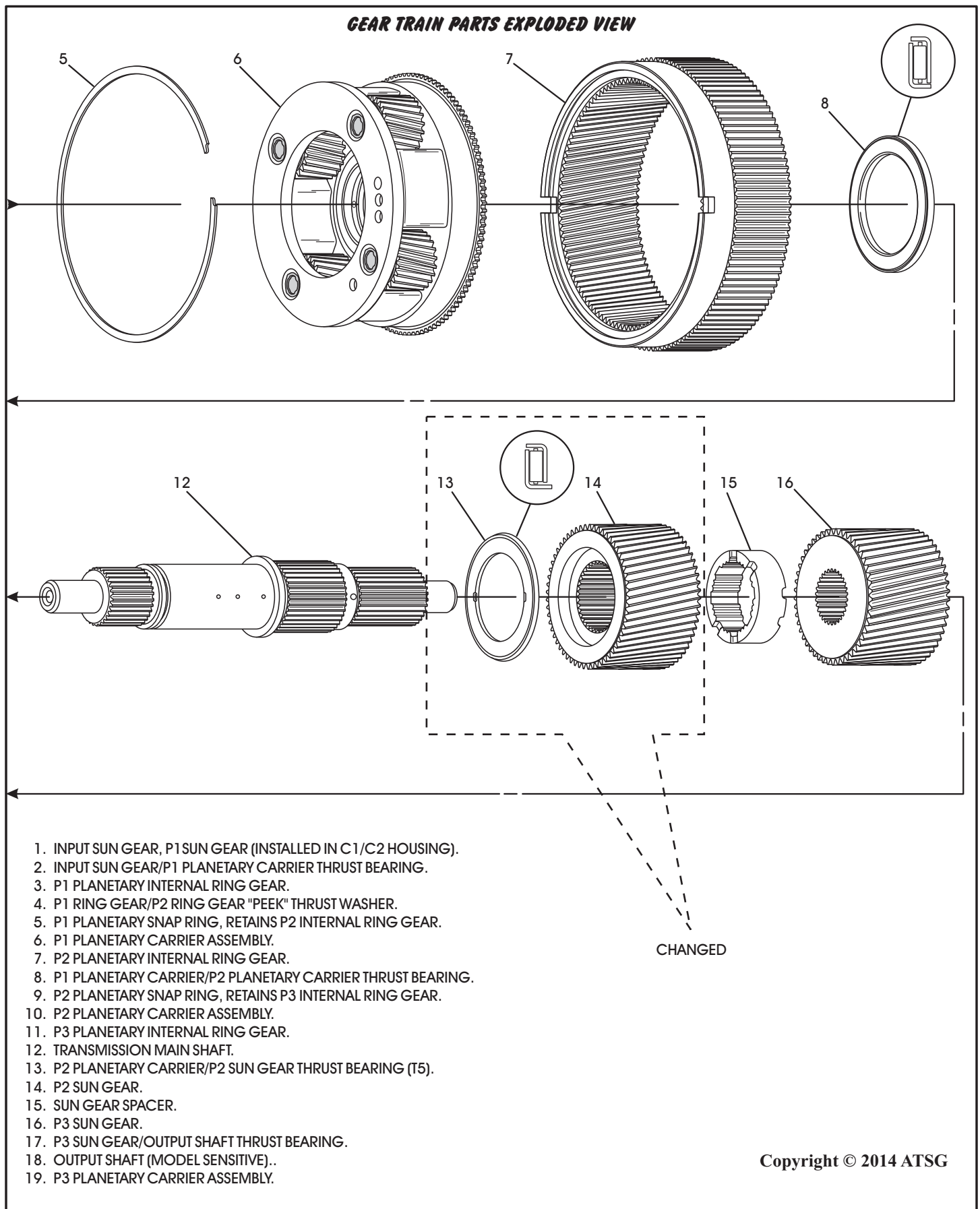


Figure 5