1993 - 2005 Corvette: Service Bulletin: No Reverse, Second Gear or Fourth Gear (Replace Reaction Sun Shell with More Robust Heat Treated Parts)

Subject: No Reverse, Second Gear or Fourth Gear (Replace Reaction Sun Shell with More Robust Heat Treated Parts)
Model and Year: 1993-2005 Corvette with 4L60/65-E Automatic Transmission (RPOs M30 or M32)
Source: Chevrolet Dealer Sevice Bulletin
Bulletin Number: 00-07-30-022C
Date: NA

This bulletin is being revised to correct two part numbers referenced in the vehicle groups and add text after the Parts Information table. Please discard Corporate Bulletin Number 00-07-30-022B (Section 07 -- Transmission/Transaxle).

Condition
Some customers may comment on a no reverse, no second or no fourth gear condition. First and third gears will operate properly.

Cause
The reaction sun gear (673) may not hold inside the reaction sun shell (670).

Correction
Important:
There are FOUR distinct groups of vehicles and repair procedures involved.

• Vehicles built in the 2001 model year and prior that make use of a reaction shaft to shell thrust washer: The sun shell can be identified by four square holes used to retain the thrust washer. Use reaction sun shell P/N 24228345 , reaction carrier to shell thrust washer (699B) P/N 8642202 and reaction sun gear shell thrust washer (674) P/N 8642331 along with the appropriate seals and washers listed below.

• Vehicles built in the 2001 model year and prior that have had previous service to the reaction sun shell: It is possible that some 2001 and prior model year vehicles have had previous service to the reaction sun shell. At the time of service, these vehicles may have been updated with a Reaction Sun Shell Kit (Refer to Service Bulletin 02-07-30-003) without four square holes to retain the thrust washer. If it is found in a 2001 model year and prior vehicles that the reaction sun shell DOES NOT have four square holes to retain the thrust washer, these vehicles must be serviced with P/Ns 24229825 (674), 24217328 and 8642331 along with the appropriate seals and washers listed below.

• Vehicles built in the 2001 model year and later that make use of a reaction shaft to shell thrust bearing: The sun shell can be identified by no holes to retain the thrust washer. Use reaction sun shell, P/N 24229825, reaction carrier shaft to shell thrust bearing (669A), P/N 24217328 and reaction sun gear shell thrust washer (674), P/N 8642331 along with the appropriate seals and washers listed below.

• Vehicles built from November, 2001 through June, 2002: These vehicles should have the reaction carrier shaft replaced when the sun shell is replaced. Use shell kit P/N 24229853, which contains a sun shell (670), a reaction carrier shaft (666), a reaction carrier shaft to shell thrust bearing (669A) and a reaction sun gear shell thrust washer (674). The appropriate seals and washers listed below should also be used.

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conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. 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 bulletin applies to your vehicle, or that your vehicle will have that condition. See a General Motors dealer servicing your brand of General Motors vehicle for information on whether your vehicle may benefit from the information.

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