

# 1963 Corvette: Service Bulletin: Gear Block-Out and High Shifting Effort

**Subject:** Gear Block-Out and High Shifting Effort

**Model and Year:** 1963 1000 Series and Corvette with Muncie 4-Speed Transmission

**Source:** Chevrolet Technical Service Bulletin

**Number:** DR #611, Section VII

**Date:** August 7, 1963

## **TO: ALL CHEVROLET DEALERS**

Gear block-out and high shifting effort on Chevrolet Muncie built transmissions may be due to one or more of the following problems:

- Rough surface finish on the 1st, 2nd or 3rd gear synchronizer ring contact surfaces. Rough finish at this location will cause the bronze synchronizer ring to "hang-up," resulting in high shift effort or total block-out.
- Synchronizer sleeve spline wear
- High clutch key spring tension

If difficult shifting is encountered in transmissions built prior to May 31, 1963, transmission number PO-531, the problem may be corrected by replacing the synchronizers and sleeves with Part No. 3850930 Synchronizer Unit, and inspecting the gear cones for bronze metal pick-up. If metal pickup exists, the parts involved should also be replaced.

Beginning with transmission number PO-531, the new synchronizer units and polished gear cones entered production.

## **PARTS DATA**

Part No: 3850930

No. Req: 1

Description: Synchoizer Unit

**© Copyright General Motors Corporation. All Rights Reserved**

Online URL:

<https://www.corvetteactioncenter.com/tech/knowledgebase/article/1963-corvette-service-bulletin-gear-block-out-and-high-shifting-effort-742.html>