

# 1971 Corvette: Service Bulletin: 1971 Corvette Axle Usage Corrections

**Subject:** 1971 Corvette Axle Usage Corrections

**Model and Year:** 1971 Corvette

**Source:** Chevrolet Service Technical Bulletin

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TO: ALL CHEVROLET DEALERS

It has been brought to our attention that a few 1971 Corvettes were inadvertently produced with an incorrect axle ratio due to a computer programming malfunction.

The axle ratio mix-build condition occurred with two different power train combinations.

1. Corvettes with base equipment should have a 3.08:1 axle; however a few were incorrectly assembled with the 3.36:1 ratio rear axle.
2. Corvettes with high performance axle option ZQ9 should have a 3.36: ratio. There were some incorrectly assembled with the standard 3.08:1 ratio rear axle.

Should owner complaints relative to fuel economy or performance be received on 1971 Corvettes, first determine if correct axle ratios are installed for equipment specified. The axle ratio code is located on the bottom edge of the

differential carrier flange. The code for the 3.08:1 ratio is "AW". The codes for the 3.36:1 ratio are "AX" or "LR".

Listed on the following page are the part numbers of the components required to correct vehicles with incorrect axle ratios.

Chevrolet Motor Division  
General Motors Corporation

REAR AXLE GEAR UNIT - RING & PINION

3.36:1 Ratio    Part Number 3961423  
3.08:1 Ratio    Part Number 3961418

AXLE RATIO	TRANSMISSION	DRIVE GEAR	NO. OF TEETH	DRIVEN GEAR	NO. OF TEETH	SLEEVE	ADAPTER	KEY
3.08	4-SPEED	3978558	8	3987919	19	3869912	--	--
3.36	4-SPEED	3978558	8	3987921	21	3869912	--	--
3.08	HYDRAMATIC	8624738 (LS5)	18	1362049	42	1362293	--	--
3.08	HYDRAMATIC	8623313 (BASE)	18	1362049	42	1362293	--	--
3.36	HYDRAMATIC	8623313 (LS5)	18	9774413	34	1362294	6477964	867209) 3959456) OPT.
3.36	HYDRAMATIC	8623313 (BASE)	18	9774413	34	1362294	6477964	867209) 3950456) OPT.

DRIVEN GEAR COLOR CODE IDENTIFICATION

1362049 - Green  
9774413 - Light Green  
3987919 - Natural  
3987921 - Red

Online URL:

<https://www.corvetteactioncenter.com/tech/knowledgebase/article/1971-corvette-service-bulletin-1971-corvette-axle-usage-corrections-1054.html>