

1959 Corvette: Service News: Drive Line Vibration - Corvette

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Subject: Drive Line Vibration -- Corvette

If excessive drive line vibration is encountered on a 1959 Corvette it is probably due to excessive rear C-joint angle. This vibration can be eliminated by installing either a 2 or 3 degree rear axle shim. The shim should be installed between the rear axle pads and springs, on both sides, with the thick edge to the front.

The minimum angle of the rear U-joint is $7\frac{1}{2}$ degrees. If this angle is reduced to less than $7\frac{1}{2}$ degrees, interference will result in the full bump position.

Measurements of the propeller shaft and pinion nose angle may be accomplished as follows:

1. Load vehicle until distance between the axle housing and the frame rail pick-up (metal to metal) is $4\frac{1}{2}$ ". Retaining the vehicle in this position, the angle of the propeller shaft and pinion nose can be measured as shown in 1958 Passenger Car Shop Manual.
2. The radius control rods should be disconnected before installing the shim. Before re-attaching the radius control rods, elongate the radius rod frame mounting hole $\frac{1}{4}$ " rearward if necessary to eliminate any interference between the radius control rods attaching bolt and mounting bracket.

Shims #3722797 (2 deg), #3744488 (3 deg), or their equivalent may be

utilized. The locating tab on the above shims should be removed to allow the shim to lie flat.

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