

CHEVROLET—CENTRAL OFFICE

DIVISION OF GENERAL MOTORS CORPORATION
DETROIT 2, MICHIGAN



TECHNICAL SERVICE BULLETIN

Technical Service Department



SUBJECT: TRANSMISSION GEAR DISENGAGEMENT -
CORVAIR "95" AND GREENBRIER MODELS

BULLETIN NO. DR # 480

SECTION VII

TO: ALL CHEVROLET DEALERS

DATE May 18, 1961

Gear disengagement on Corvaire "95" and Greenbrier models equipped with either 3 or 4-speed transmissions may occur when operating on irregular roads or other terrain which produces fore and aft movements of the powertrain in its mounts.

This condition will be corrected in Production by the addition of restraining bolts and brackets on the rear suspension crossmember. The bolts will be adjusted into compression between the brackets and the forward side of the engine front mounting bracket and thus prevent any forward motion of the powertrain. In addition, an overcenter spring is being added to the gearshift lever to aid retention of the lever in the selected gear range. Both of these corrections will enter production in May, 1961.

To correct gear disengagement on vehicles built before the design changes, powertrain forward movement may be minimized and transmission detent pressure increased by the following re-work.

PROCEDURE

On 4-speed transmission models, install an engine support cushion 377928 with a 3/8" I.D. x 1 1/4" O.D. flat washer at each end between the rear suspension crossmember supports and engine front mounting bracket (Fig. 1). Secure the cushion with a 3/8" - 24 x 1" bolt and 3/8" lockwasher at each end tightened to approximately 20 ft.-lbs.

On 3-speed jobs, the same procedure applies except it will be necessary to add sufficient additional 3/8" flat washers between the ends of the cushion to completely fill the area between the support bracket and engine front mount. Extra washers should be added equally at each end of cushion. It is essential that the space be completely filled in order to effectively eliminate any forward movement of the powertrain.

To increase transmission detent spring pressure, add two flat washers (5/16" O.D. x 1/32" thick) between the detent cover and spring and re-install detent cover. The detent cover for the three speed 2-3 shift rail is located at the left-rear of the transmission and is shown in the 1961 Corvaire Shop Manual, Figure 6D-4. The 3-4 detent cover on the 4-speed is located at the left-rear of the transmission adjacent to the side cover and is illustrated in Figure 6D-30 of the 1961 Corvaire Shop Manual.

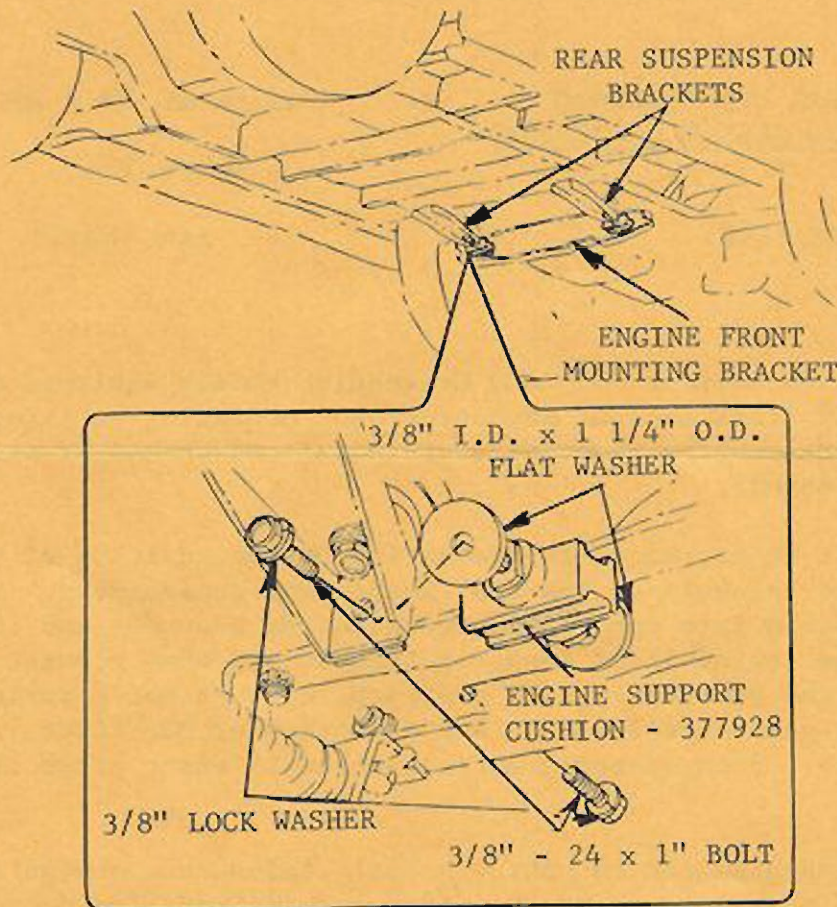


FIGURE 1

PARTS DATA

<u>Part No.</u>	<u>No. Required per Job</u>	<u>Description</u>
377928	2	Engine Support Cushion
	As Required	3/8" I.D. x 1 1/4" O.D. Flat Washer
	4	3/8" - 24 x 1" Bolt
	4	3/8" Lockwasher
	2	5/16" O.D. x 1/32" Thick Flat Washer (to shim detent spring)

FLAT RATE

Install support cushions and increase detent pressure..... 0.4 hrs.

Director, Technical Service Department