



Packard

SERVICE

TECHNICAL

Bulletin

56T-18
Dealer 15
April 30, 1956

To: ZONES AND DEALERS

Subject: LOW RANGE BRAKE INFORMATION - 56TH SERIES ULTRAMATIC

Early 56th Series transmissions incorporated two large coil springs in the low range brake assembly -- an inner spring and an outer spring.

In later production units the inner spring was eliminated and the design of the control separator plate was changed. These alterations went into effect with transmission serial numbers A-9416, B-6012, C-1143, D-1827. The reason for these changes was to overcome possible occurrences of engine "flare" or "run-away" during the transmission upshift from low range converter to high range converter.

Transmissions incorporating the foregoing changes, in some instances, were found to be susceptible to a harsh or noisy low range brake band application on deceleration at approximately 7 MPH. The low range brake inner spring recently was reinstated to overcome the possibility of noisy band application. Engineering tests indicated that the late design separator plate would adequately minimize engine "flare" with the two springs in the low range brake. The inner spring was reinstated in transmissions starting with serial numbers A-13010, B-7140, C-1405, D-3660 and E-1350.

The foregoing data may be summarized as follows:

<u>Group 1</u>	<u>Group 2</u>	<u>Group 3</u>
Two Springs and Early Separator Plate	One Spring and Late Separator Plate	Two Springs and Late Separator Plate
Prior to:	Between Numbers:	After Numbers:
A-9416	A-9416 - A-13009	A-13009
B-6012	B-6012 - B-7139	B-7139
C-1143	C-1143 - C-1404	C-1404
D-1827	D-1827 - D-3659	D-3659
	E-1001 - E-1349	E-1349

Engine "run-away" or "flare" occasionally might be encountered in Group 1 transmissions. If so, install only the latest design separator plate, part number 6489478. Do not remove the low range brake inner spring as stated in Service Technical Bulletin 56T-7, Dealer 5, dated February 8, 1956. Obviously, if the inner spring has been removed from any of these units to overcome "flare" and the low band application became harsh, the inner spring, part number 470183, should be reinstalled.

If harsh band application is encountered in Group 2 transmissions, install the low range brake inner spring, part number 470183.

Very truly yours,

T. W. Nertney

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