

# **P**ackard **SERVICE TECHNICAL** **Bulletin**

55T-17  
Dealer 15  
April 5, 1955

To: ZONES AND DEALERS

Subject: LOW RANGE BRAKE FUNCTIONS IMPROPERLY

A condition which recently developed in 55th Series vehicles equipped with Twin Ultramatic transmissions is a distortion of the low range brake piston housing cap.

A cap which has become distorted permits the piston to move below its designed release position and to either partially or completely close off the opening in the brake housing which supplies the pressure below the piston to apply the brake. When this condition exists, the transmission will operate abnormally with one or more of the following symptoms:

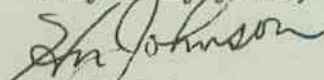
- A. No low range operation in Drive position (to the right of the "D") nor in manual low "L" position.
- B. Delayed low range brake application after coming to a stop or after shifting to the positions noted above.
- C. Engine "Flare" or runaway on "Kickdown" caused by delayed low range brake application.

If one of the foregoing conditions exist, remove the low range brake servo and check the end of the piston guide or shaft in relation to the shaft opening in the top of the housing. If the end of the shaft is flush or below flush with the surface at the opening, the cap is distorted and should be replaced. If the end of the shaft protrudes and the lower edge of the chamfer around the end of the shaft is flush with the surface at the opening, the cap is not distorted and some other condition is causing the transmission to operate abnormally. If the cap requires replacement, follow the procedure outlined in the Serviceman's Training Book "Packard Gear-Start Ultramatic Drive."

The installation of a new cap will be handled on an RFA in the usual manner with a labor allowance of 1.7 hours which covers R & R oil pan and R & R and recondition low range brake assembly.

New caps of heavier design are being shipped to all zones. The caps are carried under part number 470266, Low Range Brake Piston Housing Cap.

Very truly yours,



H. N. Johnson  
Assistant Service Manager