

# PACKARD MOTOR CAR COMPANY

DETROIT MICHIGAN

July 1, 1932

TO: PACKARD DISTRIBUTERS AND DEALERS

TO BE NOTED AND INITIALED BY	

SUBJECT: DIFFERENTIAL CARRIER ASSEMBLY (LIGHT EIGHT)

Gentlemen:

A change was made in the Light Eight differential carrier assembly beginning with unit #365792 and the new design is also included in those earlier units having the letter "A" stamped over the serial number.

The change consists of the addition of a bronze thrust washer between the outer face of each differential side gear and the face of the differential casing with which the side gear makes contact.

The presence of the bronze washer eliminates the possibility of excessive wear in the differential casing, and we consider it important that all cars containing differentials of the early construction be checked as soon as the opportunity offers in order to make sure that no excessive wear has developed.

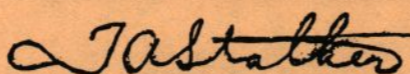
Backlash in the driving line, which will include the gears at the point in question, can most easily be checked by jacking up one rear wheel with the transmission in high gear. The free movement of the wheel which has been jacked up will indicate the sum total of the clearances in the line. On a new car the free movement of the wheel measured at the edge of the tire will probably be found to be in the neighborhood of 5/16".

If the movement of the wheel exceeds 1/4" the differential carrier should be inspected by the removal of the cover plate. With the cover plate removed the differential side gears can be checked for possible movement, and if such movement is found the condition should be corrected.

We will be glad to supply complete differential carrier assemblies to take care of any such cases, and we ask simply that the old units be returned to us with the least possible delay. A labor allowance of \$3.00 will be extended as each unit is credited.

The checking of the driving line for excessive backlash can so easily be made that it should be included as an item of inspection on all Light Eight cars, particularly those with differential numbers lower than the above.

Yours very truly,  
PACKARD MOTOR CAR COMPANY



T. A. Stalker,  
Manager Technical Department

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Any references herein, to future business, are made subject to the continuation of the existing agreement between the Manufacturer and the Distributor