

**PARTS & SERVICE
NEWS**

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SUBJECT: INTRODUCTION OF RETURN SPRING TO REDUCE GRAZING OF FRONT BRAKE ON HD325-6, HD465-5

PURPOSE: To introduce new brake pad return springs to suppress squeaking of the front brake on HD325-6 and HD465-5 dump trucks

APPLICATION: HD325-6 Dump Trucks, Serial Nos. 5001 and up
HD465-5 Dump Trucks, Serial Nos. 4001 and up

FAILURE CODE: 2D1099

DESCRIPTION:

1. Introduction

With the HD325-6 and HD465-5 dump trucks, under some light load conditions, or while the front brake function is cut off, the front brake may squeak (※) while the vehicle is in travel.

This Service News introduces new brake pad return springs to suppress such squeaking.

(※) This phenomenon is called "grazing," and the processes of its occurrence is such that, when the front brake is not in use for some time, wearing in of the surface of the brake pad does not progress and the brake pads are not settled.

Consequently, the pad surface gets smoothed out by slight friction occurring between the brake pad and the brake disc while the vehicle is traveling to change the friction coefficient of the pad surface which can lead to so-called stick-slip phenomenon to cause squeaking and, at the same time, to generate friction heat.

(This is the squeaking sound occurring when a glass surface or Styrofoam is rubbed by nail tip.)

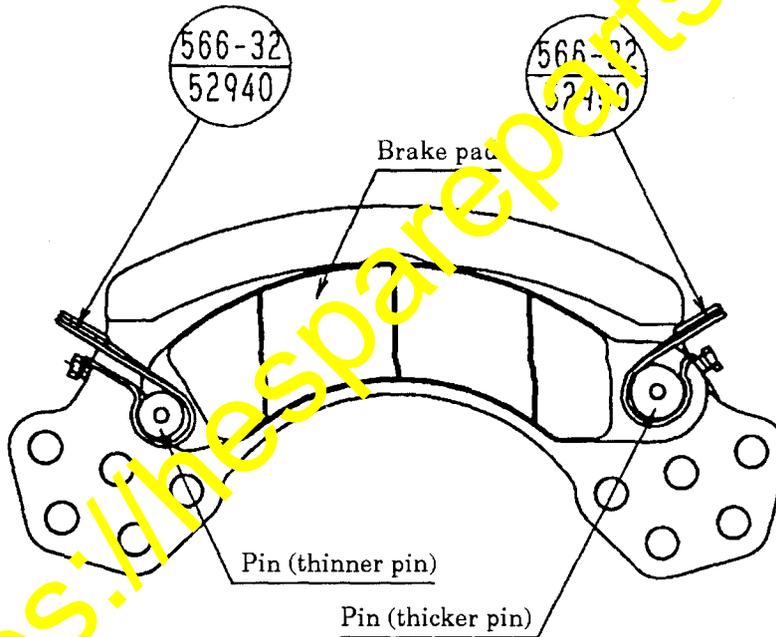
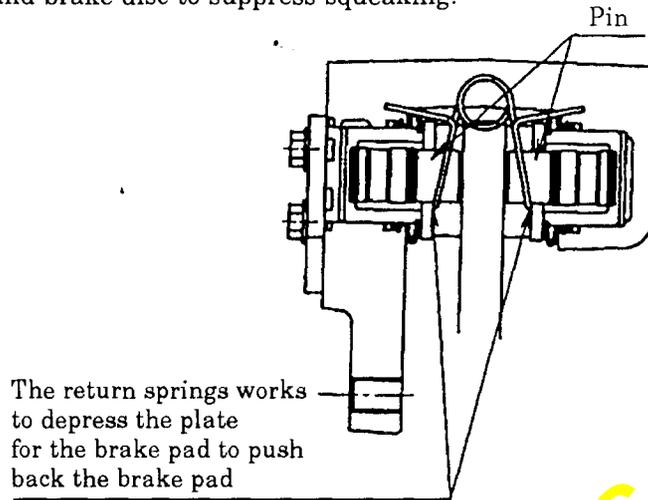
Meanwhile, "grazing" does not influence the performance of the brake itself and it does not cause any malfunctioning.

2. List of parts

Part No.	Part Name	Q'ty	Remarks
For the HD325-6			
566-32-52940	Spring	2	
566-32-52950	Spring	2	
For the HD465-5			
566-32-52940	Spring	4	
566-32-52950	Spring	4	

3. Contents of the modification

Front brake pad return springs have been supplemented to forcefully provide a gap between the brake pad and brake disc to suppress squeaking.



4. Installation procedures

It is not necessary to detach the tiers to supplement these springs.

- ① Slightly pull the pin retaining the brake pad.
- ② Install the springs.
 - ⚠ Since two different types of pins (thicker pin and thinner pin) are being used, be careful to install the right pin.
- ③ Assemble the pin and the pad properly referring to the Shop Manual.

5. Pad changing timing

To prevent occurrence of interference of the spring, "5mm" should be deemed as the tolerance of the remaining thickness of the brake pad. (Thickness of the brake pad is 19.5mm.)

Tolerance of the remaining pad thickness: 5mm

