



Jacobs Vehicle Systems™

Jacobs Engine Brake™ Service Letter E488

SUBJECT: J-Lash Adjusting Procedure

MODELS AFFECTED: 750B, 770

DATE: December 1, 1998

Introduction

Model 750B and Model 770 Jacobs Engine Brakes for specific Detroit Diesel Series 50 and Series 60 engines utilize a new J-Lash slave piston adjusting screw. The J-Lash adjusting screw retains oil, which can cause an incorrect lash setting if the correct setting procedure is not followed during adjustment.

Impact

The following procedure must be followed when adjusting the slave piston lash on models with J-Lash adjusting screws.

Service Information

1. Turn in the J-Lash adjusting screw until the solid side of the slave piston bridge assembly contacts the exhaust valve and the valve springs begin to compress, then turn in one (1) additional turn. Wait at least 30 seconds for oil to be purged from the J-Lash adjusting screw.

NOTE: ALL OIL MUST BE PURGED FROM THE J-LASH ADJUSTING SCREW. OIL REMAINING IN THE J-LASH SCREW WILL CAUSE INACCURATE CLEARANCE ADJUSTMENT, POSSIBLY LEADING TO DAMAGE TO THE ENGINE OR ENGINE BRAKE. IF OIL IS BELOW ROOM TEMPERATURE (BELOW 60°F), WAIT AT LEAST TWO MINUTES FOR OIL TO BE PURGED FROM THE J-LASH ADJUSTING SCREW.

2. After the time interval specified in step 1, back out the adjusting screw ONLY until the correct size feeler gage can be inserted between the solid side of the slave piston bridge assembly and the exhaust valve. Adjust the J-Lash so that a light drag is felt on the feeler gage. Do not back out the J-Lash more than required to obtain a light drag on the feeler gage. Use a screwdriver to hold the J-Lash in place and torque the lock nut to 35 Nm (25 lbft).

NOTE: IF THE J-LASH SCREW IS BACKED OUT UNTIL IT NO LONGER COMPRESSES THE SLAVE PISTON SPRING, OIL WILL ENTER THE SCREW AND THE ADJUSTMENT WILL BE INCORRECT. IF THIS OCCURS, REPEAT STEPS 1 AND 2 ABOVE.

3. Recheck lash settings. If clearance setting is incorrect, repeat steps 1 and 2 above.

NOTE: ONCE THE ENGINE BRAKE HAS BEEN RUN YOU WILL NOT BE ABLE TO CHECK THE ENGINE BRAKE ADJUSTMENT. THIS IS BECAUSE OF OIL IN THE J-LASH SCREW. IF UNSURE OF THE ADJUSTMENT, YOU MUST REPEAT STEPS 1 THROUGH 3 ABOVE.

Obsolescence _____

No part numbers have been made obsolete as a result of this change.

Warranty Information _____

The standard Jacobs Vehicle Systems warranty applies.

No products are subject to campaign as a result of this service letter.

Technical support, service parts, and warranty administration for Jake Brake® products applied to Detroit Diesel engines are now provided by authorized Detroit Diesel service locations worldwide.

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