



## Jacobs Engine Brake™ Service Letter E481

**SUBJECT: New Style Solenoids**

**MODELS AFFECTED: 750, 750A, 760, 760A, 760B, 765, 765A**

**DATE: May 7, 1998**

### **Introduction**

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Two previous styles of solenoids have been superceded on Jacobs Engine Brakes for Detroit Diesel Series 50 and Series 60 engines. This is a product improvement for these engine brakes. The new solenoids have an increased installation torque, screw terminals in place of slide on connectors, and improved reliability.

### **Impact**

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When ordering replacement solenoids for any Series 50 or Series 60 engine brake, the new part numbers below are to be used. This change became effective on current production engine brakes shipped beginning January 1998.

Description	New Part Number	Previous Part Numbers	
Solenoid 12V S/L	1024612	1016440	1021252
Solenoid 24V S/L	1024619	1016441	1021254

Note: When using the new part number solenoid you **MUST** use the upper seal ring with a yellow stripe. P/N 20229 upper seal ring is identical with upper seal ring P/N 1081 (Rev M) with the yellow stripe. These two parts may be used interchangeably.

### **Availability**

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The following part numbers will be available as follows:

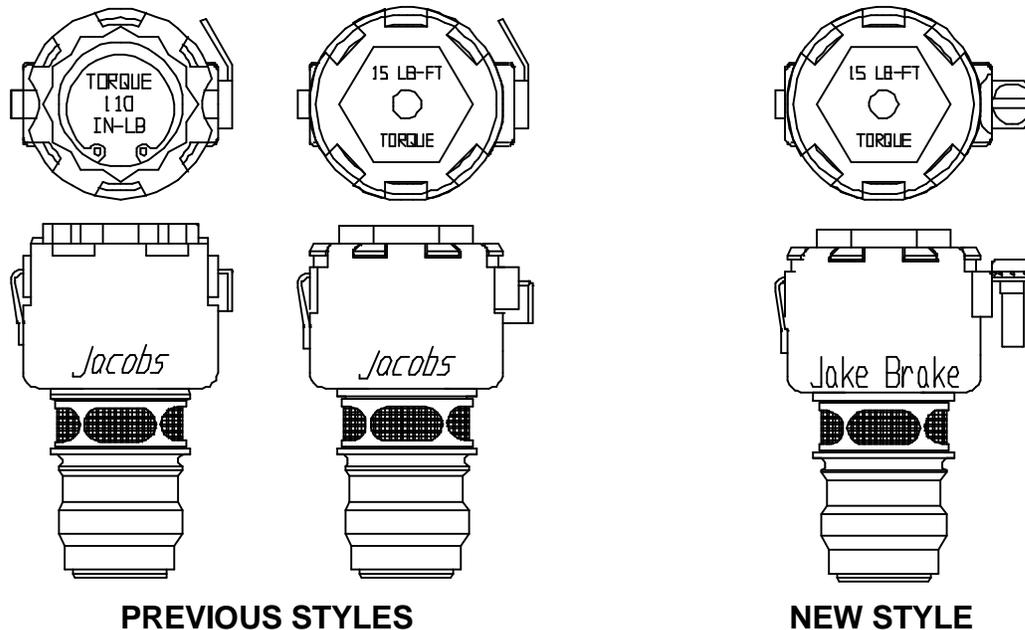
<u>Jacobs P/N</u>	<u>Description</u>	<u>Availability</u>
1024612	12 Volt Solenoid Single lead	immediately
1024619	24 Volt Solenoid Single lead	immediately
20229	Upper Seal	immediately

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## Service Information

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The new Solenoid is interchangeable with the old style solenoids. Jacobs recommends replacing all seals whenever a solenoid is removed.



There are four installation procedures that have changed. These are:

1. When installing the new style solenoid, a 3/4" 6 point socket is to be used.
2. The installation torque has change from 100-120 lb-in. (11.3 -13.6 N•m) to 14-16 lb-ft. (19.0 - 21.7 N•m).
3. The upper seal has changed. Part number 20229 is to be used which can be identified by a yellow stripe.
4. The terminal on the new solenoid is a screw type. A forked electrical connector is provided with new service part solenoids for this terminal. Use the forked connector to replace the flag style connector on 1997 and earlier engine brake harnesses.

## Obsolescence

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Part numbers 1016440, and 1016441 will continue to be available for use in other models. Existing inventory of the previous part numbers listed above in the Impact section is not obsolete, and should be used up.

## Warranty Information

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The standard Jacobs Vehicle Systems warranty applies.

This is a Jacobs Vehicle Systems product improvement. No products are subject to campaign as a result of this introduction.