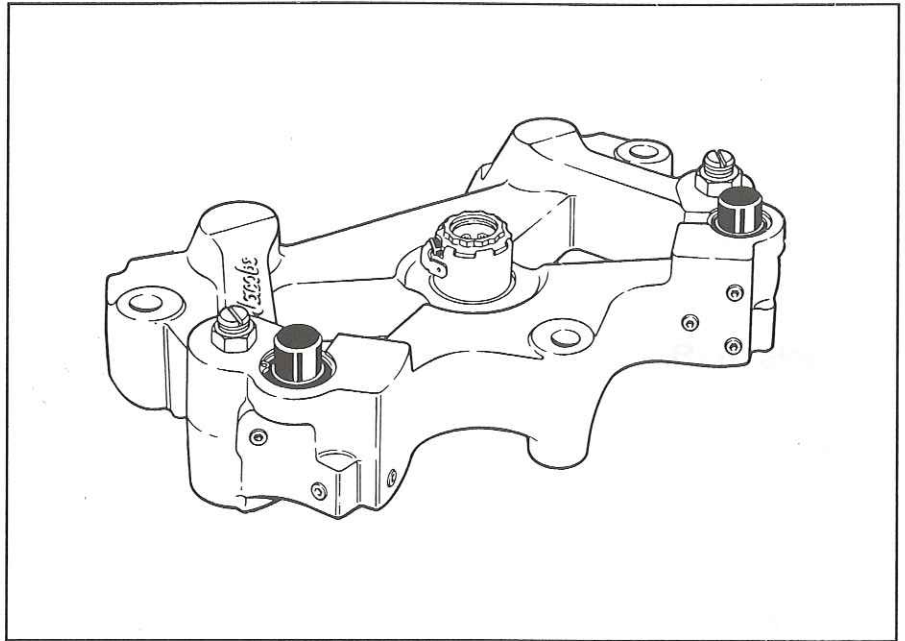




# Installation Addendum for Models 317B & 317C Engine Brakes



The Model 317B Jake Brake® engine retarder has been designed and approved for use on 1991 and pre-1991 model year 3176 Caterpillar engines and replaces the Model C317A as the production model. The Model 317C is designed for use on certain 1992 model year 3176 engine applications. Refer to the chart on page 2 for specific application information. The new models have been designed for improved durability and performance.

**The Jake Brake Retarder is a vehicle slowing device, not a vehicle stopping device. It is not a substitute for the service braking system. The vehicle's service brakes must be used to bring the vehicle to a complete stop.**



***See Jacobs Driver's Manual  
for proper engine brake  
driver techniques***

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**Jacobs® Vehicle  
Equipment Company**  
22 East Dudley Town Road  
Bloomfield, CT 06002 USA  
(203) 243-1441

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## Models 317B and 317C Installation Instructions

### Addendum to C317/C317A Manual

The installation procedures for Model 317B and 317C are the same as given in the Installation Manual for the Model C317A Engine Brake, P/N 15851, except as noted on this addendum sheet.

#### Application and Adjustment Information

Brake Model	Engine - S/N and HP	Model Year	Slave Piston Clearance*	Gauge P/N
317B	2YG prefix- all engines	pre-1991	0.045 in.	16896
317B	Below 7LG07500 - all HP	1991	0.050 in.	17902
317C	7LG07500 and greater - all HP	1992	0.020 in.	18424

\* Refer to Page 8 in installation manual for setting instructions.

#### Models 317B and 317C Installation

Follow the installation procedures in the C317A manual until the **Valve Bridge Adjustment** instructions on the top of page 6. The first four paragraphs are replaced with the following instructions:

Use a blow gun nozzle with an extension to remove the oil from the bolt holes.

Refer to Fig. 12. Coat head bolt threads (2) and both faces of the related washers (1) with a moly lube (6V4876 or G-N metal assembly paste) prior to assembly. Install the head bolts with washers; torque to 203 lbft. (275 N•m).

Repeat the above procedure for the remaining two cylinder head bolts, one at a time.

Refer to Fig. 13. Install the cylinder head bolt spacers (1) and **HAND TIGHTEN ONLY**.

Continue with the "Model C317A Only" instructions as shown in the manual.

Change the **Housing Installation** instructions given on page 7 as follows:

Refer to Fig. 16. Set the housings in place over the mounting studs. Install the Jacobs hold-down nuts (1) and torque to 59 lbft. (80 N•m).

Refer to Fig. 13 on page 6. Unscrew the cylinder head bolt spacer (1) until it contacts the bottom of the housing.

Refer to Fig. 16. Install the 70 mm bolts (2) through the housing into the spacer (one per housing) and torque to 41 lbft. (55 N•m).

Set the slave piston clearance according to the information in the Application and Adjustment Chart above.

Continue with the remaining installation procedures in the manual.