



Jacobs Engine Brake™ Service Letter E460

SUBJECT: Light Weight Model 340A Brake Housing

MODELS AFFECTED: Model 340 and 340A

DATE: April 9, 1997

Introduction _____

A light weight version of the Model 340A engine brake housing was introduced as a running change in February 1997. The new housings weigh 7 Lbs. (3.2 Kgs.) per housing less than the current design.

Impact _____

The application, performance and adjustment of the light weight housings are unchanged from the Model 340 and 340A brake housings they replace. Installation and interchangeability issues are discussed under "Service Information"

Availability _____

The light weight housings were installed on new 3406E engines built by Caterpillar beginning February 10, 1997. The starting engine brake housing serial numbers are S/N 070000 (340A 12VDC) and A01000 (340A 24VDC). The change for replacement housings and engine brake kits was made in late February, 1997.

Service Information _____

The light weight housings can be used as replacement parts for all previous Model 340 and 340A housings. They are installed, adjusted and maintained in the same manner as the previous housings with the exceptions noted below. The current Model 340A Parts and Installation Manuals can continue to be used by observing the exceptions noted below.

A new housing hold down nut is used on the P/N 018203 Front Mounting Stud. The new P/N 022179 Housing Hold Down Nut has a larger bearing area than the current P/N 016555 Housing Hold Down Nut. The new P/N 022179 Housing Hold Down Nut is installed **without** a washer. The P/N 024156 and 024157 housings are packaged with two (2) P/N 022179 hold down nuts to facilitate the correct use of the new housings as replacement parts.

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Use of P/N 016375 Washers on P/N 018203 Front Mounting Studs with a new housing will result in insufficient thread engagement and contact between the nut and the engine valve cover.

Use of P/N 016555 Housing Hold Down Nuts with a new housing will result in excess contact stress on the housing.

The following table summarizes the part changes and part interchangeability issues associated with the introduction of the new light weight housings.

<u>Item</u>	<u>Current P/N</u>	<u>New P/N</u>	<u>Comments</u>
Model 340A 12 VDC Base Kit	019949	No change	Will contain P/N 024156 hsg.
Model 340A 24 VDC Base Kit	021200	No change	Will contain P/N 024157 hsg.
Brake Housing - 12 VDC	019948	024156	Housings are interchangeable.
Brake Housing - 24 VDC	021507	024157	Housings are interchangeable.
Master Piston Retaining Ring	018219	022006	New housing <u>requires</u> new ring, old housing <u>requires</u> old ring.
Housing Hold Down Nut	016555	022179	New housing <u>requires</u> new nut without P/N 016375 washer.
Housing Mounting Washer	016375	No Change	New hsg. uses only 4 washers on P/N 018316 oil supply screws.
Front Mounting Stud	018203	No Change	
Oil Supply Screw	018316	No Change	

Obsolescence _____

Existing inventory of Current Part Numbers can continue to be used for the service of installed brakes and new installations by following the comments on interchangeability listed under "Service Information".

P/N 019948 Model 340A Housing Assembly (Pkgd) - 12 VDC will be superseded by P/N 024156 Model 340A Housing Assembly (Pkgd) - 12 VDC.

P/N 021507 Model 340A Housing Assembly (Pkgd) - 24 VDC will be superseded by P/N 024157 Model 340A Housing Assembly (Pkgd) - 24 VDC.

Warranty Information _____

The Standard Jacobs Warranty applies, refer to warranty procedures P/N 21090.

This is a Jacobs product improvement and is not subject to campaign.