

No: 000257

CHRISTEN INDUSTRIES, INC.  
1048 SANTA ANA VALLEY ROAD  
HOLLISTER, CALIFORNIA 95023  
TELEPHONE: (408) 637-7405

By: FLC Date: 03-05-82 Page: 1 of 1

Send To: 916 ENGINE MOUNT KIT

C-0002

C CHRISTEN INDUSTRIES INC.  
U 1048 SANTA ANA VALLEY RD.  
S HOLLISTER, CA 95023  
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Subject: PROPER INSTALLATION OF  
ENGINE-ATTACH BOLTS AND  
POSSIBLE REQUIREMENT  
FOR BOLT INSPECTION

There is a possibility that the threads on the engine-attach bolts (Christen 50067-434, AN7-34A) and their nuts (Christen 50069-012, MS20365-720) at the engine-mount vibration pads can be damaged by incorrect installation techniques. To ensure correct and secure installation, free from possible thread damage, (a) bolts must be inserted without excessive force, and (b) nuts must not bottom at the end of the threaded portion of the bolt shanks.

If the engine has been properly installed and the homebuilder is certain that thread bottoming has not occurred, no action is required.

If the engine has been installed and there is any doubt regarding correct installation of the bolts, inspect each bolt as follows:

1. Verify that at least 1/32 inch of the bolt (approximately 1 thread) protrudes beyond the nut, and that not more than 2-1/2 threads protrude beyond the nut.
2. If more than 2-1/2 threads but less than 3-1/2 threads protrude, loosen the bolt slightly, then retighten using a hand-held wrench on the nut. If bottoming occurs, it can be sensed while tightening the bolt as a sudden increase in restraint torque on the nut at the instant that bottoming occurs. If bottoming does not occur as the bolt is tightened, retorque the nut to 450-500 lb-in. If bottoming occurs, remove the bolt and inspect the nut and bolt for possible thread damage.
3. If more than 3-1/2 threads protrude, bottoming may have occurred. Remove the bolt and inspect the bolt and nut for possible thread damage.
4. If any thread damage is visible, replace the bolt and nut.
5. During installation of new parts or re-installation of original undamaged parts, verify that bottoming does not occur by observing the restraint torque required to hold the nut as the bolt is tightened, as described in step 2. In addition, if more than 3 threads protrude when the assembly is tightened, remove the nut and add a washer (Christen 50070-010, AN960-716) under the nut. Torque the nut to 450-500 lb-in.