



Technical Bulletin
Parts and Service news

TB-70-00

4/20/00

To: All Harlan Tractor/Parts Customers

Subject: Fan Mounting on Cummins Engines

The Product Support Department has received reports of premature failure of the engine fan.

In conjunction with Cummins, Harlan has determined that the practice of using split-spring lock washers along with lock washers to attach the fan to the drive pulley is incorrect. The split-spring lock washer in service combined with the loading and unloading of the fan during operation abrades the surface of the fan body and physical stress causes the fan to loosen and/or crack at the fan mounting.

All units in the field have been inspected and the split-spring lock washers removed or have a hardened flat washer placed between the split-spring lock washer and the fan mounting.

Procedure for removing and remounting the cooling fan:

Remove bolts completely from the fan assembly, discard lock washers or add hardened flat washers. Remove all foreign material from bolt threads, clean bolts and fan mounting holes with alcohol and allow parts to dry. Apply thread lock compound (Loctite) to bolts and re-assemble fan assembly and tighten mounting bolts to 32ft/lbs torque.

Caution whether split-spring lock washers are used or not a flat washer must be placed between the mounting bolt and the fan mounting.