



# SERVICE BULLETIN

Classification:

EM96-008

Reference:

NTB96-100

Date:

October 23, 1996

## FAN INSTALLATION TO WATER PUMP FLANGE

**APPLIED VEHICLE:** All with water pump mounted fan

### SERVICE INFORMATION

The fan mounting flange of the water pump may become loose on the shaft if the fan, fan coupling, or fan pulley (water pump pulley) are not properly installed during a repair. The incident may be exhibited as a screeching noise from the engine when starting cold. When removing or installing the fan, fan coupling or fan pulley, always perform the procedure listed below.

### SERVICE PROCEDURE

1. Turn the ignition switch to "off".
2. Loosen the alternator then remove the drive belt. **Do not** leave the drive belt in place and release the drive belt tension by removing the fan pulley. (Releasing the drive belt tension by removing , the fan pulley may complicate component re-installation).
3. Remove the fan, fan coupling, fan pulley and any other components required for the service you are performing.
4. Inspect the fan coupling for wobbling (Figure 1), oil leakage or bent/broken bimetal before assembly.

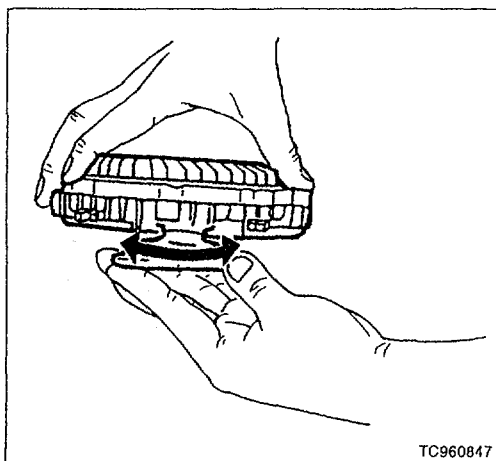


Figure 1

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Technical Communications Department

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5. **Carefully** install the fan, fan coupling and fan pulley. Torque the M6 x 0.8 nuts and screws securing the fan to the fan coupling and the fan coupling to the water pump flange to **4.3- 7.2 ft. lb.** Install the drive belt only **after** the fan and fan coupling to water pump flange bolts/nuts have been properly torqued.

**NOTE:** Proper alignment of these components is essential. Improper alignment will cause them to wobble and may eventually cause the fan to separate from the water pump causing extensive damage.

6. After assembly, verify the fan does not exhibit any wobble or flapping while the engine is running. If any wobble or flapping is observed, it must be corrected before the vehicle is released to the customer.

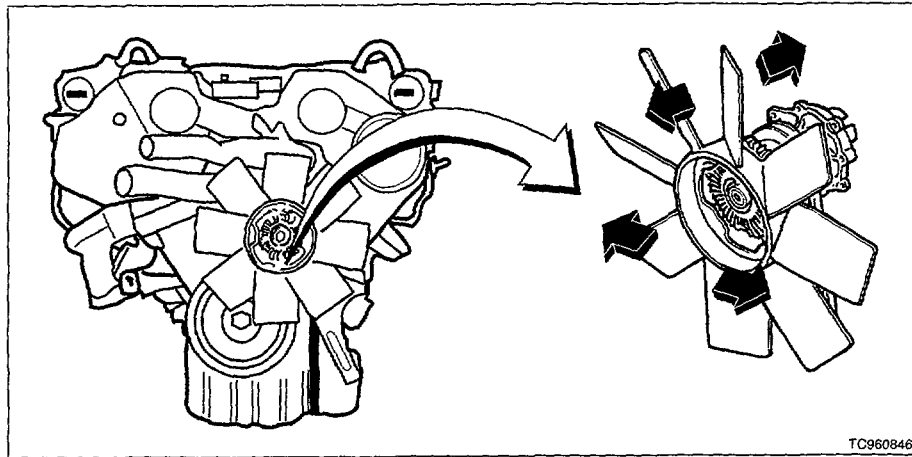


Figure 2

**CAUTION:** When the engine is running, keep hands, clothing and jewelry away from moving parts such as drive belts and fan.