



Manufacturer: Ford (TSB 05-20-8)

Service Plus Group: 07-10-0406

Subject: Idle Vibration - Cooling Fan Induced Body Boom, Rough Engine Idle Sensation or Vibration Felt in Steering Wheel

Model: 2002-2006 Ford Taurus
2002-2005 Mercury Sable

ISSUE

Some 2002-2006 Taurus and 2002-2005 Sable vehicles may exhibit an engine cooling fan induced body boom, rough engine idle sensation or unusual vibration felt at the steering wheel at idle when the engine cooling fan is in the high speed mode. The condition will only occur with the A/C system ON and in ambient temperatures of 80° F/27° C and above. This may be caused by an out-of-balance cooling fan assembly. The vibration is normally transmitted through the steering wheel.

ACTION

Diagnose and identify vibrating cooling fan and replace fan(s) as necessary. Refer to the following Service Procedure for details.

Service Procedure

1. Determine if condition is related to cooling fan operation. Condition is noticeable at idle with A/C system ON in high ambient temperatures (80° F/27° C and above).
 - a. If either condition cannot be duplicated with normal vehicle operation with the A/C on, disconnect the wire harness connection to the ECT sensor, this will force the PCM to turn the cooling fans to high speed operating mode.
 - b. If engine boom, rough idle sensation or unusual engine noise is experienced, determine if either the RH, LH or both cooling fans have an abnormally high shaking force. This is accomplished by placing one's hand at each of the fan assembly's exterior shroud and in the area where the fan assemblies mount to the radiator support.
 - c. If the ECT was disconnected during the evaluation, reconnect the sensor and clear the pending diagnostic trouble code (DTC) P0118 (ECT Hi Input). If cooling fans were electrically disconnected, reconnect the fans.

CONTINUED...



Service Plus Group:

07-10-0406

2. If diagnosis determines either the RH, LH or both Cooling Fans exhibit excessive vibration/shake, replace the appropriate cooling fan(s). Removal and reinstallation of the Cooling Fan Assembly can be found in the appropriate Shop Manual.
3. If concern does not appear to be related to the cooling fans, follow normal NVH diagnostic procedures outlined in the workshop manual.

Part Number	Part Name
3F1Z-8C607-GA	Engine Cooling Fan - Left
3F1Z-8C607-HA	Engine Cooling Fan - Right
3F1Z-8C607-JA	Engine Cooling Fan - Gulf Coast Countries - Left
3F1Z-8C607-KA	Engine Cooling Fan - Gulf Coast Countries - Right