



QVM Bulletin No. Q-45

Date: October 18, 1996

Retain This Bulletin in Your Technical Bulletins Binder for Future Reference

DRIVELINE VIBRATION ISSUES WITH THE E-350 CUTAWAY AND E-SUPER DUTY

Please share this information with engineering, manufacturing, dealers, and service departments.

Questions have been raised concerning driveline vibrations in completed vehicles incorporating Econoline Cutaway vehicles and in Econoline Cutaway incomplete vehicles.

Incomplete Econoline Cutaway Vehicles (as received from the Ford plant)

The driveline angles for the Econoline Cutaways are designed to be optimum when the completed vehicle is loaded near the Gross Vehicle Weight Rating (GVWR). When the cutaway chassis is unloaded ("bare"), the driveline angles are **not** optimized and some objectionable driveline vibration can be expected. This is especially true with the E-Super Duty chassis. Therefore, do not attempt to eliminate driveline vibrations noticed on a "bare" Econoline Cutaway chassis unless there are loose driveline components or there is visual damage to the driveline. If the chassis driveline is to be modified during the vehicle build process, refer to Bulletins Q-14, Q-18 and Q-40.

Completed Vehicles having Modified Drivelines

QVM Bulletins Q-14, Q-18 and Q-40 describe methods to modify ("stretch" or "shrink") the Econoline Cutaway chassis wheelbase and give guidelines for modifying drivelines. Because of the many different configurations of completed vehicles, these Bulletins can only be considered guidelines and the builder has the final responsibility for the modified driveline design. Field investigations of many driveline vibration issues shows that driveline balance and runout specifications stated in Q-14 are often not being met and that some driveline angles do not meet Q-14/Q-40 guidelines. Assistance in driveline design and obtaining components that meet these requirements can be obtained from Dana-Spicer.

- Driveline Design Assistance — Dana Driveline Service Division: 1-419-866-3900
- Dana-Spicer Parts Distributor Location Assistance: 1-800-729-3262

If you have any questions about this bulletin or need copies of the reference bulletins, please contact the Body Builders Advisory Service on 800-635-5560.

Sincerely,

A. I. Jowa — Supervisor
Personal Use and Commercial
Quality Programs