



STAR ONLINE PUBLICATION



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Symptom/Vehicle Issue: Engine Noise

Customer Complaint/Technician Observation: Customer complaint may include noise from the engine compartment. The noise may be described as a valvetrain-type noise or noise in the upper part of the engine.

Discussion: Proper noise diagnosis is essential in locating the source of a Noise, Vibration, and Harshness (NVH) complaint. Locating a lash adjuster (tappet)-type noise can sometimes be difficult. As a result, an initial misdiagnosis may occur.

Refer to the lash adjuster (tappet) noise chart (included in the service information) for possible causes and correction of a lash adjuster (tappet)-type noise.

Note:

- Normal exhaust hydraulic lifters are designed to be compressible, but they will exert a reactionary spring force during compression and return to full expansion without a compression force.
- Normal intake hydraulic lifters should feel very firm and difficult to compress. Intake hydraulic lifters have a dual feed feature to accommodate the two-step Variable Valve Lift (VVL) system.

Refer to the service manual repair procedure once the root cause has been identified and for a list of any special tools or equipment required.

This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

Contact STAR Center, or your Technical Assistance Center Via TechCONNECT or eCONTACT ticket if no solution is found