

## STAR Case

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**Case Number:** S1309000016

**Release Date:** 03/18/2014

**Symptom/Vehicle Issue:** Ticking/Tapping Noise From Upper Engine Area

**Diagnosis:** Remove components required to gain access for proper inspection of each rocker arm roller bearing for missing or worn needle bearings (**Fig.1** & **Fig.2**). Also inspect for collapsed lash adjusters (**Fig.3**) and replace as required. Please note that this condition is typically found on vehicles with mileage accumulation of 15K miles or more.

**NOTE:** This failure may also set DTC for Mis-Fire.



(Fig.1)



(Fig.2)

**[Contact the STAR Center for assistance if no solution is found](#)**

# STAR Case



(Fig.3)

## Repair Procedure:

Replace all rocker arms with latest superseded part.

## Verification:

1. Reassemble engine per service procedures listed in TechCONNECT.
2. Start and run engine and listen for ticking /tapping noise.
3. Operate engine until normal operating temperature is reached.
4. Road test vehicle. Verify normal operation.
5. Verify noise has not returned

**Contact the STAR Center for assistance if no solution is found**