

# Technical Bulletin

Division: Automotive

Section Title: Engine

Category: Grand Vitara/XL-7

TSB No. TS 07 03014R2

**SUBJECT: TIMING CHAIN TENSIONER**
**MODEL(S): GRAND VITARA/XL-7**
**YEAR: 1999-CERTAIN 2002**

**CONDITION:** Loud chain rattling noise from right front of engine behind the timing cover. Noise is usually loudest when engine is started cold.

**CAUSE:** Number 1 Timing Chain Tensioner not adjusting properly.

**CORRECTION:** Remove front timing chain cover and replace ONLY the Number 1 Timing Chain Tensioner (Part Number 12831-85FA7 or latest part number). For removal and installation procedures for the Number 1 Timing Chain Tensioner, refer to the Engine Mechanical Section of the applicable Suzuki Service Manual. Reseal front timing chain cover as outlined in TSB 06 02244R2.

**REVISION:** #1 tensioner noise normal for first 5 seconds of engine operation. New part #.

**NOTE:**

- **DO NOT REPLACE TENSIONER #2 OR #3.**
- **NOISE FROM THE #1 TENSIONER IS CONSIDERED NORMAL FOR THE FIRST FIVE SECONDS OF ENGINE OPERATION**

**AFFECTED VIN(S): GRAND VITARA**  
 ~JS3TD62V424155323  
 ~JS3TE62V324152023

**XL-7**  
 ~JS3TX92V424116207  
 ~JS3TY92V224104358

**PART(S) INFORMATION:**

PART NUMBER	DESCRIPTION	QTY	NOTES
12831-85FA7	ADJUSTER ASSY, TENSIONER (#1)	1	Do not replace tensioner #2 or #3.
99104-31140	Suzuki Bond #1207B	1*	Use <b>only</b> this sealer.
99000-31250	Suzuki Bond #1207F	1*	Use <b>only</b> this sealer.

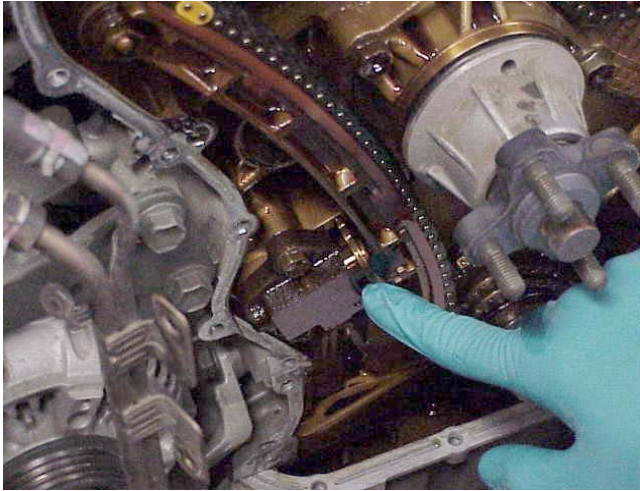
\*One tube will do multiple engine covers.

Technical Service Department  
 Dealership Circulation - Initial and file:

Service Manager	Parts Manager	Service Advisor	Technicians						

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### TENSIONER ADJUSTER ASSEMBLY (#1) LOWER RIGHT FRONT SIDE OF ENGINE

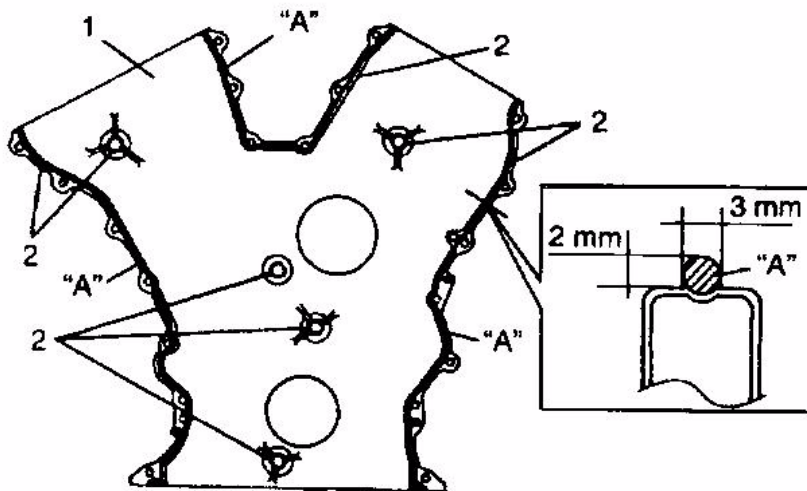


### CLOSE-UP OF TENSIONER ADJUSTER ASSEMBLY (#1)



### FRONT TIMING CHAIN COVER RESEAL

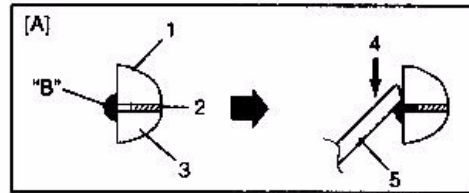
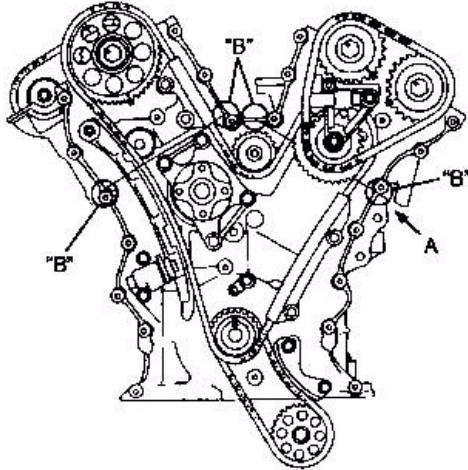
1. Clean sealing surface on timing chain cover, crankcase, cylinder block and cylinder heads. Remove oil, old sealant, and dust from sealing surface.
2. Apply sealant "A": Suzuki Bond 1207F (#99000-31250) to timing chain cover sealing surface area as shown in the figure. Ensure proper sealant bead. Do not over apply.



1. Timing chain cover
2. Sealant "A"

3. Apply sealant "B": Suzuki Bond 1207B (#99104-31140) to the mating surfaces of the cylinder heads and cylinder block as shown. Use a plastic scraper as a jig to force the sealer into the air gap formed by the cylinder head, block and head gasket as shown in call-out "A" below. There are four areas "B" where this must be performed.

**NOTE: Failure to perform this step will result in oil weepage/seepage that will migrate down the front side of the engine block. This may appear and be misdiagnosed as a crankshaft oil seal leak.**



1. Cylinder Head
  2. Cylinder Head Gasket
  3. Cylinder Block
  4. Rub Into
  5. Plastic Scraper or Equivalent
- [A]: View A