



Technical Service Bulletin

Engine

EG-0031L-0516

Subject:

UR engine, clattering noise from the timing chain during idling

Models:

GS F; GS460; LEXUS IS F; LS460; LS600h; LX570; RC F

Model codes:

URL10; URS190; USE20; USF40; USF41; USF45; USF46; UVF45; UVF46; URJ201; USC10

INTRODUCTION

This Technical Service Bulletin is to inform you of the production change and repair method for the subject phenomenon. Applicable to vehicles produced before the production change effective VIN's shown below.

DESCRIPTION OF PHENOMENON

Some customers may experience and report a clattering noise coming from the engine compartment during engine warm up idling. Once the engine is warmed up the noise disappears.

Property change of the timing chain tensioner no.1 Left Hand causes the chain tension to fluctuate. Due to this some timing chain slapping may occur.

PRODUCTION CHANGE

The timing chain tensioner no.1 Left Hand has been changed to prevent this issue from occurring.

PRODUCTION CHANGE INFORMATION

Model	Model code	Production change effective VIN	Implementation date
ISF	USE20	This vehicle is no longer in production	
GS460	URS190		
GS F	URL10	To Be Confirmed	May 2016
LS460	USF4#		
LS600h	UVF4#	JTHCU46F905022228	April 2016
GX460	URJ150	JTJJM5FX705142260	
LX570	URJ201	JTJHY00WB4210190	

PARTS INFORMATION

Previous part number	Current part number	Part name	Quantity
13540-38041	13540-38042	Tensioner assy, chain, no.1	1



REPAIR PROCEDURE

Replace the “Tensioner assy, chain, no.1” by the new part number.

For the detailed description of the repair procedure, refer to the model’s repair manual:

“ENGINE → ENGINE → MECHANICAL → TIMING CHAIN → NO.1 CHAIN TENSIONER ASSEMBLY REMOVAL”

WARRANTY INFORMATION

For the warranty application, please refer to the applicable warranty policy and procedures manual.

Model code	OP code	Operation	Time	OFF	T1	T2
USE20	140111	Chain tensioner assembly R&R	6.3	13540-38041	91	43
URS190	140111	Chain tensioner assembly R&R	7.3			
	140111 S	Chain tensioner assembly R&R w/o direct fuel injection	6.1			
URL10	140111	Chain tensioner assembly R&R	7.5			
USF40 USF41	140111	Chain tensioner assembly R&R	6.4			
	140111 S	Chain tensioner assembly R&R w/o direct fuel injection	6.0			
USF45	140111	Chain tensioner assembly R&R	18			
USF46	140111	Chain tensioner assembly R&R	18			
UVF45	140111	Chain tensioner assembly R&R	20			
UVF46	140111	Chain tensioner assembly R&R	20			
URJ150	140111	Chain tensioner assembly R&R	8.6			
URJ201	140111	Chain tensioner assembly R&R	7.9			

Note: The implementation of this TSB for rectification of the phenomenon reported requires the mandatory CCR (Condition, Cause, Remedy) comments in the warranty claim for further detailed technical analysis. It is required to mention this TSB number in the Remedy field. Failure to comply with this requirement could lead to claim rejection.