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Document ID: IK1600269

Availability: ISIS, FleetISIS, Body Builder, IsSIR

Major System: CAB / SLEEPER / HOOD

Current Language: English

Other Languages: NONE

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Coding Information

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Title: LT Hood Squeak, Rattle and Bouncing

Applies To: LT RH Hood Service

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

04/23/2024 - Add P/N for grease
03/29/2024 - Initial Article Release

DESCRIPTION

This document will guide the user through Various field repairs to eliminate the squeaks, rattles, knocking, and/or bouncing of the engine hood on International LTs and International RHs. For any other hood alignment or adjustment issues please refer to the current truck service manual for LT and RH for the proper procedures.

REFERENCE DOCUMENTS

iKNOW Article IK1600265 – Hood Guide Installation

iKNOW Article IK1600247 - Hood Gap and Alignment Tolerances

SYMPTOM(s)

During vehicle movement, the engine hood may squeak, rattle, knock, and or bounce.

Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):

N/A – There are no trouble Codes or Indicator Lights for this symptom.

Customer Observations or Concerns:

The driver may experience excessive noise or see excessive movement of the engine hood during vehicle operation. The noises or movements do not create a safety concern but are merely an annoyance to the occupants of the truck as long as both hood latches are properly engaged.

SPECIAL TOOL(s) / SOFTWARE

SERVICE PARTS INFORMATION

Part Description	Part Number	Quantity Required	Notes
BRACKET, SUPPORT, HOOD, LH	3810978C5	1	
BRACKET, SUPPORT, HOOD, RH	3810979C5	1	
BOLT, TORX FLAT HD M10-1.5 X 30	3811528C1	4 per side	OK to reuse originals
GREASE, HEAVY CHASSIS	VARIOUS	As needed	Purchase locally
GREASE, MEDIUM CHASSIS (Optional)	4097990R1-400GMKK	As needed	Not available through the parts catalog. Ref: Dow Corning Molykote 44 Medium
RIVET, 3/16" BLIND ALUM - .5" -.625" GRIP	552870C1	2	May substitute
RUBBER, MUD FLAP STRIP - 1/4" THK, 1" X2.5"	N/A	1	Fab in house

DIAGNOSTIC STEP(s)

Issue #1: Hood Noises – Squeaking or Rattling

Drive the truck over various road conditions to determine if the hood makes squeaking or rattling noises. The noises generally occur when the truck is rocking over uneven surfaces at speeds generally over 5-10 MPH.

Issue #2: Hood Knocking and Bouncing

Drive the truck over various road conditions to determine if the hood knocks or bounces. The bounce condition can be seen at the top of the hood where it meets the base of the windshield and generally occurs when the truck is moving at speeds of 45 MPH or higher. When the hood starts to bounce it will normally create a knocking noise when it bounces against the hood stops.

IMPORTANT NOTE: Before completing any of the diagnostic steps below, verify that the hood is properly mounted and aligned per iKNow Article IK1600247 - Hood Gap and Alignment Tolerances. Also verify the hood stops and hood latch hardware are properly secured and that these parts are not loose, bent, or damaged. If so, replace the damaged/defective parts before proceeding.

Step	Action for Issue #1	Decision
#1	DIAGNOSTIC: Hood Squeaking and or rattling Does the hood squeak or rattle during vehicle operation?	Yes. Apply heavy chassis grease to both hood stops and hood guides (Left/Right) per repair steps below
		No. No action required

Step	Action for for Issue #1	Decision
#1A	DIAGNOSTIC: Hood Squeaking and or rattling Does the hood squeak or rattle during vehicle operation after newly added heavy grease is applied?	Yes. Install rubber spacers to hood guides on the hood where they meet the hood stops per the repair steps below (Left/Right)
		No. No action required

Step	Action for Issue #2	Decision
#2	DIAGNOSTIC: Hood Bounce & Knocking Does the hood bounce and knock during vehicle operation?	1. Install rubber spacers to hood guides on the hood where they meet the hood stops per repair steps below (Left/Right)
		2. No action is required

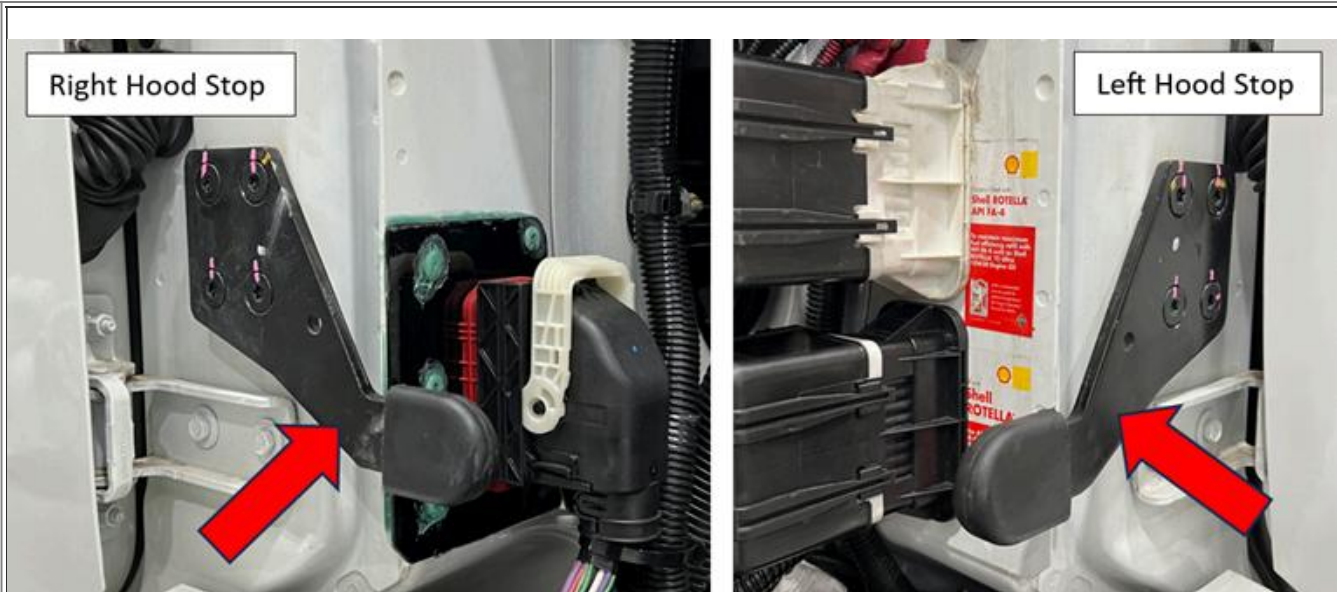


Figure 1: Hood Stops as mounted to the Cab

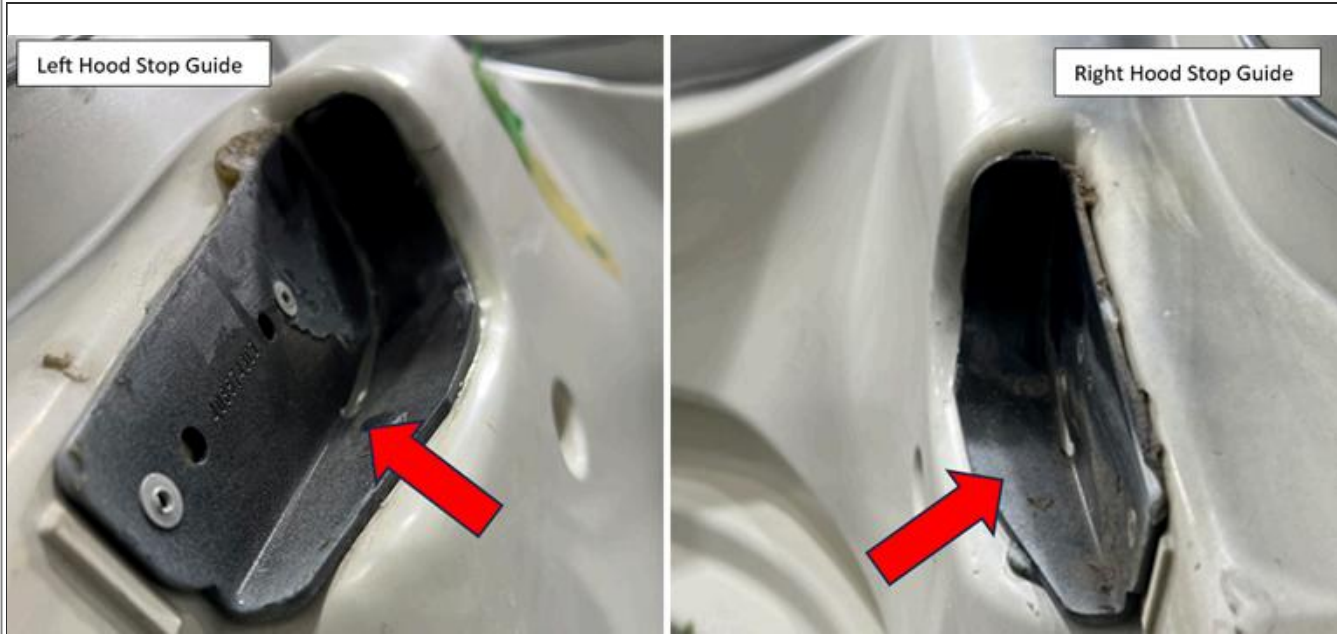


Figure 2: Hood Guides as mounted to the hood B-side

REPAIR STEP(s)



Figure 3: Newly added Grease to Hood Stops and Hood Guides

The standard repair for the hood bouncing and or knocking is to rivet a hand-fabricated rubber spacer onto both hood guides to fill the space between the hood stop and the end of the hood guide when the hood is closed. (See Figure #4) Use a high-quality piece of rubber such as a slice off of a mud flap. The thickness should be approximately 1/4" to 3/16" thick and approximately 1.0" X 2.5" in size. (See Figure #5 Left side is shown, the right side is the opposite)

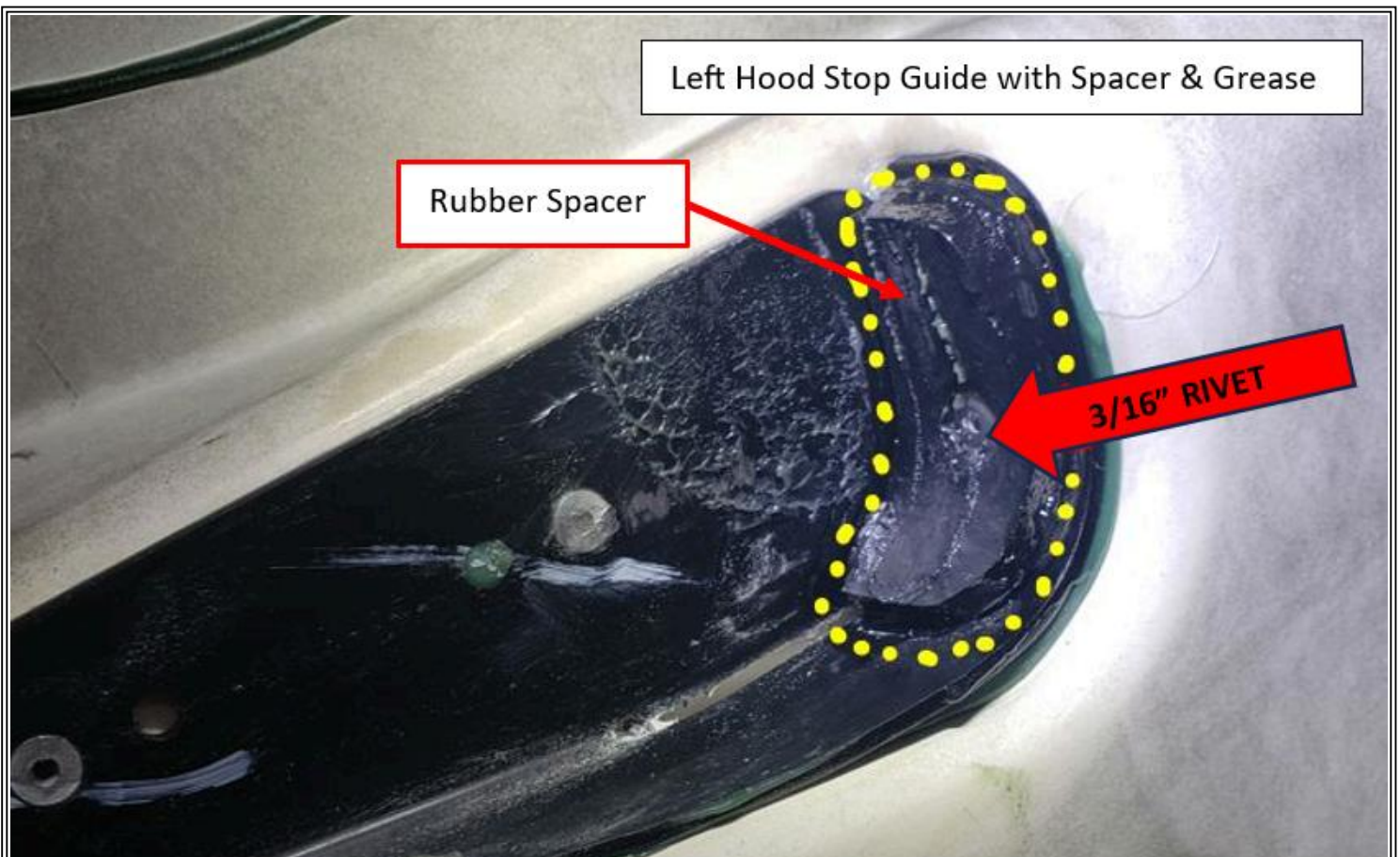


Figure #4: Rubber spacer riveted to hood stop guide with added grease

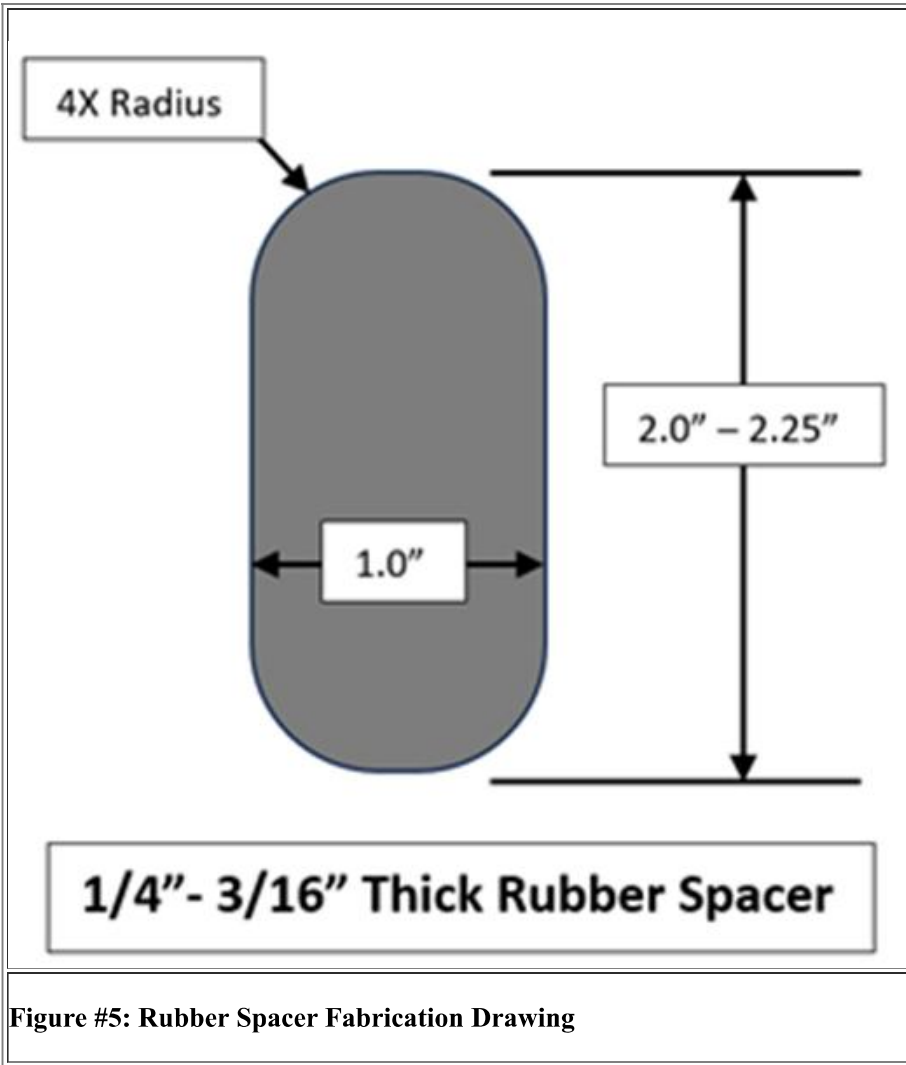


Figure #5: Rubber Spacer Fabrication Drawing

WARRANTY INFORMATION

Warranty Claim Coding:

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

Standard Repair Time(s):

Refer to the [SRT Manual](#) for Repair Times

OTHER RESOURCES

[Master Service Information Site](#)

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