

## STAR ONLINE PUBLICATION

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**Case Number:** S2123000020

**Release Date:** 04/02/2021

**Symptom/Vehicle Issue:** A Buzz, Squeak, Rattle (BSR), Clicking Noise Heard From Left Side Of The Freedom Top.

**Discussion:** BSR from Left Hand Freedom Panel Pin to Bracket Receiver. The Hard Top Freedom Panel guide pin may scrub up/down in the receiver locating hole causing the noise, typically driving at low speeds. The below procedure will deburr or remove sharp edges from the left side receiver bracket hole for the Freedom panel location pin.

**Repair Procedure:** Remove the left side panel from top of vehicle and set it aside.

**NOTE:** Proper PPE (personal protection equipment) such as safety glasses, face shield, mask, gloves, shop apron or protective jacket are required to protect yourself from metal shavings. In addition, having an assistant with a shop vacuum cleaner running at the drill area will help reduce cleanup after deburring the hole.

1. Sit in driver seat with a drop cloth on your lap to catch drill debris. Fig 1

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

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Fig 1

2. Use a 10mm diameter drill bit to drill through the receiver bracket hole from underneath as shown in Figure 2.



Fig 2

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3. Use a 1/2 inch Diameter Countersink bit on top of receiver bracket as shown and remove the sharp corner and burr from the upper hole diameter. Figures 3 and 4.



Fig 3: 1/2 inch Diameter Counter Sink bit



Fig 4

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3. Insert 1/2 inch Diameter countersink drill bit into receiver bracket hole from underneath and remove the sharp corner and burr from the upper hole diameter. Clean out debris in the receiver bracket hole if needed (Fig 5).



Fig 5

4. Apply a light coating of synthetic grease with a rating of GL-CB grade 2 such as Super Lube with PTFE or equivalent (fig 5) in the receiver bracket hole from the top using the brush applicator. Rotate/move the brush around in the hole to make sure the inner wall of the hole is fully greased. No grease residue sticking out from underneath the bracket part (fig 6).

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Fig 6



Fig 6

5. Check to make sure vehicle is free of drill debris. Reinstall the Left Side Freedom Panel.

Test drive vehicle to confirm the repair.

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