



SI B31 01 18  
Front Axle

March 2018  
Technical Service

## NOISE FROM FRONT AXLE WHEN STEERING

### MODEL

I01 (i3s & i3s REx)			
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Production through 1/19/2018.

### SITUATION

Chattering or squeaking noise is heard (refer to attached video <https://tinyurl.com/y9kwrucl>) from the front axle under the following steering conditions:

- Turning
- Parking
- Stationary Steering

Ambient temperature is between 14°F (-10°C) and 50°F (10°C).

Easiest to duplicate during periods of high humidity.

### CAUSE

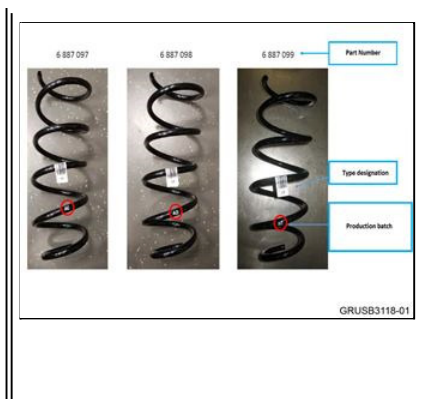
Front coil spring assembly.

### CORRECTION

After verification of conditions specified in the Situation, replace front coil springs and top spring pad/protective tubes.

### PROCEDURE

<p><a href="https://tinyurl.com/y9kwrucl">https://tinyurl.com/y9kwrucl</a></p>	<p>1. Attempt to reproduce the noise as indicated in the video.</p> <p><b>Was the noise produced under the conditions indicated in the Situation?</b></p> <p><b>YES-</b> go to next step.</p> <p><b>NO –</b> continue diagnosis with ISTA</p>
	<p>2. Before starting, check the production code of the replacement coil as shown.</p> <p><b>Is the coil spring marked with “AD”, “AE” or “AG” where indicated?</b></p>



**YES-** go to next step.

**NO** – obtain an acceptable replacement part with the proper code, then go to next step.

3. Install coil spring and spring pad/protective tube following repair instructions REP 31 33 100 – “Replace coil spring front left / right”.
4. Repeat procedure on opposite side of vehicle.

## PARTS INFORMATION

Part Number	Description	Quantity
Refer to ETK	Coil springs	2
31 33 6 852 223	Spring pad with guard tube, top	2
33 32 6 760 368	Hexagon nut with collar	2
33 32 6 768 884	Hexagon nut with collar	4
07 11 9 909 362	Star socket screw	2

Refer to ETK by VIN to obtain the coil spring part number.

## WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks.

<b>Defect Code:</b>	<b>3133003900</b>	
<b>Labor Operation:</b>	<b>Labor Allowance:</b>	<b>Description:</b>
31 33 120	Refer to KSD2	Removing and installing or replacing coil springs of both front spring struts (Main work)
Or:		
31 33 589	Refer to KSD2	Removing and installing or replacing coil springs of both front spring struts (Plus work)
Or:		
31 33 590	Refer to KSD2	Removing and installing or replacing coil springs of both front spring struts

	(Associated work, spring struts completely removed)
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If you are using a Main labor code for another repair, use the Plus code labor operation 31 33 589 or the Associated code labor operation 31 33 590 as applicable instead of 31 33120.

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