

October 2016 Technical Service

# **GROANING/CRACKING NOISE DURING STEERING**

## MODEL

G12 (7 Series xDrive)

# SITUATION

A significant cracking noise/groaning noise coming from the area of the steering shaft/steering column while steering.

### CAUSE

Steering shaft double cross joint.

# CORRECTION

Operate steering through entire range of motion from end to end numerous times.

# PROCEDURE

For conditions that are similar to the situation described:

1. Lift the vehicle on a hoist and turn the steering at least 10 times stop to stop.

Did this eliminate the groaning/cracking noise?

YES – The repair is complete.

NO – Go to next step.

- 2. Remove the double cross joint and manipulate by hand in all tilting levels, respectively offset by 90°, at least 10 times from stop to stop.
- 3. Reinstall the double cross joint using new bolts according to REP 32 31 211.

# PARTS INFORMATION

Part Number	Description	Quantity
32 30 6 778 609	Torx Bolt, M8x33	1

Installation of a new double cross joint DOES NOT provide a solution.

### WARRANTY INFORMATION

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

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#### A. Turning the Steering Stop to Stop

Labor Operation:	Labor Allowance:	Description:
32 99 000	4 FRU	Work time to lift vehicle and turn the steering stop to stop (At least 10 times) (Main work)
Or:		
32 99 000	2 FRU	Work time to lift vehicle and turn the steering stop to stop (At least 10 times) (Plus work – Vehicle is already in the workshop)

Or:

#### B. Turning the Steering Stop to Stop and Manipulating the Double Cross Joint

Labor Operation:	Labor Allowance:	Description:
32 99 000	2 FRU	Work time to lift vehicle and turn the steering stop to stop (At least 10 times) (Plus work – Vehicle is already in the workshop)
And:		
32 31 579	Refer to KSD2	Removing and installing universal joint for lower steering spindle to manipulate as outlined
And:		
00 00 006	Refer to KSD2	Performing "vehicle test" (with vehicle diagnosis system – checking faults)
And:		
61 21 528	Refer to KSD2	Connect an approved battery charger/power supply(indicated in KSD2 as "Charging battery")
And:		
32 13 905	Refer to KSD2	Start-up, electric power steering (EPS)

If you are using a Main labor code for another repair, use the Plus code labor operation 00 00 556 instead.

Refer to KSD2 for the corresponding flat rate unit (FRU) allowances.

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