

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.

Defect Code: 3231003900	
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A. Turning the Steering Stop to Stop

Labor Operation:	Labor Allowance:	Description:
32 99 000		Work time to lift vehicle and turn the steering stop to stop (At least 10 times) (Main work)

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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.