



STEERING GEAR MOVEMENT NOT SMOOTH

MODEL

F22 (2 Series Coupe)	F23 (2 Series Convertible)	F30 (3 Series Sedan)	F32 (4 Series Coupe)
F34 (3 Series Gran Turismo)	F36 (4 Series Gran Coupe)	All with basic steering	

SITUATION

Stiff movement in the steering or sticks when steering from one limit position to the other

CAUSE

Unfavorable software of the Electric Power Steering (EPS)

CORRECTION

Program the vehicle to I level F020-19-03-522 or a higher version with ISTA 4.16.1x.

PROCEDURE

Verify customer complaint.

Program vehicles with ISTA 4.16.1x to I-Level F020-19-03-522 or higher.

Model	Target I-level
F22	F020-19-03-522 or higher
F23	F020-19-03-522 or higher
F30	F020-19-03-522 or higher
F31	F020-19-03-522 or higher
F32	F020-19-03-522 or higher
F34	F020-19-03-522 or higher
F36	F020-19-03-522 or higher

Note that ISTA Next will automatically reprogram and code all programmable control modules that do not have the latest software.

Always connect a BMW-approved battery charger/power supply([SI B04 23 10](#)).

For information on programming and coding with ISTA, refer to CenterNet / TIS / Technical Documentation / Programming and Diagnostics / Programming Documentation

WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks or the BMW Certified Pre-Owned Program.

Defect Code:	3213023400	
Labor Operation:	Labor Allowance:	Description:
00 00 006	Refer to AIR	Performing vehicle test (with vehicle diagnosis system – checking faults) (Main work)
Or		
00 00 056	Refer to AIR	Performing vehicle test (with vehicle diagnosis system – checking faults) (Plus work)
And		
61 21 528	Refer to AIR	Connect an approved battery charger/power supply (indicated in AIR as Charging battery)
And		
61 00 730	Refer to AIR	Programming/encoding control unit(s)

If you are using a Main labor code for another repair, use the Plus code labor operation 00 00 556 instead of 00 00 006.

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

During the same workshop visit, if a vehicle also requires another Technical Campaign or repair that also includes programming and encoding the control units, the programming procedure may only be invoiced one time.

Programming and Encoding - Vehicle Control Units

The programming procedure automatically reprograms and encodes all vehicle control modules which do not have the latest software i-level. If one or more control module failures occur during this programming procedure:

- A. Please claim this consequential control module-related repair work under the defect code listed in this bulletin with the applicable AIR labor operations.
 - Please explain this additional work (The why and what) on the repair order and in the claim comments section.
- B. B. For control module failures that occurred prior to performing this programming procedure; and/or
 - Other work/repairs that results from performing ISTA diagnostics and the related test plans:

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