



AUTOMATIC TRANSMISSION DRIVEABILITY COMPLAINTS

MODEL

F15 PHEV (X5)	F30 PHEV (330e)	G12 PHEV (740e xDrive)	
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SITUATION

- Hesitant drive off, sluggish driving behavior.
- The Automatic Transmission (AT) switches into emergency mode and operates only in first gear,
- Manual shifting (+/-) in Sport Program (using both gear selector and/or shift paddles) is not possible.
- 44E257 – “**N6 speed sensor: Direction of rotation invalid**” is stored in transmission control module

CAUSE

Transmission Control Unit (GKEG3HY) software

CORRECTION

Reprogram vehicle.

PROCEDURE

For conditions that are similar to the situation described:



Note: Exchange of the mechatronics does not provide a solution.

1. Using ISTA, check the integration level to which the vehicle has been programmed.

Is the vehicle at integration level 16-11-501 or higher?

YES - follow the recommendations of the diagnosis.

NO - Continue to next step.

2. Check the fault memory of the transmission control unit.

Was fault code “44E257 – N6 speed sensor: Direction of rotation invalid” registered less than two times?

YES - recode and reprogram the vehicle with ISTA Next 4.02.10 or ISTA/P 3.60.0 or a more recent version.

NO - follow the recommendations of the diagnosis.

Note that ISTA/P 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/P, refer to CenterNet / TIS / Technical Documentation / Diagnostics and Programming / 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:	2400215900	
Labor Operation:	Labor Allowance:	Description:
00 00 006	Refer to KSD2	Performing “vehicle test” (with vehicle diagnosis system – checking faults) (Main work)
Or:		
00 00 556	Refer to KSD2	Performing “vehicle test” (with vehicle diagnosis system – checking faults) (Plus work)
And:		
61 21 528	Refer to KSD2	Connect an approved battery charger/power supply (indicated in KSD 2 as Charging battery)
And, as necessary:		
61 00 006	Work time (WT)	Performing vehicle diagnosis – test module
And:		
		Programming/encoding

61 00 730

Refer to KSD2

control unit(s)

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.

Work time labor operation code 61 00 006 is not considered a Main labor operation; however, it does require an individual punch time and an explanation on the repair order and in the claim comments section.

Vehicle Programming and Coding

When ISTA/P automatically reprograms and codes all the vehicle's control modules that currently do not have the latest software, and if control module failures occur during this programming procedure:

- Please claim this consequential control module-related repair work under the defect code listed in this bulletin with the applicable KSD2/AIR labor operations.

Other Repairs

Control module failures that occurred prior to this programming procedure and/or additional work is performed as a result of performing the ISTA diagnostics and related test plans:

- When covered under an applicable limited warranty, claim the control module-related and/or other repair work using the applicable defect code and labor operations in KSD2/AIR.

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