



## KAFAS CAMERA-BASED ASSISTANCE SYSTEM LIMITS

### MODEL

F07 (5 Series Gran Turismo) with option OE 5AS	F10 (5 Series Sedan) with option OE 5AS	F15 (X5) with option OE 5AS	F16 (X6) with option OE 5AS
F25 (X3) with option OE 5AS	F26 (X4) with option OE 5AS	F48 (x1 sDrive 28i or xDrive 28i) with options OE 5AS OE 5AT OE 5AV	I01 (i3 & i3 REx) with option SA 5AT
I12 (i8 & i8 REx) with option OE 5AS			

### SITUATION

KAFAS camera-based assistance system (without radar) is not operating up to customer expectations.

Customer reports system errors such as:

- Vehicle with active Video ACC brakes without apparent reason and then does not accelerate.
- When Video ACC is active, the vehicle does not brake, although it is obvious it should brake, or it even accelerates.
- KAFAS system deactivates independently, due to system limitations that are not clear to the customer.
- KAFAS system cannot be activated due to system limitations that are not clear to the customer.
- When accelerating from a standstill, the vehicle does not automatically start in "Follow mode".
- Road signs are sporadically not detected.
- Lane departure warning sporadically fails to function.

**For the situations described in this service information bulletin that pertain to normal system limitations, ISTA diagnosis does not show any relevant fault codes stored. The only exception is KAFAS fault code 0x800AC4 – “Camera calibration unsuccessful”. Follow the recommendation in the table below for each situation.**

If other fault codes are stored for driver assistance systems, the information in this service

information does not apply. Complete the test plans linked to the other fault codes in order to correct the problem.

## INFORMATION

The situations described above may all be caused by known limitations of the system such as:

- Dirty windshield
- Incomplete calibration process
- Unsuccessful calibration
- Restricted visibility- weather conditions or parked vehicles
- Missing lamps on target vehicle
- Non-standard vehicle exterior surfaces
- Insufficient ambient lighting
- Abrupt motion of target vehicle

There are two categories of system limitations – those that can be eliminated and those that are beyond control. The following table details possible limitations and what, if anything, can be done to eliminate or explain them.

Limitation	Recommendation	Notes
Obstructed camera view	Remove obstruction	Clean windshield Replace wipers
Calibration incomplete	Complete calibration	Calibration is a lengthy process. Some features may be non-functional during calibration. No faults stored during calibration period. Calibration needed after windshield replacement.
Calibration failed	Diagnose with ISTA.	Fault code 0x800AC4 - Camera calibration unsuccessful stored in KAFAS memory >3 times.
Weather conditions	Inform customer	Possible situations: • strong rain • snowfall • ice • fog • low or blinding sun (strong back light) • tunnel entries/exits (abrupt transitions light/dark)
Non-typical surrounding vehicles	Inform customer	Possible situations: • Rear of vehicle poorly illuminated • Extinguished taillights • Custom rear body shape • Carried load (log truck) • Open Trailers • Open tailgates
Surrounding vehicle/pedestrian	Inform customer	Possible situations: • Sudden movement in traffic • Too close to/on

actions		highway
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For more detailed information concerning system capabilities and limitations, refer to the attached Product Information document.

## **WARRANTY INFORMATION**

Not applicable

## **ATTACHMENTS**

View PDF attachment [B662116 KaFAS Product info ENG](#).

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