



Technical Service Bulletin

GROUP

BODY ELECTRICAL

NUMBER

17-BE-005-G

DATE

DECEMBER, 2017

MODEL(S)

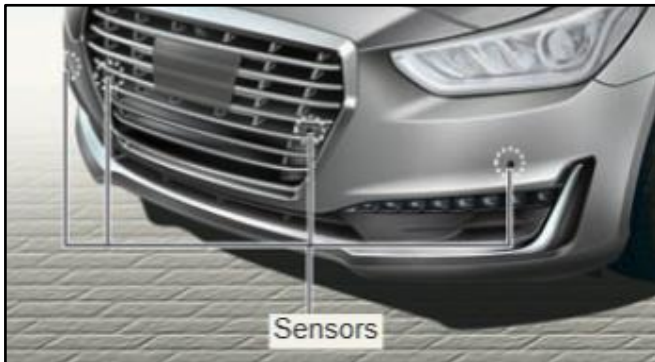
ALL

SUBJECT:

PARKING ASSIST SYSTEM (PAS)

Description: This TSB provides information about the parking assist systems (PAS).

Applicable Vehicles: All Vehicles Equipped with a Parking Assist System.



Warranty Information: Normal Warranty Applies

Circulate To: General Manager, Service Manager, Parts Manager, Warranty Manager, Service Advisors, Technicians, Body Shop Manager, Fleet Repair

MATERIALS THAT CAN CAUSE PAS INTERMITTENT MALFUNCTION

1. The PAS may malfunction intermittently due to external noises. The PAS sensor which uses ultrasonic waves with low frequency (48 KHz) is vulnerable to external noise generated from various conditions.



Vertical axis of the graph: Signal strength

Horizontal axis of the graph: Frequency

○ : Signal interference between the PAS sensor and external noise.

2. Tesla vehicles generate a 47.8 KHz ultrasonic wave regardless of vehicle speed. If a Genesis vehicle approaches too closely to a Tesla vehicle, when PAS is active, the system may malfunction.



PARKING SENSOR “Check System” WARNING ON INSTRUMENT CLUSTER


Symptom	Cause	Corrective Action
The “ Check System” warning message is continuously displayed on the cluster.	The Sensor has a fault.	The Sensor must be replaced.
The “ Check System” warning message is continuously displayed on the cluster.	When water droplets stay on the sensor, they can obstruct the sensor vibration and cause an error condition.	Remove the droplets. Once the droplets have been removed, the warning message will go away and the system will work as designed.

NOTICE

The error above may not trigger a DTC.

PAS TROUBLESHOOTING

1. Confirm if the PAS malfunction occurs in the service shop.
2. Confirm the frequency of the PAS malfunction by consulting with the customer.
3. If the PAS malfunction is reproducible, confirm if there are any particular factors such as external noise from bus, motorcycle, or Tesla vehicles nearby.
4. If the PAS malfunction is not caused by external noise, then the PAS sensors may be replaced based on diagnosis results.