■ Fault symptom

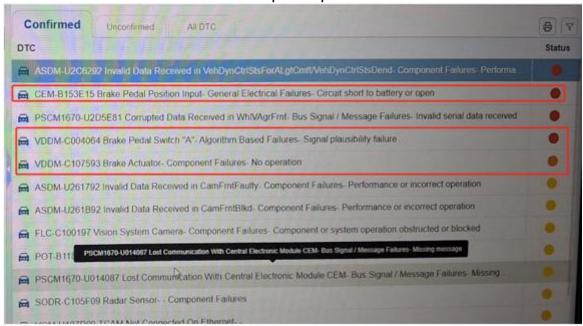
Customer complained that Auto Hold service required alarm message prompted on the IPC screen, but all vehicle functions were normal while

driving.



■ Fault diagnosis process

1. Use GLDS2.0 to read the fault codes and got the following fault codes. Three of them involved the brake pedal position switch

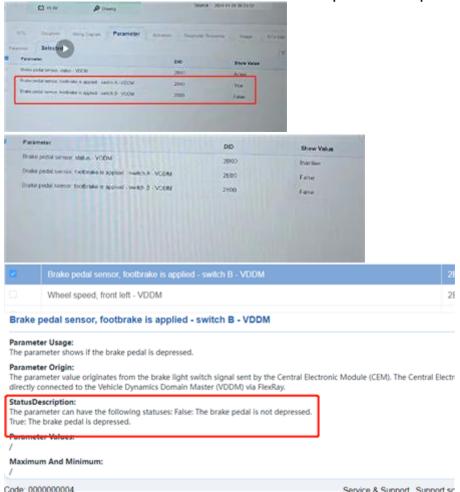


2. Technician checked the circuit of the brake light switch, especially the power supply and ground circuits, and it was normal.

Connector	Pins	Terminal Definition	Signal Type	Direction	То	Pins
1/1/24	,	waxe_up	V6304B		harness - floor harness	44
7/124	2	Dout	Sensor + V7062A		4/56.ENG Central Electronic Module (CEM), Default	13
7/124	3	Signal_output	Sensor signal VA5086B		94/303 Cable harness connector, engine bay harness - floor harness	43
7/124	4	Supply	Supply voltage S8523A		15/49.EJB1_B Fuse box, engine, Default	28
7/124	5	Ground	Ground G0550C		SP0550B	junction

3. Reading the data stream of VDDM parameter, it was found that one of the signal data of the brake pedal position sensor was abnormal. When pressing and releasing the brake pedal, the data always displayed FALSE.

According to the status description of this signal, the signal should change between TRUE and FALSE as the brake pedal is depressed and released.



4. Compared to other normal vehicles, it was found that the signal of the faulty vehicle was indeed abnormal.

Because the brake light signal is transmitted to the CEM module through sensors, and then to the VDDM through Flexray from CEM module, so technician further checked that the wiring from the sensor to the CEM module, and it was found normal.

5. Replaced the brake light switch and retested. It was found that the brake pedal signals data stream returned to normal, and the prompt alarm was eliminated. Problem solved.

■ Fault analysis

Brake pedal sensor malfunction abnormal problem occurred.

■ Fault solution

Replaced the brake pedal sensor and problem was solved

Quality inspection & repair confirmation

Recheck again and confirm problem is solved.