

PCM2.1 GPS-Generated Date and Time Are Not Reliable From April 2019

Vehicles Affected

Model	Model Year	Model Type	VIN Range	Vehicle-Specific Equipment
All models with PCM2.1	All	All	N/A	N/A

Revision History

Revision	Release Date	Changes
0	December 20, 2019	Original document

Condition

In older vehicles, the date and time generated by GPS are not correct.

Technical Background

Older GPS systems (such as those used on PCM2.1) and satellites represent the date and time as a 10-digit counter. This counter increments to a maximum of 1024 weeks, or about 19.7 years, then it resets, or “rolls over”, back to zero and starts counting again. This rollover occurred on April 6, 2019. Newer GPS systems and satellites use a 13-digit counter that is accurate for a longer period. This conflict between systems and satellites creates a condition where, since April of 2019, the PCM may not display an accurate date and time. It is not possible to manually select which satellite the PCM uses.

Service Information

Change the time setting to manual instead of GPS time. This is the only way to get the correct time and date for these cars.

Search Items

GPS; time; date; rollover

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