

SAS01T to SAS03T Replacement

Field Service Bulletins TSB-54-373-FTL and TSB-54-097-WST

Published : 2/4/2025

Problem Details:

Once stock of the Steering Angle Sensor (SAS) SAS01T is no longer available it will be replaced by the SAS03T. The new SAS03T mounts the same as the SAS01T. Depending on the vehicle's software package, replacement of the SAS01T with the SAS03T, could result in the fault code **23/523021/31-D-DTC9- Incompatible ECU variant in the SMF** coming active. Because of the possibility of the fault code coming active, the parts cannot be directly superseded.

FSPRs, FRACAS, DPR, Zeus:

- Engineering brought this issue to our attention.

Affected Models / Truck options:

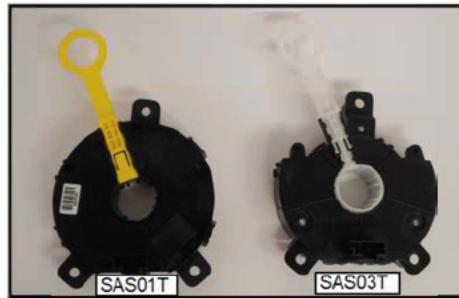
- P4, WST X Series, eM2, EP4, M2+, 108SD & 114SD+, Roughly 626,000 vehicles
- Population of affected vehicles, all vehicles built with a SAS01T From 4/18/2016 to present.

Responsible Supplier:

- N/A

Paragon Note

When this part is no longer available, see Service Bulletins SB54-373 (Freightliner) or SB54-097 (Western Star) for replacement instructions and part numbers".



Chassis CAN Baud Rate	Original Part Number (SAS01T)	Replacement Part Number (SAS03T)
500kb Chassis CAN	A14 19418 000	A14 21040 307
667kb Chassis CAN	A14-20044-000	A14-21040-106

Production Containment:

No Yes

- None, as production will change from SAS01T to the SAS03T in 2025

Field Containment (short term):

No Yes

- Same as Long term correction

Root Cause:

No Yes

- Vendor supporting the SAS01T, will no longer be producing the part.

Long Term Field Plan:

No Yes

- Service Bulletins TSB-54-373-FTL and TSB-54-097-WST publish on 2/4/2025. These bulletins provide P/Ns and guidance for programming if required. Dealers trying to order the old P/Ns A14-19418-000 or A14-2044-000 will be directed to these bulletins via a note in Paragon that references the bulletins for replacement parts.

Parameters 2022 Freightliner New Cascadia 125 Sleeper Cab 5 x 4 Truck Tractor
VIN: 2AK0H0R3N225560

Parameter	Unit	Value	Units	Minimum	Maximum	Description
CGW047 - Central Gateway		CGW				
Monitor parameter ECU06		A0294474727-001				SAS Not Installed and ECU Monitoring Off
Source Address	(from parent)	13				
Location	(from parent)	Chassis.CAN				
Short Term	(from parent)	SAS				
ECU Installed		A0144470027-001				yes
ECU Monitoring Active	(from parent)	no				
ECU CAN Wake able	(from parent)	no				
ECU Monitoring Timeout Type	(from parent)	normal				
ECU06	(from parent)	Monitoring Off (BDS, from parent)				
ECU for the CPS relevant	(from parent)	A0274473027-001				SAS Not Installed and ECU Monitoring Off (BDS, from parent)
Monitor parameter ECU07		A0294474727-001				ECU06/SAS UDS Diagnostics
Monitor parameter ECU08	N/A	A0294474727-001				SAS no diagnostics

If Fault Code 23/523021/31 Becomes Active, Diagnostic Fragment Needs Changed to A0294474727 SAS No Diagnostics