



Preliminary Information

PIT6212B Service Trailer Brake Message With DTC C1114 When Connected To A Trailer With A Hydrastar Electric Over Hydraulic Trailer Brake Actuator

Models

Brand:	Model:	Model Years:	VIN: from to	Engine:	Transmissions:
Cadillac	Escalade Models	2024 - 2025	All	All	All
Chevrolet	Colorado	2024 - 2025	All	All	All
Chevrolet	Silverado 1500/2500/3500	2024 - 2025	All	All	All
Chevrolet	Silverado 4500 HD/5500 HD/6500 HD	2024 - 2025	All	All	All
Chevrolet	Silverado EV	2024 - 2025	All	All	All
Chevrolet	Suburban	2024 - 2025	All	All	All
Chevrolet	Tahoe	2024 - 2025	All	All	All
GMC	Canyon	2024 - 2025	All	All	All
GMC	Sierra Hummer EV Models	2024 - 2025	All	All	All
GMC	Sierra 1500/2500/3500	2024 - 2025	All	All	All
GMC	Yukon Models	2024 - 2025	All	All	All

Involved Region or Country	North America
Additional Options (RPO)	JL1
Condition	Some customers may comment when they connect a trailer, that has a Hydrastar Electric Over Hydraulic trailer brake system, that intermittently a Service Trailer Brake message will be displayed. They may notice this issue happens more often during lighter trailer brake applications. When checking for DTCs a C1114 will have set.
Cause	The cause of this concern is with the Hydrastar Electric Over Hydraulic trailer brake actuator generating a voltage spike on the blue trailer brake command circuit 47 which can interfere with the vehicle's trailer brake diagnostics. This can result in a "Service Trailer Brake System" message on the DIC and DTC C1114.

Correction:

To verify the truck's trailer brake system is working properly, use the Trailer Simulator Tool, P/N EL-52641 to test the trucks trailer brake system.

If the trucks trailer brake system is functioning, then no repairs should be made to the truck.

This is not a truck related issue and the issue rest within the trailer.

Important: Be aware of bulletin [23-NA-149](#), which can also cause a C1114 DTC.

The issue with the trailer may or may not be the voltage spike, from the Hydrastar Electric Over Hydraulic trailer brake actuator, but there is an issue within the trailer, and it should be inspected by a trailer repair facility or Hydrastar.

If the trailer repair facility/Hydrastar has determined this issue is caused by the voltage spike from the Hydrastar actuator then Hydrastar has released a trailer mounted module to correct this concern, Hydrastar p/n 381-7074 (2024 - 2025 GM Controller Adapter Module).

This module will be installed on the trailer, connected to the blue trailer brake command wire, between the 7-pin trailer connector and the Hydrastar actuator.

The module will prevent voltage spikes from the Hydrastar actuator from reaching the vehicle's trailer brake control module.

For more information on this module see Hydrastar website: <https://hydrastarusa.com/collections/actuator-components-replacement-parts/products/2024-2025-gm-controller-adapter-module>

Warranty Information

Trailer related repairs are not covered under the GM vehicle Warranty.

Version History

Version	3
Modified	08/06/2024 - Created on. 08/14/2024 - Update to the models and correction sections 9/26/2024 - Updates to the Models, model years, Cause and correction sections.