

# SS 1034598 Legacy Cascadia Vehicles, Trailer Turn Signal Relay Inoperative or Flashing Very Fast

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## Applicable Vehicles:

This solution applies to all Legacy Cascadia vehicles.

## Symptoms:

Trailer turn signal left, right or both inoperative or flashing very fast. Replacing the trailer turn relay(s) resolves the issue.

## Note:

Trailer lights, including trailer turn signal function, must to be inspected as part of a pre-trip inspection and any time a new trailer is hooked up to the tractor.

## Issue:

On Legacy Cascadia vehicles where trailer turnsignals or 4 way flashers are used in applications with high duty cycles, the left and right turnsignal relays may experience shortened relay life resulting in turn signals not working or flashing very fast depending on the type of relay failure. These relays are located in the SAM Chassis, under the fuse cover, located on the driver's side of the front wall, in locations R2 for trailer turn left and R4 for trailer turn right.

## Solution:

For applications where a more durable relay is being requested, there is now a solid state relay P/N 23-14668-000 that can be used to replace the mechanical relays for these applications. Because the new solid-state relay is rated at 17 amps and the relay being replaced is protected by a 20 fuse or circuit breaker, this change will require replacing the fuse or circuit breaker with a 15 amp protective device. Left trailer turn is located at F5 and right trailer turn is located at F8 in the SAM Chassis. The P/N for the relay, fuse and circuit breaker are listed below. It would be recommended to replace both relays when performing this upgrade and only a 15-amp fuse or circuit breaker would be required.

## Parts required to replace both relays:

Solid-state relay---P/N 23-14668-000-- QTY 2

15-amp fuse P/N 23-12537-015 or 15-amp circuit breaker P/N 23-13125-215--QTY 2

Image below, pictured on the left, is new 17-amp solid-state relays with 15-amp circuit breakers installed and pictured on the right is the old mechanical relays with the 20-amp circuit breakers installed. Note: Changing from the factory supplied 20- amp protective device to the 15-amp protected device for most applications should provide plenty power

for trailer left and right turnsignal applications. If for some reason the vehicle is in an applications where the full 20-amps is required, then this solution should not be applied.

