

# Optional 30K High-Current Trailer Cord Circuit Breaker Replacement

# 54-335

FLA COE  
FLB COE  
FLD Conventional  
Business Class  
FLC 112 Conventional

Century Class Conventional  
Argosy  
Cargo  
Columbia  
122SD and Coronado

Business Class M2  
Cascadia  
108SD/114SD  
> New Cascadia

**Freightliner  
Service Bulletin**

## General Information

New Cascadia vehicles manufactured from September 1, 2016 through June 28, 2020 with an optional high-current single- or dual-pole trailer cord were equipped with an auto-reset type I circuit breaker mounted in the battery cable access (BCA) box. Since type I circuit breakers can mask potential issues by resetting every time an over-current condition occurs, Daimler Trucks North America (DTNA) switched to a manual reset type III circuit breaker on June 29, 2020.

This bulletin includes instructions for converting from a type I to a type III circuit breaker, how and where to reset a type III circuit breaker, and conditions to be aware of when troubleshooting a type III circuit breaker.

## Parts

Parts Table*			
Replacement Part Number	Part Description	Quantity	Original Circuit Breaker
MPM ANRST090	Type III 90A Manual Reset Circuit Breaker	1	Type 1 Auto Reset 90 Amp
MPM ANRST150	Type III 150A Manual Reset Circuit Breaker	1	Type 1 Auto Reset 150 Amp

\* Only one circuit breaker is required per vehicle, either a 90 amp or a 150 amp.

**Table 1, Parts Table**

## Work Instructions

1. Park the vehicle on a level surface, shut down the engine, and set the parking brake. Chock the tires.
2. Disconnect the batteries.
3. Open the hood.
4. Remove the battery cable access (BCA) box cover. The BCA box is located on the right side of the cab front wall.
5. Locate the type I high-current circuit breaker in the BCA box. See [Fig. 1](#) and [Fig. 2](#).

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Fig. 1, High-Current Circuit Breaker in the BCA Box

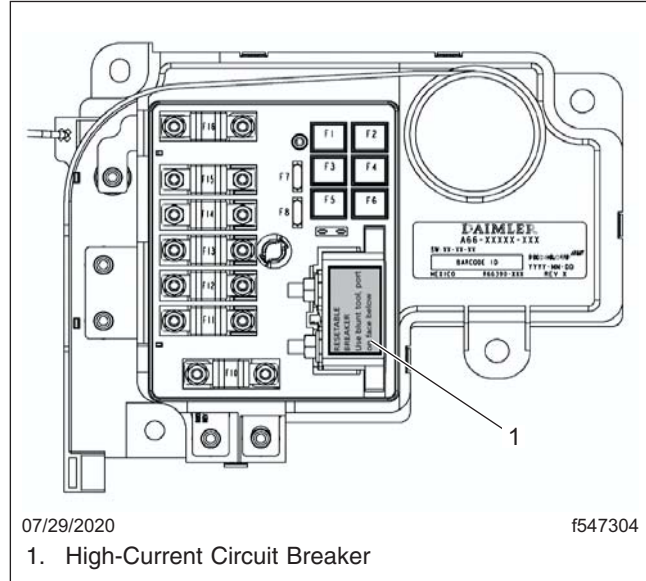


Fig. 2, Location of High-Current Circuit Breaker

6. Remove the two mounting nuts and remove the type I circuit breaker.
7. Install the new type III circuit breaker in the BCA.
8. Install and tighten the two mounting nuts to a maximum of 49 lbs-in (556 N-cm)

### Manually Resetting the Type III Circuit Breaker

The type III manual reset circuit breaker comes with a label noting where the reset hole is located and how to reset the breaker using a blunt tool. See [Fig. 3](#).

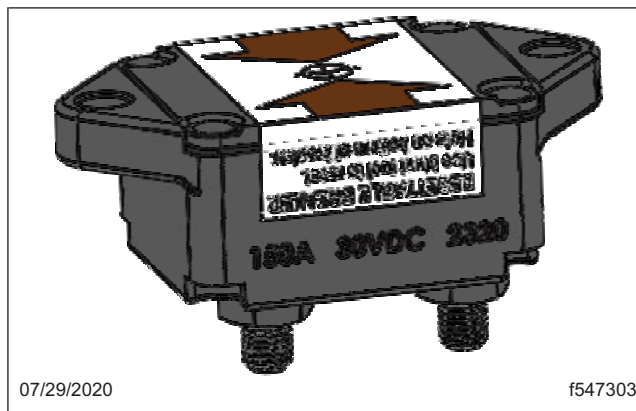


Fig. 3, Circuit Breaker With Label

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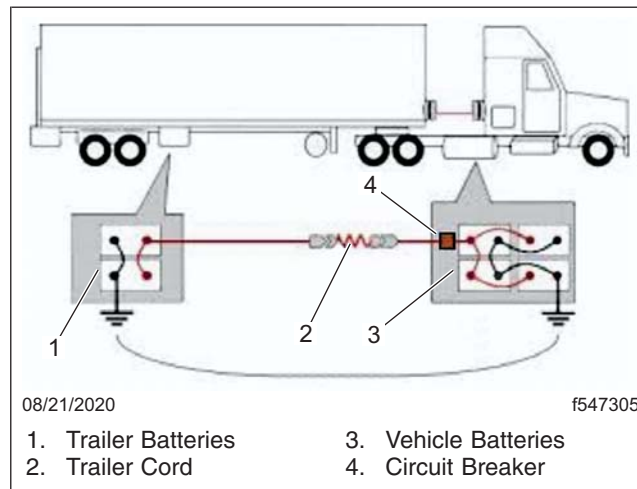
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## Troubleshooting a Type III Circuit Breaker

Due to current space constraints within the BCA, the type III circuit breaker does not have a visual indicator showing when the circuit breaker is open and needs to be reset.

In addition, the most common use of the high-current trailer cord is for trailer battery charging. This use can make it difficult to determine when or if the type III circuit breaker needs to be reset; when the cord is connected, trailer battery voltage can be present on one side and vehicle voltage can be present on the other. See [Fig. 4](#).



**Fig. 4, High-Current Trailer Cord Used for Trailer Battery Charging**

Unplug the high-current trailer cord from the trailer before checking to see if the type III circuit breaker is in an open or closed state.

With the trailer cord disconnected and vehicle voltage supplied to the circuit breaker, both studs on the circuit breaker should show voltage when the circuit is closed and not in need of a reset.

With the trailer cord disconnected and vehicle voltage supplied to the circuit breaker, if only one stud on the circuit breaker shows voltage, then the breaker has failed or needs to be manually reset.

## Warranty

This is an informational bulletin only. Warranty does not apply.