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Major System: Electrical Created: 1/4/2018  
Current Language: English Last Modified: 6/8/2026  
Other Languages: [Español](#) Author: Anthony Tondola  
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Coding Information

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Title: Dielectric Grease Change

Applies To: MY2018, MY2019, MY2020, MY2021, MY2022, MY2023, MY2024, MY2025, MY2026 - CV, MV, HV, HX, RH, LT, LoneStar

## CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

06/08/2026 - Updated notes for stainless steel nut - No longer used or available.  
08/21/2024 - Updated owner. Added information about reusable battery nuts.  
09/09/2020 - Added Fleetrite contact cleaner part numbers.  
08/31/2020 - Updated to include assembly instructions when using dielectric grease vs. red enamel coating. Added additional part numbers.  
10/07/2019 - Updated per user feedback - This article is still valid as of this date.  
12/03/2018 - Update per user feedback - added chart and text as to when engineering changed from Grafo Grease.

## DESCRIPTION

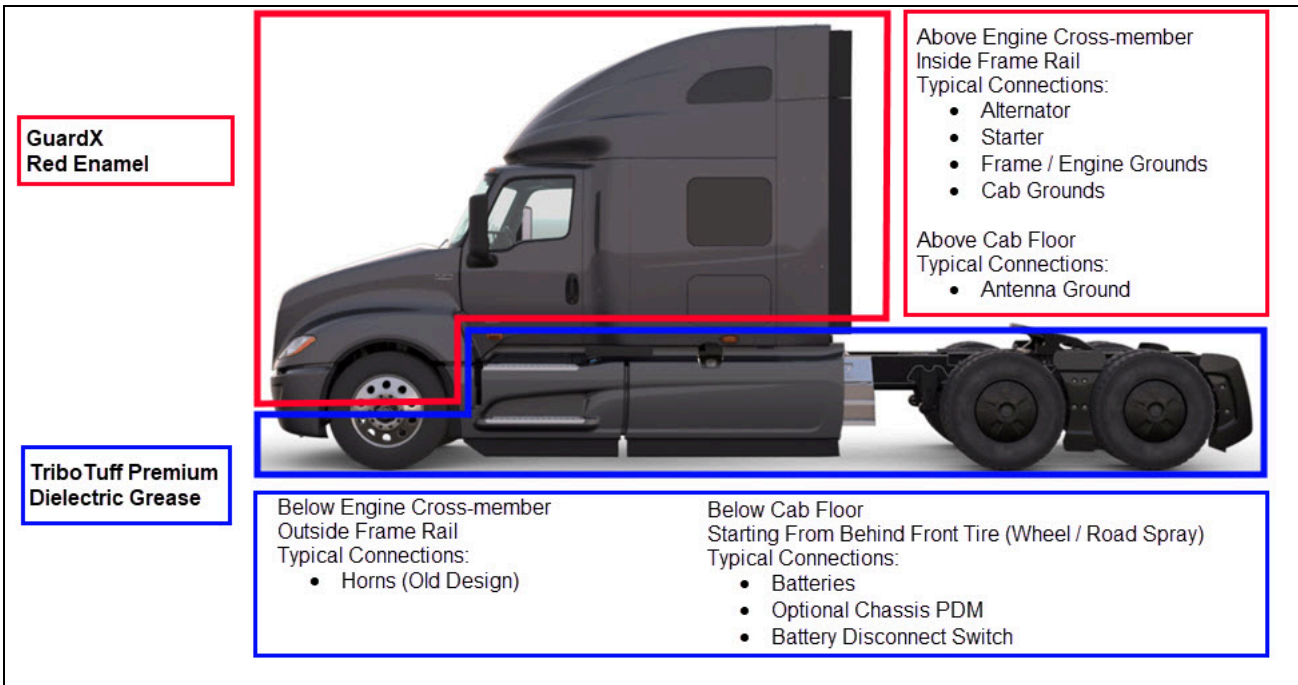
This document will guide the user through the changes of the dielectric grease/coatings used in certain areas on all International vehicles built after 1/8/2018. International's Electrical Engineering Team made this change to improve the longevity of the OEM coatings and to improve applications at the factory.

## SYMPTOM(s)

On all International vehicles built after 1/8/2018; the color/type of dielectric grease being applied at the factory on all major electrical points has changed depending on the location of the connection on the truck. (Please see pictures below for reference.) International Service Part Numbers will be added to this article once available and will be orderable from Kemcrest through PDC. Until that update is available please refer to the service part section of this article to order the grease/paint coating directly from the manufacturer.

**Note: For all field repairs, service shops can continue to use Grafo grease or equivalent where it was originally applied. Grafo may also be applied over the blue grease or red paint if Nanomech products are not available at the time of service. Every effort should be made to reapply the same product that was originally applied by the factory.**

## New Changes for Color and Type of Dielectric Grease Coatings for Electrical Interconnections

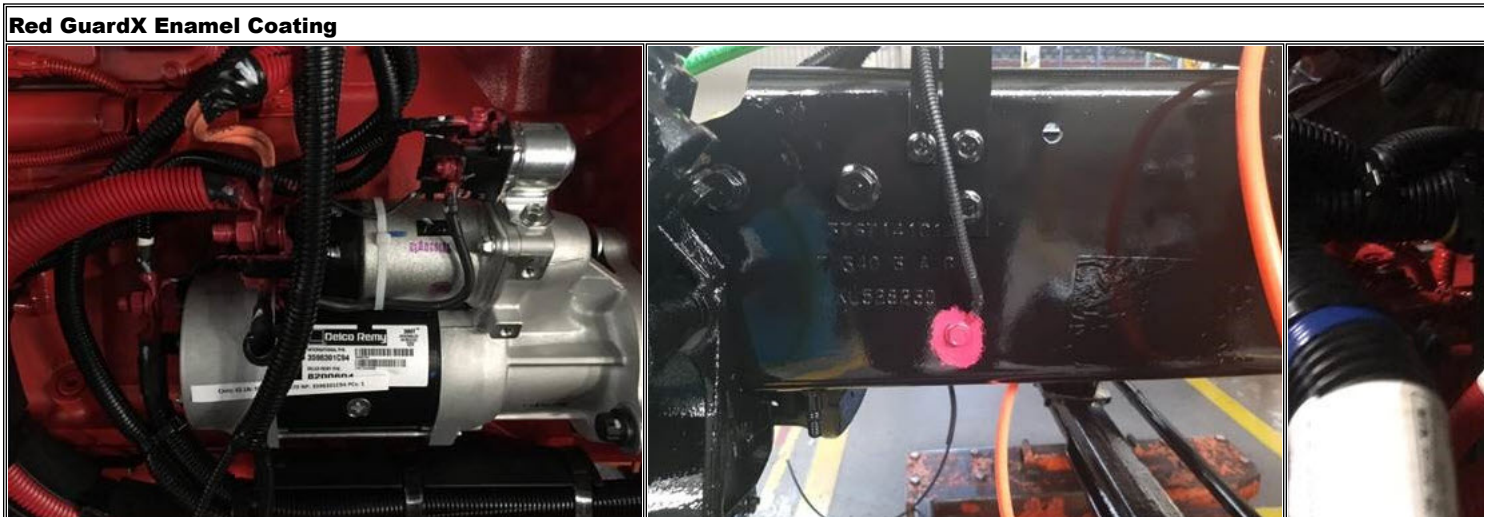


EXAMPLES:

Battery box interconnections will use **BLUE** dielectric grease coating.



Engine Trim interconnections will use **RED** dielectric paint coating.



**SPECIAL TOOL(s) / SOFTWARE**

Tool Description	Tool Number	Comments	Instructions
Small Brush		Obtain Locally	Use to apply grease
Protective Gloves		Obtain Locally	Use to protect skin from grease




[Tool Resource Center](#)

## SERVICE PARTS INFORMATION

**BLUE**

**RED**



Description	MFR's Part Number (Not an International P/N)	Quantity Required	Notes
<b>BLUE</b> Dielectric Grease Coating	2133005	1 Lb Jar	Only available from NanoMech directly by calling their customer service at: <b>(479) 725-8008</b> <b>Reference Website:</b> <a href="http://www.nanomech.com/">http://www.nanomech.com/</a>
<b>RED</b> Paint, Type Elec Sealant	4311832	1QT Can	
Description	International Part Number	Quantity Required	Notes
Seal, Compound, 4oz tube	472141C2	4oz Tube	Grafo 112x
<b>BLUE</b> Dielectric Grease Coating	NANO2133005	1 Lb Jar	Direct Ship Item
<b>RED</b> Paint, Type Elec Sealant	NANO4311816		Direct Ship Item
<b>RED</b> Paint, Type Elec Sealant	NANO4311832	1 Quart	Direct Ship Item
NUT, HEX FLG, 3/8"-16 STAINLESS	N/A	No longer used	Stainless Steel nut. - No longer used for battery cable connections due to galling concerns.  Discard the nut after removal and replace it with a 3/8"-16 battery terminal flange lock nut. 
Nut, Battery Terminal 3/8" UNC	476074C1	As needed	Prevailing torque nut. Replace when removed. 
Nut Sealed Battery Terminal 3/8" UNC	522639C1	As needed	Not a prevailing torque nut. Can be re-used 
Fleetrite Contact Cleaner	FLTACC135KK (US) FLTACC135CKK (Canada)	As needed	Direct Ship Item

## DIAGNOSTIC STEP(s)



## WARNING:

Grease may cause skin & eye irritation. Wear protective clothing, gloves, and glasses.

## CAUTION:

Wash exposed skin that may have come in contact with grease thoroughly after handling.

## REPAIR STEP(S)

Fully remove and clean all old dielectric grease/ paint coating from components during repair/disconnection of electrical joint. Apply the appropriate grease/paint coating to the electrical connection components as needed after all service work is complete. Follow manufacturer's instructions for application and clean-up of grease/ paint coating.

### Assembly Instructions

#### Blue Grease in Battery Box

1. Clean battery terminals with a wire brush.
2. Clean battery terminals and battery studs with a liberal amount of electrical contact cleaner.
3. Dry battery terminals and battery studs with compressed air.
4. Apply dielectric grease to battery cable terminals.
5. Connect all battery terminals to proper battery studs.
6. Tighten battery terminal nuts to the proper specification 12 to 15 lb-ft (16.3 to 20.3 Nm)

#### NOTE:

The blue dielectric grease should be applied prior to assembly and torque.  
Battery stud nuts are prevailing torque nuts, and should be replaced whenever they are removed.

#### Red Enamel on Starter, Frame, Alternator, and more

1. Clean battery terminals with a wire brush.
2. Clean battery terminals and component studs with a liberal amount of electrical contact cleaner.
3. Dry battery terminals and component studs with compressed air.
4. Connect all battery terminals to proper component studs.
5. Tighten battery terminal nuts to the proper specification.
6. Apply red enamel to the terminals as studs / bolts.

#### NOTE:

The red enamel is applied after the terminals are assembled and torqued.

## WARRANTY INFORMATION

### Warranty Claim Coding:

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

### Standard Repair Time(s):

Refer to the [SRT Manual](#) for Repair Times

## OTHER RESOURCES

[Master Service Information Site](#)

[IK0800582 - 'Red Gel Coat' Removal From Starter Studs and Electrical Connections](#)

[IK0800567 - LT Starter power connection cleaning](#)

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