



Technical Service Bulletin

Technical Service Bulletin: TSB220149

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Campaign 4915: Loose or Missing Bolts on C70D2RE - C275D2RE Rental Trailers

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Warranty Statement

The information in this document authorizes specific changes to the repair practice for failures covered under product warranty coverages.

Contents

Products Affected

- C70D2RE (Spec A - B)
- C100D2RE (Spec A - D)
- C150D2RE (Spec A - G)
- C200D2RE (Spec A - G)
- C275D2RE (Spec A - F)

Issue

Symptom:

- Rental trailer bolts, nuts, and washers associated with the C70D2RE - C275D2RE generator sets have been found loose and or missing (Figure 1). The C70D2RE - C200D2RE generator sets have welded nuts, while the C275DRE generators set has loose nuts.



Figure 1: Loose and missing trailer bolts

Root Cause:

- Defect found within manufacturing processes that has been remediated.

Verification/Confirmation

If the C70D2RE - C275D2RE generator sets have loose or missing bolts, nuts, and washers, proceed to the resolution section.

Resolution

Torque the bolts, nuts and washers, if loose, and replace, if missing. Refer to Service Instructions section for more details.

Service Instructions

Service Instructions to install loose and missing bolts, nuts, and washers:

This Technical Service Bulletin (TSB) is to ensure that one of the three action statements listed below are completed:

1. All bolts were inspected and found to be tightened to the proper torque specification.

2. All bolts were inspected, and X needed to be tightened to the proper torque specification.
3. All bolts were inspected, and X needed to be tightened to the proper torque specification, and Y bolts were missing and were replaced.

Once the proper action is taken, please email product.safety@cummins.com indicating which option was utilized during the service.

Replace Missing bolts and Reuse Loose bolts (Recommended)

C70D2RE – C275D2RE Generator Sets:

For missing bolts:

- Replace the missing bolts, nuts and washers at the locations shown in Figures 2-4 with the hardware specified in Table 1 for each generator set. Refer to the service availability section for Table 1.

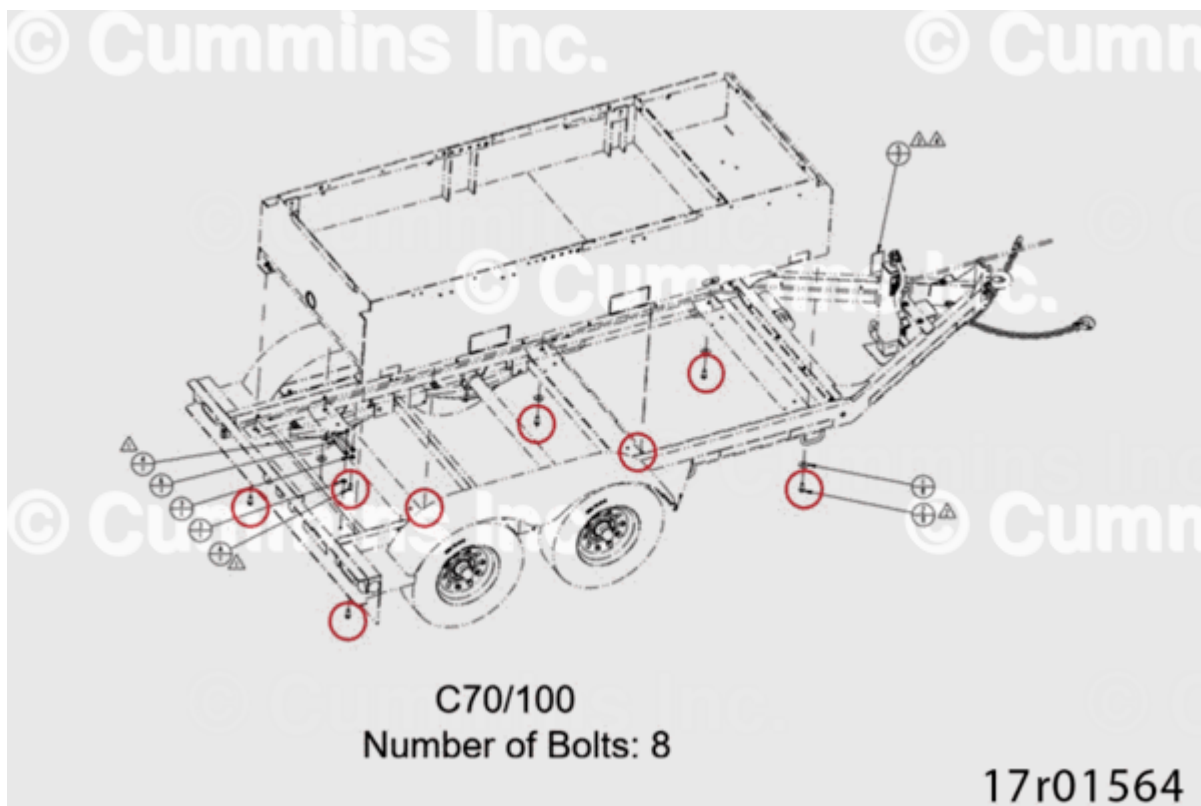


Figure 2. Trailer bolt locations for the C70D2RE/C100D2RE generator sets. It has a total of 8 bolts.

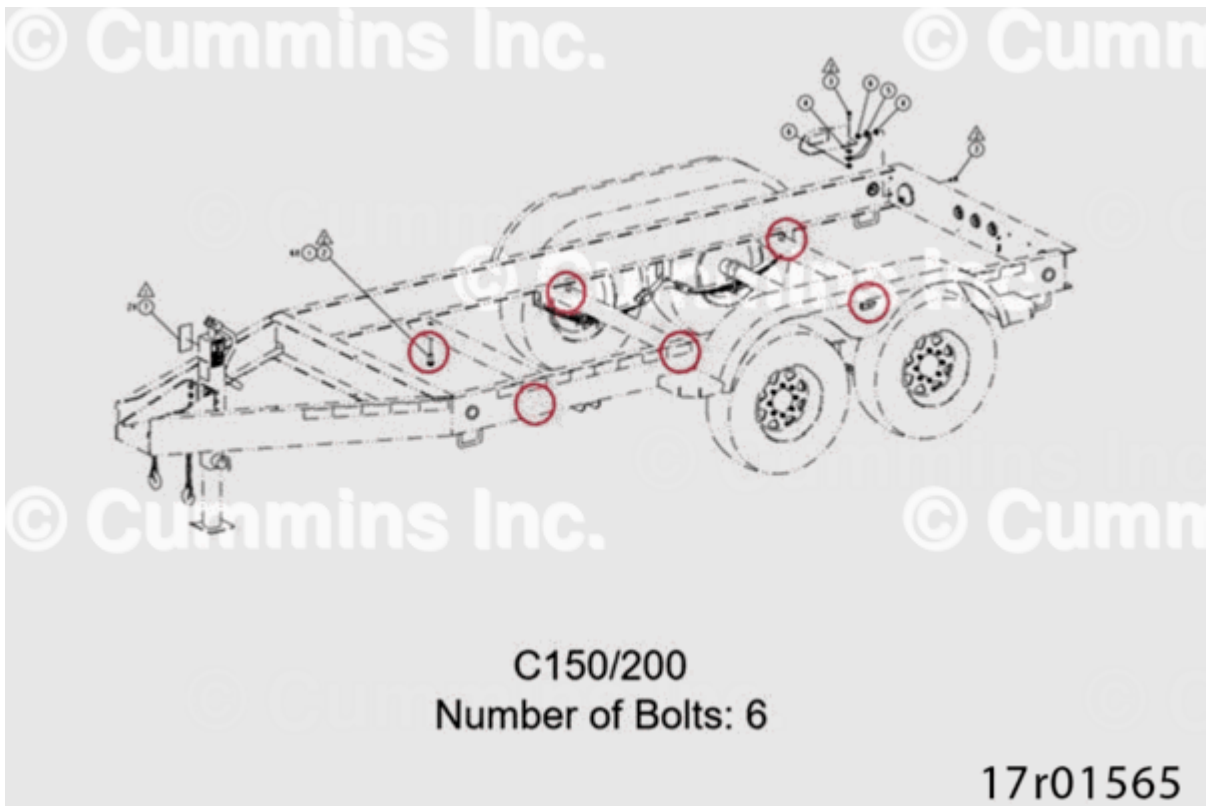


Figure 3. Trailer bolt locations for the C150D2RE/C200D2RE generator sets. It has a total of 6 bolts.

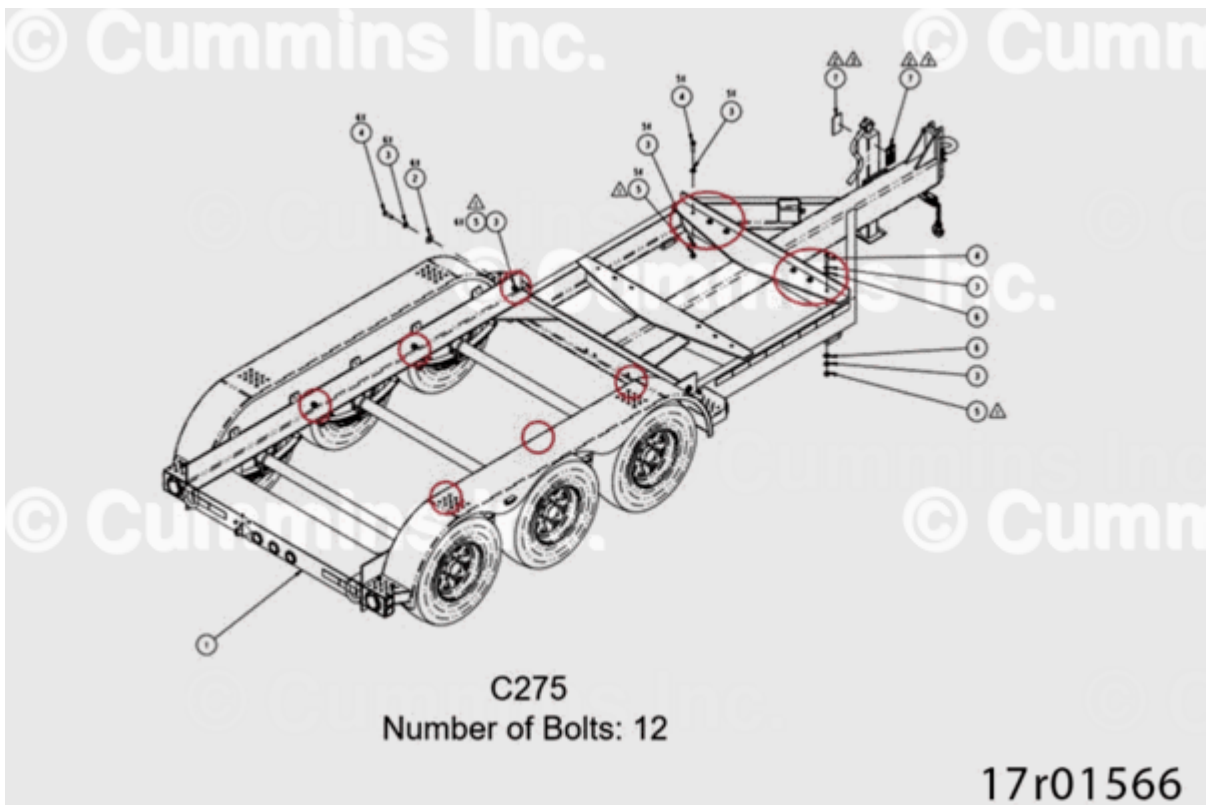


Figure 4. Rental trailer bolt locations for the C275D2RE generator sets. It has a total of 12 bolts.

- Torque bolt to spec as specified in Table 1 row "Torque Without Loctite".
- Optional: If the customer requests that Loctite be added, clean the new bolt threads thoroughly, then apply Loctite 248.
- Optional: After applying the Loctite, torque bolts to spec within the fixture time frame (5 minutes). Use the torque spec values shown in table 1 row "Torque with Loctite".

For loose bolts:

- Torque bolt to spec as specified in Table 1 row "Torque Without Loctite".
- Optional: If the customer requests that Loctite be added, clean the bolt threads thoroughly, then apply Loctite 248.
- Optional: Torque bolts to spec within the fixture time frame (5 minutes). Use the torque spec values shown in table 1 row "Torque with Loctite".

Note: Some of the bolts, washers, and nuts may not be available in the aftermarket. Source locally by referring to materials specifications listed in Table 1.

Service Availability

Source locally. See Table 1 for materials specifications.

Bolts specifications and torque values currently used in C70D2RE – C275D2RE generator sets. See Table 1.

Table 1: Current Bolt Specifications					
Generator Set Model	C70D2RE	C100D2RE	C150D2RE	C200D2RE	C275D2RE
Bolt Thread Size	M16X2	M16X2	5/8-11 UNC-2A	5/8-11 UNC-2A	5/8-11
Material	Carbon Steel	Carbon Steel	Carbon Steel (SAE J429)	Carbon Steel (SAE J429)	Carbon Steel (SAE J429)
Class	10.9	10.9	-	-	-
Grade	-	-	8	8	5
Finish	Zn Plating (ASTB633)	Zn Plating (ASTB633)	Zn Plating (ASTM F1136)	Zn Plating (ASTM F1136)	Plain
Length (mm)	40 (1.6 in)	40 (1.6 in)	50.8 (2 in)	50.8 (2 in)	57.15 (2.3 in)
Washer	A052E739	A052E739	A007L050	A007L050	0526-0399-45
Nut	Welded	Welded	Welded	Welded	0862-0007

Torque (Nm) Without Loctite	203-249 (150-184 ft- lb)	203-249 (150-184 ft- lb)	183-224 (135-166 ft- lb)	183-224 (135-166 ft- lb)	183-224 (135-166 ft- lb)
Torque (Nm) With Loctite (Optional)	223-274 (165-203 ft- lb)	223-274 (165-203 ft- lb)	201-246 (149-182 ft- lb)	201-246 (149-182 ft- lb)	201-246 (149-182 ft- lb)

Document History

Date	Details
2022-7-14	Module Created
2022-8-10	Non-Product Problem Solving (PPS)
2022-8-18	Non-Product Problem Solving (PPS)

Last Modified: 26-Aug-2022

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