

Technical Service Bulletin Number
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TSB160123



Technical Service Bulletin

Subject

Transit Bus Belt Squeal with EMP450 Alternator

Warranty Statement

The information in this document has no effect on present warranty coverage or repair practices, nor does it authorize TRP or Campaign actions.

Contents

Product Affected

- ISL G CM2180
- ISL9 CM2350 L101
- L9 CM2350 L116B

Issue

Symptom:

- Belt squeal noise from front end accessory drive area during rapid deceleration conditions
- Belt flap/snap, low belt tension

Root Cause:

- High alternator inertia combined with low belt tension

Resolution

An increase in overall tension of front end accessory drive will reduce belt squeal noise and flap/snap symptoms. Cummins Inc. recommends switching to a no idler front end accessory drive setup.

Service Parts Availability

Service parts are available. Parts in Table 1 **must** be ordered for no idler setup.

Table 1, Service Parts		
Part Description	Part Number	Quantity
Cap Screw	3282433	1
Belt V Ribbed	3288656	1
Tensioner, Belt	5333477	1
Cap Screw	3093932	4
Engineered Machined Products, Inc. (EMP) Tensioner Bracket*	1470022171_b	1
*Engineered Machined Products, Inc. (EMP) tension bracket must be purchased from EMP. Call 906-789-7497 and follow instructions to be connected to EMP Parts Sales Department.		

Service Instructions

Step 1:

Remove components from front end accessory drive. Reference Figure 1 and Table 2.

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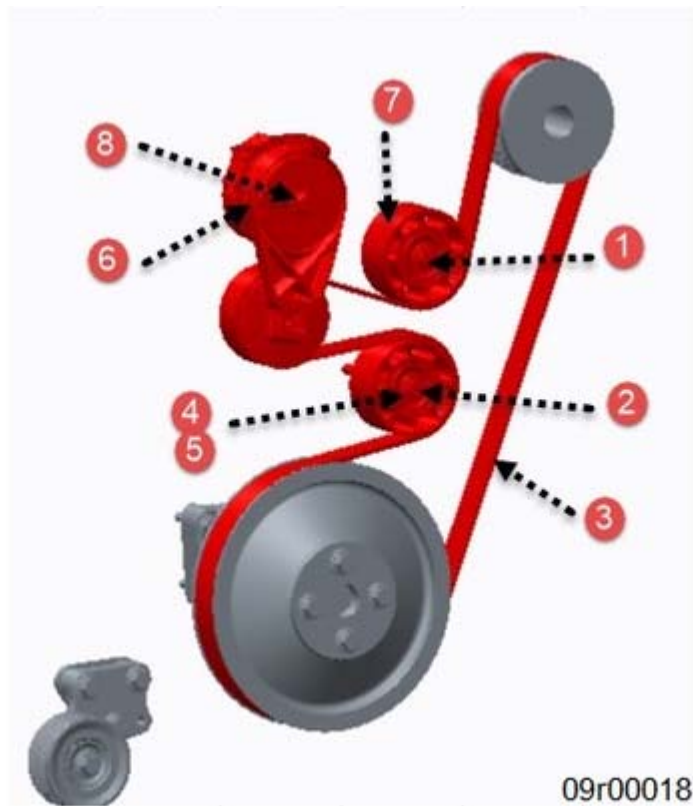


Figure 1, Remove Items 1 Through 8.

Table 2, Remove Items 1 Through 8			
Figure 1 Callout Number	Part Number	Quantity	Part Description
1	3093806	1	capscrew
2	3102651	1	capscrew
3	3288475	1	belt V ribbed
4	3921533	2	shield debris
5	3935229	2	shaft idler
6	3976834	1	tensioner, belt
7	3978324	2	pulley, idler
8	3896408	1	capscrew

Step 2:

Remove idler pulley bracket and capscrews from alternator bracket. Reference Figure 2 and Table 3.

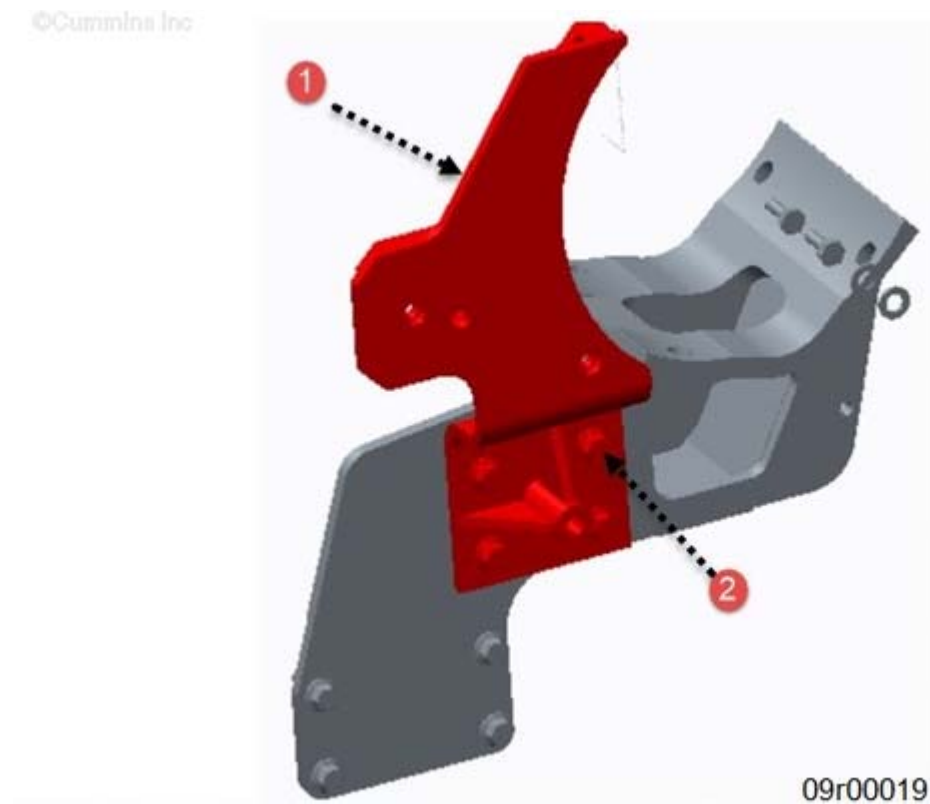


Figure 2, Remove Items 1 and 2.

Table 3, Remove Items 1 and 2			
Figure 2 Callout Number	Part Number	Quantity	Part Description
1	3976667	1	Bracket, Idler Pulley
2	3925437	4	Capscrew

Step 3:

Install Engineered Machined Products bracket and capscrews. Reference Figure 3 and Table 4.

Torque Value:

65 N•m [47.9 ft-lb]

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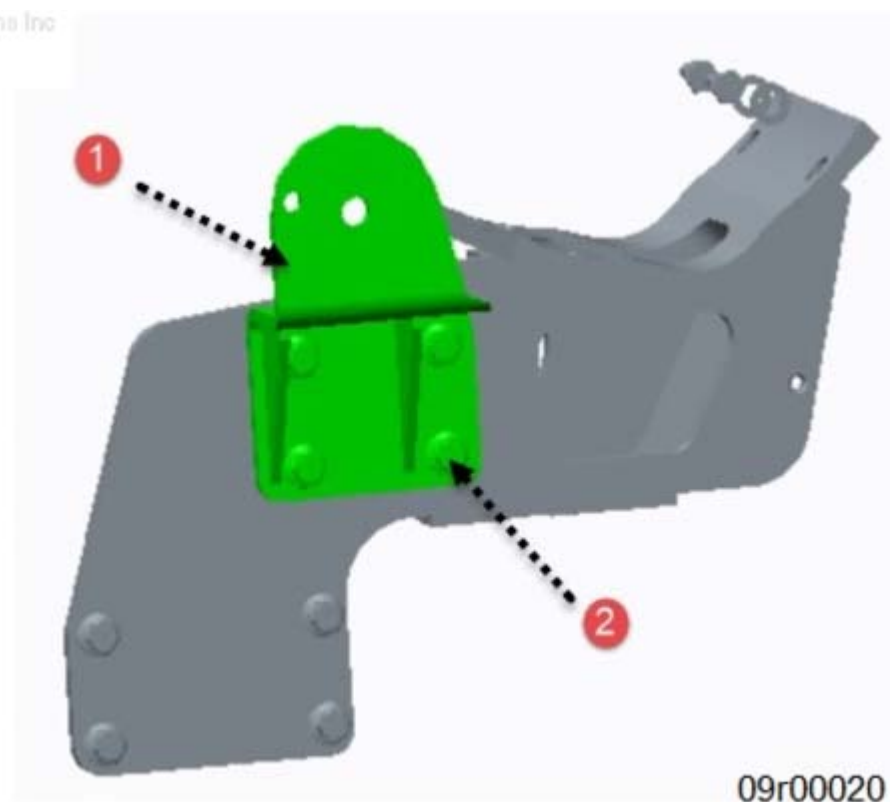


Figure 3, Install Items 1 and 2.

Table 4, Install Items 1 and 2			
Figure 3 Callout Number	Part Number	Quantity	Part Description
1	1470022171_b	1	Engineered Machined Products supplied tensioner bracket
2	3093932	4	Capscrew

Step 4:

Install belt tensioner, belt, and capscrew. Reference Figure 4 and Table 5.

Torque Value:

50 N•m [36.8 ft-lb]

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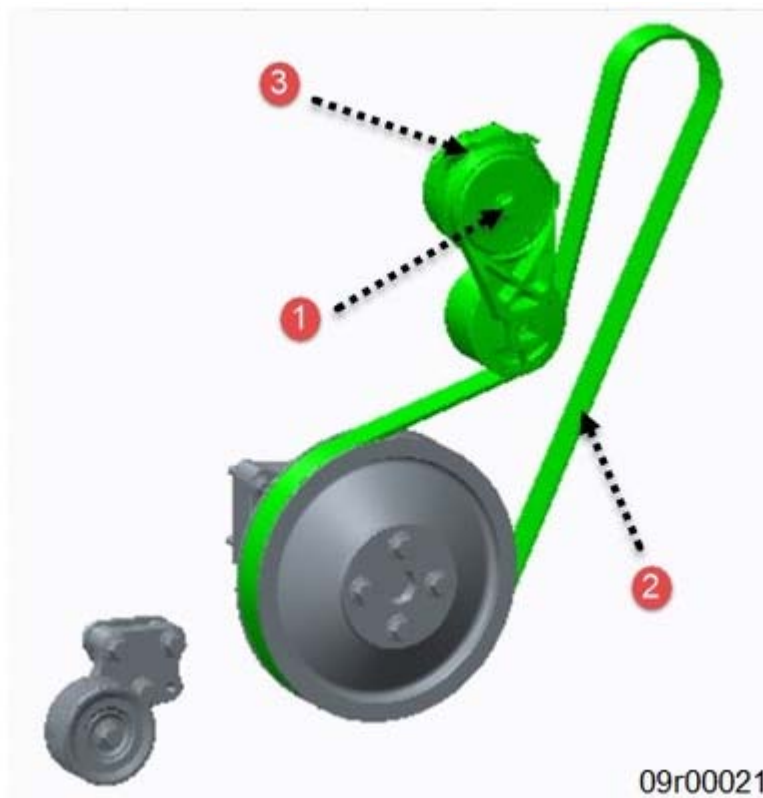


Figure 4, Install Items 1 through 3.

Table 5, Install Items 1 Through 3			
Figure 4 Callout Number	Part Number	Quantity	Part Description
1	3282433	1	Cap screw
2	3288656	1	Belt , V ribbed
3	5333477	1	Tensioner, belt

Document History

Date	Details
2016-11-15	Module Created

Last Modified: 17-Nov-2016

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