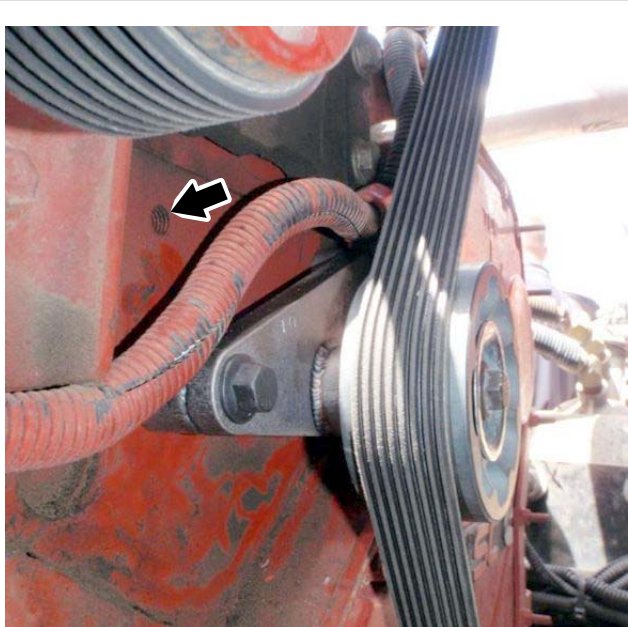


General Information

Premature belt wear (fraying or shredding) may occur on some Western Star 4700 models equipped with EPA2013 ISL CM2250 or CM2350 engines with 492 mm high-mount engine fans. If all other troubleshooting has been exhausted, the belt wear may be related to the long belt span created by the high-mount fan pulley. Installing an idler pulley between the fan pulley and the crankshaft pulley will reduce belt vibration, resolving the complaint. A new and longer fan belt is required, as the addition of the idler pulley increases the belt length.

Idler Pulley Installation and Belt Replacement

1. Park the vehicle on a level surface, shut down the engine, and set the parking brake. Chock the tires.
2. If equipped, disconnect the FEPTO drive shaft from the engine pulley. Refer to the manufacturer's documentation for the procedure.
3. Remove the serpentine drive belt.
 - 3.1 Using a 1/2-inch breaker bar, move the belt tensioner clockwise.
 - 3.2 Remove the belt from the various engine and component pulleys.
4. Install the idler pulley and bracket.
 - 4.1 Clean the unused holes in the front of the engine that will be used when installing the harness P-clamp and the new idler pulley bracket. See [Fig. 1](#).
 - 4.2 Remove the factory-installed P-clamp securing the harness, and position it in the unused hole toward the center of the engine. See [Fig. 2](#).
 - 4.3 Install the new idler pulley bracket. Tighten the capscrews 32 lbf-ft (43 N·m).
 - 4.4 Install the new idler pulley on the bracket. Tighten the capscrew 32 lbf-ft (43 N·m).
5. Install the new serpentine drive belt. See [Fig. 3](#).
6. If equipped, connect the FEPTO drive shaft to the engine pulley.

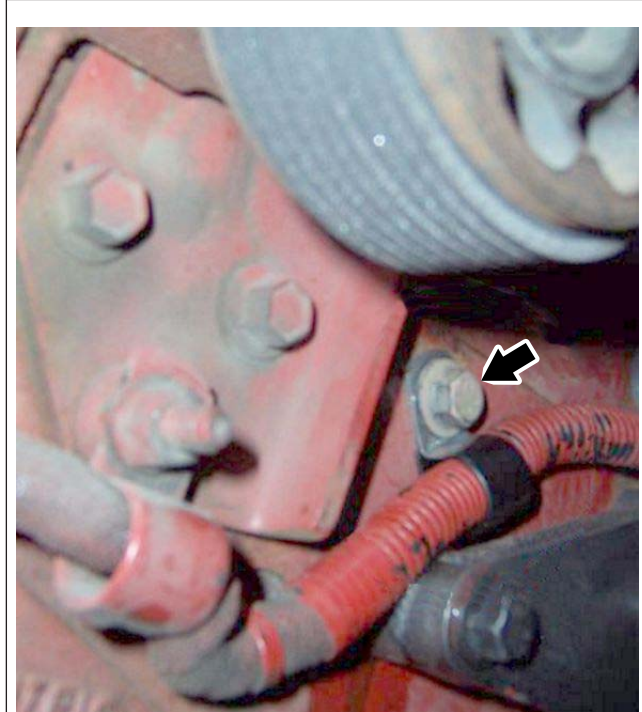


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Clean this hole.

Fig. 1, P-Clamp Mounting Hole



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Locate the P-clamp here.

Fig. 2, Moving the P-Clamp

Constellation
Heritage
> 4700 Models

4800 Models
4900 Models

5900 Models
6900 Models

Western Star
Service Bulletin

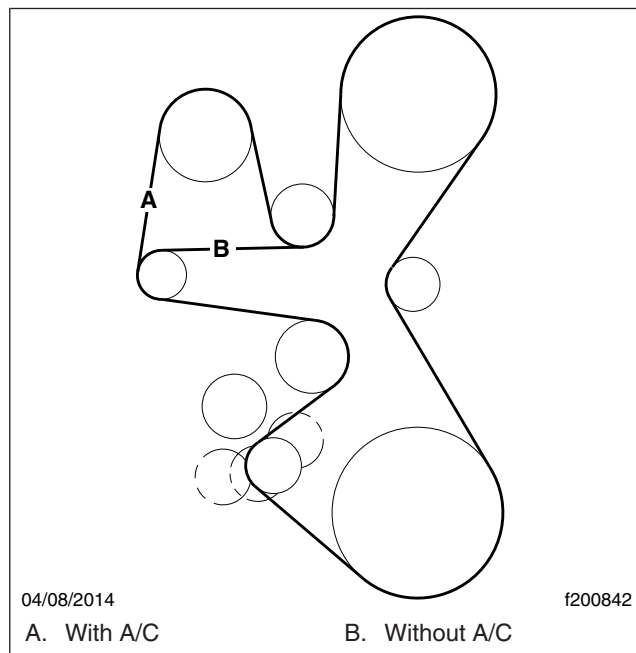


Fig. 3, Belt Installation

Parts

The idler pulley mounting kit is available through Cummins distributors. Belts are available through the PDCs. [Table 1](#) lists the required parts for this procedure.

Idler Pulley Installation Parts			
Part #	Description	Quantity	Order Through
5335096	Idler Pulley Mounting Kit	1	Cummins
01-32732-552	2643 mm Belt (with A/C)	1	Western Star
01-32732-231	2231 mm Belt (without A/C)	1	

Table 1, Idler Pulley Installation Parts

Warranty

This procedure is warrantable only if the described condition exists and the repair is performed within the applicable base warranty period. If a failure is not found, this procedure is considered preventive and warranty does not apply.

Normal warranty applies. See [Table 2](#) for OWL VMRS codes and labor allowance information. Enter this service bulletin number in the *Service Bulletin #* field.

OWL VMRS Codes and Labor Allowance					
Primary Failed Part	Component Code	Cause Code	SRT Code	Description	Time: Hours
CUM 3970945	042-003-008	03	273-5010C	WS4700, CUMMINS, IDLER PULLEY, FEPTO	1.4
CUM 3970945	042-003-008	03	273-5010D	WS4700, CUMMINS, IDLER PULLEY	0.7

Table 2, OWL VMRS Codes and Labor Allowance