



Technical Service Bulletin

Technical Service Bulletin: TSB260118

Released Date: 26-Aug-2026

Front End Accessory Drive (FEAD) Belt: Belt Noise/Whining

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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

- B6.70 CM3580 B193B (PACCAR™ U-Haul application)

Issue Summary

Symptom:

- Belt Noise/Whining

Root Cause:

- Reduced front end accessory drive (FEAD) belt robustness resulting from alternator-to-compressor pulley misalignment combined with the original 2460 mm [96.85 in] belt installation.

Verification

Listen for belt noise or whining coming from the FEAD. If the noise originates from the FEAD, proceed to the Resolution section. No additional diagnostics are required before performing this repair.

If the noise does **not** originate from the FEAD, continue with published troubleshooting.

Resolution

Important: Complete the following steps as one repair package. Do **not** replace the FEAD belt **only**. Do **not** reposition the alternator **only**.

1. Preparation

- Turn the keyswitch OFF.
- Disconnect the batteries. See the corresponding Service Manual and equipment manufacturer service information.

Note : <https://quickserve.cummins.com/qs3/service/suite/xml/en/purpose/44/44-105-4149.html>
(<https://quickserve.cummins.com/qs3/service/suite/xml/en/purpose/44/44-105-4149.html>)

2. Remove Existing FEAD Belt

- Remove the FEAD belt. See the corresponding Service Manual.

Note : <https://quickserve.cummins.com/qs3/service/suite/xml/en/purpose/44/44-105-4203.html>
(<https://quickserve.cummins.com/qs3/service/suite/xml/en/purpose/44/44-105-4203.html>)

- Do **not** replace the belt tensioner as part of this repair unless inspection identifies damage or an out-of-specification condition.

3. Inspect Belt

- Inspect the removed FEAD belt for abnormal wear, frayed ribs, glazing, missing material, and exposed cords.
- Do **not** reuse the removed FEAD belt. Install a new FEAD belt as specified in Step 6.

4. Inspect and Clean FEAD Pulleys

- Inspect all drive and idler FEAD pulleys for dirt, debris, paint, grease, belt dressing, embedded material, cracks, and abnormal wear.
- Remove contamination from FEAD pulley grooves and belt-contact surfaces with a suitable non-damaging tool.
- Clean all FEAD pulleys before reassembly.
- Clean, check, and reuse pulleys that meet published reuse criteria. Replace **only** FEAD pulleys that are damaged, cracked, deformed, or excessively worn.
- Do **not** apply grease or belt dressing to the FEAD belt or pulleys.

5. Correct alternator Alignment

Use one of the following methods to position the alternator. The belt alignment laser tool is the preferred method, but it is **not** required.

- Loosen the alternator mounting fasteners. Do **not** remove the fasteners unless required. Confirm that the alternator can move along the bracket adjustment.

Preferred Method - Laser Alignment Tool

- Install and use the Cummins® belt alignment laser tool, Part Number 3163524, or equivalent, according to the tool instructions. Check the refrigerant compressor-to-alternator pulley span.
- Apply controlled rearward pressure to the alternator and move it toward the engine until the alternator pulley is aligned with the refrigerant compressor pulley.
- Check alignment through multiple pulley positions, when practical, to identify angular misalignment.

Alternate Method - Alignment Tool Not Available

- Apply controlled rearward pressure and move the alternator toward the engine in a controlled increment within the available mounting adjustment.

After Either Method

- Hold the alternator in position and tighten the mounting fasteners to specification. Refer to the corresponding Service Manual and equipment manufacturer service information for torque specifications.

Note : <https://quickserve.cummins.com/qs3/service/suite/xml/en/purpose/44/44-105-1115.html>
(<https://quickserve.cummins.com/qs3/service/suite/xml/en/purpose/44/44-105-1115.html>)

- Do **not** adjust the alternator while the engine is operating.

6. Install New FEAD Belt

- Install a new 2490 mm [96.85 in] belt, Cummins Part Number 4933072, or approved equivalent.
- Install the FEAD belt. See the corresponding Service Manual.

Note : <https://quickserve.cummins.com/qs3/service/suite/xml/en/purpose/44/44-105-4203.html>
(<https://quickserve.cummins.com/qs3/service/suite/xml/en/purpose/44/44-105-4203.html>)

7. Final Alignment Check

- If the preferred laser method was used, recheck the refrigerant compressor-to-alternator alignment after the mounting fasteners are torqued. Repeat Step 5 if the alignment changed.
- If the alternate method was used, continue to Step 8. Final acceptance is based on no FEAD belt noise and proper belt tracking.

8. Repair Verification

- Reconnect the batteries. See the corresponding Service Manual and equipment manufacturer service information.

Note : <https://quickserve.cummins.com/qs3/service/suite/xml/en/purpose/44/44-105-4149.html>
(<https://quickserve.cummins.com/qs3/service/suite/xml/en/purpose/44/44-105-4149.html>)

- Operate the engine at idle and through several controlled engine speed changes. Operate the refrigerant compressor engaged and disengaged, if applicable.
- Verify no FEAD belt noise, no FEAD belt whining, proper FEAD belt tracking, no observable belt wandering or lateral movement, and no abnormal tensioner movement.
- The repair is acceptable **only** when no FEAD belt noise remains.
- If the alternate method was used and FEAD belt noise remains, turn the keyswitch OFF, disconnect the batteries, remove the belt as described in Step 2, and repeat Step 5 using an additional rearward adjustment. Reinstall the FEAD belt and repeat this step. Repeat as needed until no FEAD belt noise remains or the available adjustment is exhausted.
- If the preferred laser method was used and FEAD belt noise remains, or if no additional rearward adjustment is available, continue with published troubleshooting.

Important Technician Notes

- Always complete the entire repair package.
- Do **not** replace the FEAD belt only.
- Do **not** reposition the alternator only.
- Use the FEAD belt alignment laser tool when available. It is preferred, **not** required.
- When the alignment tool is unavailable, move the alternator rearward and use the no-noise run check as the acceptance criterion.
- Do **not** adjust the alternator while the engine is operating.
- Clean contaminated pulleys before installing the new FEAD belt.
- Do **not** apply grease or FEAD belt dressing.

Document History

Date	Details
2026-8-6	Module Created
2026-8-25	Replaced reference to Peterbilt Model 320 to PACCAR™ Uhaul application.

Last Modified: 26-Aug-2026
