



FIELD SERVICE CAMPAIGN – 18119

13 December 2018

SUBJECT:

Fan Drive Gearbox

MODELS INVOLVED:

IC Bus® RE Series Bus

DEFECT DESCRIPTION:

Certain IC Bus® RE Series buses may have been built with the fan drive misaligned to the fan drive gearbox resulting in possible wear of the splines on the gearbox shaft.

ELIGIBILITY:

This procedure applies ONLY to vehicles marked in the International® Service PortalSM with FSC 18119. Also complete any other open campaigns listed on the Service Portal at this time.

TOOLS REQUIRED:

No Special Tools Required

PARTS REQUIRED:

Part Number	Description	Quantity
25896R1	Washer, Flat 3/8	4
4087865C1	Gear, Drive, Mechanism Fan, 90 Degree	1 If Needed
HOR992193	Pulley, Fan Drive	1 If Needed
6132975C1	Support, Fan Gear-Drive Pulley	1 If Needed
4087885C1	Support, Fan Gear-Drive, Front	1 If Needed

Table 1 Parts Information

WORK INSTRUCTIONS

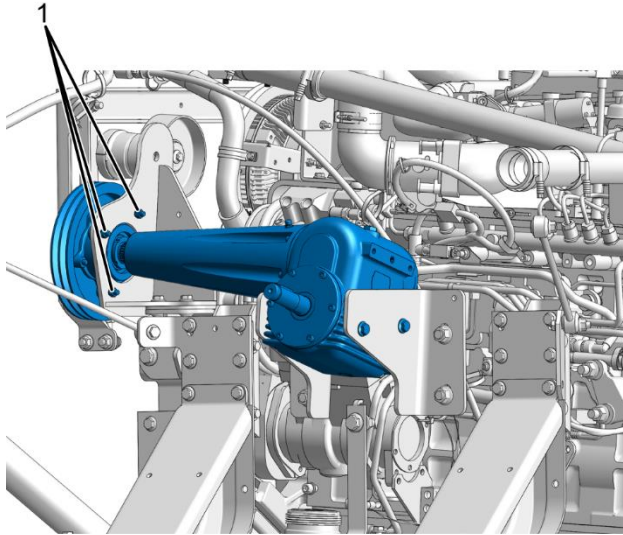
GOVERNMENT REGULATION: Engine fluid (oil, fuel, and coolant) may be a hazard to human health and the environment. Handle all fluid and other contaminated materials (such as filters and rags) in accordance with applicable regulations. Recycle or dispose of engine fluids, filters, and other contaminated materials according to applicable regulations.

WARNING! To prevent property damage, personal injury, and / or death, park vehicle on hard flat surface, turn the engine off, set the parking brake, and install wheel chocks to prevent the vehicle from moving in both directions.

WARNING! To prevent personal injury and / or death, always wear safe eye protection when performing vehicle maintenance.

WARNING! To prevent property damage, personal injury, and / or death, keep flames or sparks away from vehicle and do not smoke while servicing the vehicle's batteries. Batteries expel explosive gases.

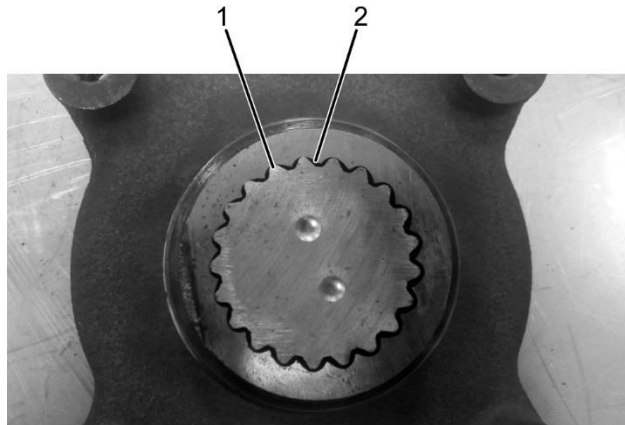
1. Park vehicle on flat surface.
2. Shift transmission to Park or Neutral and set parking brake.
3. Turn ignition to Key OFF position.
4. Install wheel chocks.
5. Unlatch and open rear engine door.
6. Remove fan gearbox drive belt; refer to appropriate service manual for detailed instructions.



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Figure 1. Fan Pulley Hub

1. Nut (3)
7. Remove nuts (Figure 1, Item 1) and washers from backside of pulley hub.
8. Slide fan drive pulley off gearbox shaft until pulley contacts right-side support bracket.
9. Push fan drive pulley hub onto fan gearbox shaft.
 - a. If fan drive pulley hub slides freely into fan drive pulley bracket, replace flat washers with hardened washer and proceed to Step 15.
 - b. If fan drive pulley hub does not slide freely into fan drive pulley hub bracket, proceed to Step 10.



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Figure 2. Sharp Peaks and Rounded Splines

1. Sharp peaks
2. Rounded valleys

10. Perform inspection on fan drive splines.
 - a. Visually inspect hub spline for sharp peaks (Figure 2, Item 1) and rounded valleys (Figure 2, Item 2).
 - b. Using a pin gauge, ensure a 0.030-inch pin cannot be installed into any gap between shaft and hub.

NOTE: If the fan drive splines pass the inspection but did not slide freely on the gearbox shaft, the alignment procedure must be performed.

11. If fan drive splines pass inspection, proceed to Step 14. If fan drive splines fail inspection, proceed to Step 12.
12. Remove radiator assembly; refer to appropriate service manual for detailed instructions.
13. Replace fan drive, fan drive pulley hub, and support; refer to appropriate service manual for detailed instructions.

NOTE: Failure to perform and / or follow alignment procedure according to the service manual will result in part failure.

14. Perform alignment procedure; refer to appropriate service manual for detailed instructions.

15. Secure fan drive pulley hub nuts.
16. Using a torque wrench, tighten fan drive pulley hub nuts to 24 lb-ft (33 N•m).
17. Install fan gearbox drive belt; refer to appropriate service manual for detailed instructions.
18. Close and latch rear engine door.
19. Remove wheel chocks.

LABOR INFORMATION

Operation number must appear on all claims.

Operation Number	Description	Time
A40-18119-1	Inspect and Pass	0.2 hr
A40-18119-2	Inspect and Adjust at Front Bracket Only	0.5 hr
A40-18119-3	Inspect and Adjust Front and Center Bracket	0.6 hr
A40-18119-4	Inspect and Adjust Front Bracket, Center Bracket and Replace Rear Bracket	0.9 hr
A40-18119-5	Replace Gearbox, Pulley and Support (If Needed)	4.0 hr

Table 2 Labor Information

WARRANTY CLAIMS

Warranty claim expense is to be charged to Warranty. Claims are to be submitted in the normal manner, making reference to Field Service Campaign 18119.

Section 7 of the Warranty Policy and Procedures Manual contains further information related to the submission and processing of AFC / Recall claims.

As with all claim submissions, items acquired locally must be submitted in the “Other Charges” tab. The cost of any bulk items (such as a bag of cable tie straps, roll of wire, barrel of oil, or tube of silicone) should be prorated for the cost of the individual pieces / amount used during each repair.

To make sure this important improvement is made in a timely manner, all claims for 18119 activity must be submitted by 13 December 2019 or within the normal warranty period for the component, if after 13 December 2019.

GROUP	NOUN	C	WARR.	TP	PAD

GROUP — Enter number

NOUN — Leave blank

C (CAUSE) — Enter either 1, 2, 3. (See below)

1. Inspected (No repair required).
2. Inspected and repaired.
3. Defective part from parts stock.

WARRANTY — (Warranty Code) Enter 40.

TYPE PART — Enter P for type part causing failure.

PAD — Enter 100

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