



FIELD SERVICE CAMPAIGN – 23114

29 January 2024

SUBJECT:

Remove and replace driveshaft on IC Bus® Electric CE Series school bus.

MODELS INVOLVED:

IC Bus® Electric CE Series school bus

DEFECT DESCRIPTION:

Certain IC Bus® Electric CE Series school bus may have an improperly balanced driveshaft resulting in vibration complaints and other driveline-related concerns.

ELIGIBILITY:

This procedure applies ONLY to vehicles marked in the International® Service PortalSM with FSC 23114. 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
DS170DS55001F290M	DRIVESHAFT (Direct Ship Parts)	1
2500674C91	U-JOINT KIT, DRIVESHAFT	2

Table 1 Parts Information

WORK INSTRUCTIONS

WARNING! To prevent personal injury or death, NEVER service a high-voltage vehicle without completing High-Voltage safety training. Before working on vehicle, read and obey all High-Voltage Safety and Lock-Out Tag-Out procedures and information.

WARNING! To prevent personal injury or death, read all information in the Safety Information and High-Voltage Safety sections of the service manual.

WARNING! To prevent personal injury and / or death, or damage to property, 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 personal injury and / or death, or damage to property, if the vehicle must be raised, do not work under the vehicle supported only by jacks. Jacks can slip or fall over.

WARNING! To prevent personal injury and / or death, or damage to property, 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 a dry and level surface.
2. Put drive mode selector in Neutral and set parking brake.
3. Turn ignition to Key OFF position.
4. Install wheel chocks.
5. Turn 12V disconnect switch OFF. Refer to appropriate service manual for detailed instructions.
6. Perform High-Voltage Isolation Level 1. Refer to appropriate service manual for detailed instructions.



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Figure 1. Universal Joint (U-Joint) Strap with Bolts

1. U-joint strap bolt (4)
2. U-joint strap (2)

NOTE: When removing or installing the universal joint (U-joint), it is possible for the U-joint caps to slide off. Any type of tape wrapped around the top of each U-joint cap will keep the caps in place until the U-joint is removed or installed.

7. Remove and discard four U-joint strap bolts (Figure 1, Item 1) and two U-joint straps (Figure 1, Item 2) from drive motor yoke.

NOTE: A pry bar may be used if the U-joint will not come out of the yoke. Gently pry the U-joint out of its seat to aid in removal.

8. Using a suitable lifting device, remove driveshaft yoke from drive motor yoke and lower driveshaft end from drive motor yoke onto lifting device.
9. Remove and discard four U-joint strap bolts and two U-joint straps from differential yoke.
10. Lower driveshaft and remove from under vehicle.
11. Place new driveshaft under vehicle.

12. Lift new driveshaft into position. Insert forward driveshaft U-joint into differential yoke and install new U-joint straps and bolts at forward yoke.
13. Raise rear of driveshaft. Insert rear driveshaft U-joint into drive motor yoke and install new U-joint straps and bolts at drive motor yoke.
14. Using torque wrench, tighten forward U-joint strap bolts to 45 lb-ft (62 N·m).
15. Using torque wrench, tighten rear U-joint strap bolts to 45 lb-ft (62 N·m).
16. Install Manual Service Disconnects (MSD) that were removed in Step 6. Refer to appropriate service manual for detailed instructions.
17. Turn ON 12V disconnect switch. Refer to appropriate service manual for detailed instructions.
18. Turn ON high-voltage disconnect switch. Refer to appropriate service manual for detailed instructions.
19. Remove wheel chocks.

WARNING! To prevent injury and / or death, or damage to property, destroy removed driveshaft to avoid any possible future reuse. It is recommended to cut removed driveshaft in half.

20. Using either a torch or cutting wheel, destroy removed driveshaft by cutting component completely in half.

LABOR INFORMATION

Operation number must appear on all claims.

Operation Number	Description	Time
A40-23114-1	L1 Disconnect, replace, and destroy driveshaft	1.1 hr

Table 2 Labor Information

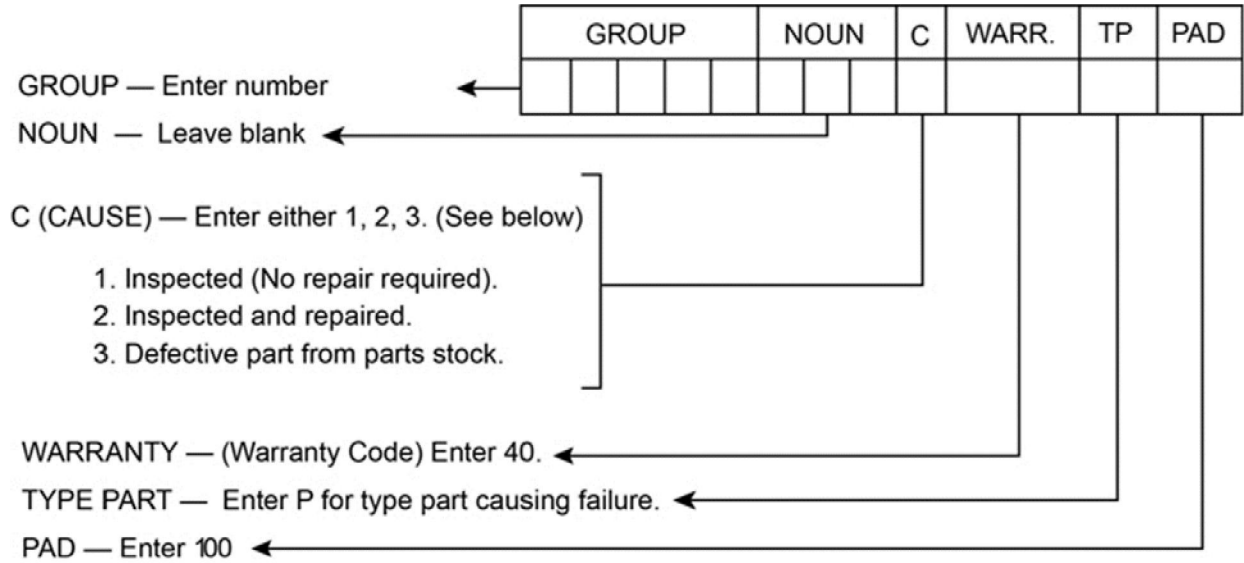
WARRANTY CLAIMS

Warranty claim expense is to be charged to Warranty. Claims are to be submitted in the normal manner, making reference to Field Service Campaign 23114.

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 that this important improvement is made in a timely manner, all claims for 23114 activity must be submitted by 29 January 2025 or within the normal warranty period for the component, if after 29 January 2025.



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