



SERVICE BULLETIN

SB1270

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| ADDRESSEES | : ABC Customer Care and Parts Source Owners and operators of coaches listed under 'Application' |
| VEHICLE MODEL | : T2145, C2045, CX45 |
| MANUAL SECTION | : Chapter 12.10: Drive axle |
| BULLETIN TYPE | : Field Change Program |
| DATE | : September 05th, 2014 |
| SUBJECT | : To change not properly heat-treated axle shafts |
| TERMS & CONDITIONS | : Refer to the warranty section further in this Bulletin. |

APPLICATION:

| Model | VIN |
|-------|--|
| T2145 | 44416→44418 44937, 44939 |
| C2045 | 46373, 46374, 46380, 46381 46383→46399 46405, 46406, 46416, 48050, 48051, 48054, 48056 48068→48079 48082→48102 |
| CX45 | 48201 |

DESCRIPTION:

- Axle manufacturer Dana has informed Van Hool of a quality issue on the axle shafts of some drive axles. The affected axle shafts have been incorrectly heat treated what can result in early failure if the shafts are subjected to extreme or adverse operating conditions.
- To address this issue, Dana and Van Hool are conducting a field change program to replace these axle shafts. Terms and conditions are explained further on under "Warranty".
- Owners and operators of the affected units should replace the axle shafts.
- Refer to the step-by-step instructions explained in this Service bulletin.

MATERIAL:

| VH reference | Dana reference | Description | Qty. |
|--------------|----------------|------------------------------|------|
| 11047670 | 824203 | Short axle shaft (left side) | 1 |
| 11047674 | 834202 | Long axle shaft (right side) | 1 |

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PREPARATIONS:

- Park the coach on a level surface with the front wheels straight.
- Apply the parking brake and shut down the engine.
- Switch off all systems and turn off the battery master switch.
- Put a “DO NOT OPERATE” tag on the steering wheel.
- Chock the front and tag axle road wheels.



CAUTION!

Observe safe shop practices at all times.

Procedure: Axle shaft change out procedure

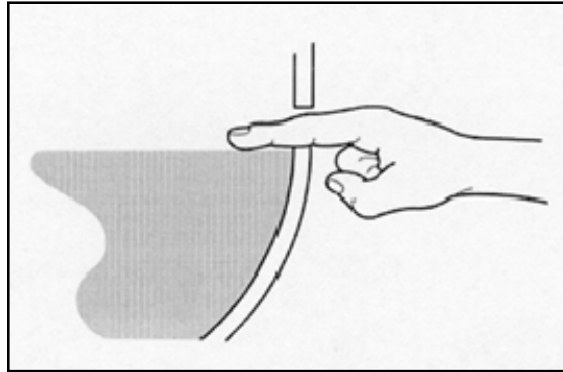
1. Remove the 8 x Verbus Ripp retaining screws securing the axle shaft to the hub.
2. Place a drip tray or spill cloth under the flange end of the axle shaft to catch any oil which may be lost as the axle shaft is extracted.
3. Insert 2 x M10 x 1.5 “jacking screws” into the 2 threaded holes in the axle shaft flange. This will pull the axle shaft flange away from the hub face.
4. Pull the axle shaft from the axle.
5. Clean the face of the hub and apply a thin bead of soft sealant (Loctite 518 or similar).
6. Identify the correct position of the axle shafts. On the figure below it is shown that the shorter shaft part No.834203 is fitted at the LH side of the vehicle/axle. The longer shafts part No.834202 is fitted at the RH side of the vehicle/axle.



7. Insert the new axle shaft into the axle, aligning the axle shaft splines with the differential side gear. Some rotation of the axle shaft will be necessary to align the splines.

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8. Fit the 8 x Verbus Ripp axle shaft retaining screws and tighten to a torque of 314 to 346 Nm (230 to 255 ft.lbf).
9. When both axle shafts have been replaced check that the axle lube is level with the bottom of the filler hole. Top up the axle oil level if necessary.
10. Refit the filler plug and tighten to a torque of 54 to 68 Nm (40 to 50 ft.lbf).



WARRANTY:

1. Terms and conditions:

Part supply: parts will be supplied through regular channels, free of charge.

Parts disposal: return old parts back to ABC properly labeled with VIN ID tag.

Labor allowance: 2.0 (two) hours of labor will be awarded per coach repaired.

Campaign expiration date: Service Bulletin issue date + 1 year.

2. Claim references:

- Causal parts: 11047670 (Dana 824203), 11047674 (Dana 834502)
- Job code: B40156

Claim submission: Contact ABC Customer Care Warranty Department for guidance.