Authorized Field Change

AFC G-08905

Date: June, 2008

Subject File: Bus Body

Subject: Instrument Cluster Connector Interference with the Defroster Duct on CE and BE Bus Models with MaxxForce 7 or MaxxForce DT Engines

Model: BE Bus
Start Date: 06/27/2006 End Date: 01/30/2008

Model: CE Bus
Start Date: 06/07/2006 End Date: 01/30/2008

DESCRIPTION

There is an interference between the instrument cluster connector and the defrost duct. This interference may cause the Instrument Cluster to lose data link communication resulting in gauges dropping out and /or operating intermittently. The issue started at the launch of 2007 engines in BE and CE bus products.

PARTS INFORMATION

Table 1

Part Number	Description	Quantity
8000894R91	Kit Defrost Duct	1

SERVICE PROCEDURE

WARNING – To prevent personal injury or death, make sure the transmission is in neutral or park, parking brake is set, and wheels are blocked before doing diagnostic or service procedures on engine or vehicle.

Tools Needed:

1. Safety glasses
2. Work gloves
3. Rivet gun
4. 1” putty knife
5. Screw drivers Phillips and flat
6. Utility knife with a new blade and replacement blades
7. Saw Blade; i.e., fine toothed jig saw blade to hand cut plastic

SERVICE PROCEDURE (CONT.)

8. Cordless drill with ¼” dia bit and or a Die-grinder (Dremel)
9. Drill bit .192” - .196” dia.
10. Tape measure
11. Paint Pen Marker, white or Yellow (Not Black)
12. Duct tape
13. Rag or Paper towels
14. Flashlight.

NOTE – There is no need to remove the top of the dash.

NOTE – Place all parts in a safe location for re-assembly.

Figure 1

SERVICE PROCEDURE (CONT.)

1. Remove instrument cluster bezel by removing 2 screws located underneath left and right sides and pulling from the snap clips top left and right side (Figure 2).

Figure 2

2. Remove the steering column cover by removing 3 screws from underneath (Figure 3).

Figure 3

SERVICE PROCEDURE (CONT.)

3. Remove the instrument cluster. Remove 4 screws and disconnect the 3 electrical connectors. Adjust tilt column to ease removal (Figure 4).

Figure 4

SERVICE PROCEDURE (CONT.)

4. Remove the plastic nipples from the back side of the duct patch part with a utility knife. This will make the surface flush for a better fit (Figure 5).

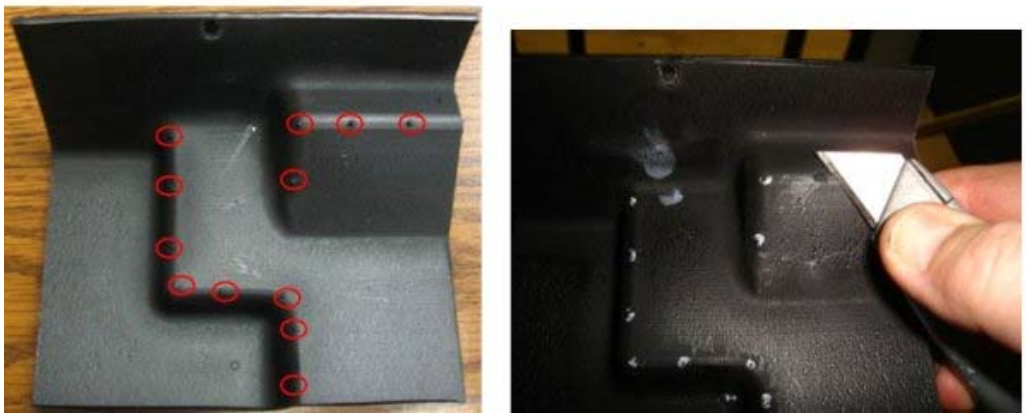


Figure 5

5. Measure and mark the defrost duct for the area that will be cut out (Figure 6).

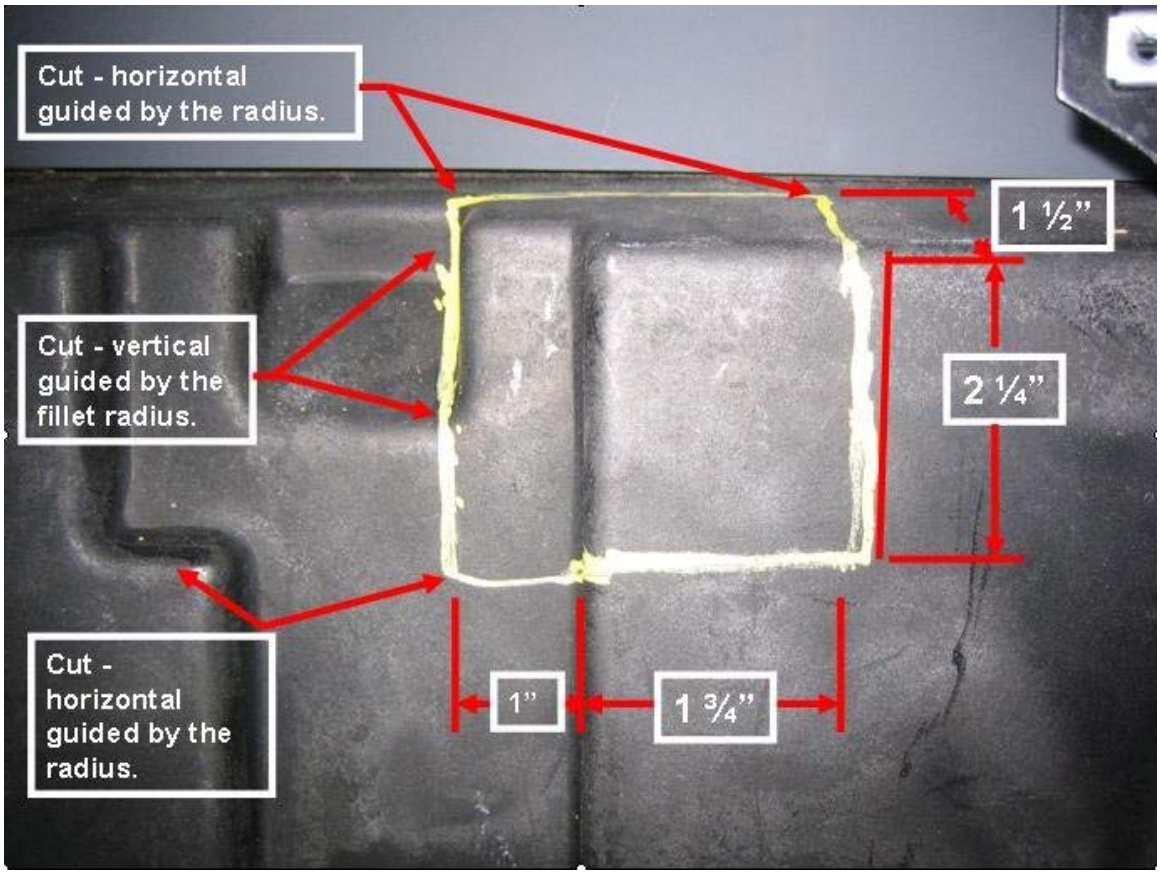


Figure 6

SERVICE PROCEDURE (CONT.)

6. Use a drill or die grinder (dremel) to follow the cut pattern (Figure 7). Use the saw blade to cut the rest of the perimeter that cannot be cut with the drill or die grinder due to access (Figure 7).

CAUTION – Do not insert the drill bit further than a 1/4" to avoid drilling a hole in the back side of the duct.

NOTE – This can be cut out with out removing the driver side dash cover.

WARNING – Wear gloves to protect the hands. Wear safety glasses. Tape the end of the saw blade in the location to hold it.

Figure 7

SERVICE PROCEDURE (CONT.)

7. Once the area is completely cut out, use a utility knife to clean up the edges (Figure 8). Trial fit the patch in place (Figure 8). If the patch flanges do not fit flush to the existing duct, use the utility knife to remove the interference.

NOTE – Patch is gray in color to better identify in the instructions. The kit's patch will be black.

Figure 8

8. Drill (4) .192" - .196" dia. holes in locations shown (Figure 9). Make sure to hold the patch so that all flanges set flush to the duct surface by pushing to the right, forward, and down. Be sure the holes are located in the middle of the overlap between the patch flange and the duct. Once one hole is drilled, use the rivets to help hold in place (DO NOT COMPRESS RIVET). Remove rivets and patch.

CAUTION – Only allow the drill bit to penetrate ¼" through the duct, so that you do not drill a hole in the back side of the duct.

Figure 9

SERVICE PROCEDURE (CONT.)

9. Clean the plastic shavings out of the defrost duct with a vacuum cleaner (Figure 10). Use duct tape with one end folded up to clean in the hard to reach areas that the vacuum could not reach (Figure 10). Continue to use the duct tape until you get all of the plastic shavings. Also vacuum up the steering area and floor area for general cleaning.

Figure 10

10. Apply a ¼" bead of Black Silicone Adhesive sealant around the perimeter, but on the inside of the rivets (Figure 11). Apply a second ¼" bead around the perimeter and just to the outside of the rivets (Figure 11).

NOTE – At the top there may not be enough room for the second bead. That is OK.

Figure 11

SERVICE PROCEDURE (CONT.)

11. Install patch and rivet to the defrost duct (Figure 12).

Figure 12

12. Apply a 3rd ¼" bead of Black Silicone Adhesive sealant around the exterior perimeter and smooth out around perimeter (Figure 13).

Figure 13

SERVICE PROCEDURE (CONT.)

13. The back edge of the patch will be sandwiched between the driver's side dash cover and the defrost duct. That is the intent. This will help hold the patch in place as the adhesive sealer cures (Figure 14).

Figure 14

14. Re-install the Instrument panel cluster, cluster bevel, and steering column cover (Figure 15) (Reference steps 1 – 3).

Figure 15

SERVICE PROCEDURE (CONT.)

15. Though you will not be able to see the clearance created by the installation of the kit, this is what it looks like with the driver side dash cover off. DO NOT TAKE THE DRIVER SIDE DASH COVER OFF.

Figure 16

16. Check the instrument cluster for proper operation and lighting. If the instrument cluster does not operate, doublecheck that all of the connectors were properly connected.

Operation number must appear on all claims.

Table 2 Labor Information

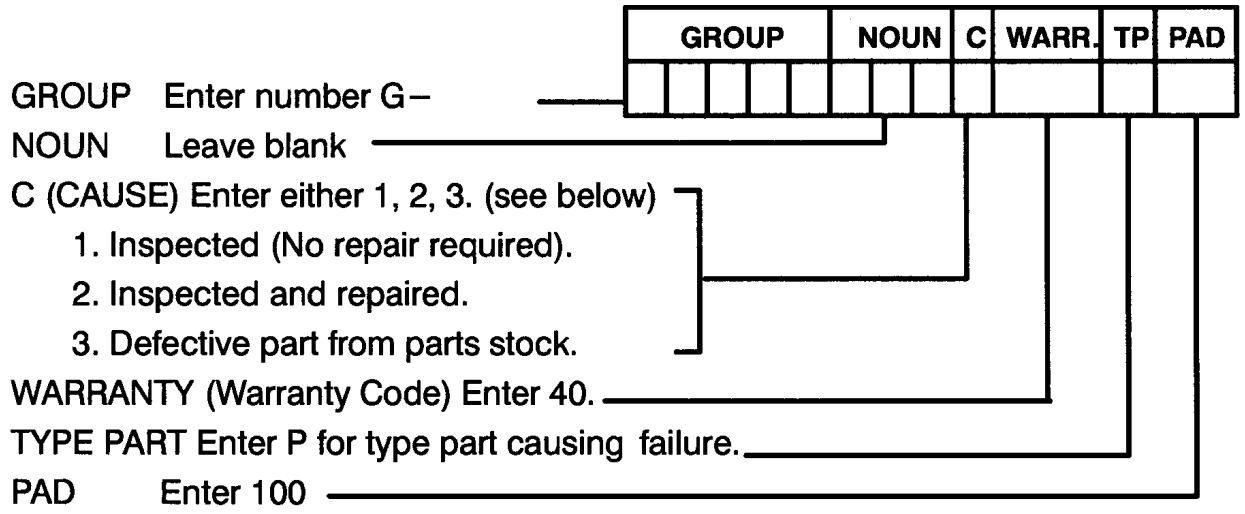
Operation No.	Description	Time
A40–08905–1	Install Duct Patch	1.0 Hr.

ADMINISTRATIVE PROCEDURE

Expense is to be charged to Warranty. Claims are to be submitted in the normal manner, making reference to Authorized Field Change Number G-08905

It is important that the coding be completed properly to assist in processing the warranty claim. Complete instructions will be found in the Warranty Manual, Section 7–1. Special attention should be given to Items 39 through 44.

To assure this important improvement is made in a timely manner, all claims for G-08905 activity must be submitted by June 30, 2009 or within the normal warranty period for the vehicle, if after June 30, 2009.



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