



SERVICE BULLETIN No.1121

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COACH MODEL	: C2045
BULLETIN TYPE	: Service Information
MANUAL & SECTION	: N/A
PARTS BOOK REVISION	: No
DATE	: October 27th, 2003
SUBJECT	: Alternator harness and lavatory slide valve heat shield interference possibility on coaches with Detroit Diesel engine
TERMS & CONDITIONS	: Van Hool/ABC will reimburse 30 minutes of labor per vehicle inspected upon receipt of a completed claim form on which has been specified "B+ alternator harness inspected as per Van Hool Service Bulletin No.1121."

APPLICATION:

The inspection procedure subject of this Bulletin is applicable to following units:

Model	Engine	VIN
C2045	Detroit Diesel	45808 → 45809, 45814 → 45815, 45826 → 45835, 45839 → 45887, 45889 → 45891, 45900 → 45903

DESCRIPTION:

1. On the above-mentioned units, it is necessary to inspect the alternator B+ harness installation and possibly have the wiring repaired in order to improve the reliability of the system.
2. It has been determined that the alternator B+ cables may interfere with the shield, which protects the lavatory slide valve from engine heat.
3. If there is insufficient clearance between the wiring and the heat shield, the insulation of the B+ cables may be subject to chafing, which in turn can lead to arcing and possible shorts.
4. Refer to the procedure in this Bulletin for inspection instructions and guidance on repair arrangements.

Service personnel: please read, initial and circulate.

Service Manager	Parts Manager	Warranty Administrator	Workshop Foreman	Service Technician

PARTS AND PRODUCTS:

The repair of the B+ alternator harness may include following parts:

Part No.	Description	Qty.
VH 10528015	Heat shrink tubing, Ø 33/64 inch, black	#
VH 660777000	Alternator wire, 0 AWG (50 mm ²), black	12.7 ft
VH 660765812	Ring terminal	2
VH 660777406	Sleeve, Ø 19/323 inch, black	#

PROCEDURE:

1. General:

- Inspection should be done by an experienced automotive electrician.
- For more information refer to the coach' Electrical Wiring Diagram Booklet.

2. Special tools, equipment or services:

- To check the alternator B+ cable installation, no special tools, equipment or services are required.

3. 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 instrument panel.
- Read the entire procedure before beginning to work.

CAUTION: Observe safe shop practices at all times.

4. To check the alternator B+ cable installation:

- 1) Open the engine compartment rear and side access doors.
Locate the lavatory slide valve heat shield.
- 2) Check the alternator B+ harness protection sleeve and cable for actual or potential damage as shown in 1, Figure 1.

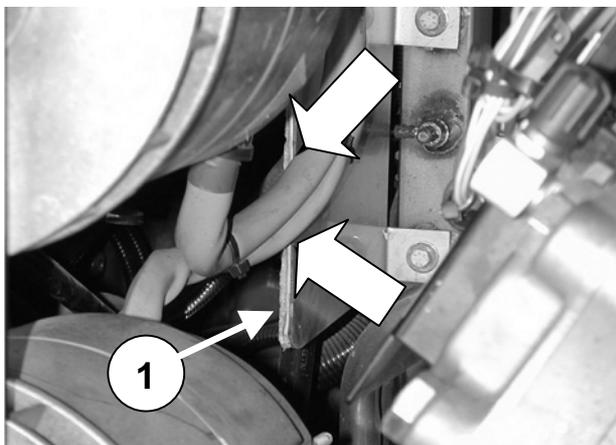


Figure 1: Damage hazard at the lavatory slide valve heat shield (1)

Insulation damage: any damage to the protection sleeves and/or the B+ cable wire insulation should be repaired with heat shrink tubing.

Wire core damage: any B+ cable, of which the wire section has been reduced to less than 0 AWG (50 mm²) should be substituted. New cable should be protected with sleeve and secured with tie wraps.

CAUTION: Alternator B+ cables of which the core has been damaged, should be substituted in their entirety. No attempt should be made to partly replace these cables.

- 3) Check the B+ harness installation to comply with the recommended one shown in Figure 2. Cables should be installed free of strain and be supported only by rubber insulated clamps. Wiring should not be allowed to contact anything that might cause damage to it.

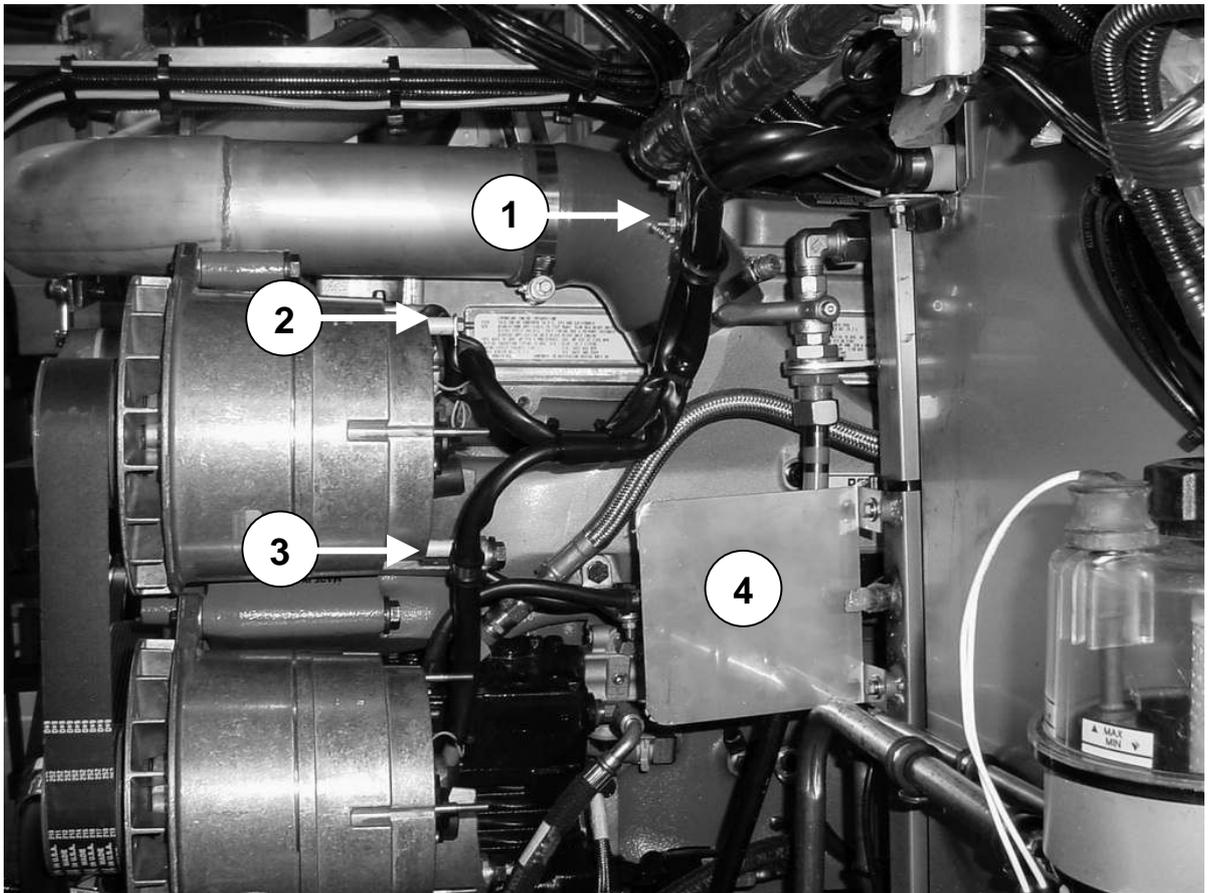


Figure 2: Proper routing of alternator cables and location of heat shield (HVAC compressor not shown):

1. Chassis to B+ harness clamp
2. Upper alternator B+ cable clamp
3. Lower alternator B+ cable clamp
4. Lavatory slide valve heat shield

Note ample heat shield to alternator B+ cable vertical clearance.

- 4) If there is any damage to or poor installation of the alternator B+ cables, contact ABC Customer Care & Parts Source to have the problem rectified.

- 5) As a preventive measure to clear the alternator B+ harness, carefully bend the heat shield 1-3/8 inch (35 mm) towards the lavatory slide valve (see Figure 3).

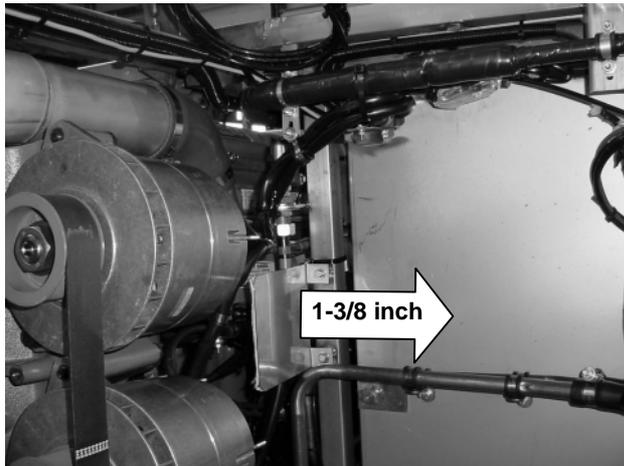


Figure 3: Bending the heat shield to clear the wiring

Procedure complete.

DISCLAIMER:

The procedures contained herein are not exclusive. Van Hool cannot possibly know, evaluate, or advise the transportation industry of all conceivable ways in which a procedure may be undertaken or of the possible consequences of each such procedure. Other procedures may be as good, or better, depending upon the particular circumstances involved.

Each carrier who uses the procedures herein must first satisfy itself thoroughly that neither the safety of its employees or agents, nor the safety or usefulness of any products, will be jeopardized by any procedure selected.

SERVICE INFORMATION:

Service Bulletins are issued to supplement or supersede information in the Van Hool manuals. Note Service Bulletin number, date and subject on the register at the end of the relevant chapter(s). File Service Bulletin separately for future reference.