



SERVICE BULLETIN No.1119

Circulate to listed addressees

COACH MODEL	: C2045
BULLETIN TYPE	: Product Improvement
MANUAL & SECTION	: Maintenance Manual: Chapter 10 – HVAC System Spare Parts Manual: N/A
PARTS BOOK REVISION	: No
DATE	: October 22nd, 2003
SUBJECT	: HVAC Blinking warning light
TERMS & CONDITIONS	: No claims will be accepted with reference to this Bulletin.

APPLICATION:

The service information subject of this Bulletin is applicable to following units:

Model	Engine	VIN
C2045	Cummins	45001 → 45172 and 45174 → 45221
	Detroit Diesel	45501 → 45646 and 45648 → 45685

DESCRIPTION:

- On some units included in the above application listing, there have been reports of the AC warning light coming on intermittently for a short period of time.
- Following tests and a complete rundown of the HVAC system, it has been established that this phenomenon may indeed occasionally occur under certain extreme operating conditions and/or during transient operating modes.
- In these cases it is a temporary instability in the system which triggers the warning light. Further testing however, has shown no detrimental effects on the HVAC system nor could a reduction in performance be recorded.
- To address the issue, technicians at ABC Companies have developed a field fix, which has been fully approved by Van Hool. The procedure attached to this Bulletin shows how the coach wiring can be modified to eliminate the reoccurrence of this phenomenon (refer to the diagram on page 5).

Service personnel: please read, initial and circulate.

Service Manager	Parts Manager	Warranty Administrator	Workshop Foreman	Service Technician

PARTS AND PRODUCTS

- There are no parts required for this modification, only a short length of wire and some crimp connectors.
- Always use genuine maintenance products and parts. Do not accept imitations.
- Parts and products disposition: discard according to applicable environmental regulations.

PROCEDURE:

1. General:

- For your information only: the time required to change the compressor to HVAC junction box wiring is approximately 1 hour.
- This job should be executed by an experienced automotive electrician.
- For more information refer to the Electrical Wiring Diagram Booklet that comes with the coach.

2. Special tools, equipment or services:

- This job requires the use of a crimping tool.

3. Preparations:

- Park the coach on a level-surfaced service pit 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 change the compressor to HVAC junction box wiring:

Refer to the ABC Companies procedure attached to this Bulletin.

Procedure complete.

DISCLAIMER:

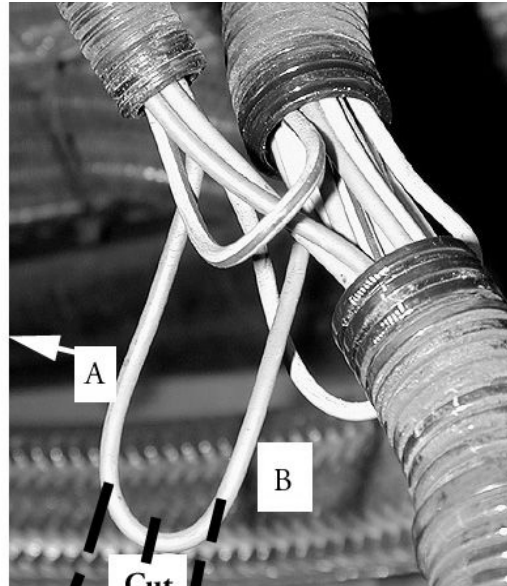
The procedures contained herein are not exclusive. Van Hool/ABC cannot possibly know, evaluate, or advise the transportation industry of all conceivable ways in which a procedure may be undertaken or of the possible consequences of each such procedure. Other procedures may be as good, or better, depending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

- 1) In HVAC Junction Box, remove brown wire from ground stud.
- 2) Above A/C Compressor, cut brown ground wire as shown.
- 3) Splice a wire (chose the color) to side A.
- 4) Cut the Purple wire at the connector of the Low Press switch as shown. Connect the spliced wire from wire A to the purple wire you have just cut.
- 5) In HVAC Junction Box, splice an extension wire of the same color you have chosen previously to the former ground wire refered by item 1.

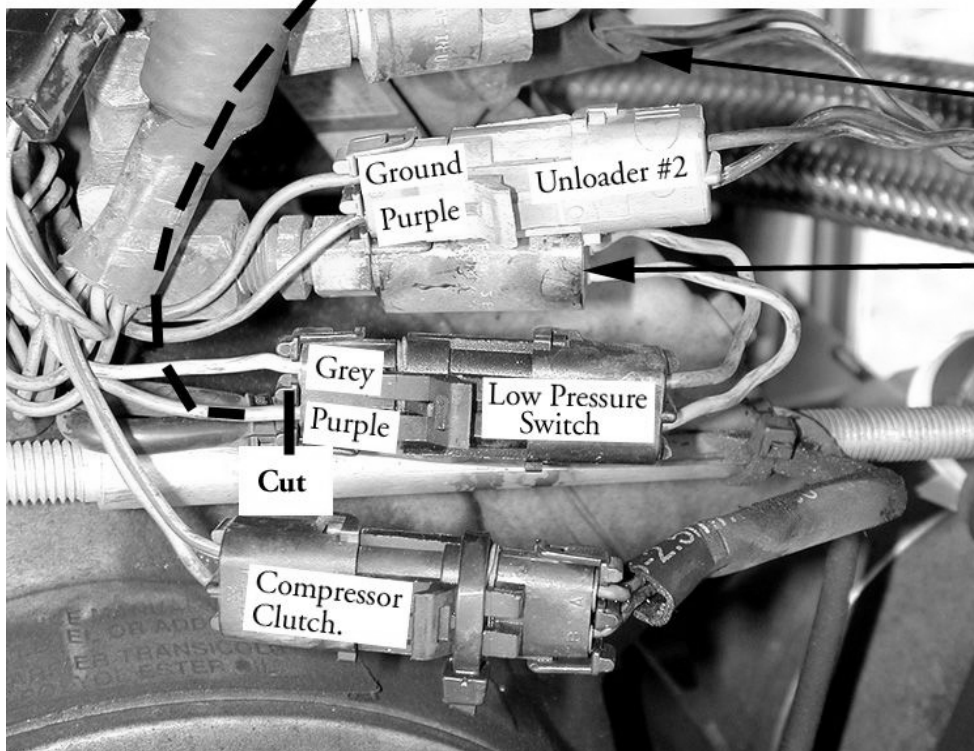


- 6) Using a fast on, connect the sliced wire of item 5 to pin 28 of the Sytronic Board.

The unloader #2 will now be controlled by the HVAC demand monitored by the Sytronic Board, instead of being controlled by the low pressure switch. The board also controls the fans for the condenser and reduces the fans output at the same time that it lowers the compressor output.

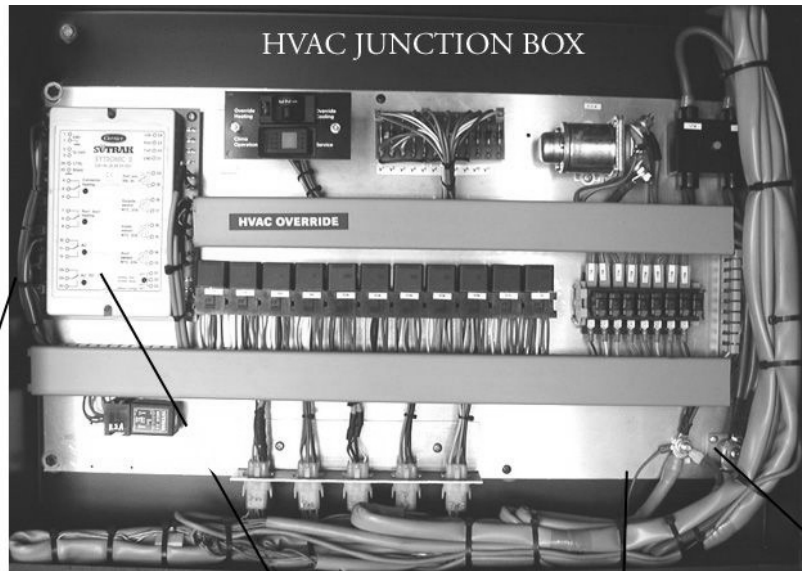
- 7) Extend the ground wire shown as wire B using a brown wire going to the remote start box ground.

To Ground in Remote Start Box.



Capacity Control
Y5A Unloader coil #2.

Low Pressure Switch
B17N

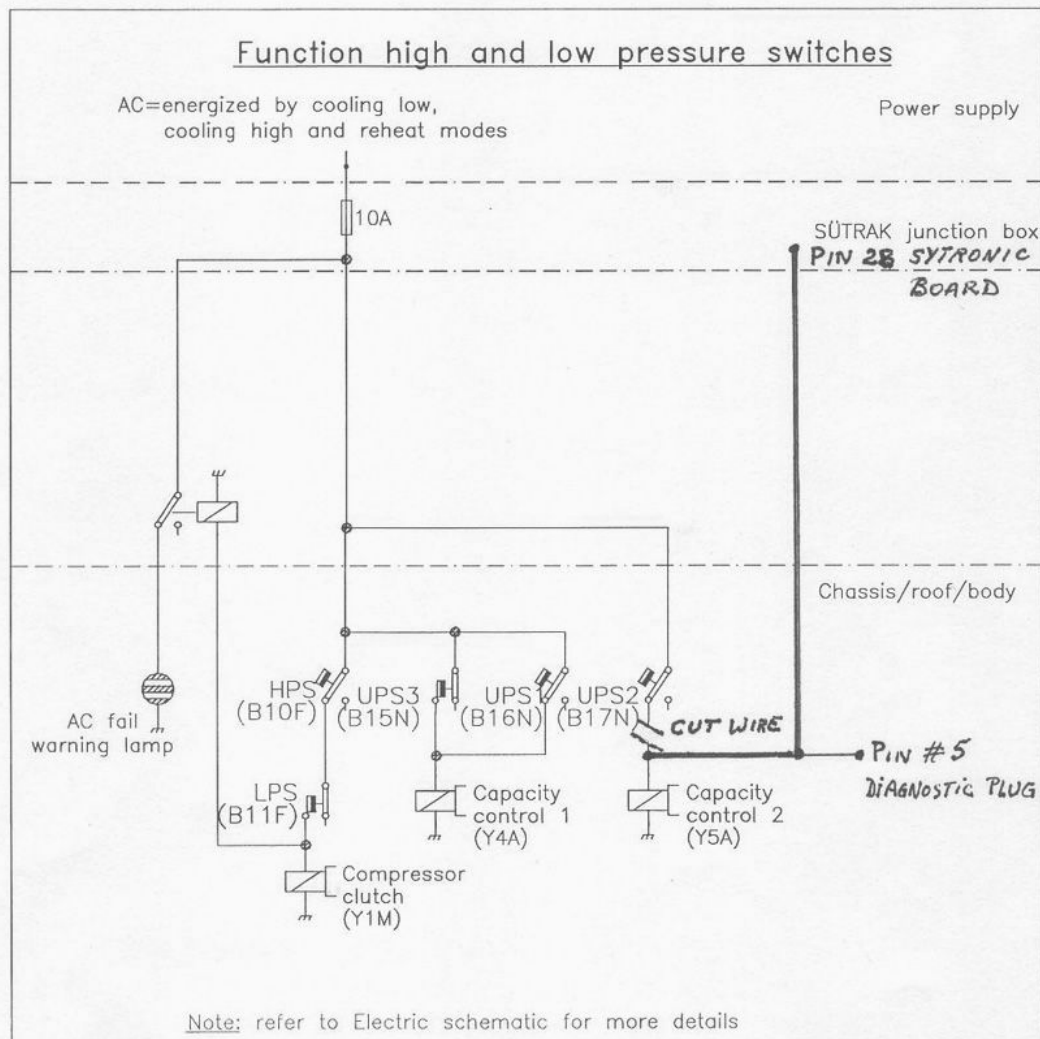


Five wire Harness going to the
A/C Compressor:

- one Red
- one Blue
- one Grey with Black tracer
- one Grey
- one Brown for the GROUND

Harness above the A/C Compressor

6.9.2.3. R-134a system; Pressure switches/ Capacity control



Position of high- and low pressure switches are shown at a pressure of 1 barg (14.7 psig).

Capacity control (2) Y5A is now connected to Pin 28 of the Sytronic box. As HVAC demand reduces, the Sytronic control will drop 2 cylinders from the A/C compressor and reduce condenser fan speed simultaneously.

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