



SERVICE BULLETIN No.1127

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COACH MODEL	: C2045
BULLETIN TYPE	: Service Information
MANUAL & SECTION	: Maintenance Manual: Chapter 10 – HVAC System Spare Parts Manual: Section 771809 – Heating accessories
PARTS BOOK REVISION	: yes
DATE	: November 26th, 2003
SUBJECT	: Proheat Bravo 80 – exhaust change and air compressor service recommendations
TERMS & CONDITIONS	: No claims will be accepted with reference to this Bulletin.

APPLICATION:

1. A new style auxiliary heater exhaust has been cut into production as from the units shown below:

Model	Engine	VIN
C2045	Cummins	45342 →
	Detroit Diesel	45786 →

2. The Proheat service information attached to this Bulletin is applicable to all C-type coaches.

DESCRIPTION:

1. In an effort to eliminate burner exhaust back pressure, Van Hool have replaced in production the old deflector type exhaust pipe by a bent open exit type (see Figures 1, 2 and 3).
As the old style exhaust will not be offered as service replacement any longer, the new style retains the same part number.
The exhaust heat shield VH 10715349 has become obsolete in the new installation (re: Van Hool Service Bulletin #1095 dd November 30th, 2001) .
Refer to the parts section in this Bulletin for more information.
2. Proheat have made recommendations regarding the maintenance and adjustment of the auxiliary heater air compressor in order to increase the time between service intervals and improve heater performance.
Refer to attached Proheat Service Bulletin SB0042 Rev. A for more details.

Service personnel: please read, initial and circulate.

Service Manager	Parts Manager	Warranty Administrator	Workshop Foreman	Service Technician

PARTS AND PRODUCTS:

Old parts

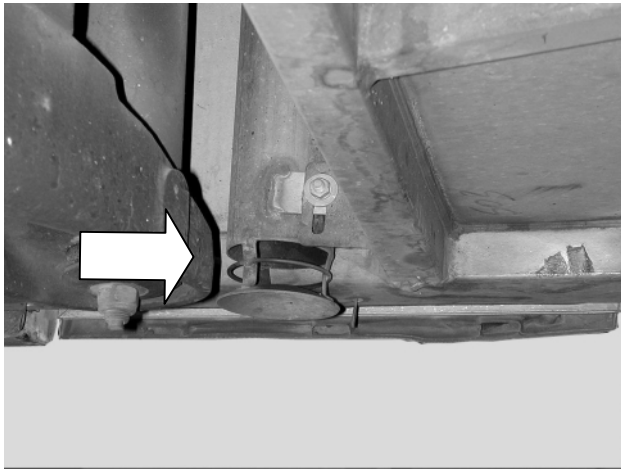


Figure 1: Old style Proheat exhaust for C-coaches

Part No.	Description	Qty.
VH 10692499	Proheat Bravo 80, deflector type exhaust pipe	1

New part

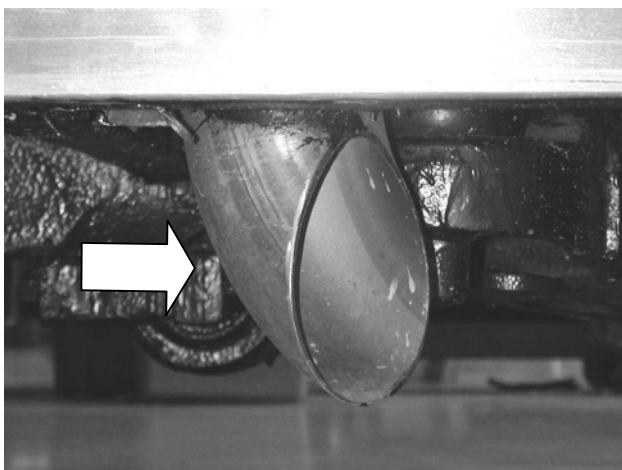


Figure 2 and 3: New style Proheat exhaust for C-coaches

Part No.	Description	Qty.
VH 10692499	Proheat Bravo 80, bent open exit type exhaust pipe	1

- Old and new parts are interchangeable, but only the new will be offered for service replacement.
- The new part will be included in the next Spare Parts Manual update.
- Parts may be purchased from your nearest ABC Customer Care & Parts Source dealership.
- Parts and products disposition: discard according to applicable environmental regulations.

PROCEDURE:

1. General:

- The time required to clean the burner and adjust the air compressor is approximately 2 hours.
- This job should be executed by a technician experienced in HVAC maintenance.

2. Special tools, equipment or services:

- This job requires the use of pressure gauge Proheat P/N PK0060.

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 and adjust the Proheat Bravo 80 air compressor:

- 1) Check the battery voltage to be 24 Volts.
- 2) Proceed as per Proheat Service Bulletin SB0042 Rev. A, which has been attached to this Bulletin.
- 3) Adjust the compressor air pressure to comply with the following conditions:

Engine	System voltage	Air supply pressure
Off	24 V	3.2 psi
Fast idle	27 V	3.5 psi

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.



Service Bulletin

SB0042 Rev. A

April 2003

Description: Bravo 80 Air Compressor

Purpose: Air compressor service recommendation.

Symptoms: The following symptoms may indicate an air compressor service requirement:

- Start Diagnostic Code (1) or Flame Out Diagnostic Code (2) flashing on indicator light.
- Strong exhaust odor and/or smoke while operating.
- Frequent heater servicing due to carbon build-up on flame sensor, ignitor and flame shield.

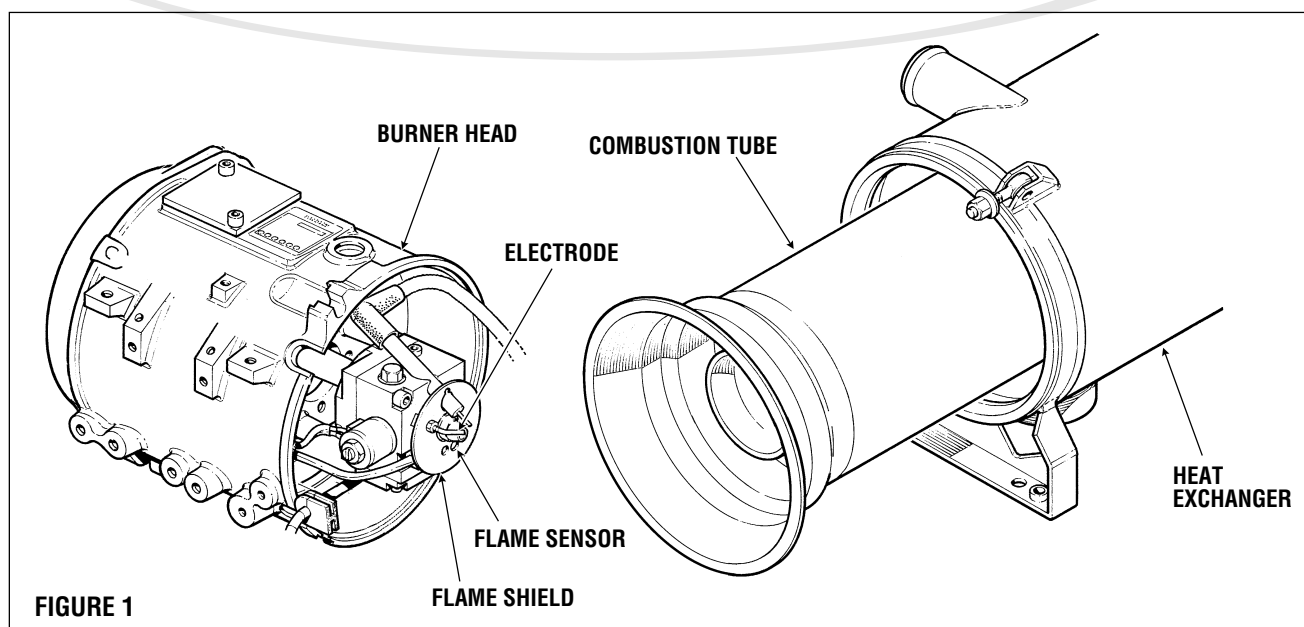
Instructions:

1. Disconnect fuel supply line, all external harnesses, Overheat Breaker connector, Temperature Sensor connector and Fuel Solenoid connector.

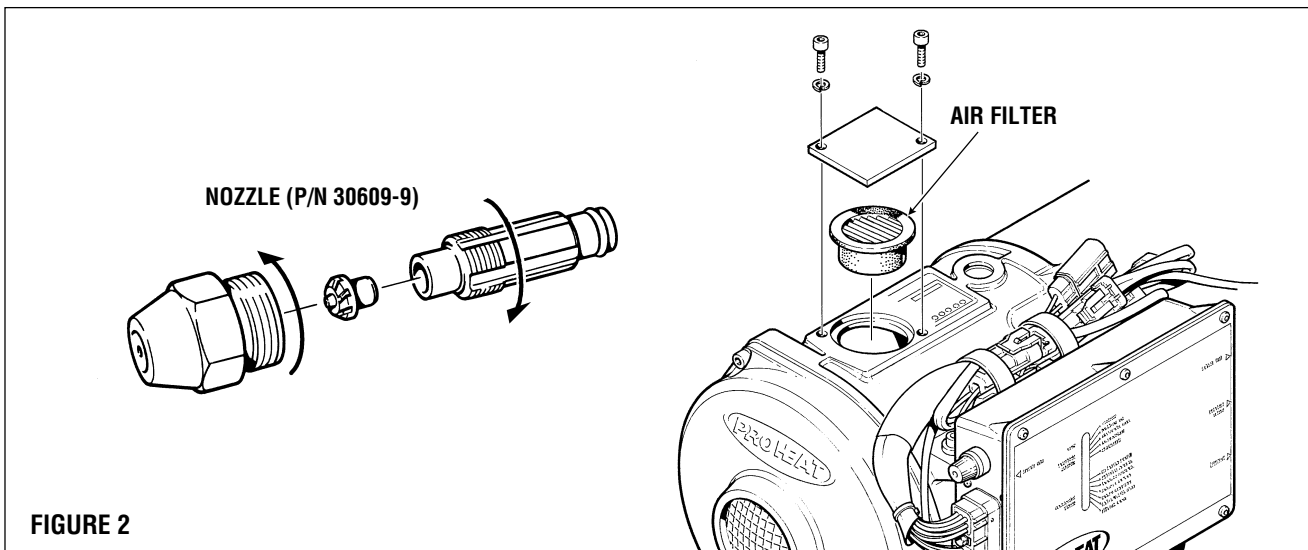
Note: Disconnecting these components will cause the heater to go directly into purge when started and prevent combustion.

2. Remove heater Burner Head Assembly from heat exchanger.
3. Inspect and clean any carbon build-up on the flame shield, flame sensor, electrode, combustion chamber and combustion tube. (see Figure 1)

Warning: Do not use cleaning agents that are flammable.



4. Clean nozzle and check air compressor air filter. Replace if necessary. (see Figure 2)



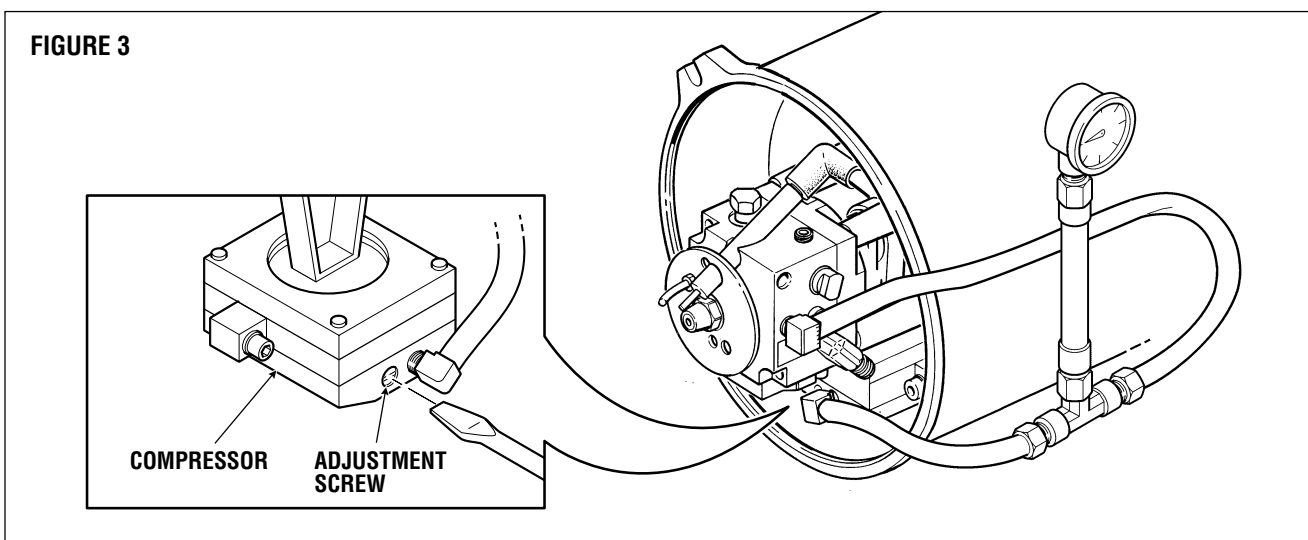
Important: Do step 4 prior to step 5 compressor check.

5. Remove air hose from Fuel Delivery Unit and connect pressure gauge (P/N PK0060) inline with air supply line. (see Figure 3)
6. Reconnect Power and Switch Harness only; start heater and read the air pressure on the gauge. (see Figure 3)

Warning: Flammable. Point Nozzle away from face, open sparks and flames.

7. Adjust pressure as required by turning the pressure adjustment screw. (3.2 psi at 24 Volts). (see Figure 3)

Note: If the screw will not turn, apply a small amount of heat to the adjustment screw area to loosen the loctite. If compressor pressure will not adjust to 3.2 psi, then refer to page 4-18 of the Bravo 80 Service Manual for further instructions.



- 8.** Remove air compressor test gauge and re-attach the air compressor supply hose to fuel block with hose clamp.
- 9.** Re-install heater burner head onto the heat exchanger.
- 10.** Re-connect all electrical connections.
- 11.** Start heater and test run for at least one heating cycle to ensure proper operation.

