



Vacuum Hose to Secondary Air Non-Return Valve

GROUP 12
Engine Electrical
Systems

B 12 04
98

Woodcliff Lake, N.J.
Product
Engineering
September
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PERFORM THE PROCEDURE OUTLINED IN THIS SERVICE INFORMATION ON ALL AFFECTED VEHICLES THE NEXT TIME THEY ARE IN THE SHOP FOR MAINTENANCE OR REPAIRS.

SUBJECT: Vacuum Hose to Secondary Air Non-Return Valve

MODEL: E46 - 323i/iA, 328i/iA produced 4/98 -7/98

Situation: The vacuum hose going to the Secondary Air Non-Return Valve may be incorrectly routed. If this hose comes in contact with the exhaust system the following faults may set within the Engine Control Module (ECM/DME):

Fault Code 245 (F5 hex) - Flow rate secondary air rate too slow bank 1

Fault Code 245 (F6 hex) - Flow rate secondary air rate too slow bank 2

Affected Vehicles: This Service Action involves E46 vehicles with M52 engines which were produced from 4/98 - 7/98.

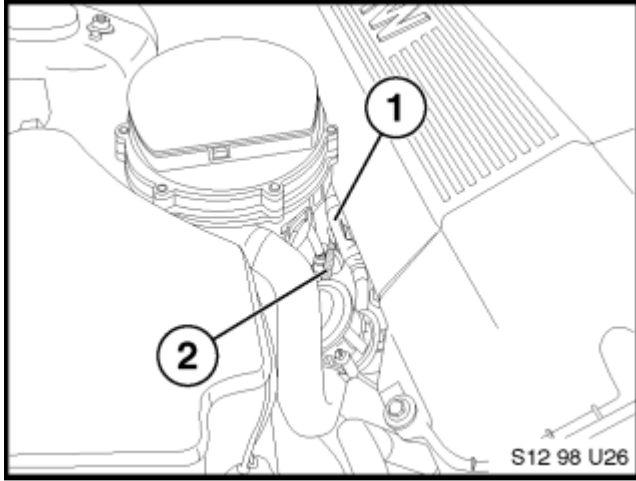
In order to determine if a specific vehicle is affected by this campaign, it will be necessary to utilize the "Service Menu" of the DCS (Dealer Communication System). Based on the response of the system, either proceed with the corrective action or take no further action.

The Chassis Number Ranges listed below are **only** for informational purposes and are not to be considered as the only deciding factor.

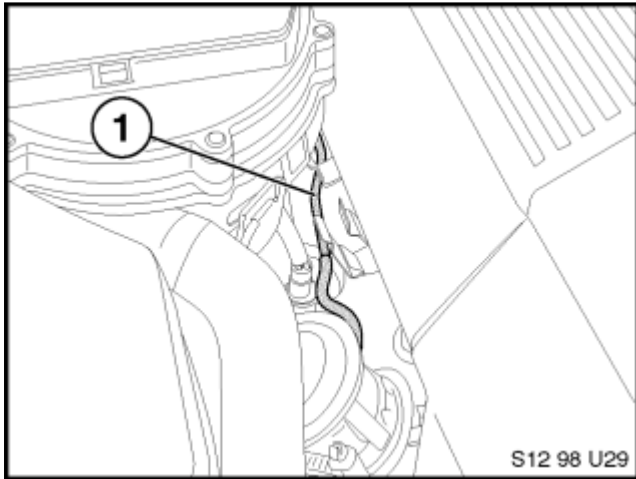
Model	Chassis Number Ranges
323i/4	KC56009 - KC56166
323i/4 A	FP50010 - FP50280
328i/4	KG05005 - KG05794
328i/4 A	FR00006 - FR01420

Correction: Check the condition and routing of the vacuum hose going to the non-return valve on all affected vehicles; reroute if necessary. If the above listed faults are set in the DME the vacuum hose going to the non-return valve may be damaged and may need to be replaced.

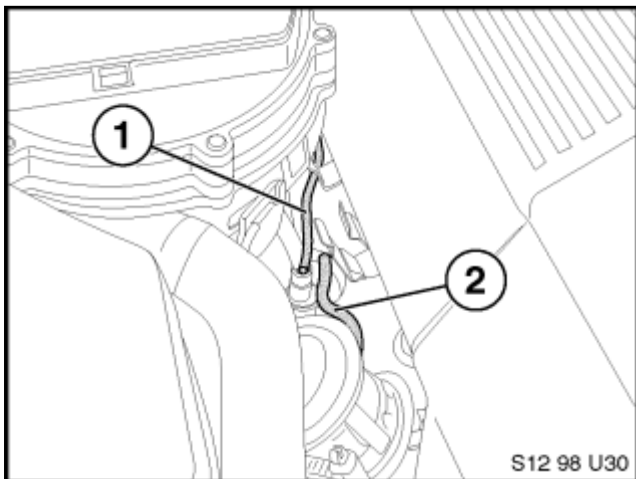
Procedure:



1. Check routing of the vacuum line (2) going to the non return valve. The vacuum line runs below the Oxygen Sensor wiring (1).



2. If the vacuum line (1) is too long it may come in contact with either the oxygen sensor or the exhaust manifold and become damaged.



3. If the vacuum line is found to be damaged it may need to be replaced depending on the location of the damage.

Note: in the area of the front oxygen sensor the vacuum line changes from a plastic tube to a rubber hose.

a. If the damage is on the plastic tube (1):

- Cut off the damaged portion of the plastic tube

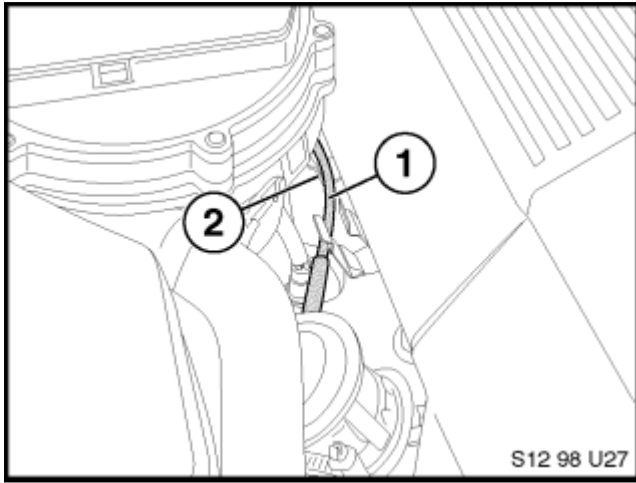
- Reinsert the plastic tube into the rubber hose if the hose is long enough. If the rubber hose is not long enough replace the hose and cut to the appropriate length to assure proper routing.

b. If the damage is on the rubber hose:

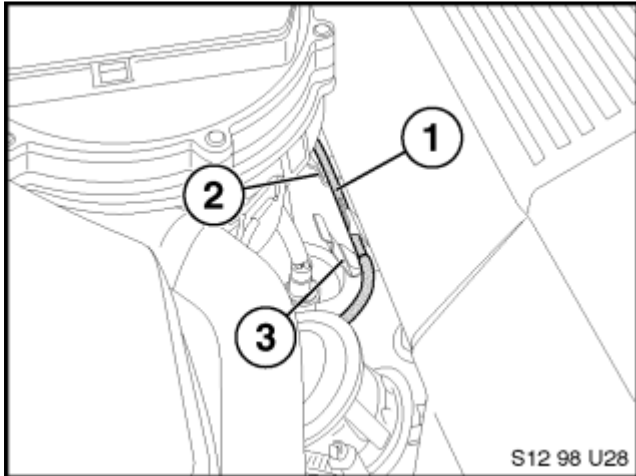
- Replace the rubber hose (2) and cut to the appropriate length to assure proper routing.

NOTE: If the faults listed above are set in the DME, the vacuum hose may be damaged. Clear fault

memory after completing the repair.

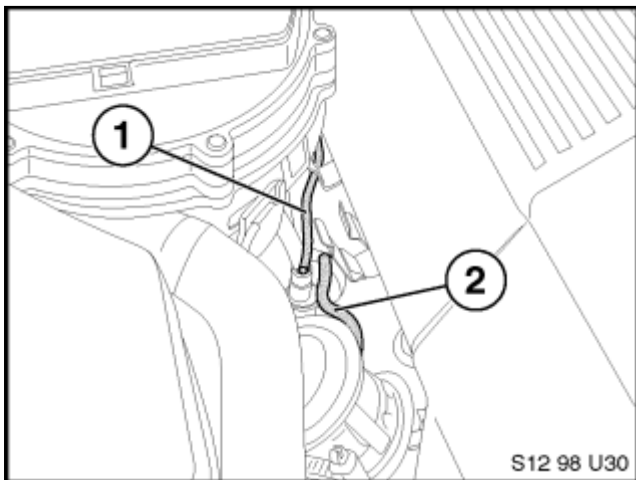


4. If the vacuum line is too long it must be rerouted. Make certain that the vacuum line (1) runs through the first holding clip (2).



5. If the vacuum line (1) is still a bit too long it can also be routed through the second holding clip (3) used to secure the oxygen sensor connector and wiring harness.

NOTE: The vacuum line needs to be routed underneath the oxygen sensor wiring harness.



6. If the vacuum line can not be properly routed the vacuum line will need to be shortened by cutting either the plastic tube (1) or the rubber hose (2) and then routing the hose through the first clip.

Parts Information:

The following part number will need to be obtained if it is determined that the vacuum hose is damaged.

Description

Part Number

Vacuum Hose

51 73 1 470 035

Note: P/N 51 73 1 470 035 is a 1 meter length of hose which can be cut and utilized for 4 vehicles.

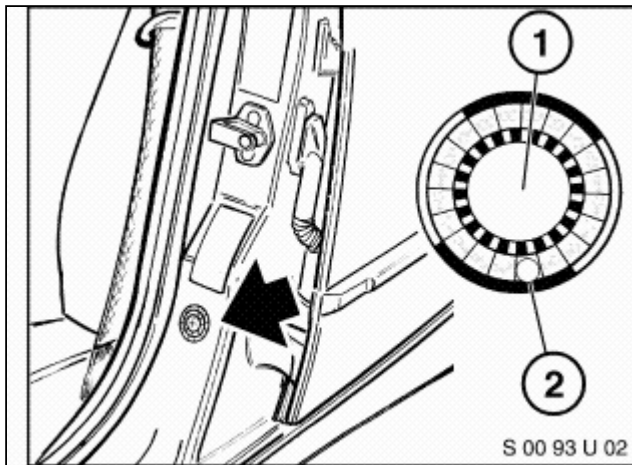
Service Action Label Instructions:

This Service Action has been assigned code number 227. After the vehicle has been checked, and corrected if necessary, obtain a label (SD 92-095) and:

a) emboss your BMW dealer warranty number in the middle of the label (1);

b) punch out code number **227** printed on the label and,

c) affix the label to the **B** pillar as shown:



If the vehicle already has a label from a previous Service Action/Recall Campaign, affix the new label next to the old one. Do not affix one label on top of another one because a number from an underlying label could appear in the punched-out hole of the new label.

Warranty Information:

Parts and labor will be reimbursable under the terms of the applicable BMW Emissions or New Vehicle Limited Warranty.

Defect Code: 00 11 30 01 00

Work Package #1 Check routing of vacuum hose and reroute if needed.

Models: E46 - 328i/iA

Labor Operation: 00 52 503

Labor Allowance: 3 FRU

Work Package #2 Check routing of vacuum hose, repair if damaged and clear fault memory.

Models: E46 - 328i/iA

Labor Operation: 00 52 503

Labor Allowance: 3 FRU

Labor Operation: 00 00 555

Labor Allowance: 1 FRU

Parts Allowance: 51 73 1 470 035 Qty. = 1/4

Sublet: \$1.00