

# VR65 ENGINE: AFFIX NEW VACUUM HOSE ROUTING LABEL

## Article Text

1993 Volkswagen Corrado

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Wednesday, March 22, 2000 09:26PM

## ARTICLE BEGINNING

EMISSION RECALL BULLETIN

VACUUM HOSE ROUTING LABEL REPLACEMENT - RECALL CODE SQ

Model(s): 1992-93 Volkswagen Corrado VR6  
Recall No.: SQ  
Date: July 6, 1993  
Number of Affected Vehicles: 4,300  
Beginning Date of Manufacture: August 1991  
Ending Date of Manufacture: November 1992

## DEFECT INFORMATION REPORT

1. Manufacturer: Volkswagen AG (VWAG)

Importer: Volkswagen of America, Inc. (VWoA)

2. Description of the Defect:

Volkswagen has found that affected Corrado VR6 vehicles were inadvertently equipped during assembly with a label containing emission specifications intended and applicable to Passat model VR6 vehicles. The diagram of the vacuum hose routing is incorrect as applied to the Corrado.

3. Class or Category of Vehicles Potentially Affected:

The affected vehicles are 1992 and early production model 1993 Volkswagen Corrado VR6 vehicles equipped with a VR6 engine, identified by the following engine families:

	1992	1993
	AAAAAA	AAAAAA
California and 49-State	NVW2.8V5FWE7	PVW2.8V5FWE9 PVW2.8V5FWE1

4.1. Number of Vehicles Estimated to Have the Defect:

According to Volkswagen's records, a total of approximately 3,625 49-states and 675 California equipped vehicles are affected. These vehicles were manufactured from August 1991 through November 1992 and are within the following vehicle identification number range:

WVW\_\_\_50\_NK000001 - WVW\_\_\_50\_PK005031

Other Description: Vehicles equipped with VR6 engines

4.2. Production Plants: Wilhelm Karmann GmbH  
Osnabrueck Plant

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Osnabrueck, Germany

### 5. Evaluation of Emissions and Driveability of the Defect:

Not Applicable.

### 6. Available Emissions Data:

Not Applicable.

### 7. Anticipated Follow-Up Action:

VWoA will recall all affected vehicles and instruct dealers to affix a new label in addition to performing safety recall work. The details of the safety recall have been reported to the NHTSA.

AA

## ATTACHMENT I

### RECALL CAMPAIGN BULLETIN - SQ

Date: July 1993

SECURE ENGINE COMPARTMENT ELECTRICAL WIRING AND AFFIX  
VACUUM HOSE ROUTING LABEL

### REPLACEMENT PARTS REQUIRED

AA

Repair Step	Quantity	Description	Part Number
A	1 (290 mm)	Protective Sleeve	N905 930.01
	1	Beading	535 853 879 A
	1	Tie Wrap	N020 906.3
	3	Tie Wrap	ZVW 601 100
B	2	Lock Nut	N902 920.01
C		No parts required	
D	1	Beading	701 947 149A
E	1	Clamp	535 253 139
F	1	ECM	095 927 731BD
G	1	Label	021 010 058G

AA

### General Repair Information

### REPAIR STEPS TO BE PERFORMED

AA

VIN Range	Repair Steps
From 50_NK 000 001 through 50_PK 002 707	A, B, C, D, E and G
From 50_PK 000 708 through 50_PK 003 049	A, B, C, D, and E

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[illegible]

## Repair Step A - Secure Cooling Fan Wiring Harness

## Repair Step C - Re-route Ignition Cables and Breather Hose

## Repair Step D - Secure Engine Compartment Harness

## Repair Step E - Secure Exhaust System

## Repair Step F - Replace Transmission Control Module (Automatic Transmission Only)

## Repair Step G - Replace Vacuum Hose Routing Label

### A. Secure Cooling Fan Wiring Harness

- 
- Diagram illustrating the cable harness for the 94C61376. The harness is shown with various dimensions and connections:
- Dimensions: 750 mm, 500 mm, 300 mm, 220 mm, 90 mm, 50 mm.
  - Connections: To Main Harness, To 3rd Speed Coolant Fan Thermo Switch, To Fan Motor, To Thermo Fan Switch.

Fig. 1: Protective Sleeve Measurements

- Place protective sleeves approx. 10mm from each branching off

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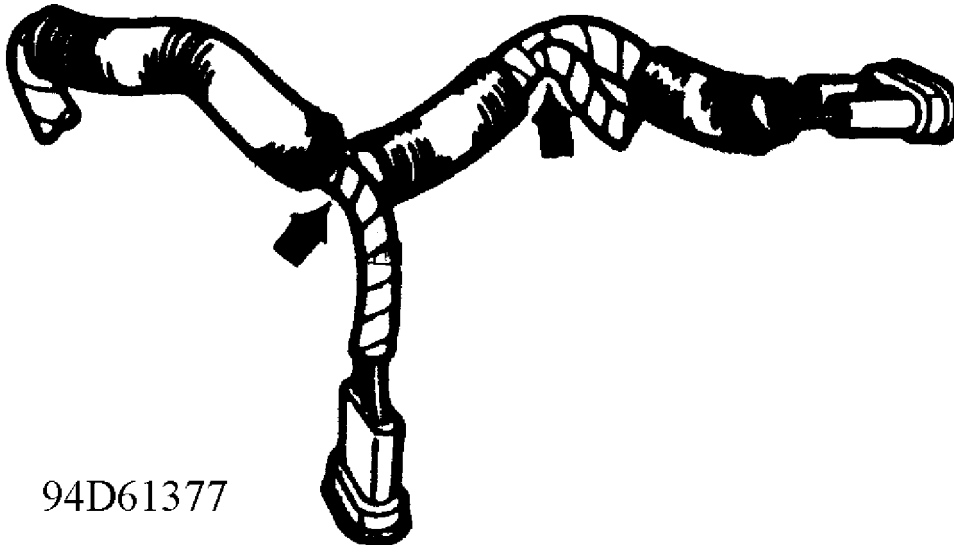
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of the harness wires (see Fig. 2, arrows).

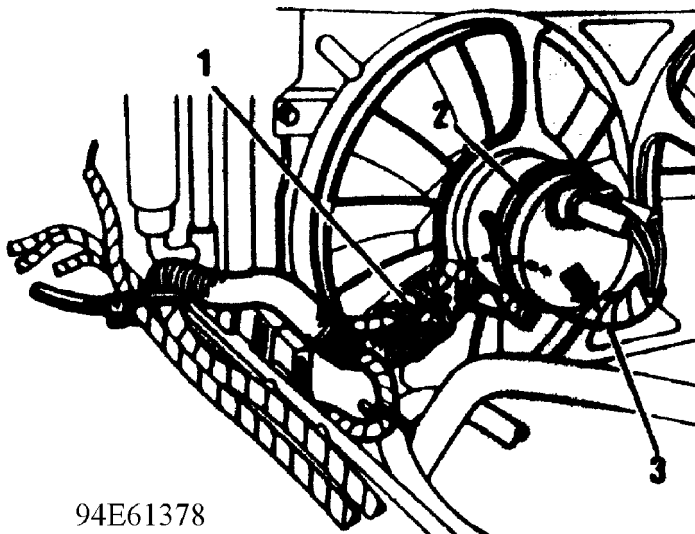
- Turn sleeves so that longitudinal cut does contact any engine or body part.
- Use electrical textile tape, part number ZVW 601 100 and secure protective sleeves by taping each end.



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Fig. 2: Placing Protective Sleeves on Harness Branches

- Install beading part number 535 853 879A to edge of fan cowl (see Fig. 3, marked "1").
- Re-connect harness to fan motor
- Use tie wrap, part number N020 906.3 and secure harness to fan motor (see Fig. 3, marked "2").
- Ensure that protective sleeve (see Fig. 3, marked "3") is routed past fan motor housing edge, see arrow in Fig. 3.



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Fig. 3: Installing Beading and Proper Protective Sleeve Routing

- Push protective sleeve of harness into cowl bracket (see

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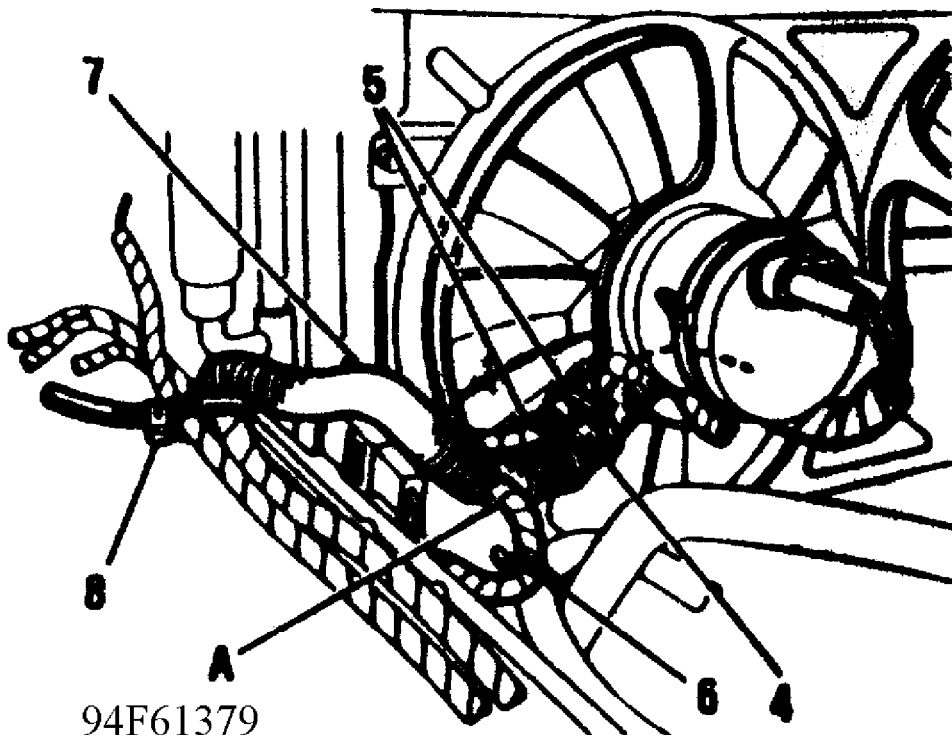
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Fig. 4, marked "4") and secure with two (2) tie wraps, part number N 020 902.2.

- Secure harness for temperature sensor (see Fig. 3, marked "A") to battery ground cable (as shown in Fig. 4, marked "6") with tie wrap, part number N 020 902.2.
- Push excess length harness downward.
- Carefully open re-usable tie wrap (see Fig. 4, marked "8")
- Route harness with protective sleeve (see Fig. 3, marked "7") towards front above temperature sensor and re-secure with re-usable tie wrap (see Fig. 4, marked "4").



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Fig. 4: Securing and Routing Harness

#### B. Modify Shaft Linkage Balance Weight Mounting (Standard Transmission Vehicles Only)

- Remove air cooling hose for the front exhaust pipe (see Fig. 5, marked "1") by loosening bolt (arrow), Pull hose from air duct (see Fig. 5, marked "2")

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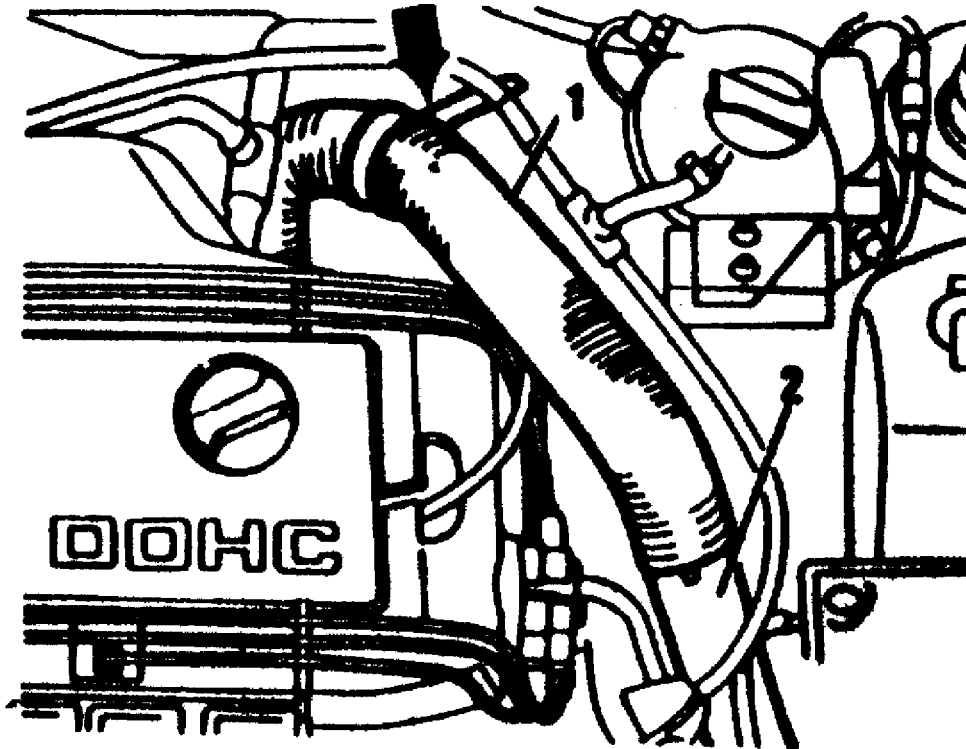
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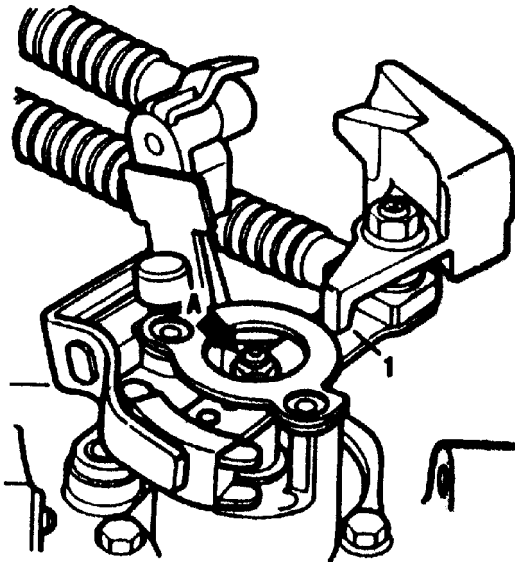
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Fig. 5: Removing Air Cooling Hose

- Remove back-up light switch.
- Replace nut (see Fig. 6, marked "A") for the gear box switch level (see Fig. 3, marked "1") with new self-locking nut, part number N 902 920.01; torque to 25 Nm (18 ft.lbs.)



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Fig. 6: Replacing Nut with Self-Locking Nut

- Remove nut (see Fig. 7, marked "B") for the balance weight

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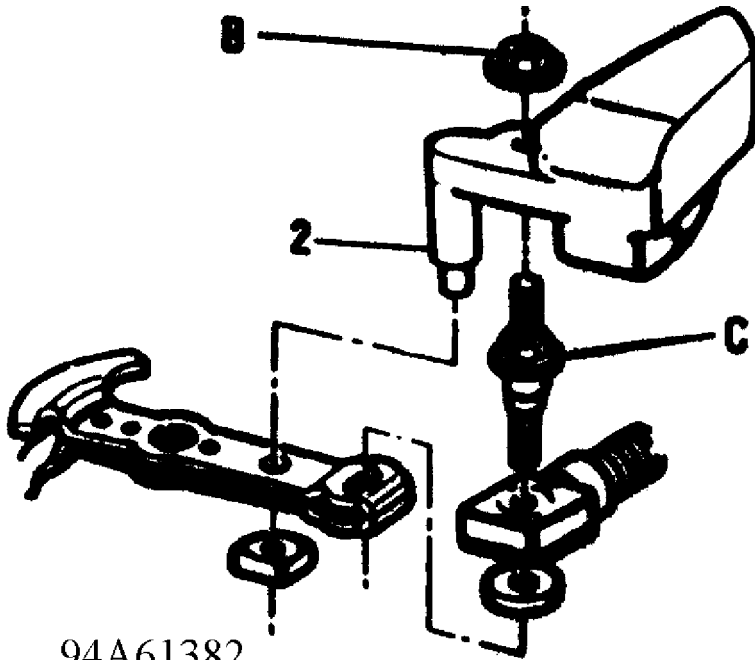
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mounting and remove balance weight (see Fig. 7, marked "2").

- Re-torque stud (see Fig. 7, marked "C") to 25 Nm (18 ft.lbs.)
- Re-install balance weight (see Fig. 7, marked "2") and secure with new self-locking nut, part number N 902 920.01; torque to 25 Nm (18 ft.lbs.)



94A61382

Fig. 7: Replacing Nut on Balance Wheel

#### C. Check/Re-Route Ignition Cable and Cylinder Head Breather Hose

- Check if ignition cable (see Fig. 8, marked "1") is clipped into retainer, if not, correct.

NOTE: White cable marking must be in retainer.

- Check if the tightening screw (see Fig. 8, marked "3") of the breather hose clamp does contact an ignition cable. If so, rotate clamp to avoid contact.
- Check proper installation of breather hose (see Fig. 8, arrow markings "4" and "5" must align; correct, if necessary).
- Ensure proper distance between breather hose and engine components (see Fig. 9, arrows), correct if necessary by slightly rotating breather hose.

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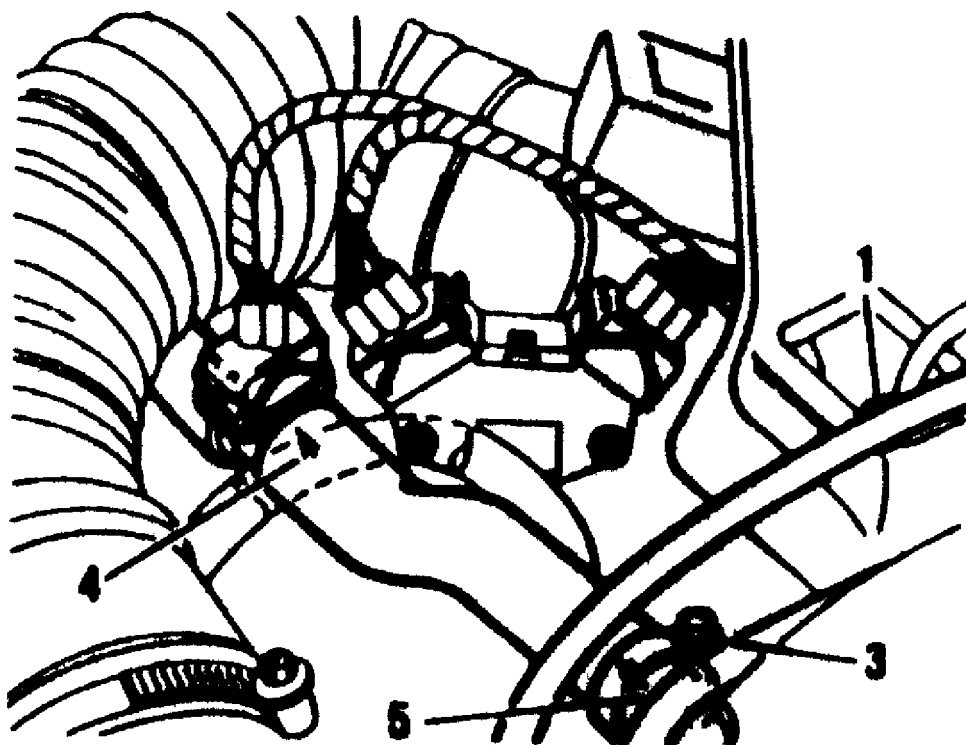
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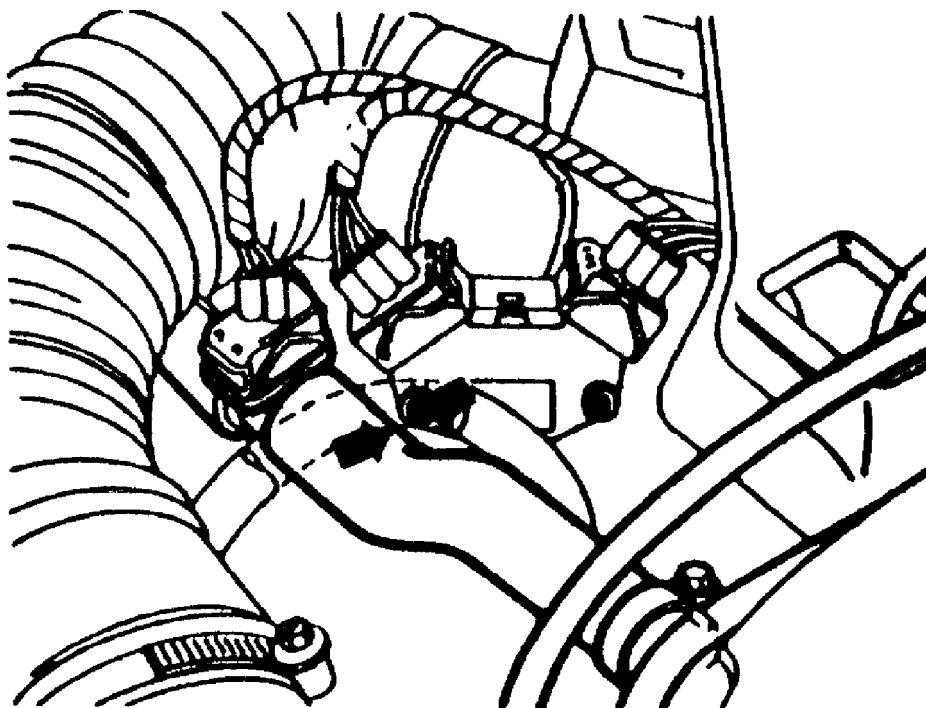
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Fig. 8: Proper Breather Hose Installation



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Fig. 9: Ensuring Proper Distance Between Breather Hose and Engine

D. Secure Engine Compartment Harness at Left Side Frame Member



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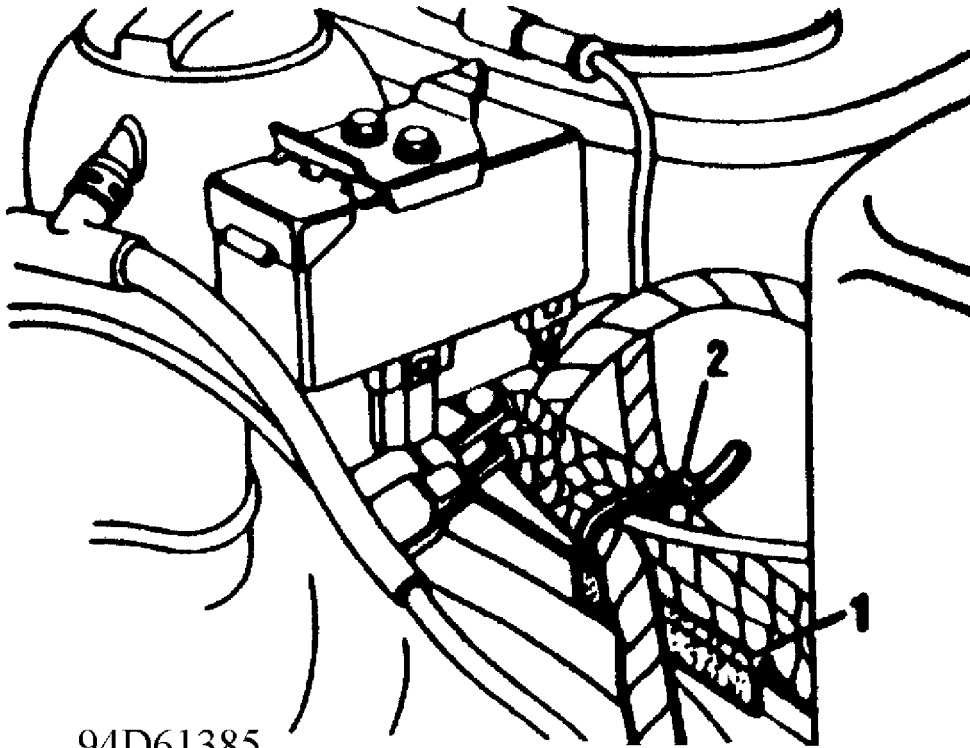
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- Open re-usable tie wrap (see Fig. 10, marked "2")
- Install beading, part number 701 947 149A over sheet metal edge (see Fig. 10, marked "1")
- Route harness over beading, re-secure with reusable tie wrap.
- Re-install battery.
- Remove power saver.



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Fig. 10: Securing Engine Compartment Harness

#### E. Check Rear Muffler Clamp

- Lift vehicle
- Check, by twisting center muffler (see Fig. 11), if the clamp connecting the catalyst and center muffler is tightly secured or shows traces of exhaust leak.
- If loose or evidence of exhaust leak, replace clamp (see Fig. 11, marked "1") with part number 535 253 139, torque to 60 Nm (44 ft. lbs.).
- Lower vehicle.

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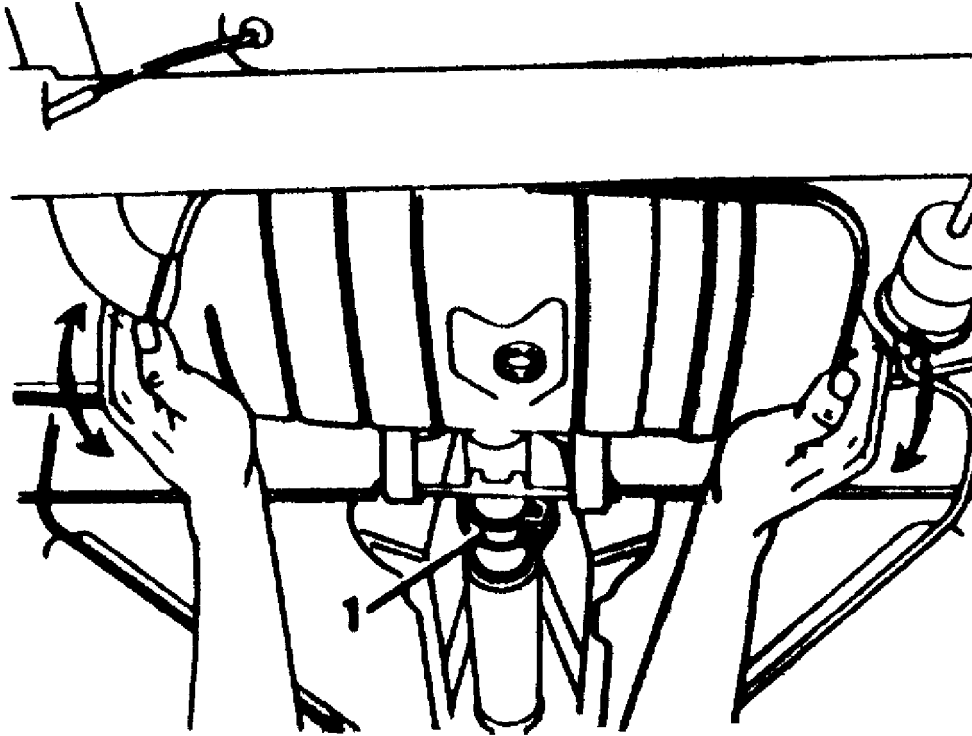
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Fig. 11: Checking Rear Muffler Clamp

F. Replace Transmission Control Module  
(Automatic Transmission Vehicles with VIN Range \_\_ NK\_00418  
through \_\_NK\_012142 only)

- Replace automatic transmission control module with part number 095 927 731 BD
- Check basic setting with Engine Scan Tool VAG 1551 as per Workshop Manual, Group 25.

G. Replace Vacuum Hose Routing Label

- Clean existing label under engine hood.
- Remove protective backing from new label, part number 021 010 058G. See Fig. 12.
- Affix new label over existing label.

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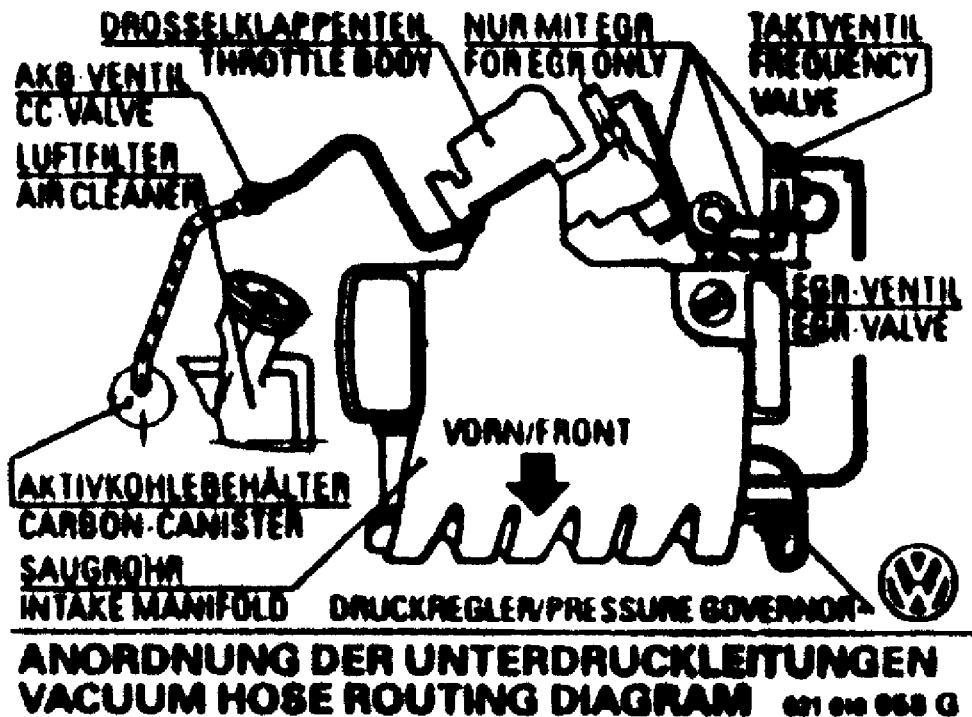
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Fig. 12: Vacuum Hose Routing Label

## CAMPAIGN DATA ENTRY PROCEDURE

### REIMBURSEMENT CODES

	3	SQ	3	SQ	3	SQ	3	SQ	3	SQ	3	SQ
Work Scope	3	12	3	13	3	14	3	15	3	16	3	17
Repair Step A: Secure Cooling Fan Harness	3	x	3	x	3	x	3	x	3	x	3	x
Repair Step B: Modify Balance Weight Mounting	3	x	3	x	3		3		3		3	
Repair Step C: Route Ignition Cables/Breather Hose	3	x	3	x	3	x	3	x	3	x	3	x
Repair Step D: Route Engine Compartment Harness	3	x	3	x	3	x	3	x	3	x	3	x
Repair Step E: Secure Exhaust System	3		3		3		3		3		3	
- Check	3	x	3		3	x	3		3	x	3	
- Correct	3		3	x	3		3	x	3		3	x
Repair Step F: Replace Transmission Control Module (VIN NK004148- NK012142 Only)	3		3		3		3		3	x	3	x

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Repair Step G: Affix Vacuum Hose	3	x	3	x	3	x	3	x	3	x	3	x						
Routing Label	3		3		3		3		3		3							
Total T.U.																		
	3		155	3		165	3		115	3		125	3		165	3		175

NOTE: The system automatically supplies the part numbers including price and labor applicable to the above reimbursement codes.

To update a record for a vehicle with no repair performed but relevant information available, please enter into the system one of the codes indicated below as applicable:

3	SQ 20	Customer Refused Repairs	3
3			3
3	SQ 30	Total Loss	3
3			3
3	SQ 40	Vehicle Stolen	3
3			3
3	SQ 50	Vehicle Left Continental U.S.	3
3			3
3	SQ 60	Customer Moved - No Forwarding Address	3
3			3
3	SQ 70	Vehicle Sold - New Owner Unknown	3
3			3

ATTACHMENT III

### OWNER NOTIFICATION LETTER

Subject: Recall Campaign SQ  
Secure Enging Compartment Electrical Wiring  
and Affix Vacuum Hose Routing Label

Dear Volkswagen Corrado Owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act. Volkswagen has determined that a defect which relates to motor vehicle safety exists in some 1992/93 model Volkswagen Corrado vehicles equipped with VR6 engine. Our records show that your car is one of the vehicles affected by this recall.

#### Description of Defect

Volkswagen has found that an electrical wiring harness located in the engine compartment may have been routed too close to a sheet metal edge during assembly. If this happened in your car, the wiring could be damaged due to chafing during normal operation of the vehicle.

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Prolonged chaffing could result in an electrical short causing either the engine to stall or the radiator fan to stop operating which could cause overheating of the engine. Either condition could cause overheating of the engine of the engine. Either condition could cause an accident.

Additionally, an incorrect vacuum hose routing label was inadvertently affixed in the engine compartment of your vehicle.

#### Remedy

Your Volkswagen retailer will re-route and secure the affected wiring harness in the engine compartment with a new vacuum hose routing label.

#### Your Action

We ask that you contact the Service Department of your authorized Volkswagen retail facility to schedule an appointment as soon as possible. Please present the enclosed Campaign authorization form when you arrive. The required work will take approximately two hours and will, of course, be free of charge. Necessary instructions and parts are available at Volkswagen retail facilities.

#### Precaution

Prior to having your vehicle repaired, please observe the water temperature warning light located on the instrument panel. Should the temperature warning light activate while driving the vehicle, contact your nearest authorized Volkswagen retail facility immediately.

#### Service Problem Help

If your Volkswagen retailer fails or is unable to remedy the defect free of charge within a reasonable time, please call or write to:

Volkswagen of America, Inc.  
Att'n.: Customer Relations - 2F02  
3800 Hamlin Road  
Auburn Hill, MI 48326  
Toll-free Telephone: 1-800-822-8987

If you still cannot obtain satisfaction, you may file a complaint with: Administrator, National Highway Traffic Safety Administration, U.S. Department of Transportation, 400 Seventh St. SW, Washington D.C. 20590. Telephone: 1 (800) 424-9393 (Washington, DC area: (366-0123)).

We regret any inconvenience this matter may cause; however, as part of our commitment to maintain your safety and satisfaction with our product, we want to make sure that your Corrado is repaired as soon as possible.

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Thank you for driving a Volkswagen product.

Sincerely

Folker G. Rieflin

Product Compliance Manager

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**END OF ARTICLE**