

IMPORTANT INFORMATION

Please inform and provide a copy of this document to every person in your dealership with campaign-related responsibilities, including Service, Parts and Accounting personnel. By law, dealers must correct, prior to delivery for sale or lease, any vehicle that fails to comply with an applicable Federal Motor Vehicle Safety Standard or that contains a defect relating to motor vehicle safety. If you have questions regarding this or any other campaign, please contact Warranty



Audi

Safety Recall

Code: KU00

Subject: 1997-1999 Model Year Audi A4 Vehicles Equipped with 1.8T Engine and Automatic Transmission, 2.8L V6 Engine and Standard/Automatic Transmission, and 1998-1999 Model Year Audi A6 Vehicles Equipped with 2.8L V6 Engine and Automatic Transmission Vehicles
Install Vacuum By-pass Kit

REVISION

July 26, 2012

Revision Summary:

Parts list and work procedure updated.

Problem Description

Audi has found that at ambient temperatures of below -4°F under certain driving conditions a control valve in the brake booster vacuum system may not fully open. Should this happen, it could result in insufficient vacuum being provided to the brake power assist unit. Although the problem does not occur at temperatures above -4°F, we recommend that the recall work be performed also on vehicles which are not regularly operated in the colder regions of the country. See customer letters attached in this circular for additional information.

Corrective Action

Install a brake power assist unit vacuum by-pass kit.

VIN Ranges & Production Dates

NOTE:

- *ElsaWeb is the only valid campaign inquiry/verification source. Check ElsaWeb on the day the campaign work will be performed to verify vehicle eligibility for the repair in order to receive claim payment consideration. Campaign status must show "open".*
- *If this repair appears to have already been performed on the vehicle but the code still shows open in ElsaWeb, contact Warranty before proceeding further. Another dealer may have recently performed this repair but not yet entered a claim for it in the system.*
- *ElsaWeb may also show additional open action(s); if so, inform your customer - this work can be done while the vehicle is in for this campaign.*
- *Contact Warranty if you have any questions.*

U.S.A. and CANADA

1997-99 1.8T A4 Automatic

WAW ___ 8D _ VA000192 - WAW ___ 8D _ XA214064

1997-99 2.8L A4 V6 Automatic

WAW ___ 8D _ VA226919 - WAW ___ 8D _ XA200109

1997-99 2.8L A4 V6 Standard

WAW ___ 8D _ VA227050 - WAW ___ 8D _ XA086572

1998-99 2.8L A6 V6 Automatic

WAW ___ 4B _ WN028644 - WAW ___ 4B _ XN065033

NOTE: The VIN range is a general range of vehicles that may be included in the Campaign. Not every vehicle within the VIN range may be included since it may depend on the production date, transmission or engine build date. Always verify ElsaWeb for campaign eligibility on a vehicle.

Allocation Report of Affected Vehicles

By separate mail, we furnished you (2) separate computer lists containing information for vehicles of 1.8T and 2.8L V6 owners who may reside within your area of responsibility.

Parts Information and Allocation

Vacuum kits, 058 198 751, were shipped to your dealership. If you have exhausted your allocated parts for vehicles affected by this safety recall, but have exceeded your Upper Order Limit, please submit your requests for additional material via email to upperorderlimits@audi.com. If you have questions regarding parts, please contact the Parts Helpline at 800-767-6552.

Owner Notification Mailing

In September 1999 Audi began customer notification to all known owners of affected vehicles. A sample copy of this letter is enclosed.

Important Reminder on Vehicles Affected by Safety and Compliance Recalls

By law, dealers must correct, prior to delivery for sale or lease, any vehicle that fails to comply with an applicable Federal Motor Vehicle Safety Standard or that contains a defect relating to motor vehicle safety.

Claim Entry Procedure

Immediately upon completion of the repair work, enter the Applicable Criteria ID and Repair Operation from the following chart. **The Applicable Criteria ID is shown in ElsaWeb.** Claims will only be paid for vehicles that show this campaign open in ElsaWeb on the day of the repair. To help ensure prompt and proper payment, attach the screen print to the repair order

Saga Claim Entry Procedure

Check ElsaWeb to determine whether the campaign is open.

Service No.: KU00

Damage Code: 0099

Parts Manufacturer

Removed part: Use vendor code **002**

Sold vehicle = 7 10

Unsold vehicle = 7 90

Accounting Instructions

A4 1.8T (Automatic)

Criteria ID Code: 01 Install vacuum bypass kit

Repair operation: 4770 19 99 60 TU

1	058 133 753 D	Suction Pump
1	058 133 784 S	Angled Hose
1	079 133 382 B	Adapter
1	079 133 784 J	Angled Hose
1	058 133 783 R	Angled Hose
1	058 905 291	Check Valve
3	N 102 582 01	Screw clamp
1	N 102 334 01	Crimp Clamp
1	N 020 902 2	Tie Wrap

A4/A6 2.8L V6 (Standard/automatic w/o throttle valve control module)

Criteria ID Code: 01 - Install vacuum bypass parts

Repair operation: 4770 19 99 195 TU

1	027 133 784 E	Hose
1	078 133 807	Hose
1	078 905 291 B	Valve
2	N 102 334 01	Clip
3	N 102 582 01	Clip
1	8D1 611 931 AR	Vacuum Pipe
1	N 102 018 01	Clamp

Continue to next page

A4 2.8L V6 (Standard with throttle valve control module)

Criteria ID Code: 01 - Install vacuum bypass kits

Repair operation: 4770 19 99 195 TU

- 1 078 133 063 AQ Throttle Body
- 1 078 121 188 F Heater Hose
- 1 078 121 188 G Heater Hose
- 1 N 906 867 01 Spring Clamp
- 1 027 133 784 E Angled Hose
- 1 078 133 807 Hose
- 1 078 905 291 B Check Valve
- 2 N 102 334 01 Pinch Clamp
- 3 N 102 582 01 Screw Clamp
- 1 8D1 611 931 AR Vacuum Pipe
- 1 N 102 018 01 Clamp

A4/A6 2.8L V6 (Automatic with throttle valve control module)

Criteria ID Code: 01 Install vacuum bypass kits

Repair operation: 4770 19 99 195 TU

- 1 078 133 063 AP Throttle Body
- 1 078 121 188 F Heater Hose
- 1 078 121 188 G Heater Hose
- 4 N 906 867 01 Spring Clamp
- 1 027 133 784 E Angled Hose
- 1 078 133 807 Hose
- 1 078 905 291 B Check Valve
- 2 N 102 334 01 Pinch Clamp
- 3 N 102 582 01 Screw Clamp
- 1 8D1 611 931 AR Vacuum Pipe
- 1 N 102 018 01 Clamp

There is NO reimbursement for Vehicle Wash or Loaner

If customer refused repairs

Fax the Repair Order to the warranty team at (248) 754-6533 (U.S) and (905) 428-4811 (CAN).
Provide the VIN, applicable Service Number, Customer information, Dealer number and date.

Customer Letter Example (United States and Canada)

September 1999

DRAFT (1) 2.8L

Cold Area Residents

**Subject: Recall Campaign KU
Install Brake Booster Vacuum By-pass Kit**

Dear Audi Owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

Audi has decided that a defect which relates to motor vehicle safety exists in some 1997/99 model Audi 2.8L 5 Valve V6 standard and automatic transmission vehicles. Our records show that your Audi is one of the vehicles affected by this voluntary safety recall action.

Defect Description

It is possible that the vacuum flow from the engine's intake manifold to the power brake system could be obstructed by freezing moisture in the manifold if the vehicle is operated continuously at outside temperatures of -4°F or below. If that happens, you will experience braking with diminished or no power assist when the brakes are applied.

Remedial Repair

Your authorized Audi dealer will install a vacuum by-pass which will allow full vacuum to be available for power assist under all weather conditions.

Repair Schedule

Parts including the necessary installation instructions will be available at authorized Audi dealers on or about October 15, 1999.

Anticipated Repair Time

The recall work will take approximately 2-3 hours. However, your dealer may need additional time to accommodate the daily workshop schedule. The work will, of course, be performed at no charge.

What You Need To Do

We have determined that you are residing in a geographical region of the country which could experience temperatures as low as -4°F or lower and recommend that you make an appointment with your dealer so that the recall may be completed as soon as possible after parts are available.

Please contact the Service Department of your authorized Audi dealer and schedule an appointment as soon as possible. Also, please present the enclosed form, which identifies your vehicle, to your dealer when you bring your Audi in for the service.

Precautions

If, prior to the time that the corrective work is performed, your brake pedal should feel "hard" upon braking, you will still be able to brake the vehicle by applying much greater force to the pedal. Also, contact your authorized dealer immediately.

Lease Vehicle

If the vehicle identified in this recall is a leased vehicle and you are the lessor and registered owner, please forward this information by first class mail to the lessee.

Service Problem Help

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

Audi of America, Inc.
Attn: Client Relations - 2F02 (KU)
3800 Hamlin Road
Auburn Hills, MI 48326-2855
Toll-free Telephone: (800) 822-2834

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 Street SW, Washington, DC 20590. Telephone: (800) 424-9393 (Washington, DC area: 366-0123).

We regret any inconvenience this matter may cause you; however, we want to make sure that your Audi is safe and operates to your satisfaction.

Thank you for driving an Audi.

Sincerely,

Andreas H. Steglich
Product Compliance Team Leader

The information in this document is intended for use only by skilled technicians who have the proper tools, equipment and training to correctly and safely maintain your vehicle. These procedures are not intended to be attempted by "do-it-yourselfers," and you should not assume this document applies to your vehicle, or that your vehicle has the condition described. To determine whether this information applies, contact an authorized Audi dealer. ©2012 Audi of America LLC and Audi Canada. All Rights Reserved.

Customer Letter Example (United States and Canada)

September 1999

DRAFT (1) 1.8T

Cold Area Residents

**Subject: Recall Campaign KU
Install Brake Booster Vacuum By-pass Kit**

Dear Audi Owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

Audi has decided that a defect which relates to motor vehicle safety exists in some 1997/99 model Audi A4 1.8T automatic transmission vehicles. Our records show that your Audi is one of the vehicles affected by this voluntary safety recall action.

Defect Description

It is possible that the vacuum flow from the engine's intake manifold to the power brake system could be obstructed by freezing moisture in the manifold if the vehicle is operated continuously at outside temperatures of -4°F or below. If that happens, you will experience braking with diminished or no power assist when the brakes are applied.

Remedial Repair

Your authorized Audi dealer will install a vacuum by-pass which will allow full vacuum to be available for power assist under all weather conditions.

Repair Schedule

Parts including the necessary installation instructions are already available at authorized Audi dealers.

Anticipated Repair Time

The recall work will take approximately one hour. However, your dealer may need additional time to accommodate the daily workshop schedule. The work will, of course, be performed at no charge.

What You Need To Do

We have determined that you are residing in a geographical region of the country which could experience temperatures as low as -4°F or lower and recommend that you make an appointment with your dealer so that the recall may be completed as soon as possible.

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Customer Letter Example (United States and Canada)

September 1999

DRAFT (2) 2.8L

Warm Area Residents

**Subject: Recall Campaign KU
Install Brake Booster Vacuum By-pass Kit**

Dear Audi Owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

Audi has decided that a defect which relates to motor vehicle safety exists in some 1997/99 model Audi 2.8L 5 Valve V6 standard and automatic transmission vehicles. Our records show that your Audi is one of the vehicles affected by this voluntary safety recall action.

Defect Description

It is possible that the vacuum flow from the engine's intake manifold to the power brake system could be obstructed by freezing moisture in the manifold if the vehicle is operated continuously at outside temperatures of -4°F or below. If that happens, you will experience braking with diminished or no power assist when the brakes are applied.

What You Need To Do

We have determined that you are not residing in a region of the country which will ever experience temperatures as low as -4°F or lower in major population centers. The defect is therefore not likely to cause a safety problem for you, so there is no need for you to respond to this notice immediately.

However, we recommend that you have the recall completed if you should decide to move to, sell your vehicle to a resident in or plan to drive your vehicle in the states of Alaska, Colorado, Connecticut, Idaho, Illinois, Iowa, Maine, Massachusetts, Michigan, Minnesota, Montana, Nebraska, Nevada, New Hampshire, New York, North Dakota, Oregon, South Dakota, Vermont, Washington, Wisconsin or Wyoming. In that case, please make an appointment with your nearest Audi dealer.

Remedial Repair

Your authorized Audi dealer will install a vacuum by-pass which will allow full vacuum to be available for power assist under all weather conditions.

Repair Schedule

Parts including the necessary installation instructions will be available at authorized Audi dealers on or about October 15, 1999.

The recall work will take approximately 2-3 hours. However, your dealer may need additional time to accommodate the daily workshop schedule. The work will, of course, be performed at no charge.

Precautions

If, prior to the time that the corrective work is performed, your brake pedal should feel "hard" upon braking, you will still be able to brake the vehicle by applying much greater force to the pedal. Also, contact your authorized dealer immediately.

Lease Vehicle

If the vehicle identified in this recall is a leased vehicle and you are the lessor and registered owner, please forward this information by first class mail to the lessee.

Service Problem Help

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Customer Letter Example (United States and Canada)

September 1999

DRAFT (2) 1.8T

Warm Area Residents

**Subject: Recall Campaign KU
Install Brake Booster Vacuum By-pass Kit**

Dear Audi Owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act. Audi has decided that a defect which relates to motor vehicle safety exists in some 1997/99 model Audi A4 1.8T automatic transmission vehicles. Our records show that your Audi vehicle is one of the vehicles affected by this voluntary safety recall action.

Defect Description

It is possible that the vacuum flow from the engine's intake manifold to the power brake system could be obstructed by freezing moisture in the manifold if the vehicle is operated continuously at outside temperatures of -4°F or below. If that happens, you will experience braking with diminished or no power assist when the brakes are applied.

What You Need To Do

We have determined that you are not residing in a region of the country which will ever experience temperatures as low as -4°F or lower in major population centers. The defect is therefore not likely to cause a safety problem for you, so there is no need for you to respond to this notice immediately.

However, we recommend that you have the recall completed if you should decide to move to, sell your vehicle to a resident in or plan to drive your vehicle in the states of Alaska, Colorado, Connecticut, Idaho, Illinois, Iowa, Maine, Massachusetts, Michigan, Minnesota, Montana, Nebraska, Nevada, New Hampshire, New York, North Dakota, Oregon, South Dakota, Vermont, Washington, Wisconsin or Wyoming. In that case, please make an appointment with your nearest Audi dealer.

Remedial Repair

Your authorized Audi dealer will install a vacuum by-pass which will allow full vacuum to be available for power assist under all weather conditions.

Repair Schedule

Parts including the necessary installation instructions are already available at authorized Audi dealers.

Anticipated Repair Time

The recall work will take approximately one hour. However, your dealer may need additional time to accommodate the daily workshop schedule. The work will, of course, be performed at no charge.

Precautions

If, prior to the time that the corrective work is performed, your brake pedal should feel "hard" upon braking, you will still be able to brake the vehicle by applying much greater force to the pedal. Also, contact your authorized dealer immediately.

Lease Vehicle

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If there are questions regarding the work procedure:

- U.S. dealers, contact Warranty
- Canadian dealers, open an ATA ticket using concern group Compliance/Recall Assistance

Required Parts:**A4, 1.8T (Automatic)**

<u>Quantity</u>	<u>Part Number</u>	<u>Part Description</u>
1	058 133 753 D	Suction Pump
1	058 133 784 S	Angled Hose
1	079 133 382 B	Adapter
1	079 133 784 J	Angled Hose
1	058 133 783 R	Angled Hose
1	058 905 291	Check Valve
3	N 102 582 01	Screw clamp
1	N 102 334 01	Crimp Clamp
1	N 020 902 2	Tie Wrap

A4/A6 2.8L V6 (Standart/automatic w/o throttle valve control module)

1	027 133784 E	Hose
1	078 133 807	Hose
1	078 905 291 B	Valve
2	N 102 334 01	Clip
3	N 102 582 01	Clip
1	8D1 611 931 AR	Vacuum Pipe
1	N 102 018 01	Clamp

A4 2.8L V6 (Standart with throttle valve control module)

1	078 133 063 AQ	Throttle Body
1	078 121 188 F	Heater Hose
1	078 121 188 G	Heater Hose
1	N 906 867 01	Spring Clamp
1	027 133 784 E	Angled Hose
1	078 133 807	Hose
1	078 905 291 B	Check Valve
2	N 102 582 01	Pinch Clamp
3	N 102 582 01	Screw Clamp
1	8D1 611 931 AR	Vacuum Pipe
1	N 102 018 01	Clamp

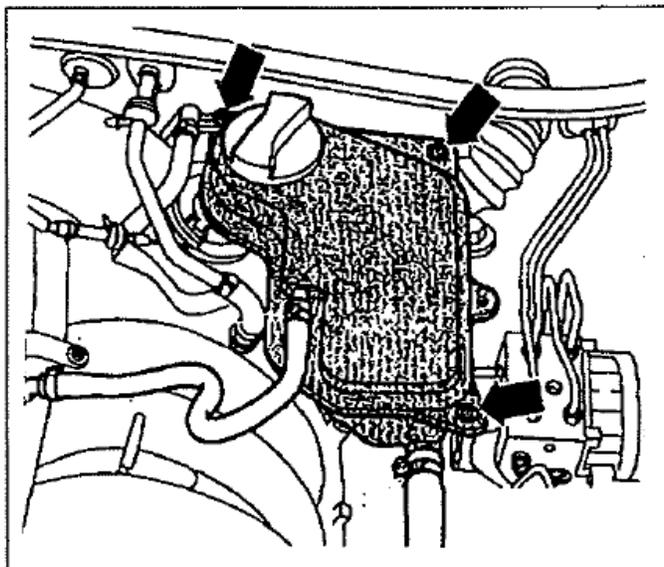
A4 2.8L V6 (Standart with throttle valve control module)

1	078 133 063 AP	Throttle Body
1	078 121 188 F	Heater Hose
1	078 121 188 G	Heater Hose
4	N 906 867 01	Spring Clamp
1	027 133 784 E	Angled Hose
1	078 133 807	Hose
1	078 905 291 B	Check Valve
2	N 102 334 01	Pinch Clamp
3	N 102 582 01	Screw Clamp
1	8D1 611 931 AR	Vacuum Pipe
1	N 102 018 01	Clamp

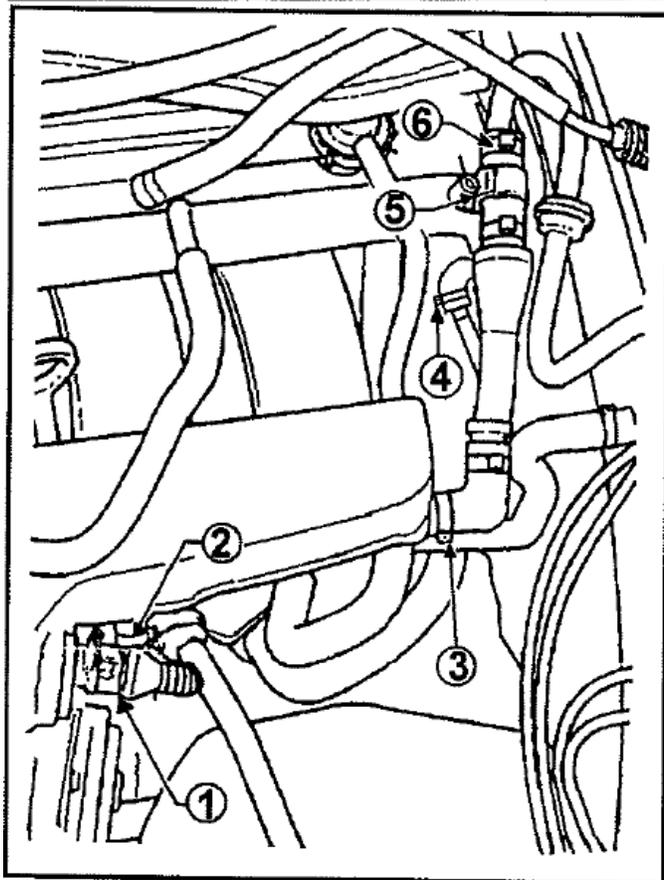
Work Procedure:

Section A – A4 1.8T

Removal of Vacuum Components

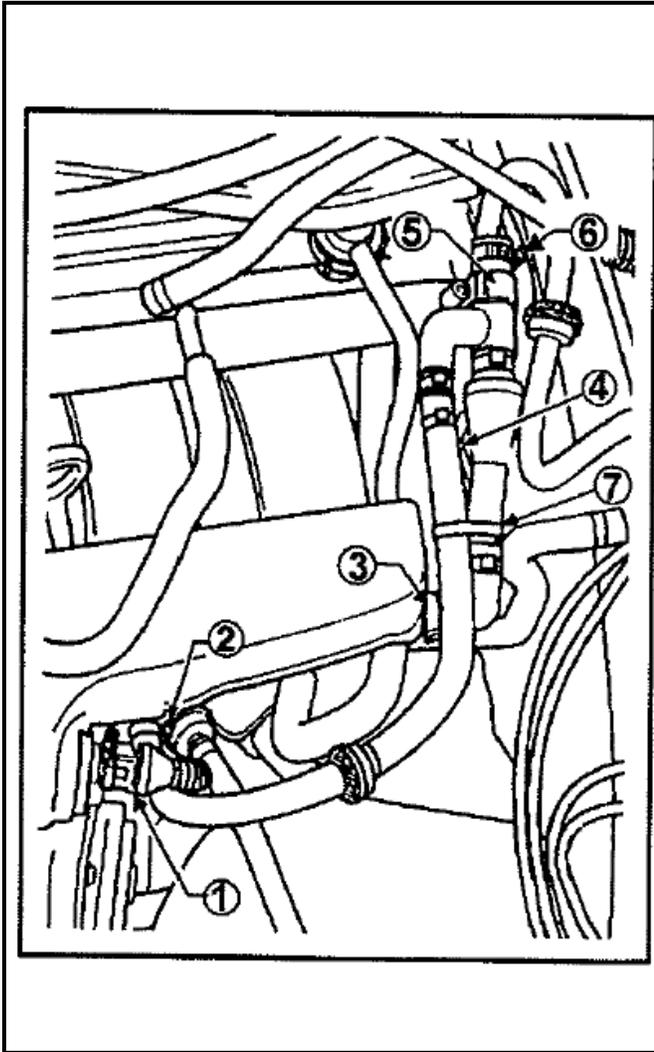


- Turn ignition to off position and open hood.
- ⇐ Remove three Phillips head screws securing coolant reservoir <arrows>.
- Disconnect coolant level display connector from the bottom of the coolant reservoir, and move coolant reservoir aside.

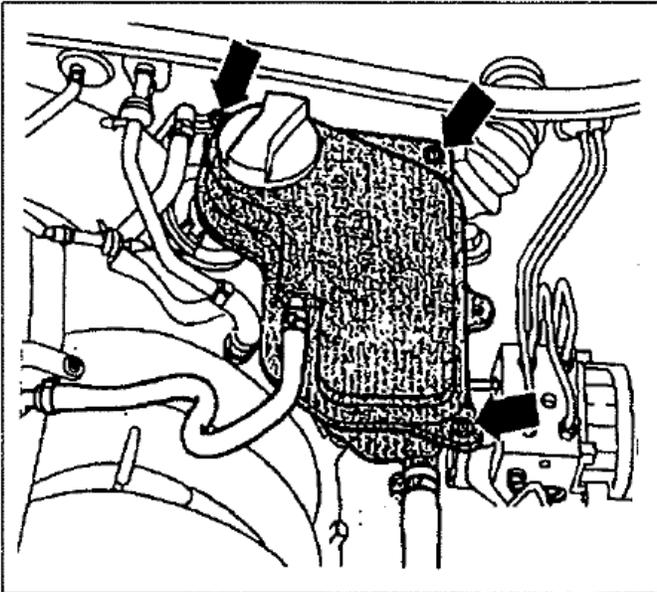


- ⇐ Disconnect air temperature sensor connector <1>.
- ⇐ Remove clamp <2> from cap of side intake manifold port, and remove cap.
- ⇐ Unhook plastic clamp <5> holding hose.
- ⇐ Remove clamp <3> from elbow, and disconnect elbow from rear intake manifold port.
- ⇐ Remove clamp <6>, and disconnect vacuum unit tube.
- ⇐ Remove clamp <4> from crankcase ventilation hose.
- ⇐ Disconnect crankcase hose from vacuum unit and remove vacuum unit with hoses.
- Dispose of removed vacuum unit with hoses and clamps.

Installation of Brake Power Assist Unit Vacuum By-Pass

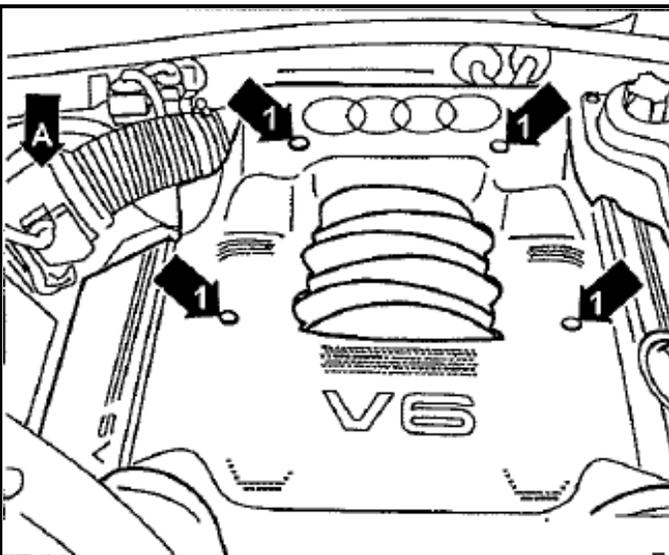


- ⇐ Slide new screw clamp over crankcase hose <4>, connect hose to vacuum unit, and set clamp position.
- ⇐ Slide new screw clamp over vacuum unit tube; insert tube approximately 25mm (1 inch) into rubber hose <6>, and set clamp position.
- ⇐ Slide new screw clamp over elbow <3>, connect elbow to rear intake manifold port and set clamp position.
- ⇐ Slide new screw clamp over hose; connect hose to side intake manifold port <2> and set clamp position.
- ⇐ Slide plastic clamp <5> over hose and close clamp.
- Check position of all hoses (must be free of tension and not contacting engine parts) and tighten all clamps making certain the clamp edges do not contact other hoses.
- ⇐ Use tie wrap <7> and secure two hoses together.
- ⇐ Reconnect air temperature sensor <1>.

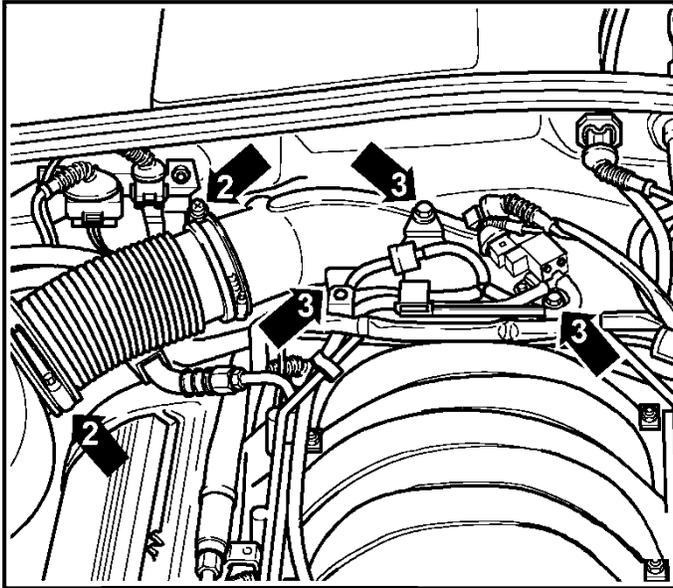


- Reconnect coolant level display.
- ⇐ Reinstall coolant reservoir using 3 Phillips head screws <arrows>.
- Start engine and check for vacuum leaks.
- Close hood.

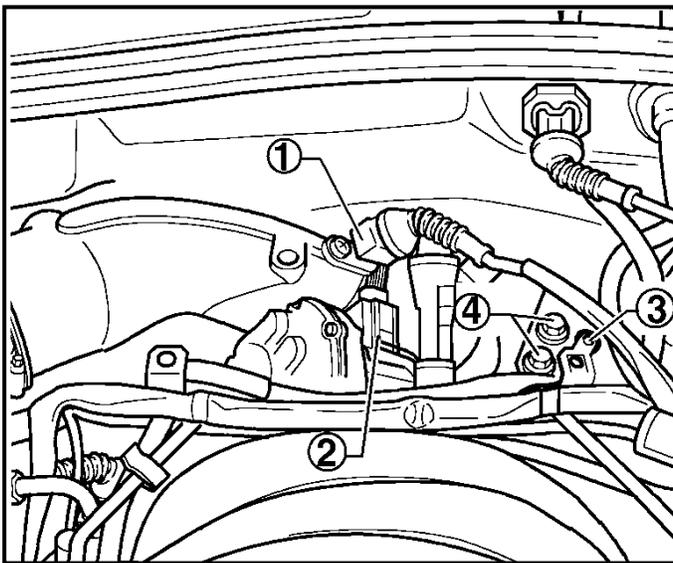
Section B – 2.8 Liter V6



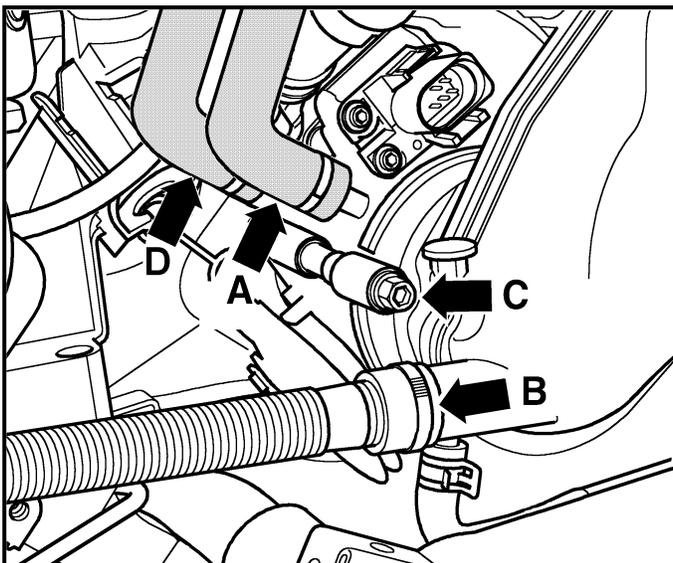
- Open hood.
- ⇐ Check material of Mass Air Sensor (MAS) <A>.
 - If the MAS is made of aluminum, close hood. **WORK COMPLETE.**
 - If the MAS is made of plastic, proceed as follows.
- ⇐ Turn screws <1> and remove engine cover.



- ⇐ Remove intake air hose between Mass Air Flow (MAF) sensor and air intake elbow by loosening clamps <2>.
- ⇐ Remove three bolts <3> securing solenoid plate assembly located rearward of the intake manifold.
- Disconnect vacuum hoses and electrical connectors (note location of vacuum hoses), as necessary.



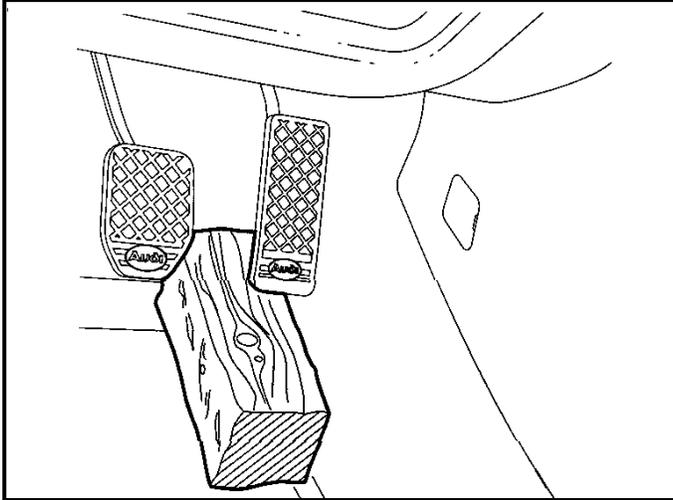
- ⇐ Unclip wiring support <3>.
- ⇐ Disconnect connector <1> for intake air temperature sensor.
- Move disconnected solenoid plate assembly to one side.
- ⇐ Disconnect connector <2> from throttle body.
- ⇐ Remove cruise control vacuum unit from support <4>.



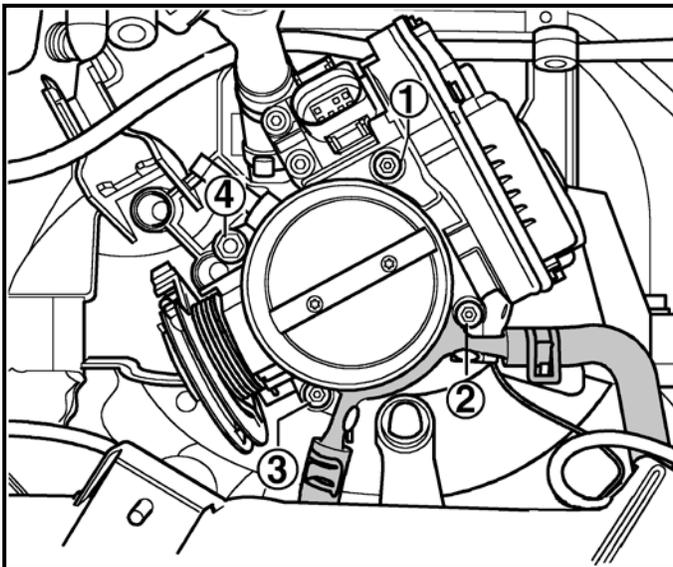
- ⇐ Remove cap screw <C> from air intake elbow and slide elbow rearward.
- ⇐ Disconnect crankcase ventilation hose from intake air elbow and remove elbow.
- ⇐ Disconnect vacuum hose <D> and evaporative emission (EVAP) canister purge regulator hose <A> from the throttle body.

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Removal of Throttle Valve Control Module



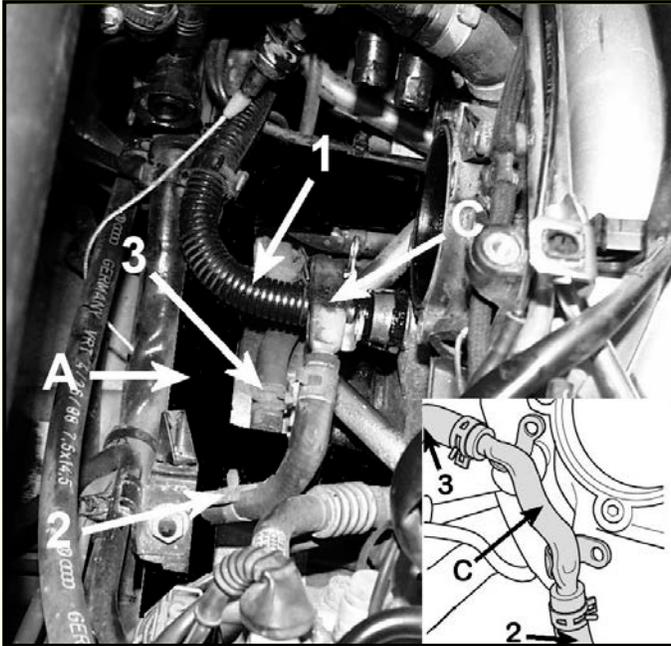
! Note: A support (90 mm or 3.5 inches) under the accelerator pedal will ease cable tension and aid in disassembly.



⇐ Remove throttle body from intake manifold by removing screws <1>, <2>, and <3> with a 5 mm hexagon socket and screw <4> with an 8 mm hexagon socket.

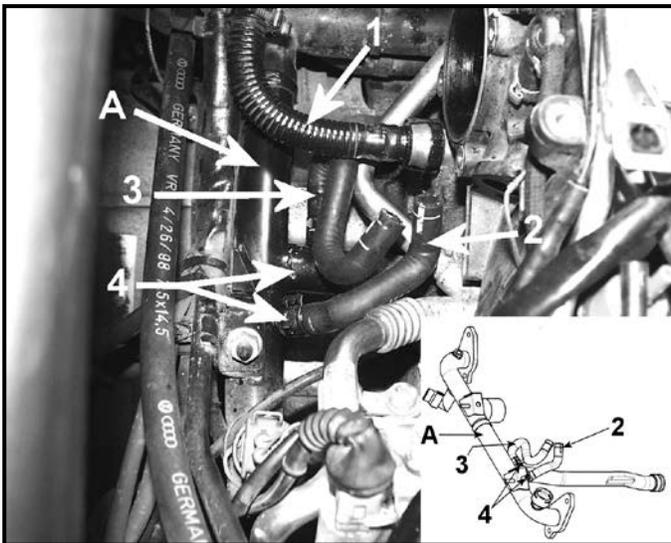
! Note: Screws <2> and <3> also secure throttle valve heating tube, and screw <2> also secures ground wire.

- Carefully disconnect throttle cable and cruise control linkage (do not remove accelerator pedal cable retainer from throttle body) and set aside.

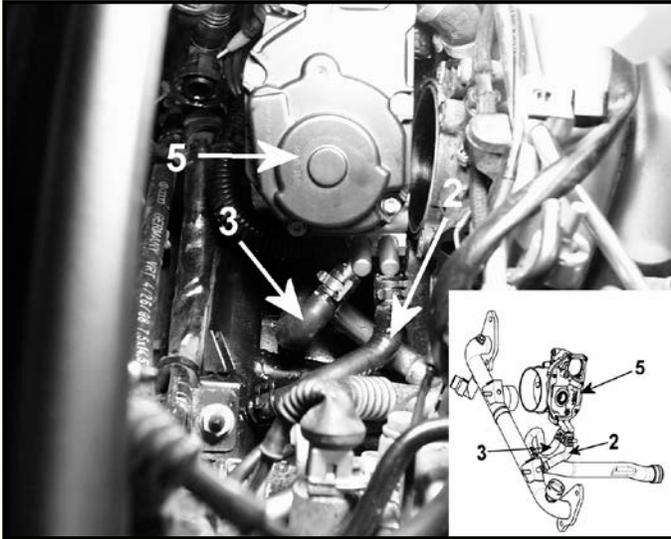


- ⇐ Carefully disconnect crankcase ventilation hose -1- from the engine block.
- ⇐ Using clamp pliers VAG 1921, remove clamps from heater hoses -2- and -3- connecting to metal water pipe -A-.
- ⇐ Remove heater hoses -2- and -3- and contoured pipe -C- from metal water pipe -A- .

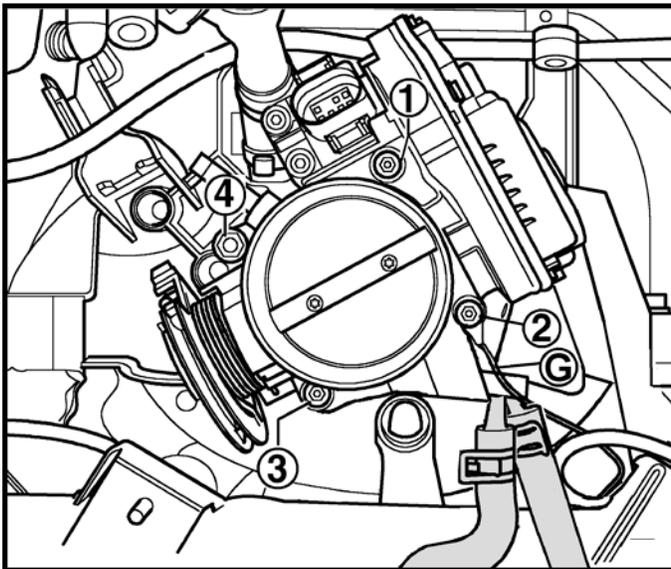
⚠ Note: The illustration is showing the rear side of the engine as viewed from the right side of the vehicle.



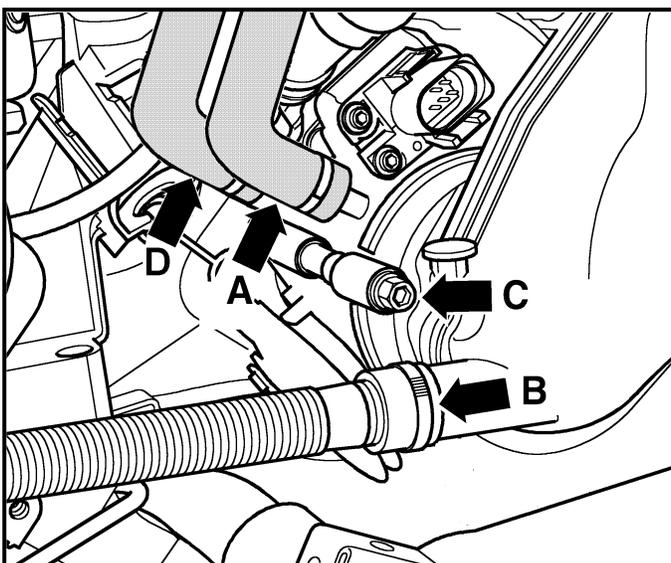
- ⇐ Connect new heater hose -3- (078 121 188 G) to metal water pipe -A- with marking facing vertically upward; secure with new clamp -4- (N 906 867 01).
- ⇐ Connect new heater hose -2- (078 121 188 F) to metal water pipe -A- with marking facing vertically upward; secure with new clamp -4- (N 906 867 01).
- ⇐ Carefully reconnect crankcase ventilation hose -1- to the engine block.



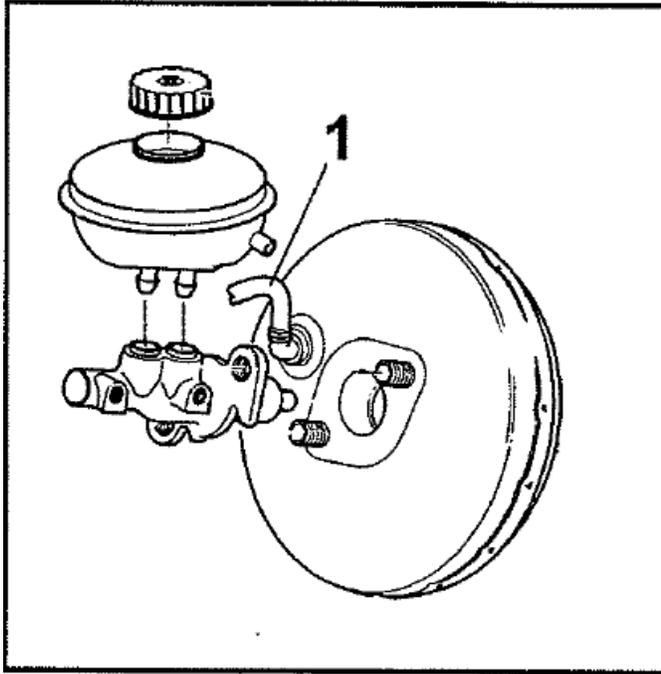
- ⇐ Connect other end of heater hose -3- to new throttle body -5- (078 133 063 AQ for manual transmissions or 078 133 063 AP for automatic transmission) and secure with new clamp (N 906 867 01).
- ⇐ Connect other end of heater hose -2- to new throttle body -5- and secure with new clamp (N 906 867 01).



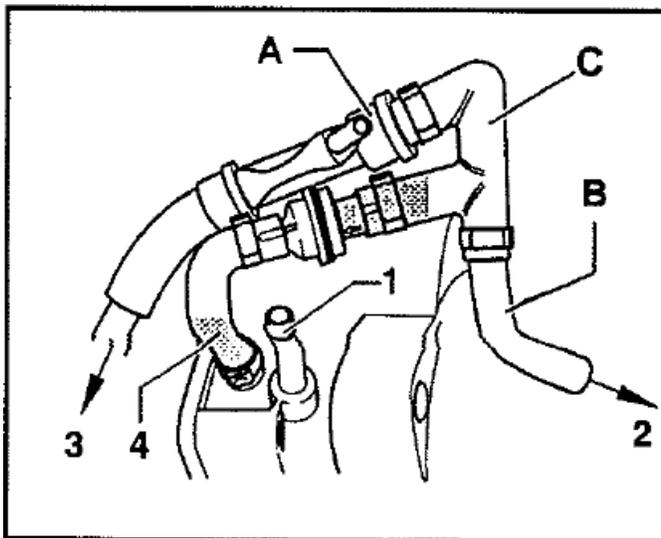
- ⇐ Reconnect throttle cable and cruise control linkage to throttle body.
- ⇐ Install throttle body onto intake manifold, secure with screws <1>, <3>, and <4> and tighten to 10 Nm (7 ft-lbs).
- ⇐ Install ground wire <G> with bolt <2> (securing the throttle body) and tighten to 10 Nm (7 ft-lbs).



- ⇐ Place air intake elbow in front of throttle body, reconnect crank case vent hose , slide elbow to correct position on throttle body, secure with cap screw <C>, and tighten to (10 Nm or 7 ft-lbs).
- ⇐ Reconnect vacuum hose <D> and evaporative emission (EVAP) canister purge regulator hose <A> to the throttle body and secure with clamps.



- ⇐ Remove the rubber elbow between the vacuum amplifier and the brake booster vacuum pipe.
- ⇐ Remove rubber seal and plenum panel cover.
- ⇐ Remove vacuum pipe <1> to brake booster.
- ⇐ Install new vacuum pipe 8D1 611 931 AR from brake booster to bypass hose.



- ⇐ Connect bypass hose <C> to vacuum amplifier <A> and secure using screw clamp.
- ⇐ Connect bypass hose <C> to vacuum pipe to brake booster and secure using new screw clamp N 102 018 01.
- ⇐ Vacuum ports:
 1. to EVAP valve
 2. to brake booster
 3. to intake manifold
 4. connection for bypass.

- Reconnect connector to throttle body.
- Reinstall solenoid plate with three screws.
- Reconnect previously disconnected vacuum lines.
- Reconnect connector for intake air temperature sensor.
- Reinstall cruise control vacuum unit and tighten bolt to 10 Nm (7 ft-lbs).
- Reinstall wiring support.

- Reinstall intake air hose between MAF sensor and air intake elbow, secure with clamps, and tighten to 10 Nm (7 ft-lbs).
- Remove 3094 clamp from coolant reservoir hose and 3093 clamp from radiator hose and fill coolant reservoir with a 50/50 mixture of G12 coolant.
- Remove support from under accelerator pedal.
- Set throttle adaptation using VAS 5051 or VAS 5052 diagnostic tool.
- Start engine and check for coolant leaks.
- If necessary, top off engine coolant.
- Reinstall plenum panel cover and seal.
- Reinstall engine sound dampening pan and engine cover.
- Close hood.
- Properly dispose of all removed parts.

WORK IS COMPLETE

Parts Return/Disposal

Properly destroy and dispose of removed parts in accordance with all state and local requirements, unless otherwise indicated and/or requested through SAGA.