

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 call (800) 741-2919.**



Product Update Circular

Code: N5

**Subject: 2004-2005 MY Touareg
Install Improved Air Filter Housing and
Inspect/Replace Battery Cable, if Necessary**

REVISED
December 2006

Revision Summary

Changed first picture in Section A, Page 9.

Product Update Description

Install improved air filter housing and inspect/replace battery cable, if necessary.

VIN Ranges of Affected Vehicles

2004-2005 Touareg (U.S.A.)

WVG__7L_4_000014 - WVG__7L_5_071813

2004-2005 Touareg (Canada)

WVG__7L_4_000029 - WVG__7L_5_071358

NOTE: Check ELSAWeb on the day of repair to verify vehicle eligibility and attach the screen print to the repair order. This is the only valid campaign inquiry and verification source. Some vehicles may be involved in an additional action(s); any additional work can be done while the vehicle is in for this action.

Allocation Report of Affected Vehicles

In the Service Manager's Package, dealers with affected vehicles will receive a report containing the complete VIN with customer name and address data. Dealers will not receive a report if they have no affected vehicles.

NOTE: The allocation report contains owner names and addresses obtained from Motor Vehicle Registration Records. By law, this data may only be used for recall purposes. Use for any other reason may be a violation of law in many states/provinces. Accordingly, you must limit the use of this report.

Parts Information and Allocation

On or about December 15, 2006 you will receive an initial allocation of parts. Do not order additional parts until you receive your initial allocation. Thereafter, additional parts can be ordered through your facing PDC.

Product Update Expiration Date

This action is effective until December 31, 2007. Dealers should keep this expiration date in mind and schedule vehicle repairs accordingly. Claims with a repair date after December 31, 2007 will not be eligible for payment under this action.

Claim Entry Procedure

Immediately upon completion of the repair work, enter the correct code listed in this chart. 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.

Damage Code	Time Units	Work Scope
N5 11	20 T.U.	- Check battery positive cable; new air cleaner not required
N5 12	70 T.U.	- Install new air cleaner housing 1 7L6 129 614 Air cleaner housing (USA) 1 7L6 129 653 Drain hose 1 N 906 869 01 Clamp
N5 13	70 T.U.	- Install new air cleaner housing 1 7L6 129 614A Air cleaner housing (CAN) 1 7L6 129 653 Drain hose 1 N 906 869 01 Clamp
N5 14	80 T.U.	- Check battery positive cable; install new air cleaner housing 1 7L6 129 614 Air cleaner housing (USA) 1 7L6 129 653 Drain hose 1 N 906 869 01 Clamp
N5 15	80 T.U.	- Check battery positive cable; install new air cleaner housing 1 7L6 129 614A Air cleaner housing (CAN) 1 7L6 129 653 Drain hose 1 N 906 869 01 Clamp
N5 16	325 T.U.	- Install new battery positive cable 1 7L0 971 228B Battery (B+) harness 3 N 902 002 01 Nut (Exhaust) 3 N 020 902 2 Tie Wrap 2 N 910 192 01 Bolt
		*DO NOT CLAIM, IF M9 WORK IS DONE
N5 17	325 T.U.	- Install new battery positive cable; install new air cleaner housing 1 7L0 971 228B Battery (B+) harness 3 N 902 002 01 Nut (Exhaust) 3 N 020 902 2 Tie Wrap 1 7L6 129 614 Air cleaner housing (USA) 1 7L6 129 653 Drain hose 1 N 906 869 01 Clamp 2 N 910 192 01 Bolt
		*DO NOT CLAIM, IF M9 WORK IS DONE
N5 18	325 T.U.	- Install new battery positive cable; install new air cleaner housing 1 7L0 971 228B Battery (B+) harness 3 N 902 002 01 Nut (Exhaust) 3 N 020 902 2 Tie Wrap 1 7L6 129 614A Air cleaner housing (CAN) 1 7L6 129 653 Drain hose 1 N 906 869 01 Clamp 2 N 910 192 01 Bolt
		*DO NOT CLAIM, IF M9 WORK IS DONE
N5 20	0 T.U.	- Customer refused repairs

**See Loaner Eligibility on following page
There is NO reimbursement for Vehicle Wash
The system will enter labor & parts applicable to the codes above**

***If M9 has been completed, see next page for reimbursement**

***Bolts (N 910 192 01) were replaced during M9 completion. Use this chart for N5 reimbursement that does not include payment for the bolts.**

Damage Code	Time Units	Work Scope
N5 1A	325 T.U.	- Install new battery positive cable 1 7L0 971 228B Battery (B+) harness 3 N 902 002 01 Nut (Exhaust) 3 N 020 902 2 Tie Wrap
N5 1B	325 T.U.	- Install new battery positive cable; install new air cleaner housing 1 7L0 971 228B Battery (B+) harness 3 N 902 002 01 Nut (Exhaust) 3 N 020 902 2 Tie Wrap 1 7L6 129 614 Air cleaner housing (USA) 1 7L6 129 653 Drain hose 1 N 906 869 01 Clamp
N5 1C	325 T.U.	- Install new battery positive cable; install new air cleaner housing 1 7L0 971 228B Battery (B+) harness 3 N 902 002 01 Nut (Exhaust) 3 N 020 902 2 Tie Wrap 1 7L6 129 614A Air cleaner housing (CAN) 1 7L6 129 653 Drain hose 1 N 906 869 01 Clamp
N5 20	0 T.U.	- Customer refused repairs

See Loaner Eligibility on following page
There is NO reimbursement for Vehicle Wash
The system will enter labor & parts applicable to the codes above

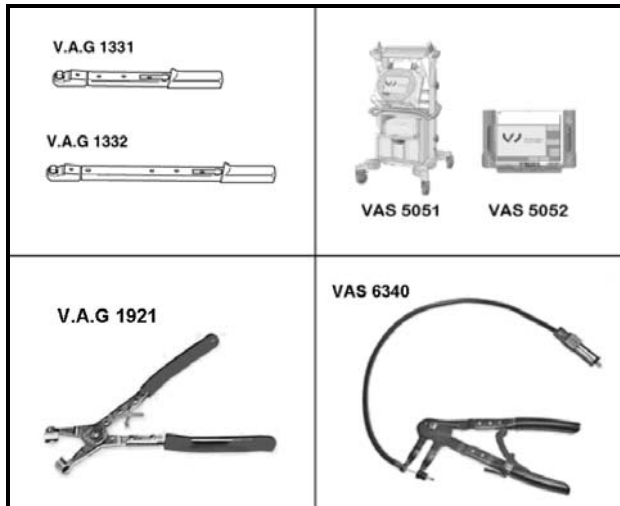
Loaner Eligibility
SUB LABOR
One-day Loaner @ \$30/day (USA)
One-day Loaner @ \$35/day (CAD)
<p>Vehicle is eligible for loaner <u>only</u> if:</p> <ul style="list-style-type: none"> • customer requests loaner and • repair exceeds two (2) hours and <p>If campaigns M9, N6, Q1, Q2, Q3, Q4,Q5 and/or Q6 are performed simultaneously with this N5 campaign, a loaner vehicle <u>can only be claimed on ONE campaign</u>. Multiple claims for a loaner vehicle will be debited.</p>

Overview: This work procedure describes possible replacement of the battery positive (B+) cable on vehicles with a V8 engine and replacement of air cleaner housing on vehicles with a V6 or V8 engine and having air suspension.

Parts:

<u>Criteria</u>	<u>Quantity</u>	<u>Part Number</u>	<u>Part Name</u>
5, 15	1	7L6 129 614	Air Cleaner Housing - Warm
6, 14	1	7L6 129 614 A	Air Cleaner Housing - Cold
5, 6, 14, 15	1	7L6 129 653	Water Drain Hose
5, 6, 14, 15	1	N 906 869 01	Spring Clamp
13, 14, 15	3	N 902 002 01	Nut (exhaust)
13, 14, 15	1	7L0 971 228 B	Battery (B+) harness
13, 14, 15	3	N 020 902 2	Tie Wrap
13, 14, 15	2	N 910 192 01	Bolt (seat)

Special Tools:



- ⇐ V.A.G 1331/32 Torque wrenches or equivalents
- ⇐ VAS 5051A/B or VAS 5052 diagnostic tester
- ⇐ V.A.G 1921 Spring clamp pliers or equivalent
- ⇐ VAS 6340 Spring clamp tool or equivalent
- 3409 Wedge tool

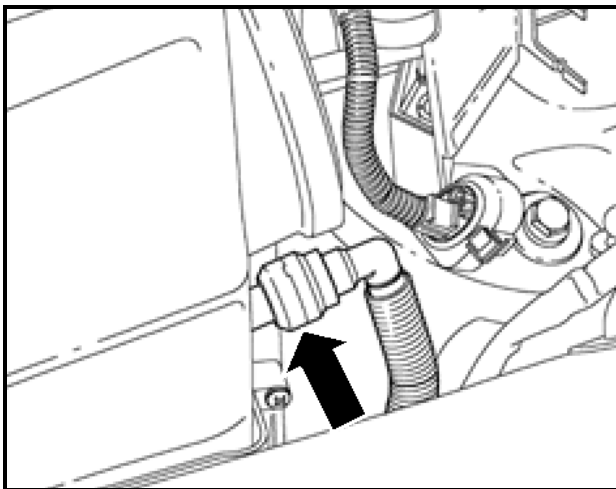
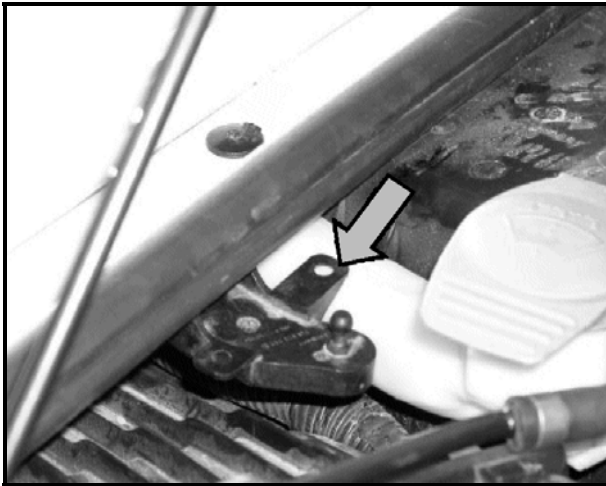
Work Sequence

- If vehicle has a V6 engine with air suspension, go to Criteria 5 & 6 - Section A
- If vehicle has a V8 engine, go to Criteria 13 & 14 & 15 - Section A (see Page 8)

Criteria 5 & 6

Section A – Air Cleaner Housing Removal

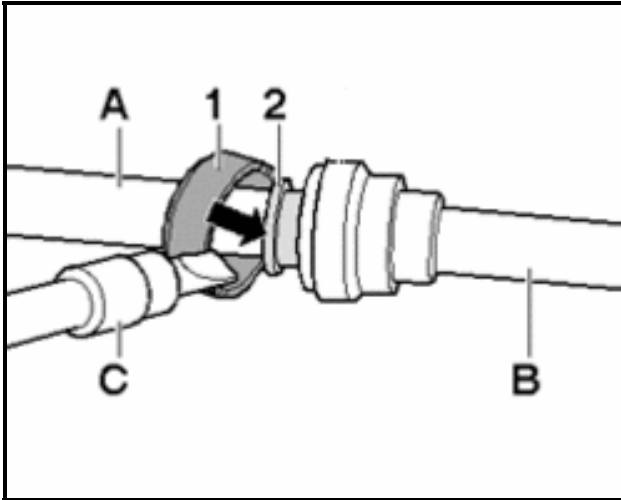
- Turn wheels fully to the right
- Put vehicle in jack mode
- Remove key from ignition switch
- Open hood and if applicable, remove right side engine compartment cover
- ⇐ If present, remove clip -arrow- for cover by pressing the detent located on bottom side of clip upward
- Disconnect connector to right Mass Air Flow (MAF)
- Reposition coolant hose away from air cleaner box
- Remove right side charge air tube



- ⇐ Illustration shows air line air connection -arrow- from air supply unit to right side air cleaner

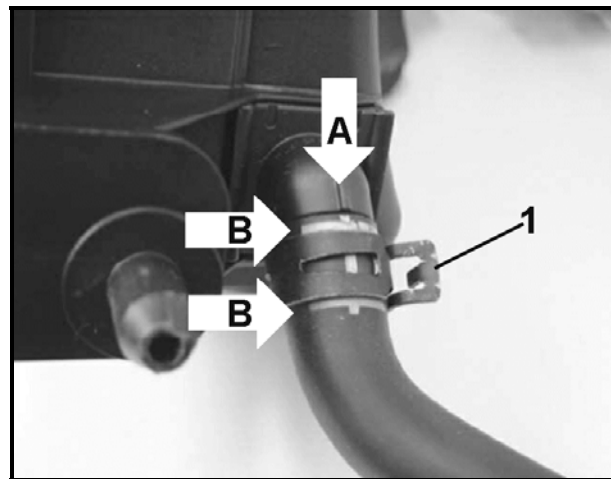


Note: Please follow instructions in next step to avoid disconnection problems



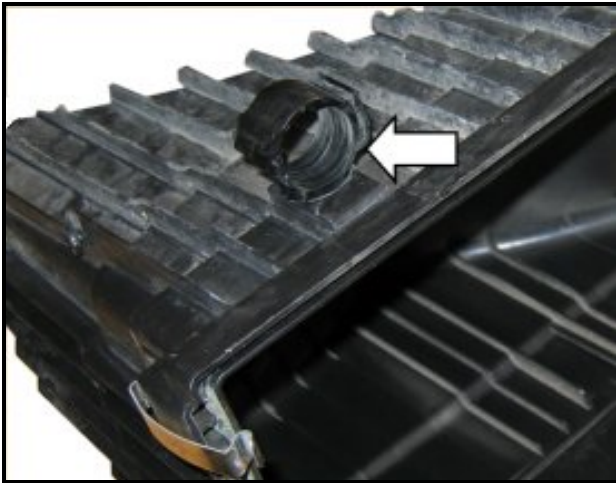
- ⇐ Disconnect air line by carefully prying off green circlip -1- using screwdriver -C-
- ⇐ Press clamping ring -2- in direction of arrow
- ⇐ Pull off loosened line -B- from connector -A- on air cleaner
- Disconnect air hose from secondary air injection pump to air cleaner
- Release clips from air cleaner cover and remove cover and air cleaner element
- Raise vehicle and remove right front wheel and wheel housing lining
- Disconnect lower air intake duct to air cleaner
- Lower vehicle, remove bolt securing air cleaner, release wiring harness from clip on side of air cleaner and remove air cleaner

Section B – Air Cleaner Housing Installation

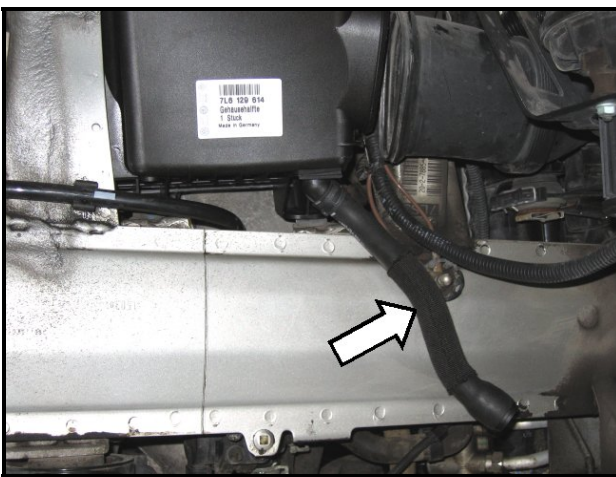


- On work bench:
 - For Criterion #5 (**USA only**), install new water drain hose (7L6 129 653) onto new air cleaner housing (7L6 129 614) and secure with new spring clamp (N 906 869 01)
 - For Criterion #6 (**Canada only**), install new water drain hose (7L6 129 653) onto new air cleaner housing (7L6 129 614 A) and secure with new spring clamp (N 906 869 01)

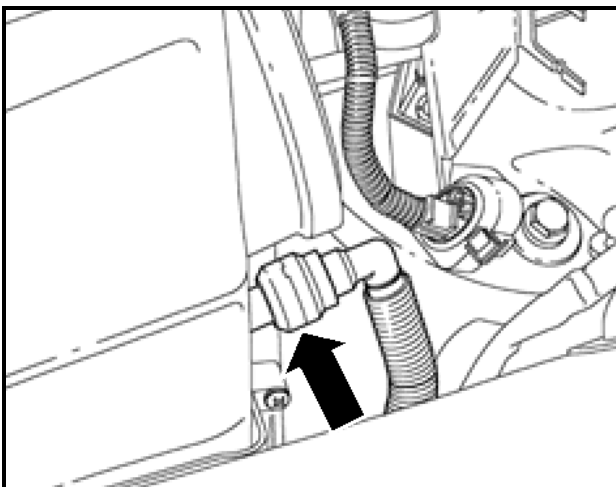
⚠ Note: White line on water drain hose must line up with marking on air cleaner housing -arrow A- and spring clamp -1- must be positioned between white lines -arrows B-



- ⇐ Carefully remove wiring harness holding clip -arrow- from old air cleaner housing and install on new air cleaner housing



- Install new air cleaner housing with water drain hose into vehicle
- ⇐ Illustration shows position of water drain hose -arrow- after air cleaner is installed into vehicle
- Secure air cleaner housing with bolt



- Reinstall air cleaner element
- Reinstall cover for air cleaner housing and close clips
- Reconnect air hose from secondary air injection pump to air cleaner housing
- Insert harness into holding clip on air cleaner housing
- ⇐ Reconnect air line from suspension air compressor to air cleaner housing -arrow-
- Clip transmission air breather hose to air cleaner cover
- Raise vehicle and connect lower air intake duct to air cleaner housing
- Reinstall right wheel housing lining and lower vehicle

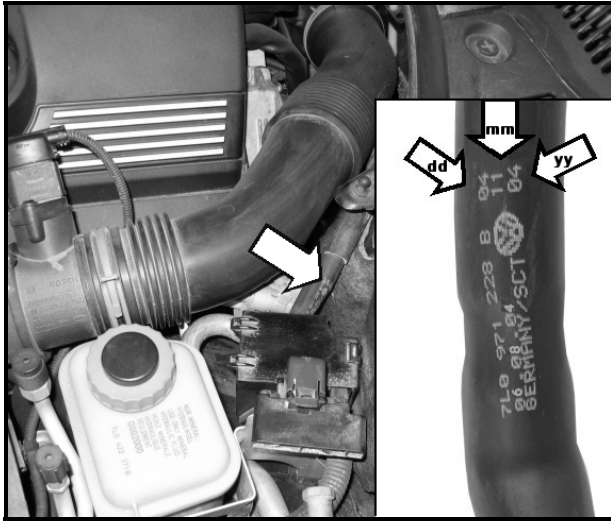


- Reinstall right side charge air tube
- Reposition coolant hose above air cleaner
- Reconnect connector to right Mass Air Flow (MAF)
- ⇐ If applicable, reinstall clip -arrow- and right side engine compartment cover
- Destroy and properly dispose of removed parts

WORK IS COMPLETE for Criteria 5 & 6

Criteria #13, 14, 15 – Battery Positive (B+) Cable and Air Cleaner Housing Replacement

Work Sequence



Section A – Check Battery Positive (B+) Cable

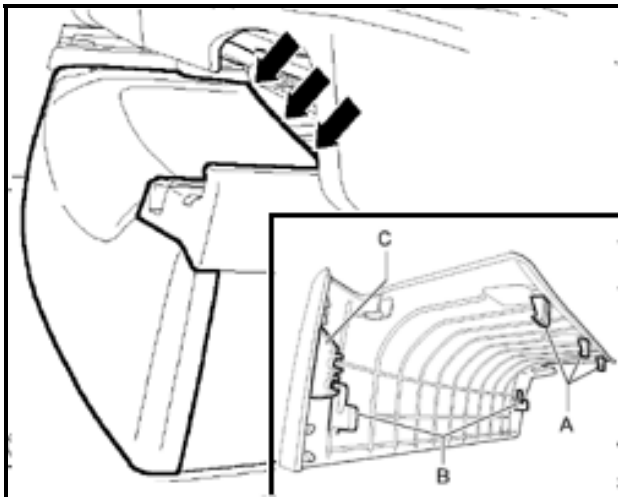
- Open hood and if applicable, remove left side engine compartment cover
- ⇐ Check production date -arrow- of battery positive (B+) cable:
 - If production date is 06-08-04 (ddmmyy) (6 August, 2004) or later, no new battery positive (B+) cable is required; **go to Criteria 5 & 6 Section A** (see Page 4) if vehicle has air suspension; otherwise, reinstall left side engine compartment cover, if applicable, and close hood; **no further work required**



Tip: A mirror may be helpful to read production date

- If production date is earlier than 06-08-04, **go to Section B**

Section B – Battery Positive (B+) Cable Replacement

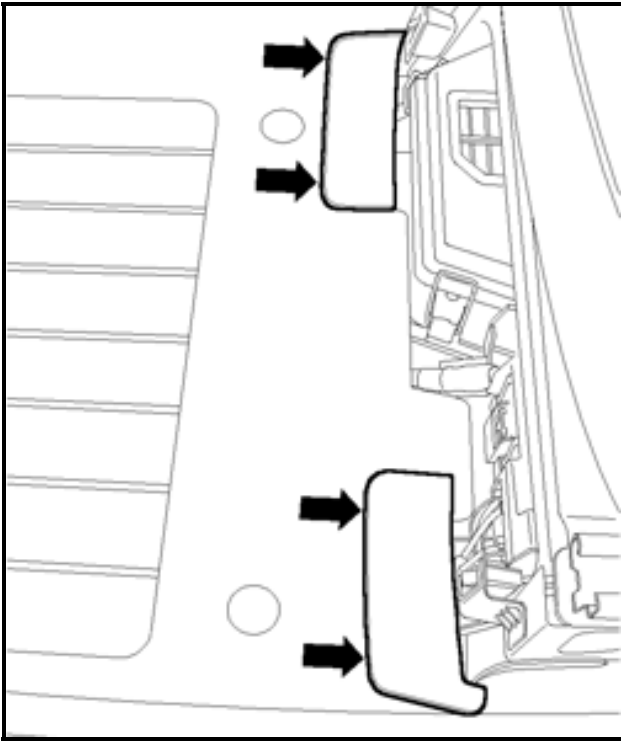


- Move driver's seat fully rearward and upward
- ⇐ Unclip front trim panel along the top -arrows- and bottom and remove

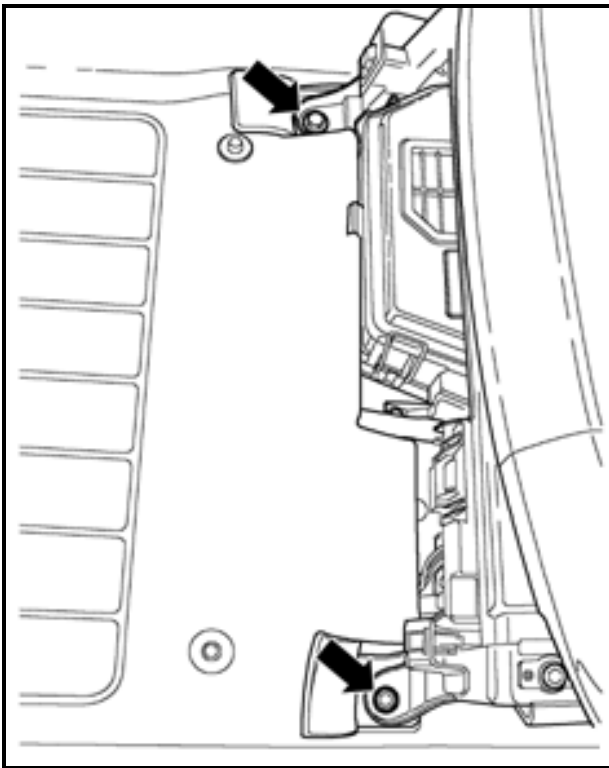


Tip: Release locking tabs -A- by pressing downward and rearward -arrows- on rear edge of trim panel. Release locking tabs -B- and -C- by pushing trim panel down and pulling forward

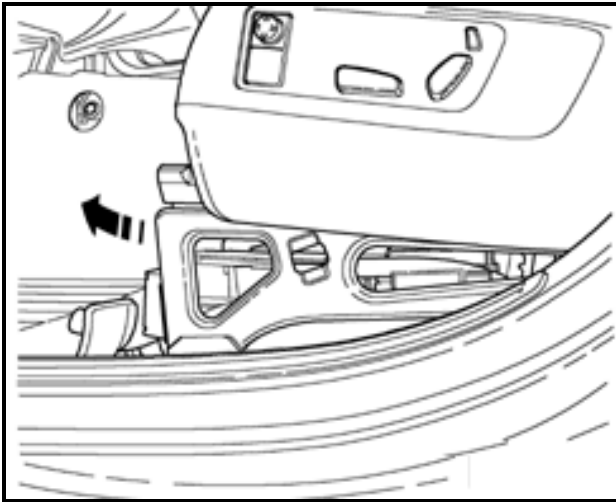
- Move driver's seat fully forward
- Use a small screwdriver and pry rear spindle covers out of mounts (comfort seat only)
- Remove seat rail covers from rear of seat rails



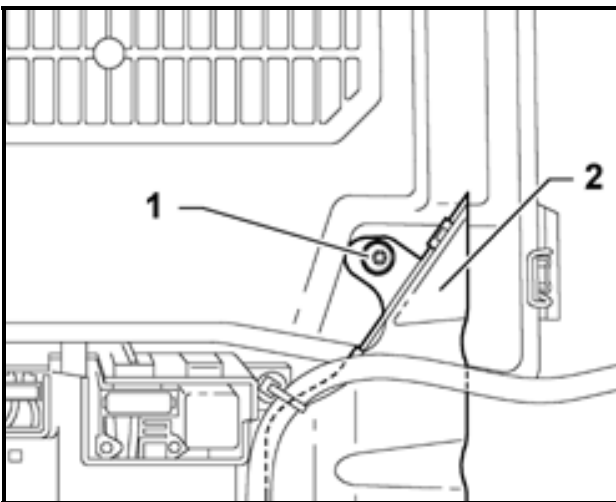
- Move driver's seat fully rearward
 - Unclip and remove carpet mat
- ⇐ Unclip covers -arrows- located on floor in front of driver's seat



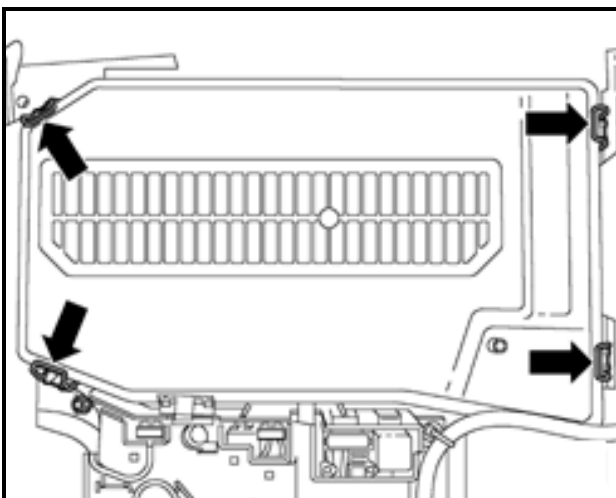
- ⇐ Remove bolts -arrows-



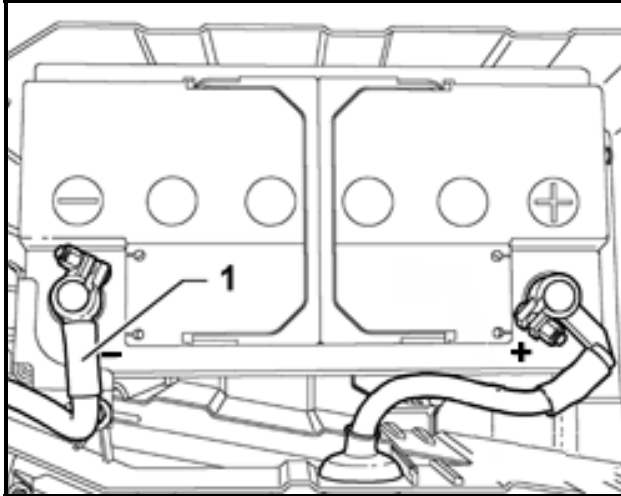
⇐ Tilt seat frame and seat to rear -arrow-



⇐ Remove bolt -1- and air duct -2-

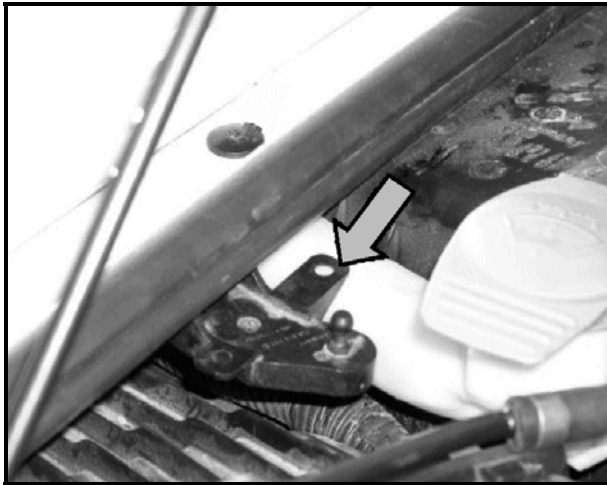


⇐ Open battery box clips -arrows- and remove box cover

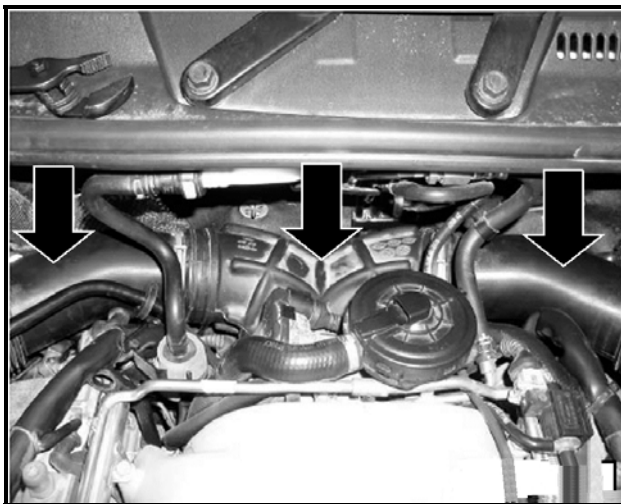


- Make certain lug bolt key is out of trunk, front wheels are turned fully to the right, driver's seat is fully forward and all electrical consumers are switched off
- Turn ignition switch to "Off" position and remove key
- ⇐ Disconnect negative (-) battery cable -1- from battery
- **Go to Section C**

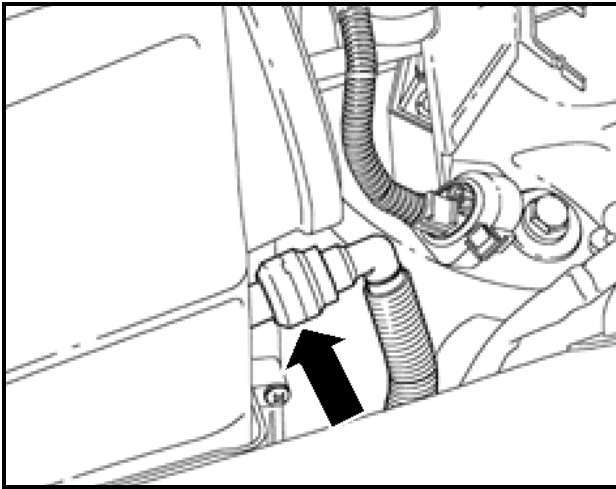
Section C – Battery Positive (B+) Cable Replacement



- Open hood and if applicable, remove right side engine compartment cover
- ⇐ If present, remove clip -arrow- for cover by pressing the dent located on bottom side of clip upward
- Disconnect connector to right Mass Air Flow (MAF)
- Reposition coolant hose away from air cleaner box

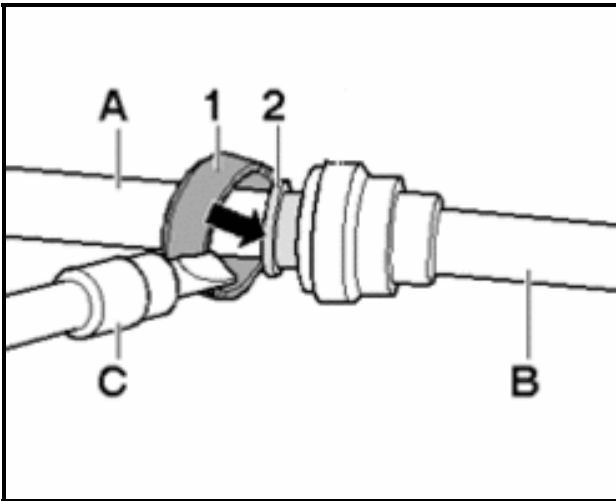


- Remove engine cover panels
- ⇐ Remove right, left and center air intake pipes -arrows-



⇐ Illustration shows air line air connection -arrow- from air supply unit to right side air cleaner cover

⚠ Note: Please follow instructions in next step to avoid disconnection problems

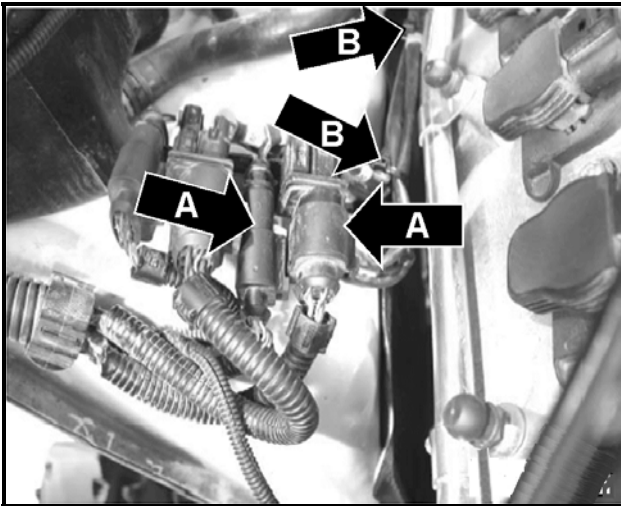


⇐ Disconnect air line by carefully prying off green circlip -1- using screwdriver -C-

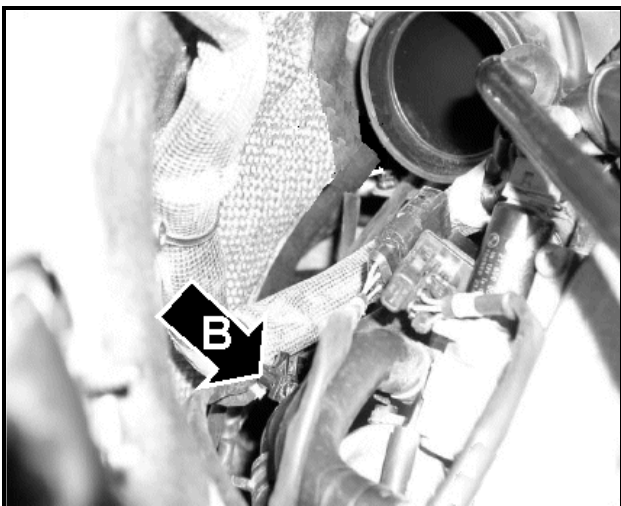
⇐ Press clamping ring -2- in direction of arrow

⇐ Pull off loosened line -B- from connector -A- on air cleaner

- Disconnect air hose from secondary air injection pump to air cleaner
- Release clips on air cleaner cover and remove cover and air cleaner element
- Raise vehicle and remove right front wheel and wheel housing lining
- Disconnect lower air intake duct to air cleaner
- Lower vehicle, remove bolt securing air cleaner housing, release wiring harness from clip on side of air cleaner and remove air cleaner housing

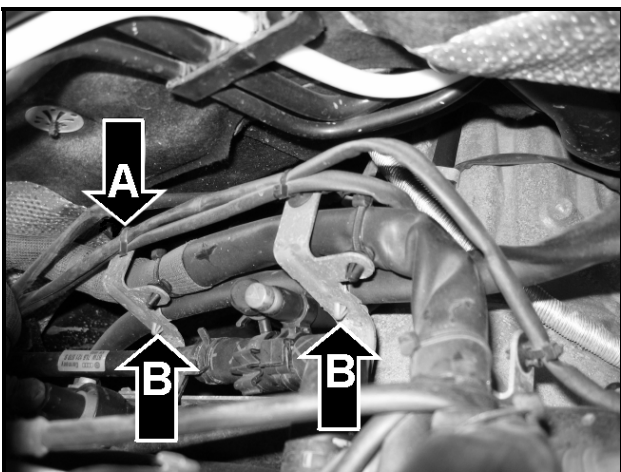


- ⇐ Disconnect oxygen sensor (black) connectors -arrows A-
- ⇐ Remove (cut) 2 cable ties -arrow B- securing oxygen sensor wiring harness

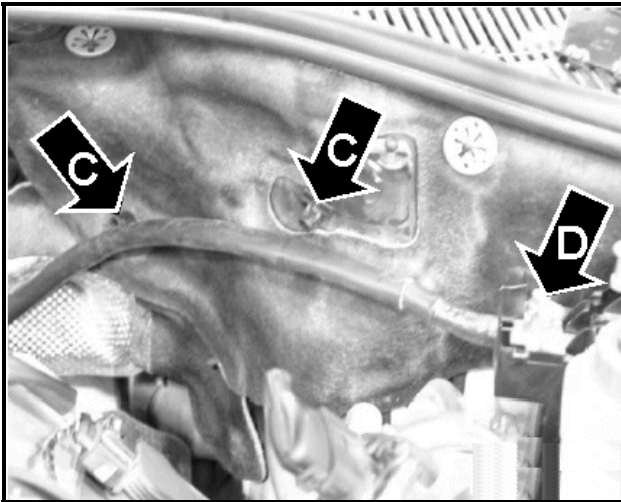


- ⇐ Unclip cable retainer -arrow B- securing oxygen sensor wiring harness to bracket
- Position oxygen sensor wiring close to exhaust system

⚠ WARNING!
Make certain engine is cool. Contact with a hot engine can cause severe burns!




- ⇐ Remove (cut) cable tie -arrow A- securing oxygen sensor wiring harness
- Unclip oxygen sensor wiring harness from top center of transmission (located directly below center air intake pipe)
- ⇐ Remove clips -arrow B- securing battery positive (B+) cable to bracket on rear of engine

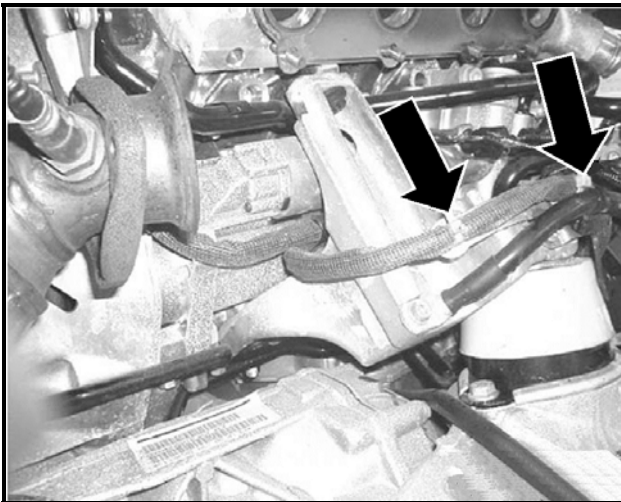



⇐ Remove battery (B+) cable holding clips -arrow C- from bulkhead

⇐ Remove nut securing battery (B+) cable from jumper positive terminal -arrow D-


 Tip: Attach a long piece of mechanics wire to cable end to aid in installation on new battery (B+) cable

- Raise vehicle and remove lower rear engine cover
- Remove cap and nut securing battery positive (B+) cable to generator
- Remove cable from generator

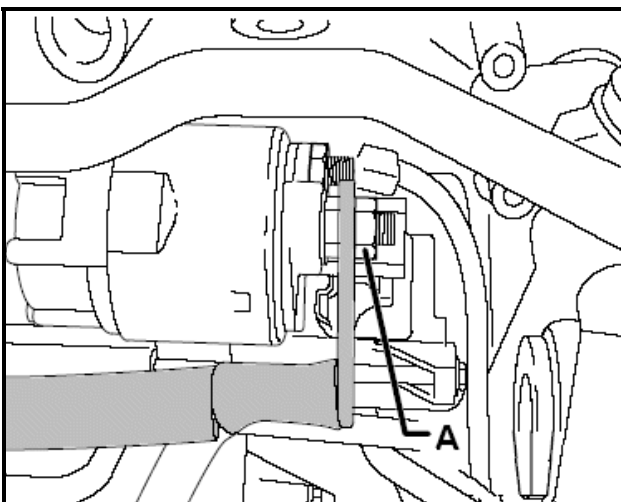


 Tip: For illustrative purposes, engine is shown removed from vehicle

⇐ From right wheel well, remove 2 clips -arrows- securing battery positive (B+) cable to bracket

 Tip: Battery positive (B+) cable is routed from starter around engine mount to generator


- Disconnect connector to oil pressure switch



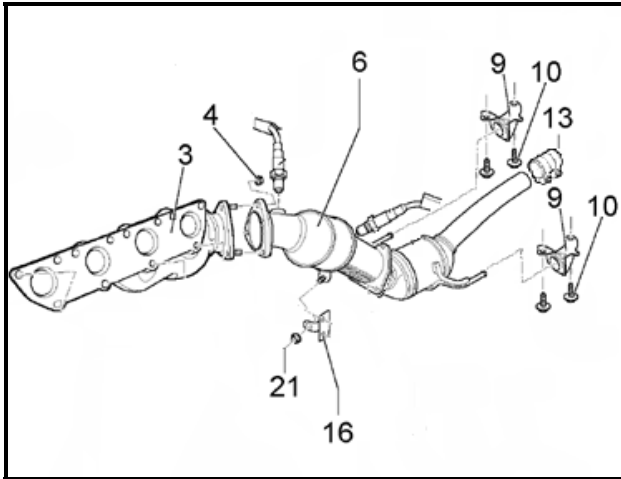
⇐ Start removing nut -A- securing battery positive (B+) cable to starter by using ¼" drive universal joint extension with 13mm socket

- Turn nut a maximum 2 full turns

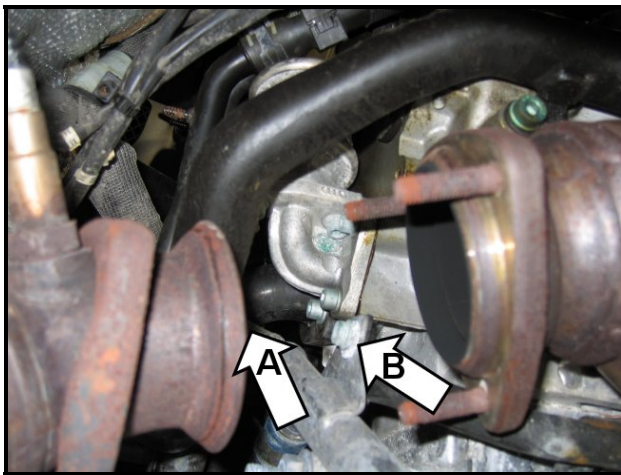
- Remove ¼" drive universal joint extension with 13mm socket and use 13mm swivel socket to remove nut from stud

 Tip: Stud and nut on starter are visible between oil pressure sensor and black coolant pipe

- Remove battery (B+) cable from starter



- ⇐ Remove nuts -4- securing right side catalytic converter -6- to exhaust manifold -3-
- ⇐ Remove nut -21- securing catalytic converter to bracket -16-
- ⇐ Remove bolts -10- securing catalytic converter mount -9- to body
- ⇐ Loosen clamp -13- and slide rearward
- Remove catalytic converter from exhaust manifold and move rearward



- ⇐ Remove nut -arrow B- securing battery positive (B+) cable to bracket on coolant pipe

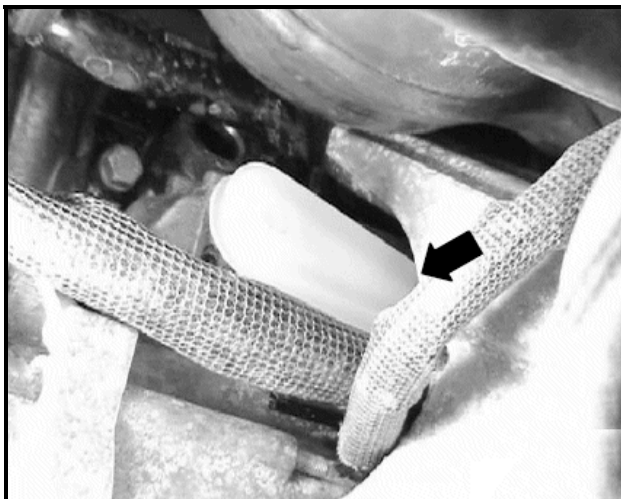


Tip: Make note of battery positive (B+) cable position and attach a piece of mechanics wire to the ends of the battery positive (B+) cable to aid in the installation of new battery positive (B+) cable

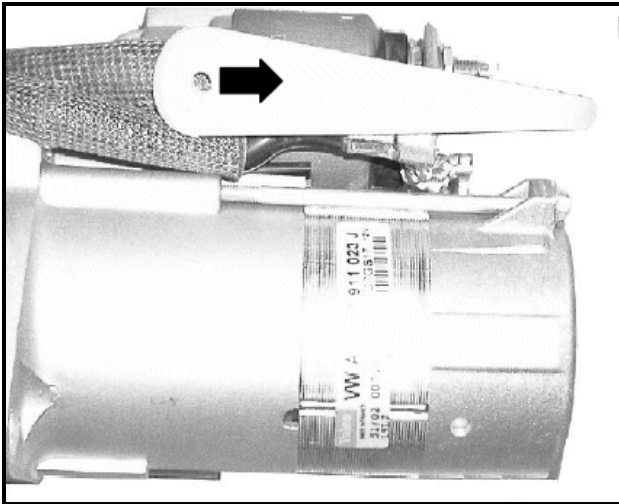
- Carefully remove battery positive (B+) cable
- Route new battery positive (B+) cable (7L0 971 228 B) dated 06-08-04 or later to generator, starter and jumper positive terminal



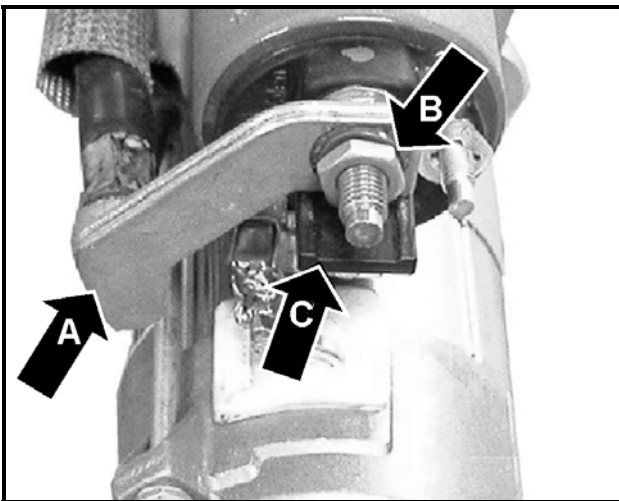
Tip: Make certain battery positive (B+) cable is routed between coolant pipe and engine mount -arrow A-



- ⇐ Using access above steering rack, insert wedge tool 3409 -arrow- between engine mount and cable



- ⇐ Illustration is showing position of wedge tool 3409 next to battery positive (B+) cable
- ⇐ Arrow in illustration shows direction tool is inserted
- When wedge tool 3409 is inserted correctly, tip of tool will be visible when viewed from removed air cleaner hole

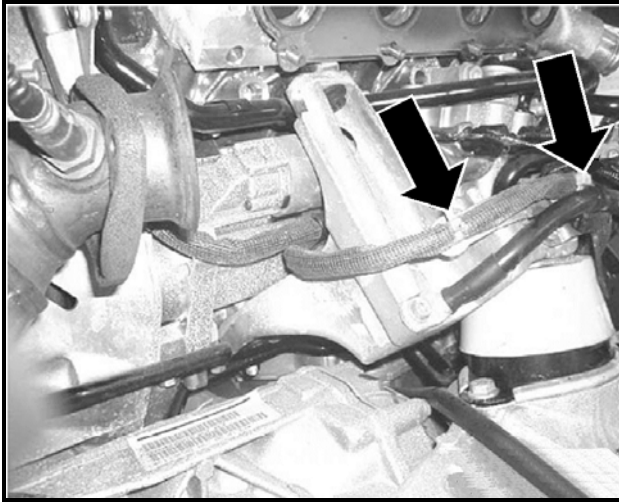


- ⇐ Wedge tool 3409 will effectively space and hold (B+) cable -arrow A- in position away from engine mount while tightening nut -arrow B-
- ⇐ Make certain cable is spaced away from engine mount support and terminal is lying flat on alignment block -arrow C- of starter
- ⇐ Use nut to secure battery positive (B+) cable to starter and tighten to 15 Nm (11 ft. lbs.)



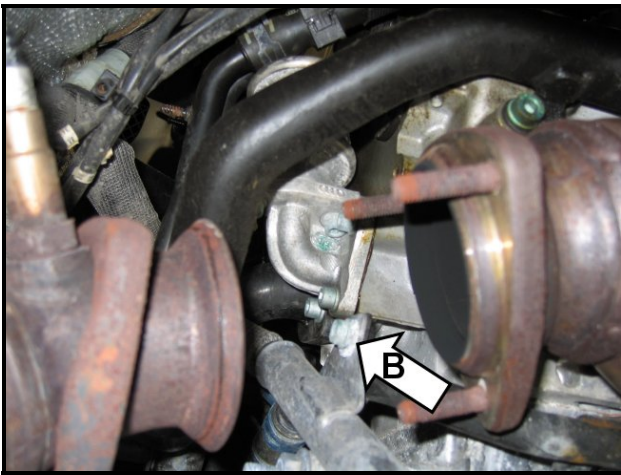
Tip: Use previously described nut removal tools for tightening nut

- Remove wedge tool 3409
- Attach battery (B+) cable to generator
- Secure cable with nut and tighten to 15 Nm (11 ft. lbs.)
- Reinstall cap over nut

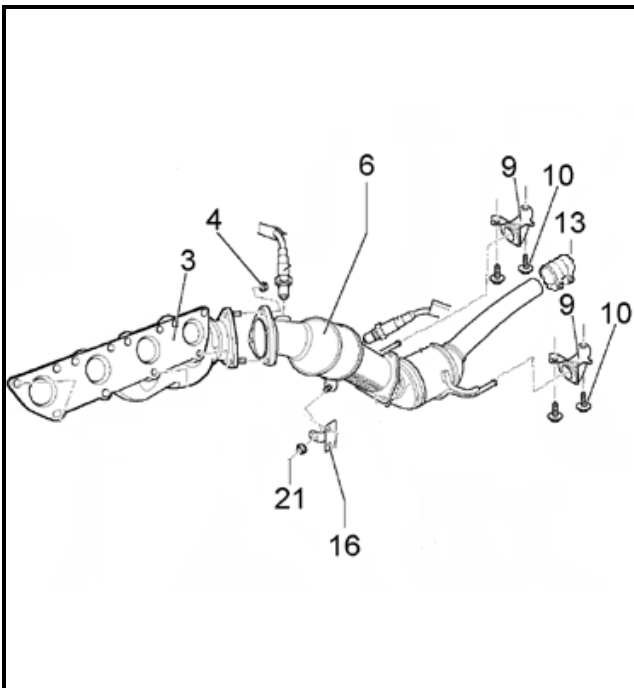


- ⇐ From right wheel well, attach 2 clips -arrows- securing battery positive (B+) cable to bracket
- Reconnect connector to oil pressure switch

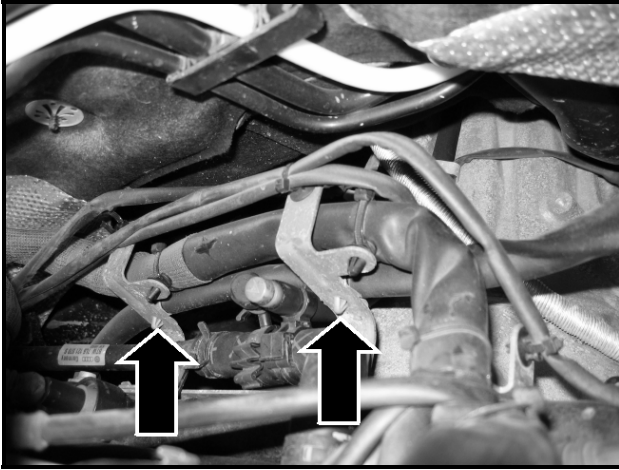
27



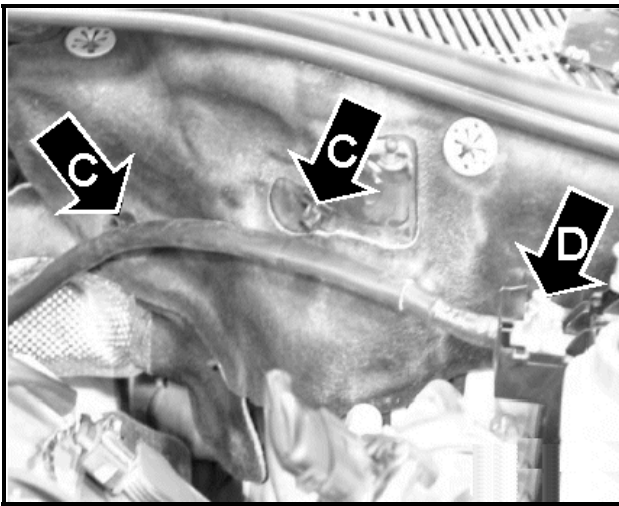
- ⇐ Secure battery positive (B+) cable to coolant pipe -arrow B- with nut and tighten to 12 Nm (9 ft. lbs.)



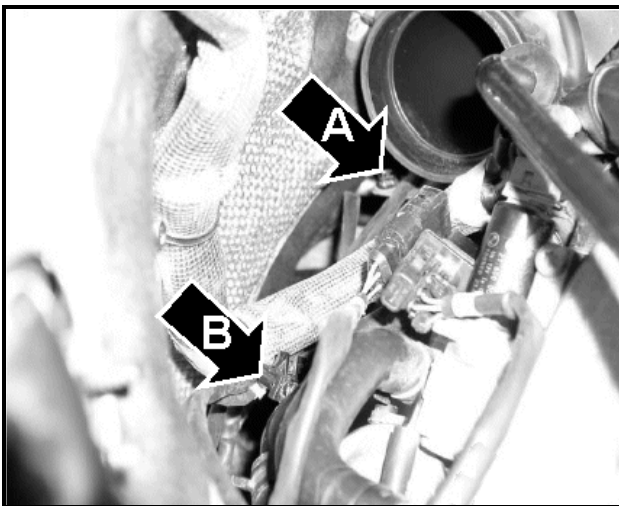
- ⇐ Carefully reinstall catalytic converter -6- onto manifold -3-, slide clamp -13- forward partially onto exhaust pipe and route oxygen sensor wiring harnesses to connectors
- ⇐ Hand start nut -21- to secure catalytic converter to bracket -16-
- ⇐ Using new nuts -4- (N 902 002 01) secure catalytic converter to exhaust manifold and tighten to 25 Nm (18 ft. lbs.)
- ⇐ Tighten nut -21- to 25 Nm (18 ft. lbs.)
- ⇐ Reinstall hanger bracket -9-, secure with bolts -10- and tighten to 25 Nm (18 ft. lbs.)
- ⇐ Tighten bolts on clamp -13- to 40 Nm (30 ft. lbs.)



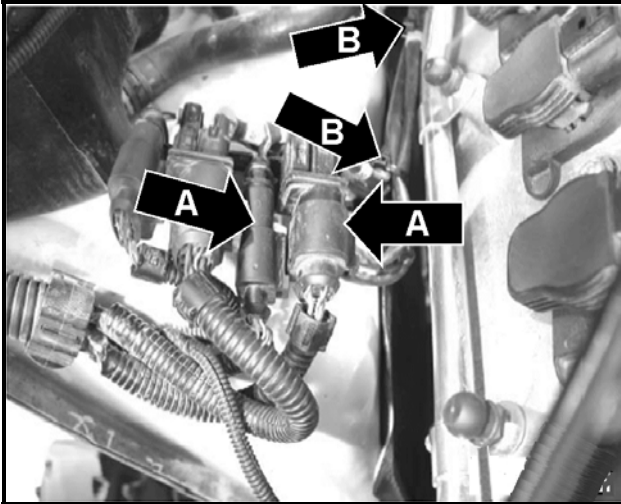
- ⇐ Lower vehicle and insert clips -arrows- on battery positive (B+) cable into bracket at rear of engine



- ⇐ Attach battery positive (B+) cable to bulkhead using holding clips -arrow C-
- ⇐ Attach battery positive (B+) cable to jumper positive terminal -arrow D- and tighten nut to 20 Nm (15 ft. lbs.)
- Clip oxygen sensor wiring harness to top center of transmission (Located directly below center air intake pipe)



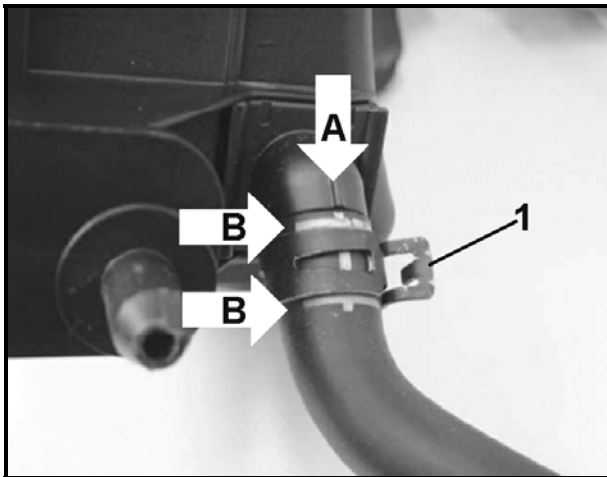
- ⇐ Clip cable retainer -arrow B- to secure oxygen sensor wiring harness to bracket
- ⇐ Secure oxygen sensor wiring harness with new tie wrap (N 020 902 2) -arrow A-



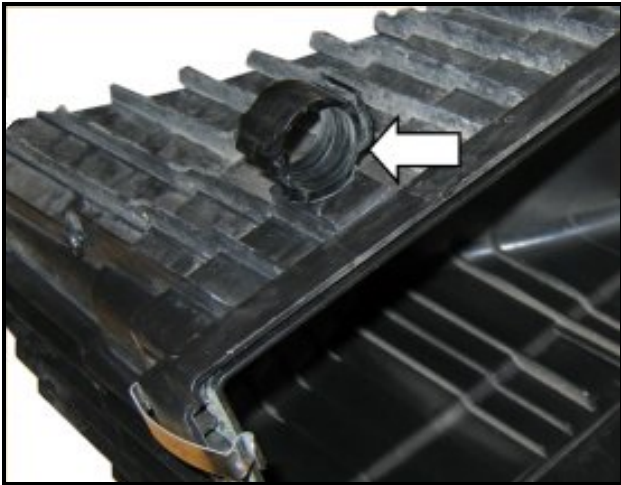
- ⇐ Reconnect oxygen sensor (black) connectors -arrows A-
- ⇐ Secure oxygen sensor wiring harness with tie wraps (N 020 902 2) -arrow B-

Air Cleaner Housing Preparation and Installation

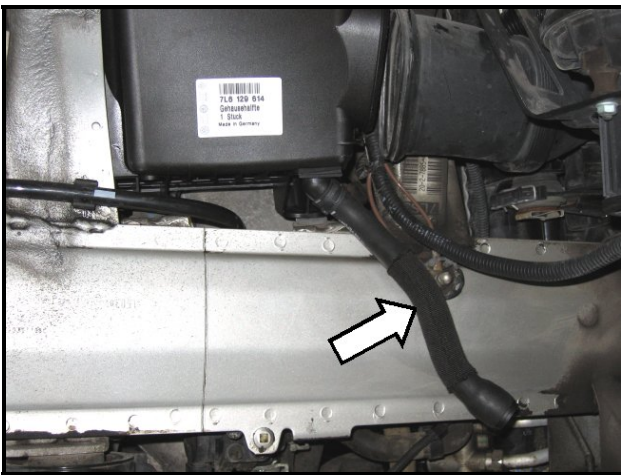
- On work bench:
 - For Criterion #14 (**USA only**), install new water drain hose (7L6 129 653) onto new air cleaner housing (7L6 129 614) and secure with new spring clamp (N 906 869 01)
 - For Criterion #15 (**Canada Only**), install new water drain hose (7L6 129 653) onto new air cleaner housing (7L6 129 614 A) and secure with new spring clamp (N 906 869 01)
 - For Criterion #13, vehicles without air suspension - no new air cleaner housing required



⚠ Note: White line on water drain hose must line up with marking on air cleaner housing -arrow A- and spring clamp -1- must be positioned between white lines -arrows B-



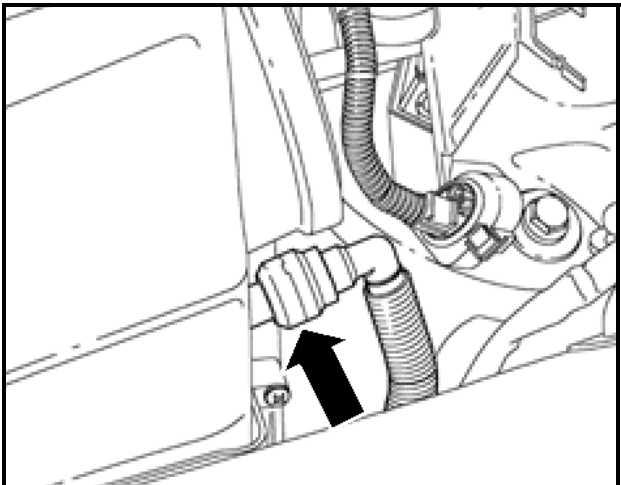
⇐ If applicable, carefully remove wiring harness holding clip -arrow- from old air cleaner housing and install on new air cleaner housing



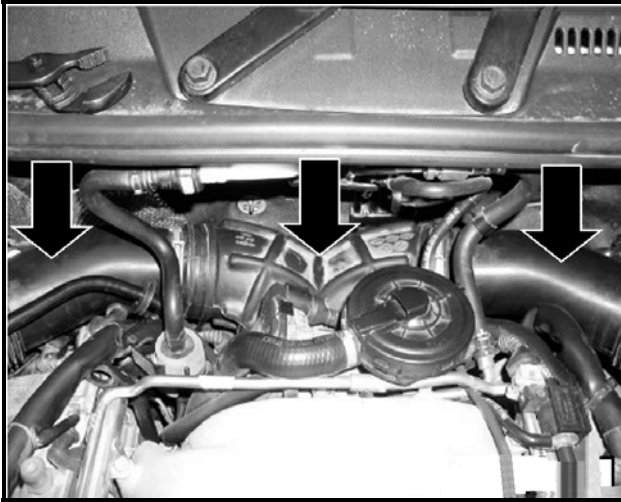
- Install new air cleaner housing with water drain hose for Criterion #14 or Criterion #15 or reinstall air cleaner for Criterion 13

⇐ Illustration shows position of water drain hose -arrow- after air cleaner housing is installed into vehicle

- Secure air cleaner housing with bolt

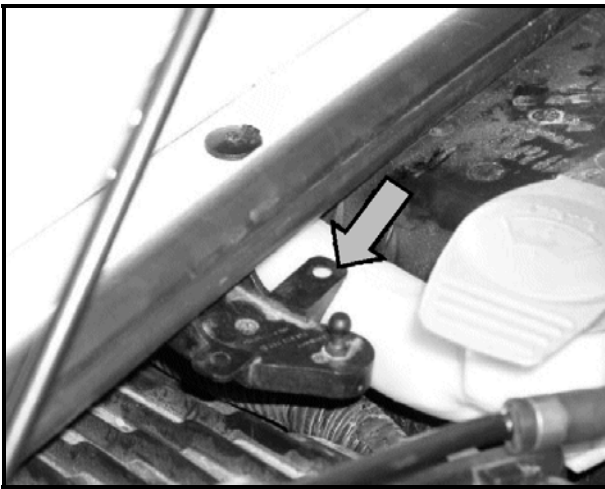


- Reinstall air cleaner element
 - Reinstall cover for air cleaner and close clips
 - Reconnect air hose from secondary air injection pump to air cleaner
 - Insert harness into holding clip on air cleaner
- ⇐ Reconnect air line from suspension air compressor to air cleaner -arrow-
- Clip transmission air breather hose to air cleaner cover



⇐ Reinstall right, left and center air intake pipes
-arrows-

- Reinstall engine cover panels



- Reposition coolant hose above air cleaner
- Reconnect connector to right Mass Air Flow (MAF)

⇐ If applicable, reinstall clip -arrow- for engine compartment cover

- If applicable, reinstall engine compartment covers

- Reinstall engine cover panels

- Raise vehicle and reinstall engine bottom cover

- Reinstall air intake tubes to air cleaners

- Reinstall right wheel housing liner

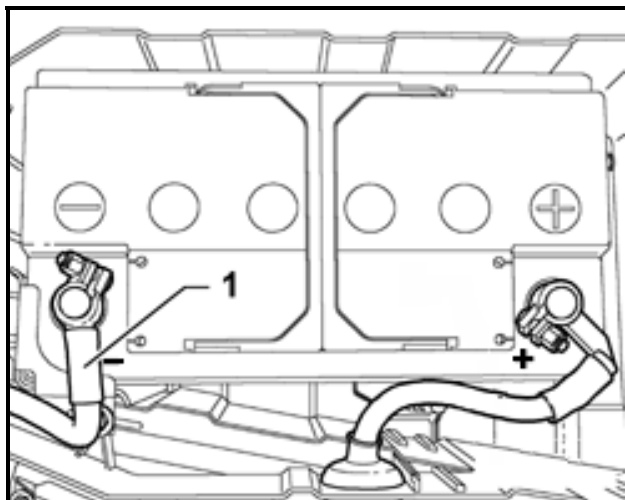


Tip: New air cleaner water drain hose will be located between vehicle longmember and wheel housing liner

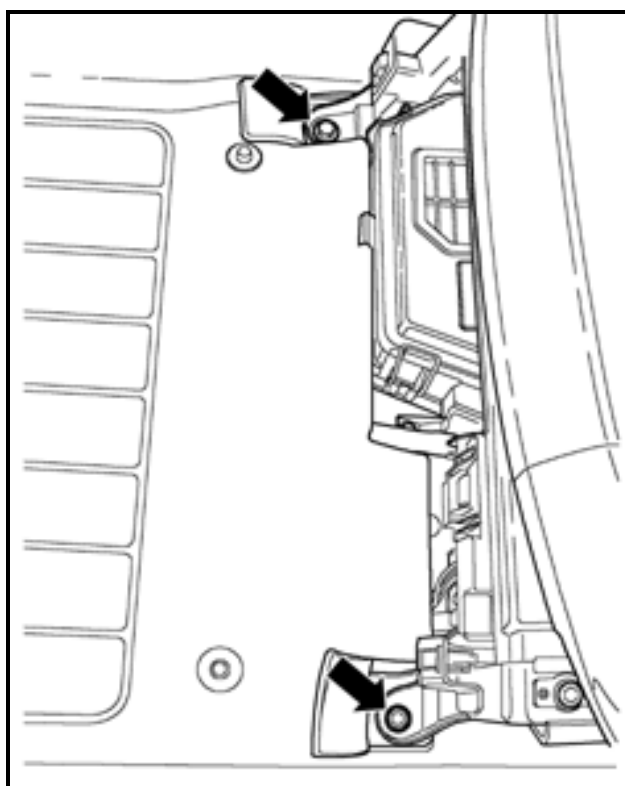
- Reinstall right front wheel and tighten lug bolts to 160 Nm (118 ft. lbs.)

- **Go to Section D**

Section D – Reconnecting Battery



- ⇐ Reconnect negative (-) battery cable -1- to battery and tighten to 9 Nm (80 in. lbs.)
- Reinstall battery box cover and clip into position
- Reinstall air duct to battery box cover and secure with bolt



- Tilt seat forward
- ⇐ Secure seat to floor with new bolts -arrows- (N 910 192 01) and tighten to 45 Nm (33 ft. lbs.)
- Reinstall plastic covers on floor
- Reinstall covers for front seat rails and spindle covers if applicable
- Move seat forward and reinstall covers for seat rails and spindle covers if applicable
- Reinstall trim panel at front of seat
- Reinstall carpet mat and clip into position

Section E – Power Restoration

- Turn ignition switch to left most position
- Let ignition switch return to zero position (at rest when key is in ignition switch)
- Turn ignition switch to the right position to start the engine
- Use VAS 5051/2 diagnostic tester and check and clear DTC's
- Perform basic setting of steering angle sensor
- Reset clock to local time
- Set front windows one touch feature
- If vehicle has electronic front seats, set forward and rearward soft stop function
- Operate electronic steering column fully in all directions
- Perform function test of all electrical consumers
- Set engine readiness code
- Destroy and properly dispose of all removed parts

WORK IS COMPLETE