#### 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



# Customer Satisfaction Campaign Code: 24U8

Subject: 2011 - 2012 Audi R8/R8 Spyder

**Engine Wiring Harness Overlay & ECM Programming** 

**REVISED** 

November 28, 2012

#### **Revision Summary**

- Requirements for California dealers added.
- California-specific customer letter added.

### **R8 Repair Requirements**

To ensure that all Audi R8 services and repairs are performed properly under this action, repair work must be performed at an authorized Audi dealer with the designation Audi R8 Certified Point or Audi R8 Service Point.

### **Problem Description**

Under certain driving conditions the MIL may come on even though the vehicle is operating correctly. If the MIL is on because of this issue, your vehicle may not pass an IM (emissions) inspection.

#### **Corrective Action**

As applicable, installation of an engine wiring harness overlay and updated ECM programming.

#### **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.

# 2011 - 2012 Audi R8

WUA\_ \_AFG\_BN000132 - WUA\_ \_AFG\_CN002527 Production dates: 05/07/2010 - 06/05/2012

### 2011 - 2012 Audi R8 Spyder

WUA\_\_AFG\_BN000134 - WUA\_\_AFG\_CN002651 Production dates: 07/06/2010 - 05/24/2012

#### CANADA

#### 2011 - 2012 Audi R8

WUA\_\_AFG\_BN000150 - WUA\_\_AFG\_CN002569 Production dates: 05/18/2010 - 06/05/2012

#### 2011 - 2012 Audi R8 Spyder

WUA\_ \_AFG\_BN000154 - WUA\_ \_AFG\_CN002468 Production dates: 06/17/2010 - 06/03/2012 **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**

Electronic allocation lists are posted under My Dealership Reports on AccessAudi. A list was not posted for dealers who had no affected vehicles.

#### **Parts Information and Allocation**

Parts allocation took place prior to customer notification. If you have exhausted your allocated parts but have exceeded your weekly Upper Order Limit, email requests for additional parts to <u>upperorderlimits@audi.com</u>. Questions? Contact the Parts Helpline at 800-767-6552.

#### **Owner Notification Mailing**

We notified all known owners by first class mail in July 2012; additional customers were notified in October 2012. California customers who have not yet had this repair completed will be re-notified on or about December 4, 2012. Sample copies of the owner letters are enclosed.

# Requirements for Emissions Campaigns With Customer Notification (CALIFORNIA ONLY)

The California Air Resources Board and the Department of Motor Vehicles (DMV) require emissions-related campaigns to be completed prior to vehicle registration renewal. When campaign work is done you must provide the owner with a signed "Vehicle Emission Recall – Proof of Correction" certificate (RC EMISCAVWAU). Certificates can be ordered at no cost online via the Compliance Label Ordering portal at www.accessaudi.com.

NOTE: Ensure owners are aware of the importance of retaining the completed certificate for their records. It should be mailed to the California DMV only upon request.

# Campaign Completion Labeling Guidelines (CALIFORNIA ONLY)

Vehicles repaired under this action are required to be identified with a Campaign Completion label when the work is performed. It is mandatory for all dealers in California to complete and affix Campaign Completion label, part number CAMP 010 000, whenever this campaign is performed. Labels can be ordered at no cost online via the Compliance Label Ordering portal at www.accessaudi.com.

#### **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.

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# **Saga Claim Entry Procedure**

Check ElsaWeb to determine whether the campaign is open.

Service No.: 24U8 Damage Code: 0099

Parts Manufacturer

Removed part: Use vendor code 002

Sold vehicle = 7 10 Unsold vehicle = 7 90 Vehicles may have more than one criteria. Complete and claim all applicable criteria on <u>one</u> claim.

# **Accounting Instructions**

# Criteria I.D. 01 and 02

Perform Software Update

**Repair operation:** 2470 25 99 50 T.U.

AND/OR

### Criteria I.D. 03

Inspect/Replace Engine Wiring Harness Overlay

**Repair operation:** 9752 25 99 340 T.U.

<u>Quantity</u>	Part Number	Part Description			
1	420 971 493 D	Engine wiring harness overlay			
1	000 979 940	Connector			
4	N 909 803 04	Bolt			
4	N 910 238 02	Bolt			
12	N 909 377 02	Tie Wrap (High temperature)			
Up to 1	000 979 950	Cloth tape			

**OR** 

Continue to next page

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# Criteria I.D. 04

Inspect/Replace Engine Wiring Harness Overlay

**Repair operation:** 9752 23 99 440 T.U.

<u>Quantity</u>	Part Number	Part Description			
1	420 971 493 E	Engine wiring harness overlay			
1	000 979 940	Connector			
4	N 909 803 04	Bolt			
4	N 910 238 02	Bolt			
12	N 909 377 02	Tie Wrap (High temperature)			
Up to 1	000 979 950	Cloth tape			

### AND/OR

# Criteria I.D. 05

Remove Version 1 Harness

**Repair operation:** 9752 24 99 20 T.U.

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. Provide the VIN, applicable Service Number, Customer information, Dealer number and date.

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# Customer Letter Example (United States – Except California)

<MONTH YEAR>

<CUSTOMER NAME> <CUSTOMER ADDRESS>

<CUSTOMER CITY STATE ZIPCODE>

Vehicle Identification Number (VIN): <VIN>

Subject: Customer Satisfaction Campaign 24U8/K9

**Engine Wiring Harness Overlay & ECM Programming** 

2011-2012 MY Audi R8 and R8 Spyder

#### Dear Audi Owner:

In our continuing quest to improve customer satisfaction, we've identified a need to address an issue with the Malfunction Indicator Light (MIL) on certain 2011-2012 Audi R8 and R8 Spyder vehicles. Our records show that you are the owner of one of these vehicles.

#### What is the problem?

Under certain driving conditions the MIL may come on even though the vehicle is operating correctly. If the MIL is on because of this issue, your vehicle may not pass an IM (emissions) inspection.

#### What will Audi do?

In order to prevent this problem from occurring, your authorized Audi R8 dealer may need to install an engine wiring harness overlay and/or update the programming in the Engine Control Module (ECM). This work will be performed at no cost to you.

### What We Would Like You to Do

Please contact your authorized Audi R8 dealer to schedule a repair appointment at your earliest convenience. This work will take about one full day, and will be performed at no cost to you. Please keep in mind that your dealer may need additional time for the preparation of the repair, as well as to accommodate their daily workshop schedule.

#### Lease Vehicles

If you are the lessor and registered owner of the vehicle identified in this action, please forward this information immediately via first-class mail to the lessee within ten (10) days of receipt of this notification.

#### Have You Changed Your Address Or Sold The Vehicle?

If you have, please fill out the enclosed prepaid Owner Reply card and mail it to us so we can update our records.

#### Service Help from Us

If your authorized Audi dealer fails or is unable to complete this work free of charge within a reasonable time, please call or write to:

Audi of America, Inc. Attn: Customer Relations (24U8/K9) 3800 Hamlin Road Auburn Hills, MI 48326 1-800-253-2834

We also invite you to visit our website at <a href="www.audiusa.com">www.audiusa.com</a> where you can check to see if this or any other action may be open on your vehicle.

We apologize for any inconvenience this matter may cause; however we are taking this action to help ensure your continued satisfaction with your vehicle. Thank you for your continued loyalty!

Sincerely,

Audi Product Quality & Technical Service

# **Customer Letter Example (CALIFORNIA ONLY)**

<MONTH YEAR>
 <CUSTOMER NAME>
 <CUSTOMER ADDRESS>
 <CUSTOMER CITY STATE ZIPCODE>

Vehicle Identification Number (VIN): <VIN>

Subject: Customer Satisfaction Campaign 24U8/K9

**Engine Wiring Harness Overlay & ECM Programming** 

2011-2012 MY Audi R8 and R8 Spyder

Dear Audi Owner:

In our continuing quest to improve customer satisfaction, we've identified a need to address an issue with the Malfunction Indicator Light (MIL) on certain 2011-2012 Audi R8 and R8 Spyder vehicles. Our records show that you are the owner of one of these vehicles.

#### What is the problem?

Under certain driving conditions the MIL may come on even though the vehicle is operating correctly. If the MIL is on because of this issue, your vehicle will not pass an IM (emissions) inspection.

#### What will Audi do?

In order to prevent this problem from occurring, your authorized Audi R8 dealer may need to install an engine wiring harness overlay and/or update the programming in the Engine Control Module (ECM). This work will be performed at no cost to you.

#### What We Would Like You to Do

Please contact your authorized Audi R8 dealer to schedule a repair appointment at your earliest convenience. This work will take about one full day, and will be performed at no cost to you. Please keep in mind that your dealer may need additional time for the preparation of the repair, as well as to accommodate their daily workshop schedule.

#### IMPORTANT INFORMATION FOR CALIFORNIA VEHICLE OWNERS

#### California Regulations

California regulations require that this campaign be completed prior to the time that you renew your vehicle registration. Therefore, please make sure that this campaign is completed prior to the renewal of your vehicle registration, and that you furnish proof of completion to the Department of Motor Vehicles (DMV) in the form of a copy of the dealer's repair order, including a signed "Proof of Correction" certificate. You obtain this from your dealer after the campaign has been completed. Please retain the signed Proof of Correction" certificate with your vehicle records. DO NOT MAIL THIS FORM to the DMV, unless requested.

#### **Lease Vehicles**

If you are the lessor and registered owner of the vehicle identified in this action, please forward this information immediately via first-class mail to the lessee within ten (10) days of receipt of this notification.

#### Have You Changed Your Address Or Sold The Vehicle?

If you have, please fill out the enclosed prepaid Owner Reply card and mail it to us so we can update our records.

#### Service Help from Us

If your authorized Audi dealer fails or is unable to complete this work free of charge within a reasonable time, please call or write to:

Audi of America, Inc.
Attn: Customer Experience (24U8/K9)
3800 Hamlin Road
Auburn Hills, MI 48326
1-866-892-2834

We also invite you to visit our website at <a href="www.audiusa.com">www.audiusa.com</a> where you can check to see if this or any other action may be open on your vehicle.

We apologize for any inconvenience this matter may cause; however we are taking this action to help ensure your continued satisfaction with your vehicle. Thank you for your continued loyalty!

Sincerely,

Audi Product Quality & Technical Service

### **Customer Letter Example (Canada)**

<MONTH YEAR>

<CUSTOMER NAME>
<CUSTOMER ADDRESS>
<CUSTOMER CITY STATE ZIPCODE>

Vehicle Identification Number (VIN): <VIN>

Subject: Customer Satisfaction Campaign 24U8/K9

**Engine Wiring Harness Overlay & ECM Programming** 

2011-2012 MY Audi R8 and R8 Spyder

#### Dear Audi Owner:

In our continuing quest to improve customer satisfaction, we've identified a need to address an issue with the Malfunction Indicator Light (MIL) on certain 2011-2012 Audi R8 and R8 Spyder vehicles. Our records show that you are the owner of one of these vehicles.

#### What is the problem?

Under certain driving conditions the MIL may come on even though the vehicle is operating correctly. If the MIL is on because of this issue, your vehicle may not pass an IM (emissions) inspection.

#### What will Audi do?

In order to prevent this problem from occurring, your authorized Audi R8 dealer may need to install an engine wiring harness overlay and/or update the programming in the Engine Control Module (ECM). This work will be performed at no cost to you.

#### What We Would Like You to Do

Please contact your authorized Audi R8 dealer to schedule a repair appointment at your earliest convenience. This work will take about one full day, and will be performed at no cost to you. Please keep in mind that your dealer may need additional time for the preparation of the repair, as well as to accommodate their daily workshop schedule.

### Lease Vehicles

If you are the lessor and registered owner of the vehicle identified in this action, please forward this information immediately via first-class mail to the lessee within ten (10) days of receipt of this notification.

### Have You Changed Your Address Or Sold The Vehicle?

If you have, please fill out the enclosed prepaid Owner Reply card and mail it to us so we can update our records.

#### Service help from us

If you have any questions regarding this action, please contact Audi Customer CARE by phone or mail at:

Audi Canada Attn: Customer Relations (24U8/K9) P.O. Box 842, Stn. A Windsor, ON N9A 6P2 1-800-822-2834

We also invite you to visit our website at <a href="www.audi.ca">www.audi.ca</a> where you can check to see if this or any other action may be open on your vehicle.

We appreciate the opportunity to update your vehicle so that it will continue to meet your high expectations. Thank you for your continued loyalty!

Sincerely,

Audi Technical Service

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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 (C)"

# **Required Parts:**

# All Criteria, California Only

Quantity	Part Number	Part Description		
(1) Shop supply	CAMP 010 000	Campaign Completion Label (California Only)		
(1) Shop supply	RC EMISCAVWAU	Proof of Correction Certificate (California Only)		

# Criteria I.D. 03 (Coupe)

Quantity	Part Number	Part Description		
1	420 971 493 D	Engine wiring harness overlay		
1	000 979 940	Connector		
4	N 909 803 04	Sheer bolt with locking compound		
4	N 910 238 02	Sheer bolt without locking compound		
12	N 909 377 02	Tie Wrap (High Temperature)		
Up to 1	000 979 950	Cloth tape		

Shop supply		Shrink tubing
Shop supply	N 103 113 04	Yellow tape in VAS 1978 B Tool kit
Shop supply		Silicone sealant

# Criteria I.D. 04 (Spyder)

<u>Quantity</u>	Part Number	Part Description		
1	420 971 493 E	Engine wiring harness overlay		
1	000 979 940	Connector		
4	N 909 803 04	Sheer bolt with locking compound		
4	N 910 238 02	Sheer bolt without locking compound		
12	N 909 377 02	Tie Wrap (High Temperature)		
Up to 1	000 979 950	Cloth tape		

Shop supply		Shrink tubing
Shop supply	N 103 113 04	Yellow tape in VAS 1978 B Tool kit
Shop supply		Silicone sealant

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# **Required Tools:**



VAS 6411 – Coupe / Spyder Rear End Protector



VAS 6412 - Coupe Side Panel Protector



VAS 6428 - Spyder Side Panel Protector

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VAS 1978/1-1 – Exchangeable head, 0.35-.50 mm



VAS 1978/1-2 – Crimping pliers (base tool)



VAS 1978/7A - Terminal removal tool

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VAS 1978/3 - Wire stripping tool



UT-100SI – Ultratorch in VAS 1978 B Tool kit or suitable heat gun

Or equivalent



VAS 1978/14A – Hot air blower
Or equivalent

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VAS 1978/15A – Shrink element for hot air blower

Or equivalent



VAS 5903 Battery charger
Or equivalent

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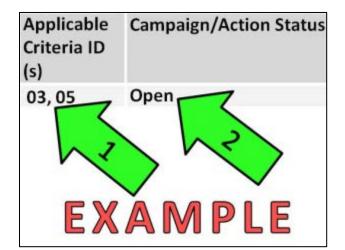
### **Work Procedure:**

# **SECTION A: Identify Criteria and Check for Open Status**



 Note: Any Update Programming procedure (flash) may overwrite any "TUNED" ECM or TCM programming. A "TUNED" ECM or TCM is described as any ECM or TCM altered so as to perform outside the normal parameters and specifications approved by Audi. Current Tuned ECM or TCM requirements: If you encounter a vehicle with a "Tuned" ECM or TCM, your dealership must do the following before performing any procedure that updates ECM or TCM programming:

- Notify the owner that their ECM or TCM was found to have been tuned
- Notify the owner that any damage caused by the tuning of the ECM or TCM (including any adverse emissions consequences) will not be covered by any Audi warranty.



Enter the VIN in ElsaWeb and proceed to the "Campaign/Action" screen.



Iip: On the date of repair, print this screen and keep a copy with the repair order.

- ← Ensure that the Status is "Open" <arrow 2>.
- ← Note the Applicable Criteria ID for use in determining the correct work to be done and corresponding parts associated <arrow 1>.



Tip: Multiple criteria possible.

# Check criteria then proceed to:

- Section B for criterion 04,
- Section E for criterion 03, or
- Section H if only criteria 01 or 02.

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# **SECTION B – Spyder Preparation – Criterion 04 Vehicles Only**

- Write down all of the customer's radio station presets.
- Disconnect battery.
- Cover and tape the side panels and the convertible soft top panel.



# CAUTION:

This ensures paint damage will be avoided while assembling and disassembling the service door.

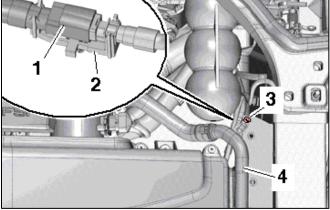
- Assemble the side panel covers (VAS 6428) and rear cover (VAS 6411).
- Remove the oil cap and cover the oil fill opening.



### CAUTION:

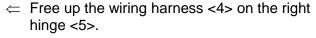
Removing oil cap will help prevent damage while assembling and disassembling the air box.

- injection hose <4>.
- □ Remove the connector <1> from the bracket <2> and disconnect it.





Tip: Note service door position with masking tape and marker.



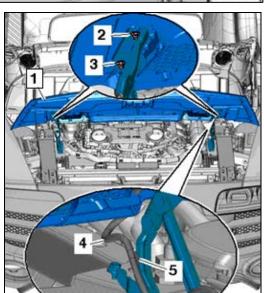
- Loosen the nut <2> two turns.
- Repeat on other side.



# WARNING:

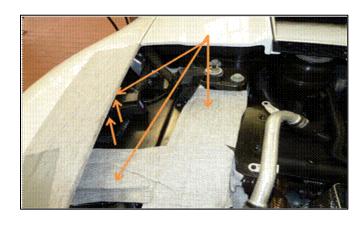
A second technician is needed to support and hold the servicing door.

- Disengage the left and right gas-filled struts for the servicing door.
- with a second technician.

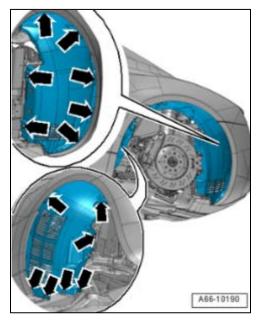


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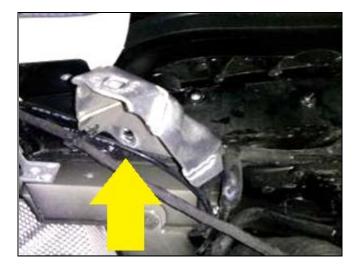
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The space around the ECMs should be additionally protected with suitable tape, especially the edges of the side panels.



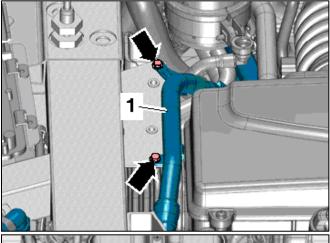
- Remove both rear wheels.
- Remove both left and right rear wheel housing liners by removing screws <arrows>.

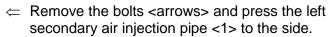


- Remove right side air intake snorkel.
- Remove right fender support bracket <arrow>.

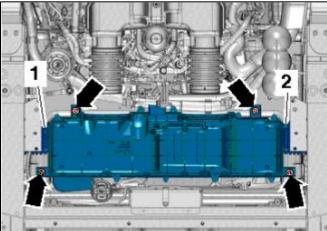
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• Repeat on right side of vehicle.



- Remove the air filter housing bolts <arrows>.
- Remove the boots <1 and 2> from the air filter housing.
- Remove air filter housing with the Mass Airflow (MAF) sensors.



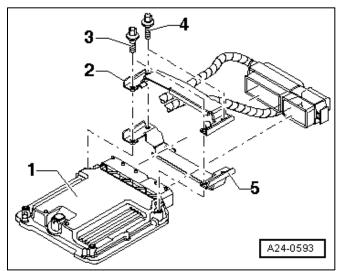
Tip: Block air intake to prevent any debris from entering the engine.

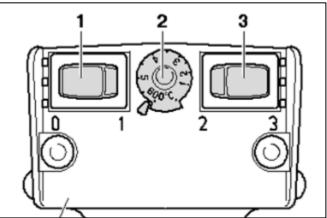


Remove vacuum reservoir <circle> hold-down bolts on right side of engine compartment to gain better access to wiring harness.

Remove ECM hold-down bolts.

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- ← The ECM <1> is secured in a protective housing <5> and shear bolts <3 and 4> to make it more difficult to access.
- ← The threads of the shear bolts <4> (that are not) installed in ECM) are coated with locking compound and must be heated to remove.



# **CAUTION:**

The threads of both shear bolts <3> (that are installed in the ECM) are not coated with locking compound. The threads in the ECM housing must not be heated (unintentional heating the ECM).

Adjust the settings on the hot air gun (VAS) 1978/14A or equivalent) with the temperature control <2> at the maximum setting and the two-stage air flow switch <3> set to level 3.

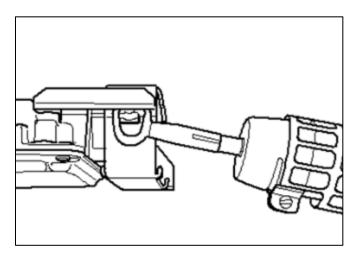


# MARNING:

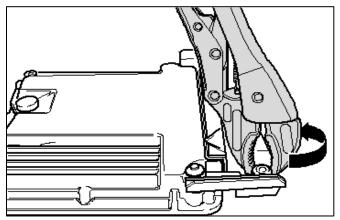
When heating threads of shear bolts, components of protective housing are also heated intensely. Do not burn yourself on this! Make sure that only the threads are heated as much as possible, and not any of the surrounding parts. Grinding and drilling is not permitted.

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← Heat threads on connector-side shear bolts for approximately 25 to 30 seconds with VAS 1978/15A or equivalent.



Remove shear bolts with locking pliers (see direction of <arrow>).



Note: The shear bolts installed in the ECM do not need to be heated for removal. They should be removed without heat.

Repeat for other ECM.

The harness requires extra slack to remove ECM 2 (J624, driver's side). Unclip harness hold-downs to provide slack.



# CAUTION:

Be careful to not damage harness holddowns while unclipping.

Mark ECMs so they are not interchanged; disconnect and set aside.



# WARNING:

The ECMs are not interchangeable. Reinstalling them in the wrong location will cause damage.

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Remove ground wire <circle> at ECM 1 (J623, passenger's side).



Release harness holder from frame in right fender well.

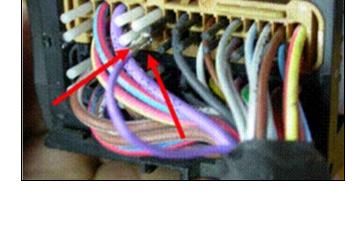
Pull the harness <arrows> down through the frame opening, into the wheel well, to provide working room for new harness installation.



(Arrow 1) Lug.

(Arrow 2) Terminal lock.

- Locate the smaller T60 connector from ECM 2 (J624, driver's side).
- Remove the tie wrap and release the cover with a small screwdriver on the smaller T60 (push the lug upwards away from the front of the plug, <arrow 1>).
- ← Pull out the terminal lock insert <arrow 2>.
- The terminal of the engine speed signal (purple wire) is in the brown housing element, located in **chamber 36**. Release the terminal using VAS1978/7A from the front side of the connector block, and gently remove wire.
- Repeat on the right side of vehicle: pull the purple wire from chamber 36 of the T60 connector on ECM 1.
- Proceed to Section C only if criterion 05 applies. Otherwise, proceed to Section D.



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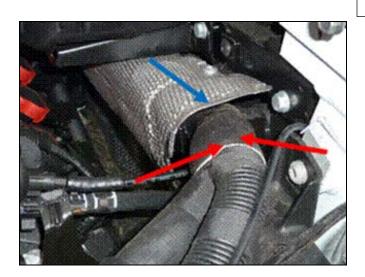
# **SECTION C – Remove Spyder Version 1** Harness - Criterion 05 Vehicles Only

Follow the version 1 harness back from ECM 2 and remove any tie wraps that were installed securing overlay to main engine harness. Do this all the way to the D90 connection point.



Tip: The D90 connection point of the engine speed signal wire is located on the right side of the engine compartment, just in front of the heat shield.

Mask the edge <blue arrow> of the heat shield with tape (risk of injury). Push back the protective hose <red arrows>.



- □ Remove hold down bolt for the harness holder <green circle>. Make sure that the other wires do not get damaged.
  - off 5 cm from D90 connection point < vellow circle>. Discard the overlay harness; it will no longer be used.



- Apply shrink tubing to remaining wire from the D90 connection. Shrink tubing with UT-100SI Ultratorch (or equivalent) and pinch the end of the tubing closed. Tape wire back in direction of the harness.
- Proceed to section D.

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# SECTION D: Installing Version 2 Harness on Spyder – Criterion 04 Vehicles Only

If the version 1 wiring harness was not installed: cut off wire terminal end and apply shrink tubing <red arrow> to wire from chamber 36 on both ECM1 & 2. Shrink tubing with UT-100SI Ultratorch (or equivalent). Pinch the end of the tubing closed <white arrow> and tape wire back in direction of the harness.



Note: The version 1 wiring harness is a previous repair that was not done on all vehicles.

- Remove the brown wire for the G28 engine speed signal to the T60 connector on ECM 1 (J623, passenger's side) from chamber 51 using VAS 1978/7A.
- Cut off wire terminals and apply shrink tubing <red arrow> on each wire. Then, heat tubing with UT-100SI Ultratorch (or equivalent) and pinch the end of the tubing closed. Tape wires back in direction of the harness.
- Strip the harness at the right side inside the wheel well, where the harness branches, and locate the D141 connection <yellow circle>.



# L CAUTION:

Do not confuse with any other connection in harness.

 Locate the D141 connection in engine wiring harness near the harness junction where the harness branches to the T60 and T94 ECM connector plugs. The D141 connection has five lilac (purple) and one wire that is black or gray. Do not confuse with any other connection in harness.



Tip: The D141 connection can be in slightly different locations on each wiring harness. In many cases, you can locate it by squeezing the harness before removing any tape.

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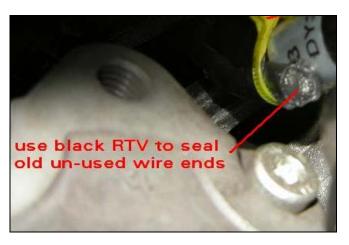
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Cut off the wire that is black or gray about 5 cm behind the crimp. The new harness will be connected to the remaining section of black wire from the D141 connection. Apply shrink tubing to the harness section of the black wire and heat tubing with UT-100SI Ultratorch (or equivalent). Pinch the end of the tubing closed and tape back in direction of the harness.



Disconnect the connector <arrow> to the G28 engine speed sensor on the left side of the transmission bell housing and cut off the connecter end as straight as possible. The original wiring to the sensor is no longer required.



Seal the G28 cable opening with silicone sealant.

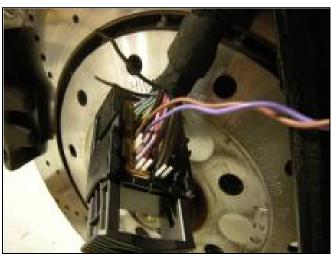
 Put the G28 plug of the repair harness on the engine speed sensor and tie wrap (N 909 377 02) following the original G28 harness. Keep harness away from sharp objects and the exhaust.

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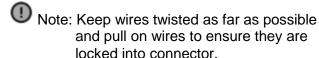
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The overlay harness should be routed along the main engine harness <arrows>.



← At ECM 1 (J623, passenger's side): plug the purple wire into chamber 36 and the brown wire into chamber 51 of the small plug (T60).



- Reinstall terminal locking tab.
- Tape harness with cloth tape (000 979 950).
- Reinstall connector cover.
- Install tie wrap (N 909 377 02).

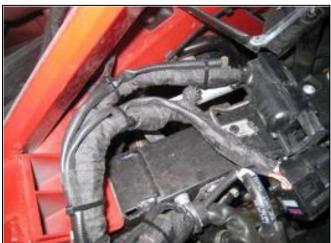


- Crimp the black wire <arrow> from the D141 connection to the new wire from the overlay harness. Use crimping pliers VAS 1978/1-2 with exchangeable head VAS 1978/1-1. Use yellow crimping slot 0.35-2.5mm and crimp connecter (000 979 940). Heat connector with UT-100SI Ultratorch (or equivalent).
- Install any harness covering that may have been removed and tape over exposed wires.
- Mark splice location with a wrap of yellow tape on outside of harness.

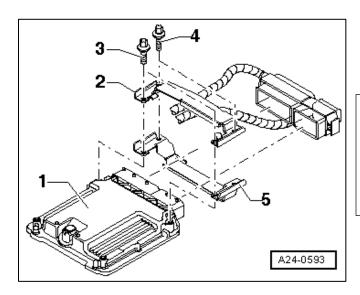
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← Route the overlay < circle> to ECM 2. Follow the harness through the splash shield into the wheel house.



- For ECM 2 (J624, driver's side), put the purple wire into chamber 36 of the T60 plug. Pull on the wire to ensure that it is locked into the connector.
- Install terminal locking tab.
- Tape harness with cloth tape (000 979 950).
- Reinstall connector cover.
- Install tie wrap (N 909 377 02).



- Install tie wraps (N 909 377 02) every 8 inches following main engine harness. Do not overtighten.
- ← Connect ECM 1 to both wiring harnesses. Reconnect ECM holders <2> and <5> with new shear bolts <3> (N 910 238 02) and <4> (N 909 803 04 with locking compound), then reinstall.



# CAUTION:

Be sure to install shear bolts <4> with locking compound into the correct position. Put the shear bolts <3> without locking compound into the ECM.

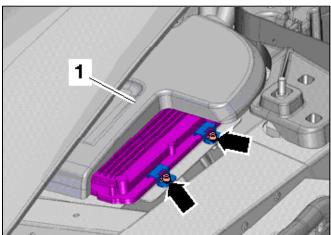
Repeat on other side.

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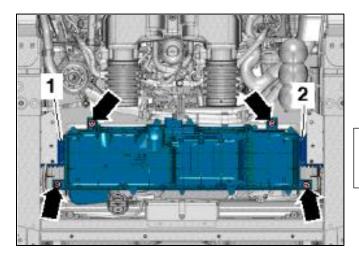
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← Reconnect ground < circle > from ECM 1.



Secure ECM with locking tabs <arrows> and put cover <1> back in position on both sides of vehicle.



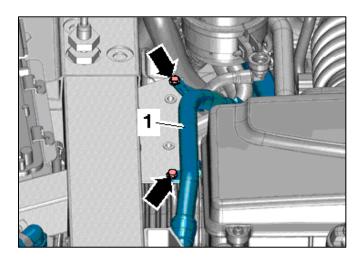
- Carefully reinstall air filter housing with MAF. Secure with bolts <arrows> and torque to 8 Nm.
- · Reconnect air snorkel on left.
- · Reconnect all hoses with hose clamps.



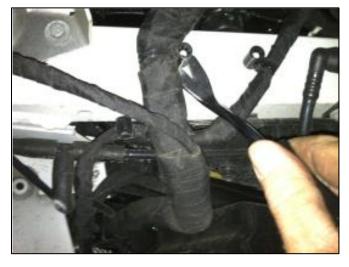
Tip: Block air intake to prevent any debris from entering the engine.

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Reconnect the left secondary air injection tube <1> with 2 bolts <arrows>.



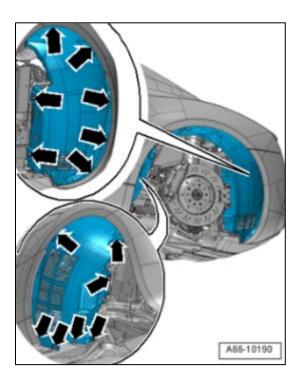
- Uncover the oil fill opening and put the oil cap back into position.
- Put harness holder back on frame (picture shows removal).



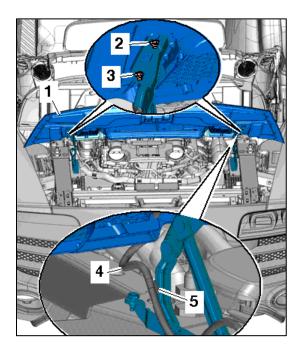
Reinstall fender support bracket <arrow>

Reinstall the air snorkel on the right side.

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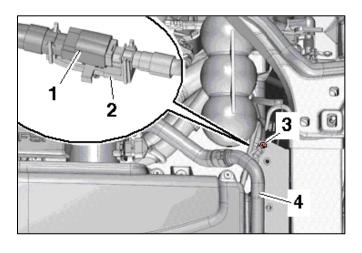


Reinstall fender liners with bolts <arrows> torqued to 4 Nm.



- Reinstall wheels and torque wheel bolts to 120 Nm.
- Reinstall servicing door with help from a second technician. Position the door on the hinges using the masking tape markings you made during removal. Torque the nuts <2> and <3> to 23 Nm.
- Reinstall gas filled struts and ensure clip is engaged.
- ← Reattach wiring harness <4> to hinge <5>.
- Remove all protective tape from both sides.

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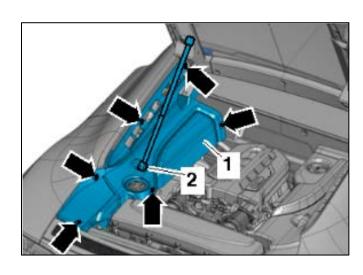


- Reconnect connector <1>, then put back into bracket <2> ensuring that it is clipped into place.

- Remove protective covers (VAS 6411 and VAS 6428) and any remaining protective tape.
- Reconnect battery.
- Re-set the customer's preset radio stations and window pinch protection.
- Start engine and let idle for one minute to verify vehicle is running correctly.
- All Dealers Proceed to Section H if vehicle meets criterion 01. Otherwise, work complete (except for California Dealers – Proceed to Section I).

# SECTION E – Coupe Preparation – Criterion 03 Vehicles Only

- Write down all of the customer's radio station presets.
- Disconnect battery.
- Assemble the side panel covers (VAS 6412) and rear cover (VAS 6411).
- Remove quick release fasteners <arrows> and cap from power steering fluid reservoir.
- Release gas-filled strut <2> by pulling clip with small screwdriver while having a second technician support the lid.
- Raise the back of the engine compartment trim <1> and guide the front of it out at the lid hinge.
- Press the strut back onto the ball stud.
- Put cap from power steering fluid reservoir back into position.
- Repeat on other side.



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Remove the oil cap and cover the oil fill opening. This will help prevent damage to the oil cap while assembling and disassembling the air box.



Removing oil cap will help prevent damage while assembling and disassembling the air box.

- ← The ECM <1> is secured in a protective housing <5> and shear bolts <3 and 4> to make it more difficult to access.
- ← The threads of the shear bolts <4> (that are not) installed in ECM) are coated with locking compound and must be heated to remove.

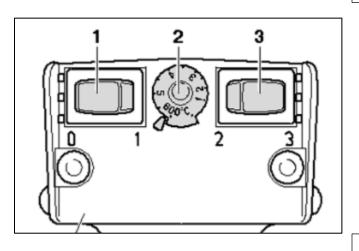


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### **CAUTION:**

The threads of both shear bolts <3> (that are installed in the ECM) are not coated with locking compound. The threads in the ECM housing must not be heated (unintentional heating the ECM).

Adjust the settings on the hot air gun (VAS) 1978/14A or equivalent) with the temperature control <2> at the maximum setting and the two-stage air flow switch <3> set to level 3.



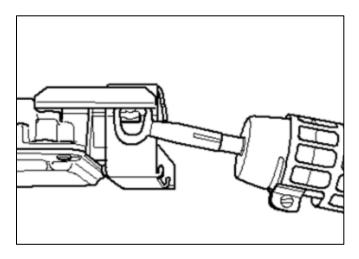


# MARNING:

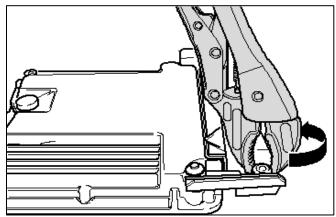
When heating threads of shear bolts, components of protective housing are also heated intensely. Do not burn yourself on this! Make sure that only the threads are heated as much as possible, and not any of the surrounding parts. Grinding and drilling is not permitted.

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← Heat threads on connector-side shear bolts for approximately 25 to 30 seconds with VAS 1978/15A.



Remove shear bolts with locking pliers (see direction of <arrow>).



 Note: The shear bolts installed in the ECM do not need to be heated for removal. They should be removed without heat.

Repeat for other ECM.



Be careful to not damage harness hold-downs while unclipping.

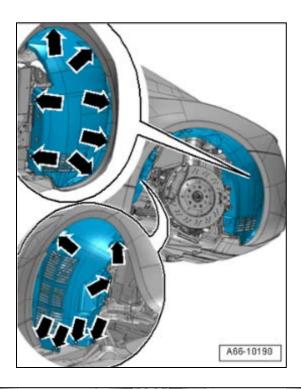
Mark ECMs so they are not interchanged; disconnect and set aside.



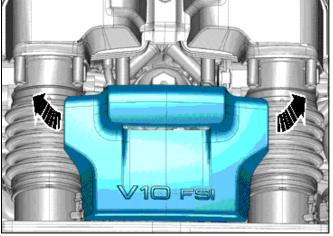
The ECMs are not interchangeable. Reinstalling them in the wrong location will cause damage.

Remove left rear wheel.

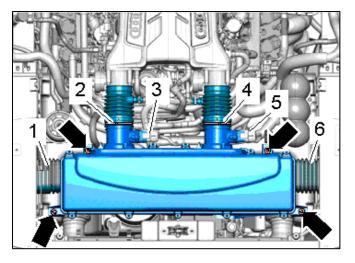
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Remove left rear wheel housing liner by removing the bolts <arrows>.



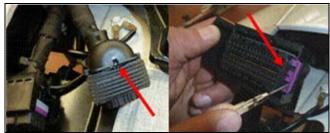
Remove the engine cover <arrows>. Do not jerk or pull it to one side.



- Disconnect electrical connection from Mass Airflow (MAF) sensors <3 and 5>.
- ← Remove bolts <arrows>.
- Remove the air filter housing with MAF sensors.

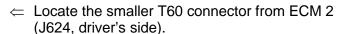
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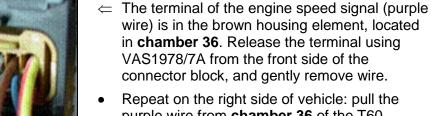


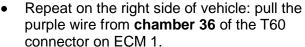
(Arrow 1) Lug.

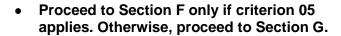
(Arrow 2) Terminal lock.



- with a small screwdriver on the smaller T60 (push the lug upwards away from the front of the plug, <arrow 1>).
- Pull out the terminal lock insert <arrow 2>.





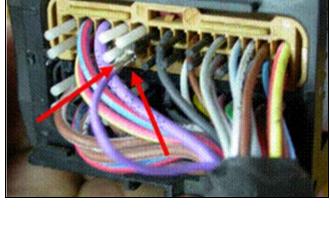


# **SECTION F – Remove Coupe Version 1 Harness** - Criterion 05 Vehicles Only

Follow the version 1 harness back from ECM 2 and remove any tie wraps that were installed securing overlay to main engine harness. Do this all the way to the D90 connection point.

Tip: The D90 connection point of the engine speed signal wire is located on the right side of the engine compartment, just in front of the heat shield.

and cut 5 cm from connection point. Discard the overlay harness; it will no longer be used.





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- Apply shrink tubing to remaining wire from the D90 connection. Shrink tubing with UT-100SI Ultratorch (or equivalent) and pinch the end of the tubing closed. Tape wire back in direction of the harness.
- Proceed to section G.

# **SECTION G: Installing Version 2 Harness on Coupe**

If the version 1 wiring harness was not installed: cut off wire terminal end and apply shrink tubing <red arrow> to wire from chamber 36 on both ECM1 & 2. Shrink tubing with UT-100SI Ultratorch (or equivalent). Pinch the end of the tubing closed <white arrow> and tape wire back in direction of the harness.



Note: The version 1 wiring harness is a previous repair that was not done on all vehicles.

- Remove the brown wire for the G28 engine speed signal to the T60 connector on ECM 1 (J623, passenger's side) from chamber 51 using VAS 1978/7A.
- Cut off wire terminals and apply shrink tubing <red arrow> on each wire. Then, heat tubing with UT-100SI Ultratorch (or equivalent) and pinch the end of the tubing closed. Tape wires back in direction of the harness.
- The D141 connection point <square> is on the right side of the compartment.





### **CAUTION:**

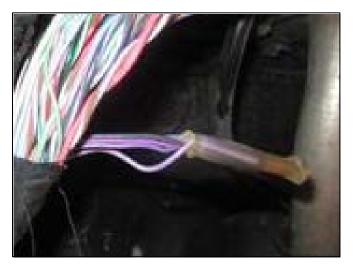
Do not confuse with any other connection in harness.

Locate the D141 connection in the engine wiring harness near the harness junction where the harness branches to the T60 and T94 ECM connector plugs. The D141 connection has five lilac (purple) and one wire that is black or gray.

Tip: The D141 connection can be in slightly different locations on each wiring harness. In many cases, you can locate it by squeezing the harness before removing any tape.

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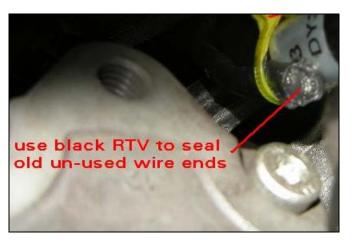
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Cut off the wire that is black or gray about 5 cm behind the crimp. The new harness will be connected to the remaining section of black wire from the D141 connection. Apply shrink tubing to the harness section of the black wire and heat tubing with UT-100SI Ultratorch (or equivalent). Pinch the end of the tubing closed and tape back in direction of the harness.



Disconnect the connector <arrow> to the G28 engine speed sensor on the left side of the transmission bell housing and cut off the connecter end as straight as possible. The original wiring to the sensor is no longer required.

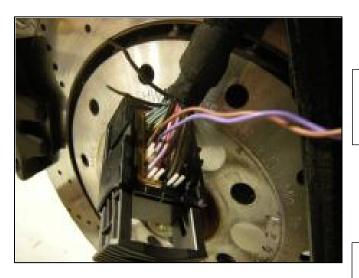


Seal the G28 cable opening with silicone sealant.

- Put the G28 plug of the repair harness on the engine speed sensor and tie wrap (N 909 377 02) following the original G28 harness. Keep harness away from sharp objects and the exhaust.
- The overlay harness should be routed along the main engine harness.

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← At ECM 1 (J623, passenger's side): plug the purple wire into chamber 36 and the brown wire into chamber 51 of the small plug (T60).



Note: Keep wires twisted as far as possible and pull on wires to ensure they are locked into connector.

- Reinstall terminal locking tab.
- Tape harness with cloth tape (000 979 950).
- Reinstall connector cover.
- Install tie wrap (N 909 377 02).



Tip: Picture shows Spyder, but Coupe wiring harness should look the same.



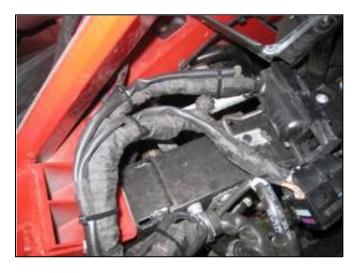
- ← Crimp the black wire <arrow> from the D141 connection to the new wire from the overlay harness. Use crimping pliers VAS 1978/1-2 with exchangeable head VAS 1978/1-1. Use yellow crimping slot 0.35-2.5mm and crimp connecter (000 979 940). Heat connector with UT-100SI Ultratorch (or equivalent).
- Install any harness covering that may have been removed and tape over exposed wires.
- Mark splice location with a wrap of yellow tape on outside of harness.



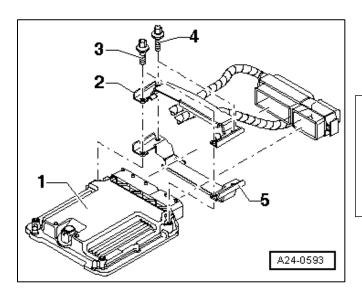
← Route the overlay < circle > to ECM 2. Follow the harness through the splash shield into the wheel house.

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- For ECM 2 (J624, driver's side), put the purple wire into chamber 36 of the T60 plug. Pull on the wire to ensure that it is locked into the connector
- Install terminal locking tab.
- Tape harness with cloth tape (000 979 950).
- Reinstall connector cover.
- Install tie wrap (N 909 377 02).



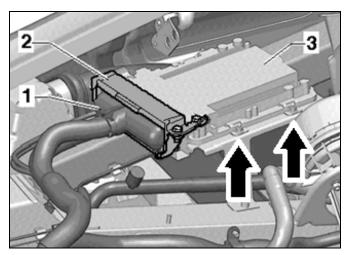
- Install tie wraps (N 909 377 02) every 8 inches following main engine harness. Do not overtighten.
- Connect ECM 1 to both wiring harnesses. Reinstall ECM holders <2> and <5> with new shear bolts <3> (N 910 238 02) and <4> (N 909 803 04 with locking compound), then reinstall.



### CAUTION:

Be sure to install shear bolts <4> with locking compound into the correct position. Put the shear bolts <3> without locking compound into the ECM.

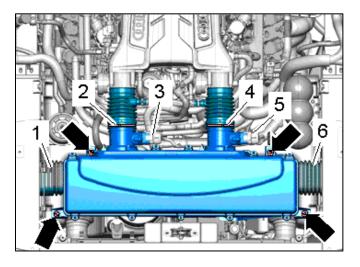
Repeat on other side.



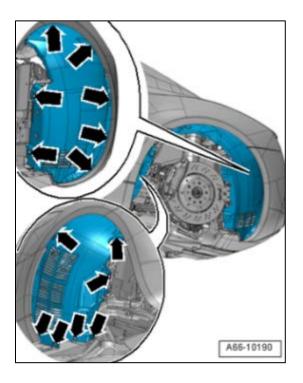
← Secure ECM with retaining clips <arrows>.

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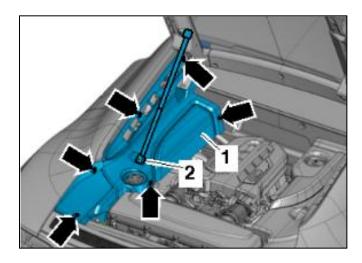
- Carefully reinstall air filter housing with MAF. Secure with bolts <arrows> and torque to 8 Nm.
- ← Reconnect air snorkels <1 and 6>.
- ← Reconnect and tighten hose clamps <2 and 4>.
- Make electrical connections to MAFs <3 and 5>.



- Uncover the oil fill opening and put the oil cap back into position.
- Reinstall fender liner with bolts <arrows> torqued to 4 Nm.

 Reinstall left rear wheel and torque wheel bolts to 120 Nm.

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- ← Remove cap from power steering fluid reservoir.
- ← Release gas-filled strut <2> by pulling clip with small screwdriver while having a second technician support the lid.
- ← Reinstall the engine compartment trim <1>.
- Press the strut back onto the ball stud.
- ← Put quick release fasteners <arrows> back in.
- Repeat on other side.
- Reinstall engine cover.
- Reconnect battery.
- Re-set the customer's preset radio stations and window pinch protection.
- Start engine and let idle for one minute.
- All Dealers Proceed to Section H only if criterion 01 applies. Otherwise, work complete (except for California Dealers -Proceed to Section I).

# SECTION H – Perform SVM Update – Criterion 01 or Criterion 02 Vehicles Only



# WARNING:

During the update, the engine cooling fans may turn on and/or the rear spoiler may raise to the extended position.



# CAUTION:

If you have been using covers, ensure they are removed before starting the SVM update. Leaving the cover on could cause damage to the spoiler.



Tip: Battery must have a minimum no-load charge of 12.5V.

- Connect vehicle to battery charger (VAS 5903 or equivalent). Do not use a trickle charger or battery maintainer.
- Turn off all electrical consumers.

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# CAUTION:

Keep all doors and trunk closed during SVM update. Remain at the tester during the entire process; no other work is to be performed during update.

Perform SVM update using SVM Code in table

Model	Engine	Old Software Part Number	Old Software Version (or lower)	New Software Part Number	New Software Version	SVM Action Code
R8 V10	BUJ 5.2 FSI	420 910 552 K	0020	424 910 552 G	0010	01A091
	BUJ 5.2 FSI	420 910 552 Q	0010	424 910 552 H	0010	24U8A001
R8 V8	CNDA 4.2 FSI	420 910 560 P	All	420 910 560 T	0010	01A106

Check and clear DTCs after SVM update.

FOR ALL EXCEPT CALIFORNIA DEALERS: ALL **WORK IS COMPLETE** 

**CALIFORNIA DEALERS ONLY: CONTINUE TO SECTION I** 

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# SECTION I – Campaign Completion Label (California Dealers Only)



Note: Vehicles repaired under this action in California are required to be identified with a campaign completion label when the work is performed. It is mandatory for all dealers in California to complete and Campaign Completion label, part number CAMP 010 000, whenever this campaign is performed. Labels can be ordered at no cost online via the Compliance Label Ordering portal at www.accessaudi.com.



Note: The California Air Resources Board and the Department of Motor Vehicles (DMV) require emissions-related campaigns to be completed prior to vehicle registration renewal. When campaign work is done you must provide the owner with a signed "Vehicle Emission Recall - Proof of Correction" certificate (RC EMISCAVWAU). Certificates can be ordered at no cost online via the Compliance Label Ordering portal www.accessaudi.com.

# Install Campaign Completion Label

Fill out and affix Campaign Completion label, part number CAMP 010 000, next to the vehicle emission control information label



Tip: Ensure Campaign Completion label does not cover any existing label(s)

Close hood

# **ALL WORK IS COMPLETE**

**Campaign Completion** SAGA CODE: DLR #: **REPAIR DATE:** CAMP 010 000

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# Owner Acknowledgement of Control Module Tuning and Authorization to Reprogram Control Modules



Date:					
Dealer Numb	er:				
	ification Number:				
Repair Order					
					Dealer stamp
			ponent that causes an A y Audi of America, Inc.	udi vehicle	to perform outside the
Ι,		owner or driver	of the above-identified	Audi, conf	irm:
□ Tunin	g (especially power-i	ncreasing modif	ications) has not been p	erformed o	on my vehicle.
□ Tunin	g has been performe	d on my vehicle.	The following compone	ents were n	nodified or installed:
	e provide the name aus to contact them:	and telephone n	umber of the company	that perfo	rmed the tuning if you
	control module (inc		rmined to have been to emissions consequence		
understand t	hat this process wil	l automatically	eflash (update) my con overwrite (destroy) and rol module of my Audi v	d permane	
			rstand that the tuning properties for the loss of tuning da		ill not be restored and
			Sign:	ature of Custo	nmer