

#TL100181

INSTALLATION MANUAL

CBK0050

APR RS6/RS7 Catback Exhaust

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Notes:

These instructions were written for a North American specification RS6, but other models like the RS7 are similar.

When disassembling the car, be sure to keep all fasteners so they can be reused. It is recommend that you get some kind of compartmented tray to organize the fasteners, such as a fishing tackle box or several large ice cube trays. Fasteners that are not reused for reinstallation are noted in the instructions. All directions used in this manual (right, left, front, etc.) are based on if you were sitting in the drivers seat of the car.

These instructions assume that you have basic mechanical skills and several varieties of basic hand tools in order to install the kit. If you have any questions about the install, feel free to contact your APR representative.



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4800 US HWY 280 West Opelika Alabama 36801

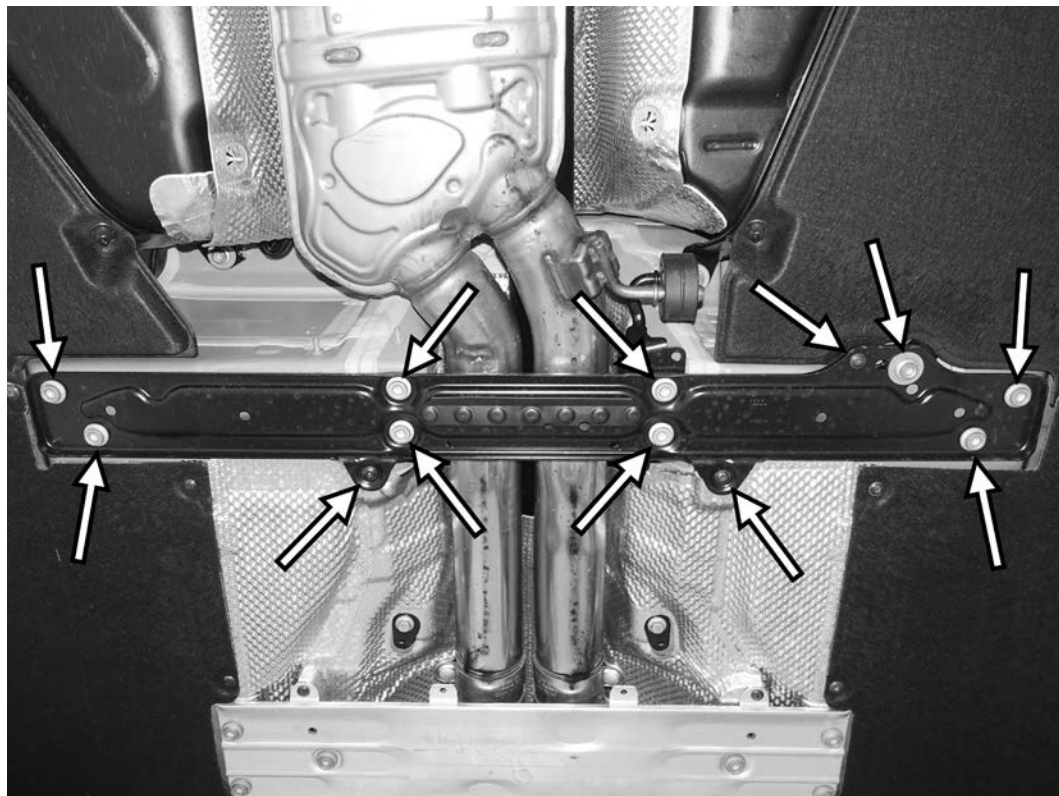
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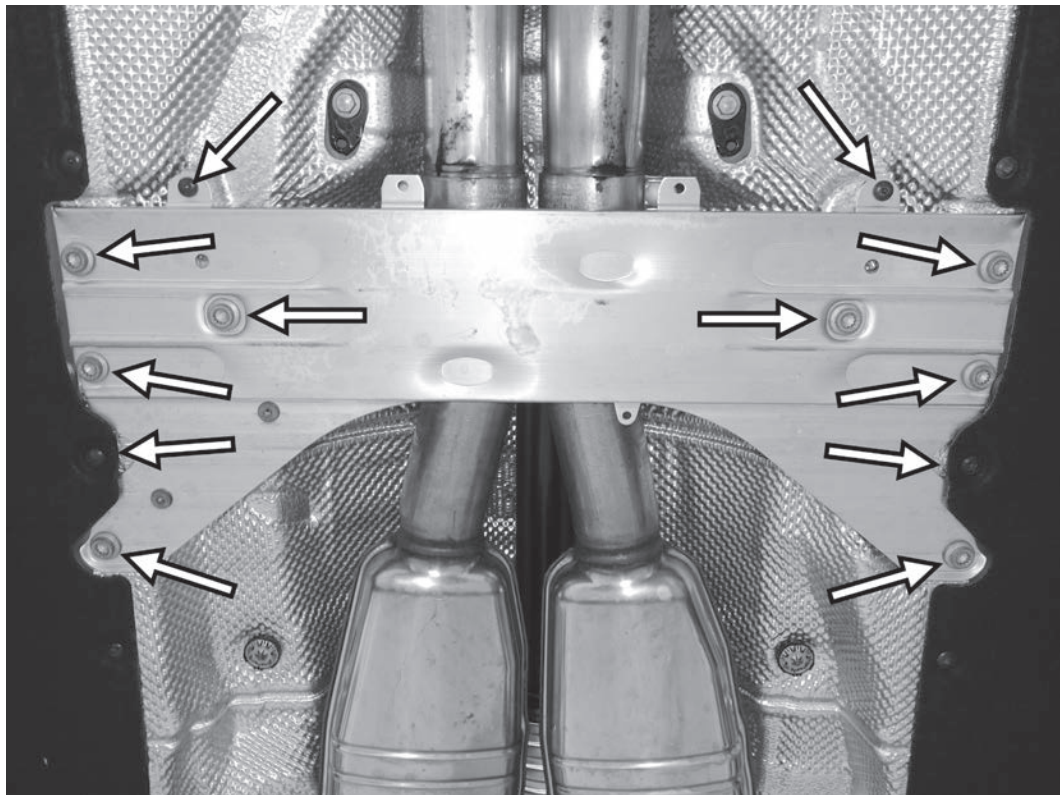
1) Securely support the vehicle on a lift or jack stands.

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2) From the rear cross brace, remove the three T25 screws, eight 12mm triple square screws, and one 10mm triple square screw. After noting how the cross brace interfaces with the adjacent panels, then remove the rear cross brace from the car.



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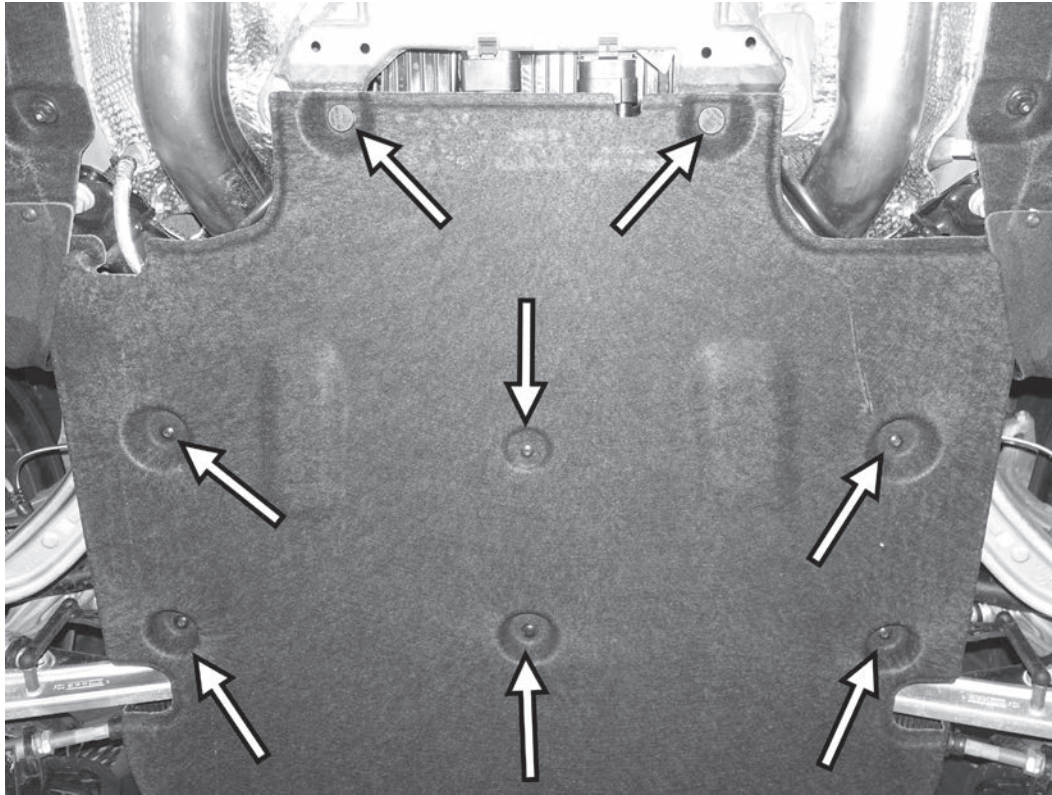
3) From the center cross brace, remove the four T25 screws and the eight 12mm triple square screws. After noting how the cross brace interfaces with the adjacent panels, and then remove the cross brace from the car.

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4) Remove the four 12mm triple square screws from the back of the factory chassis straps.



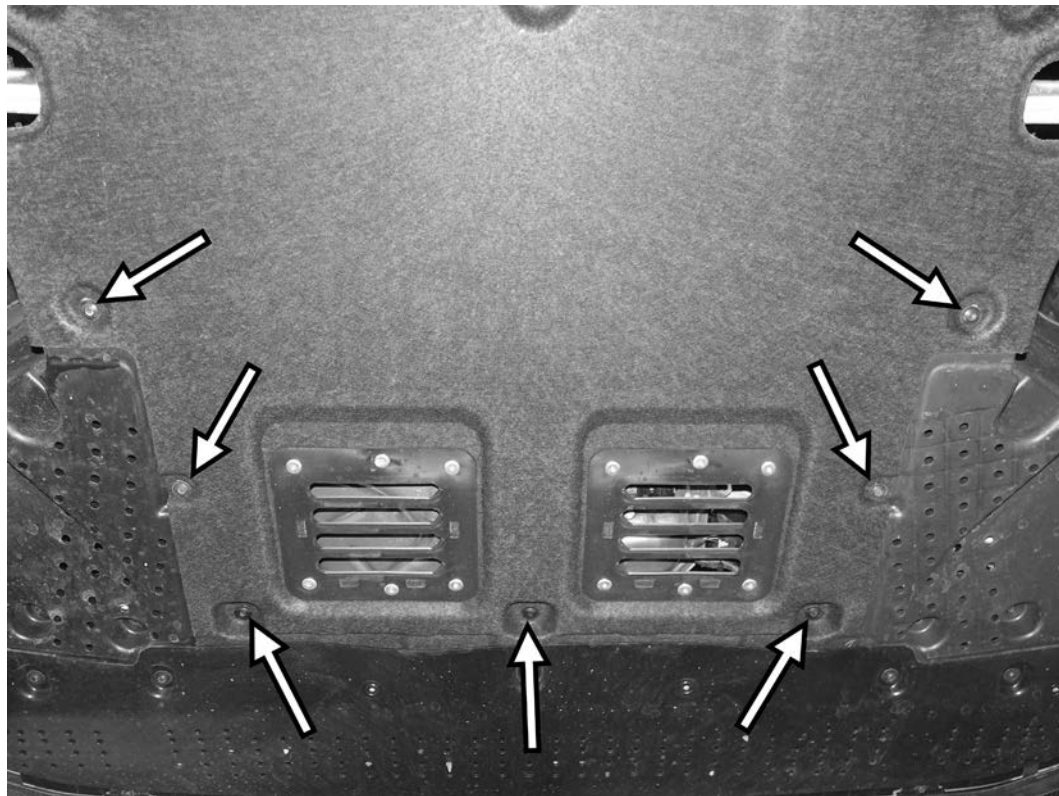
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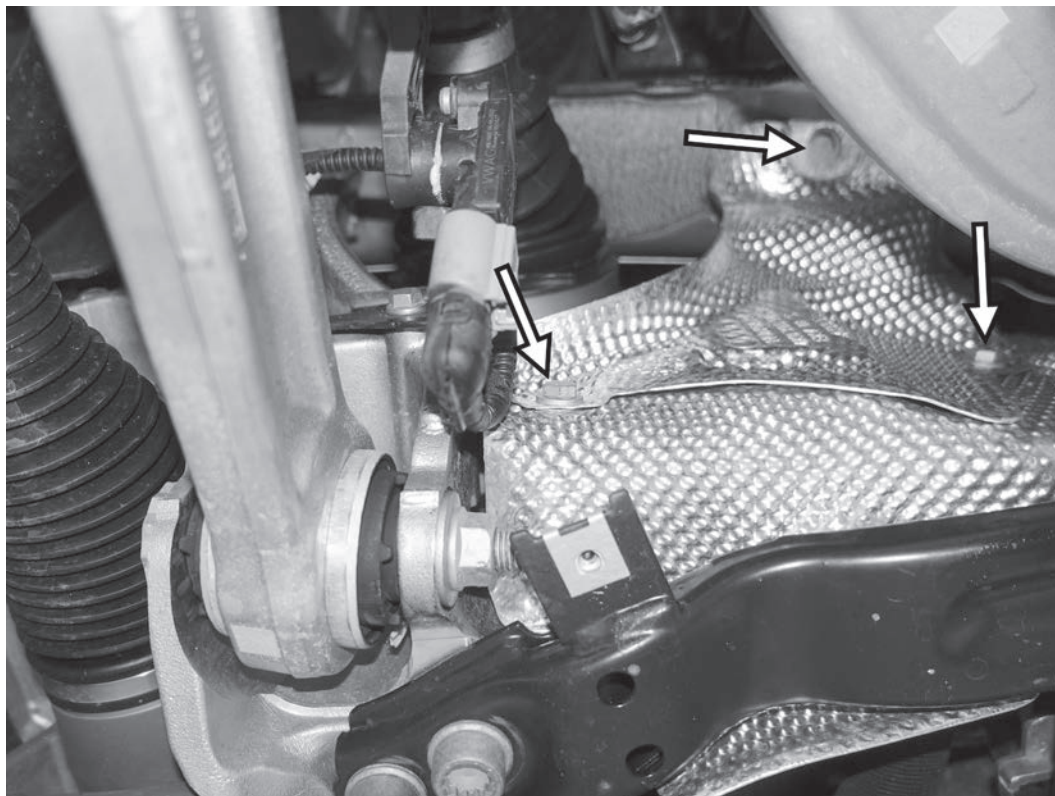
5) From the back of the front underbody panel, remove the two push pin style connectors and six T25 screws.

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6) From the front of the front underbody panel, remove the seven T25 screws and remove the front underbody panel from the car.

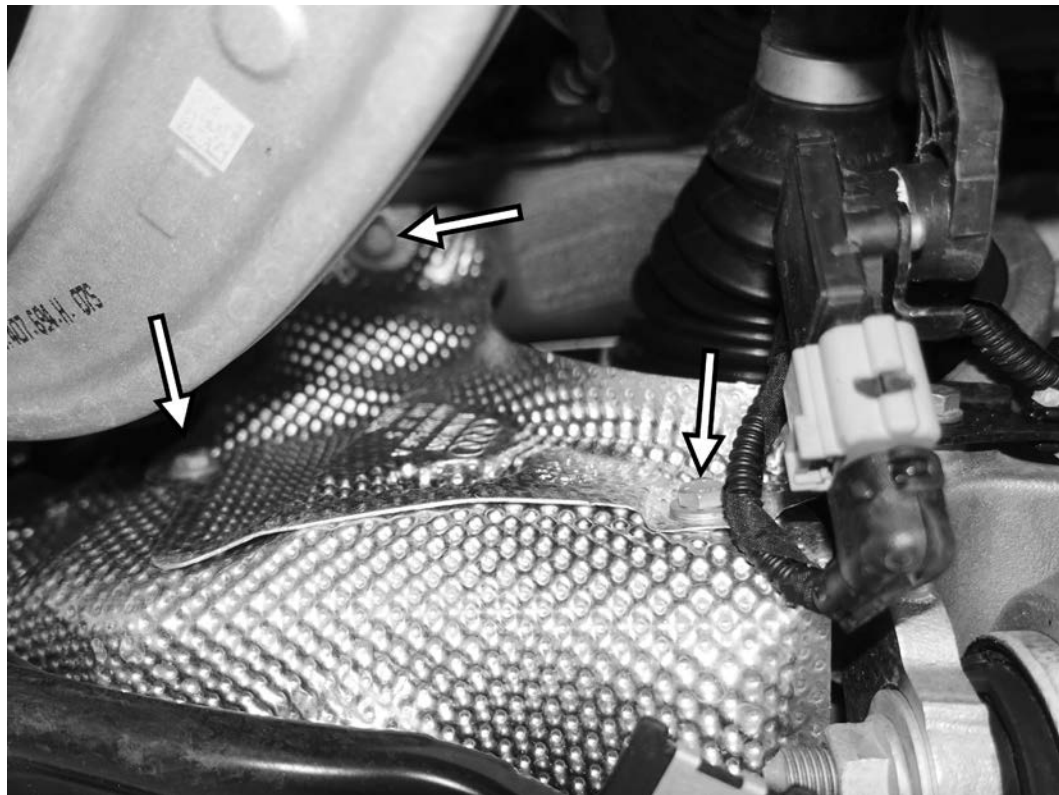


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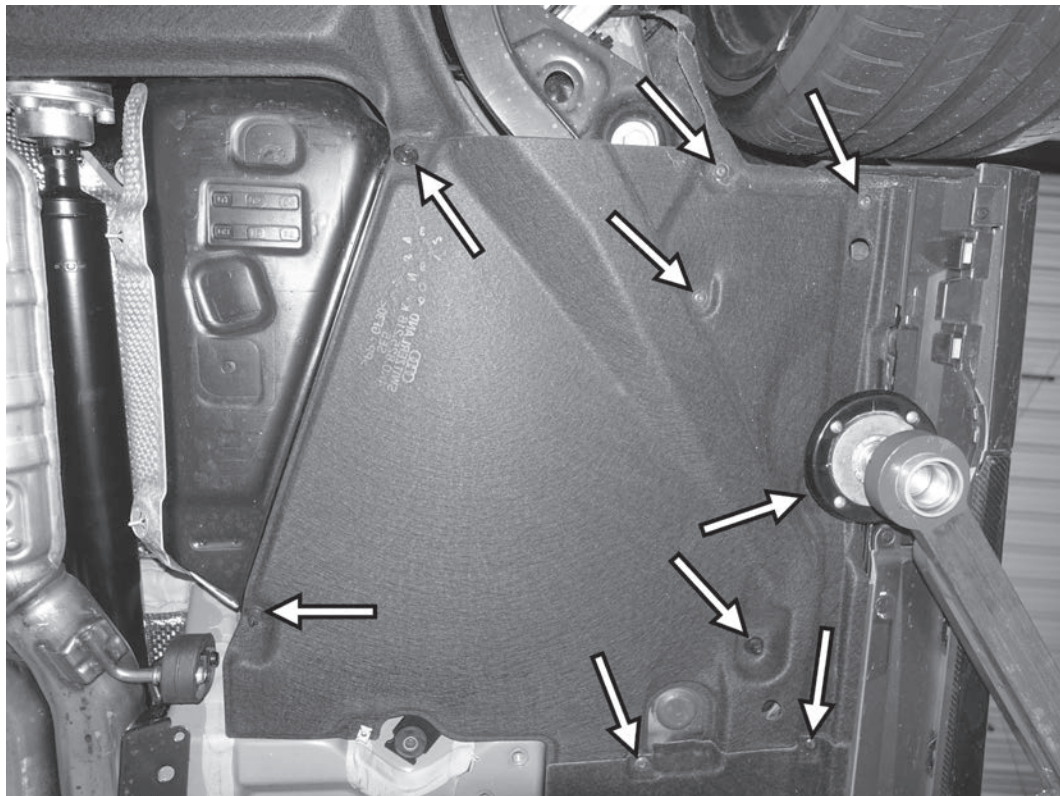


7) Remove the three 10mm screws holding the left upper subframe heat shield in place, and then remove the heat shield.

8) Remove the three 10mm screws holding the right upper subframe heat shield in place, and then remove the heat shield.



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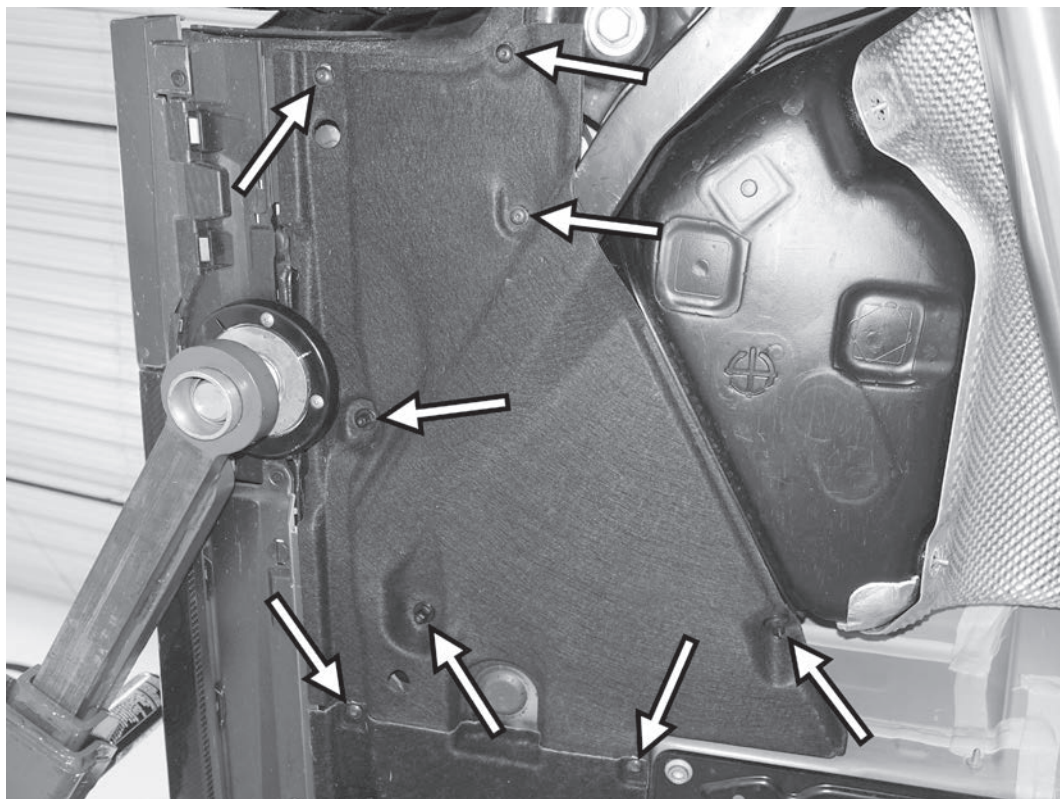
9) Remove the four 10mm nuts and five T25 screws from the right underbody panel in front of the right rear wheel, and then remove the panel from the car.

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10) Remove the four push pin connectors from the rear center underbody panel, and remove the panel from the car.



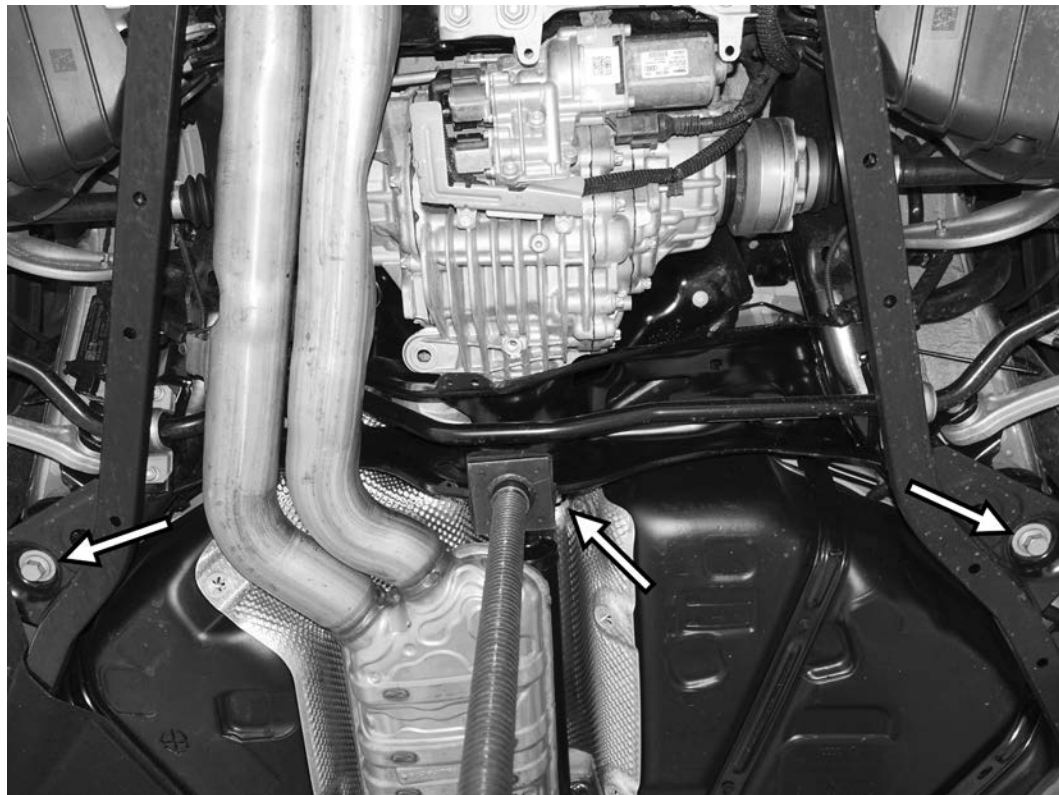
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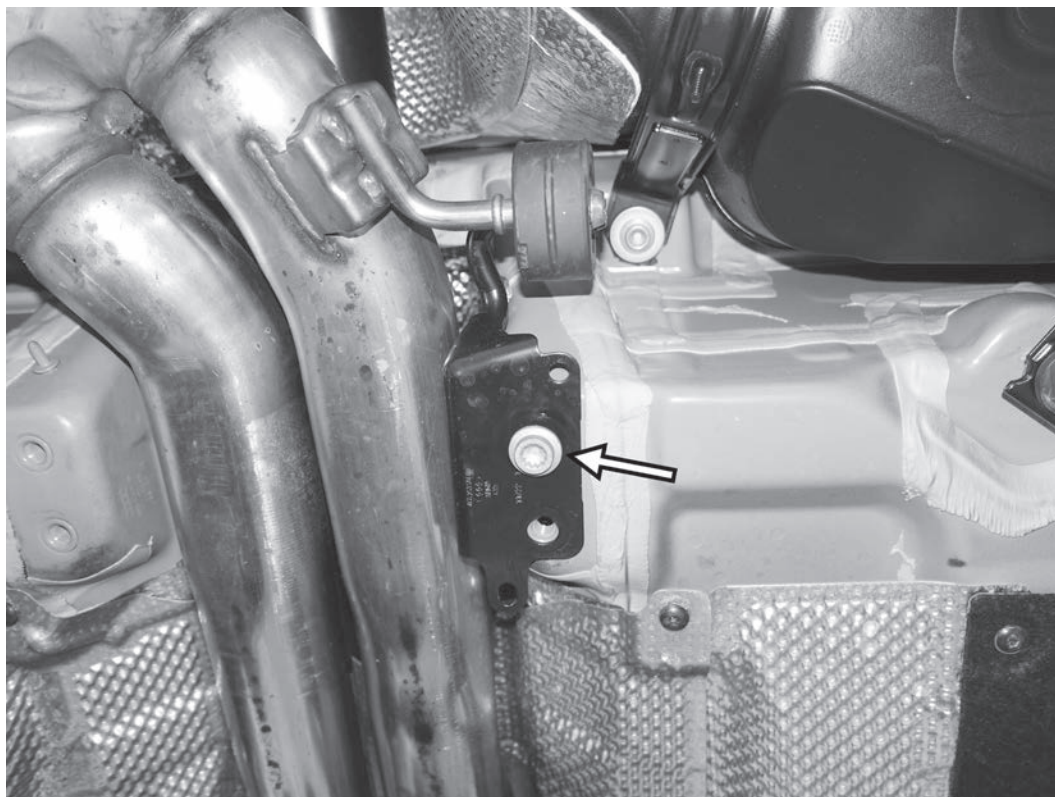
11) Remove the three 10mm nuts and five T25 screws from the left underbody panel in front of the left rear wheel, and then remove the panel from the car.

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12) Place a transmission jack or other support under the middle of the front side of the rear subframe. Remove the two 21mm bolts holding the front side of the rear subframe. Finally, remove the four 12mm triple square screws from the front of the factory chassis straps and remove both chassis straps from the car.

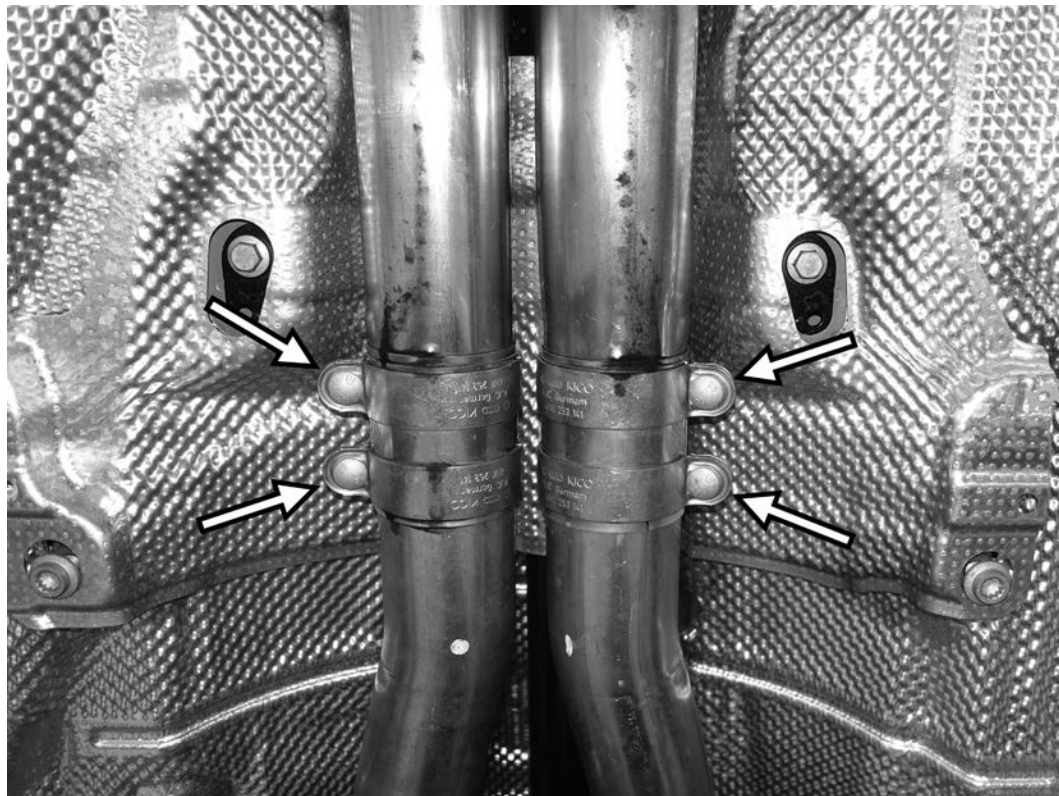


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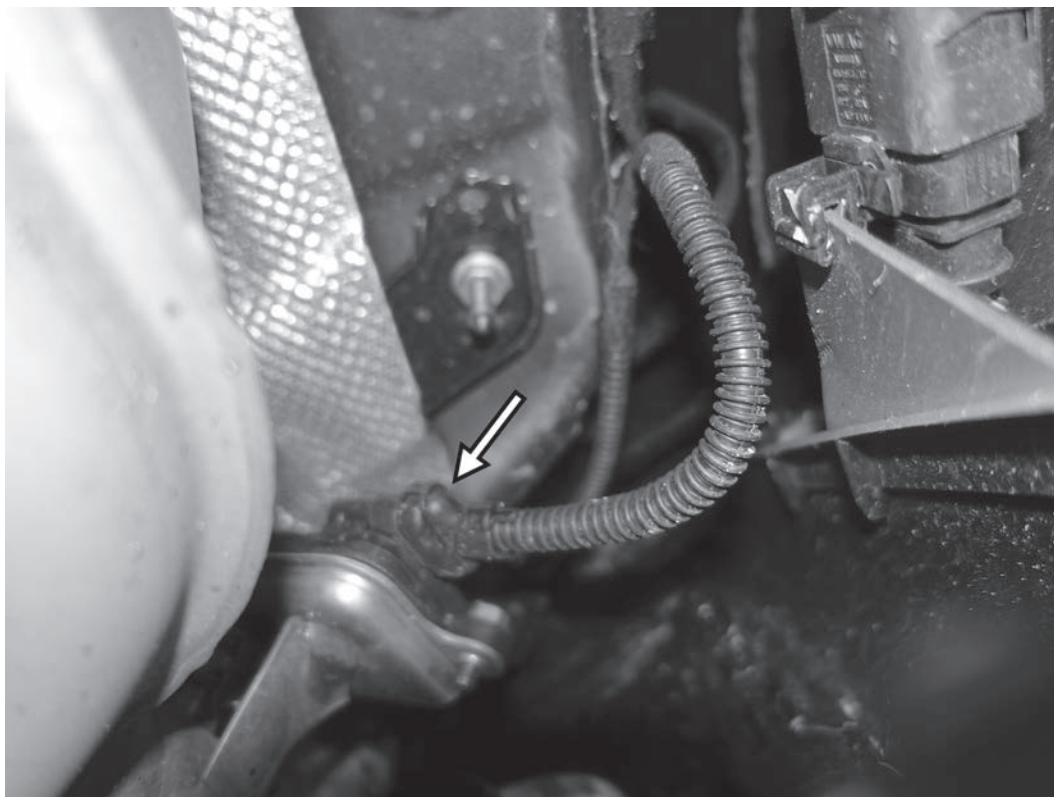


13) Reconnect the center exhaust hanger to the chassis with one of the 12mm triple square bolts from the rear cross brace.

14) Loosen and separate the four 13mm nuts on the two factory exhaust sleeve clamps holding the rear section of the exhaust to the front section of the exhaust.



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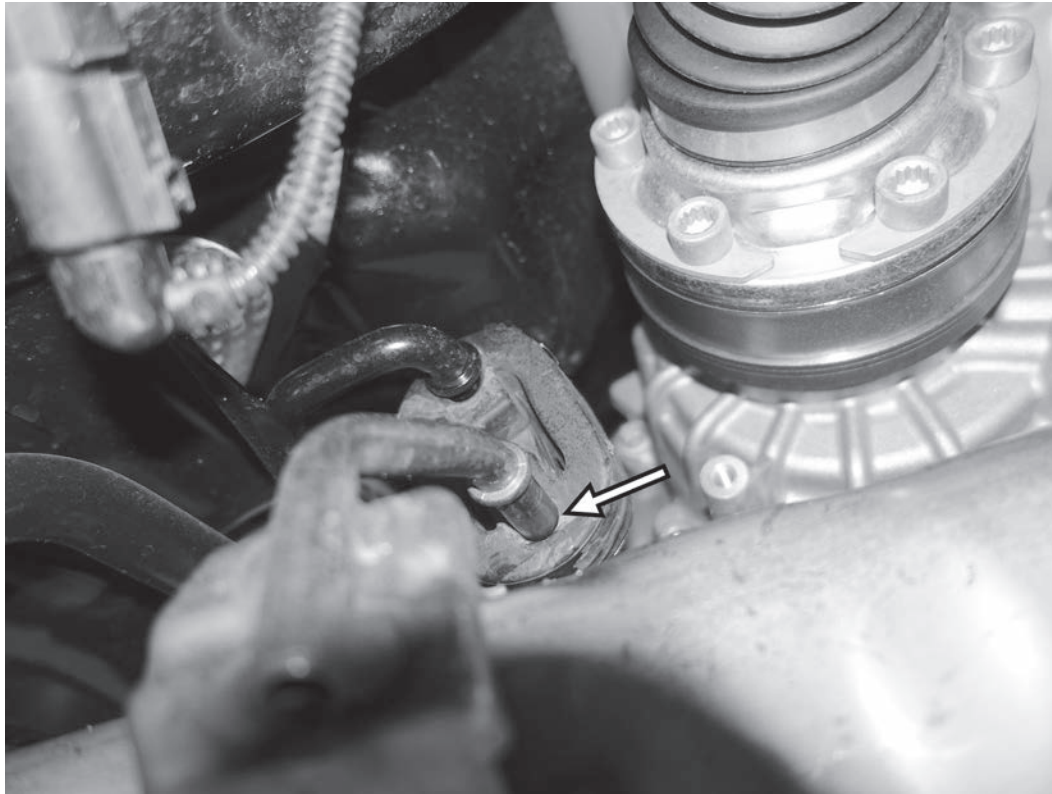


15) Disconnect the electrical connectors from both the left and the right exhaust valve motors, on the back of the rear mufflers.

16) Separate the rubber hangers from the front side of both rear mufflers, leaving the rubber hangers attached to the car.



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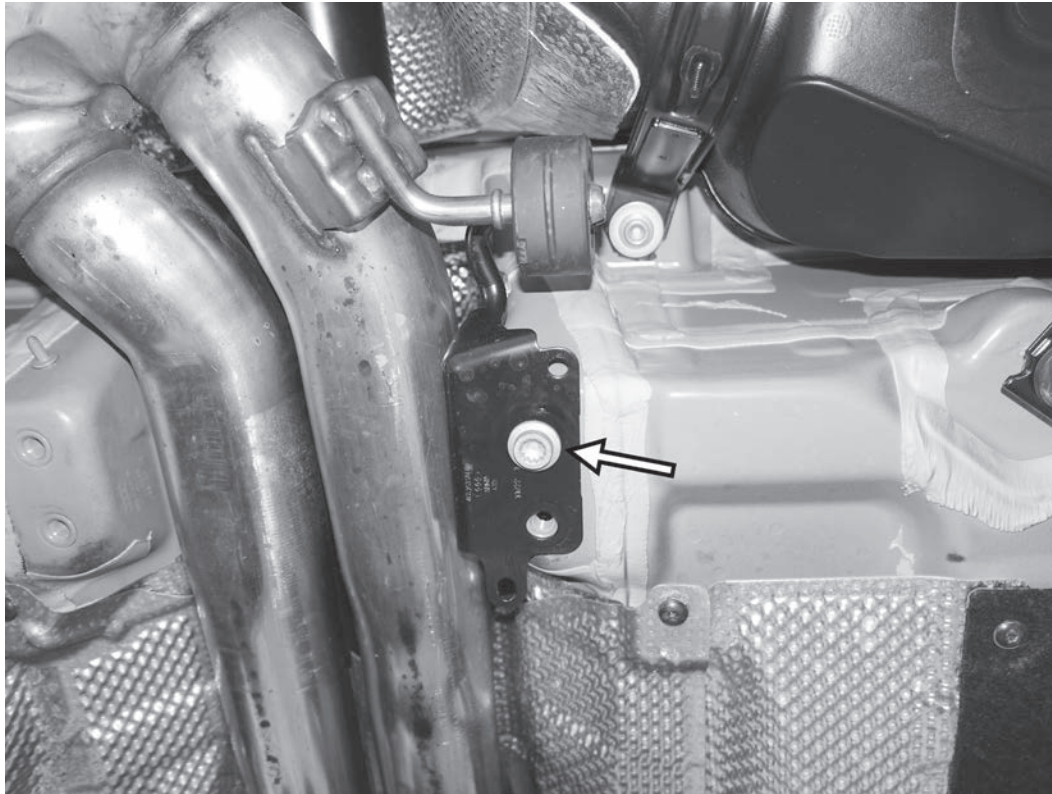


17) Separate the center of the rear exhaust assembly from the rubber hanger just in front of the rear differential. Leave the rubber hanger attached to the car.

18) With an assistant supporting the back of the rear exhaust assembly, remove the 13mm bolts holding the rear exhaust hanger brackets from the back of both rear mufflers. Note on the left hanger how the hanger has a metal bracket between the bolt and the metal hanger. The hanger will need to be removed from the bracket to separate it from the car.

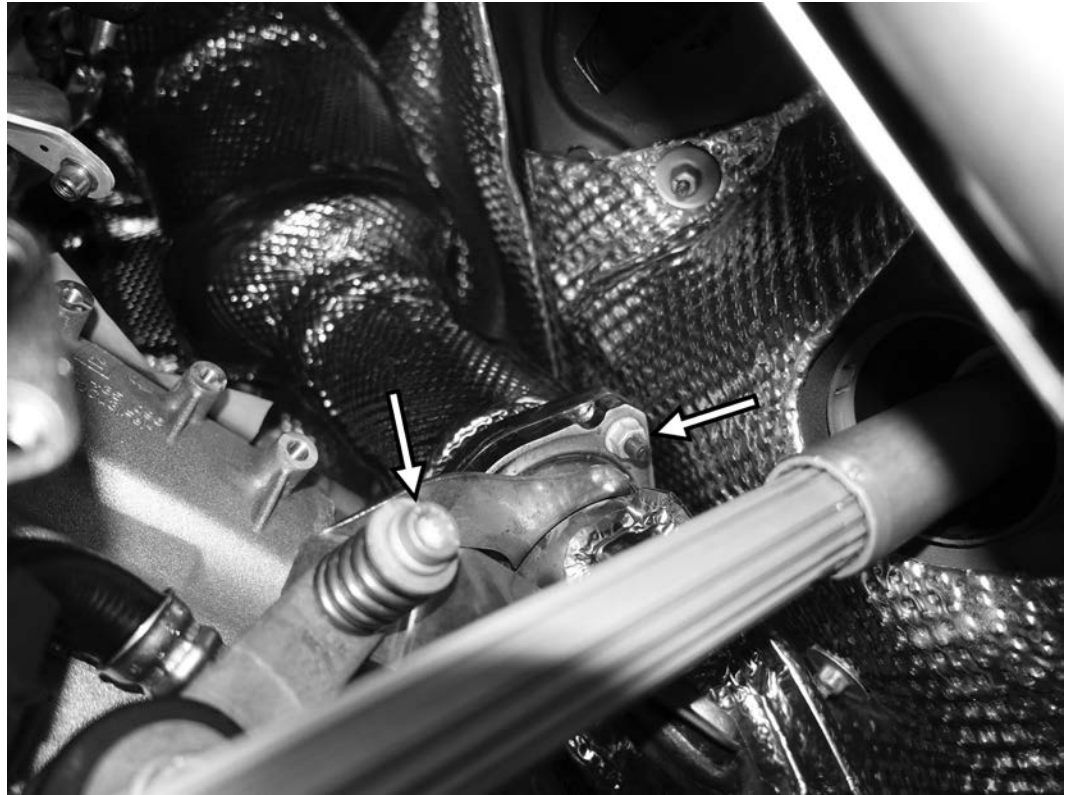


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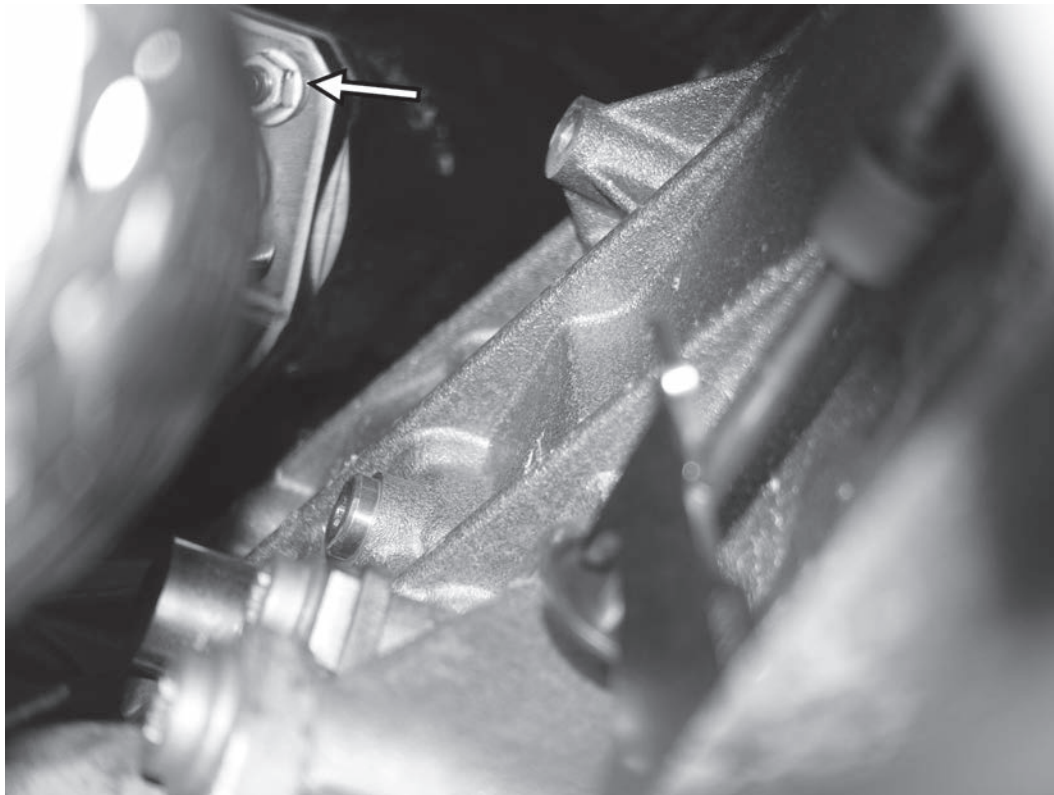


19) With an assistant supporting the back of the rear exhaust assembly, remove the one previously installed 12mm triple square bolt holding the hanger bracket at the center of the car. Lower the entire rear exhaust assembly and remove it from the car.

20) As seen from where the left upper subframe heat shield was, remove 10mm triple square from the spring hanger holding the left downpipe. Loosen and remove the 12mm nut from the top of the three bolt flange on the left uppipe.



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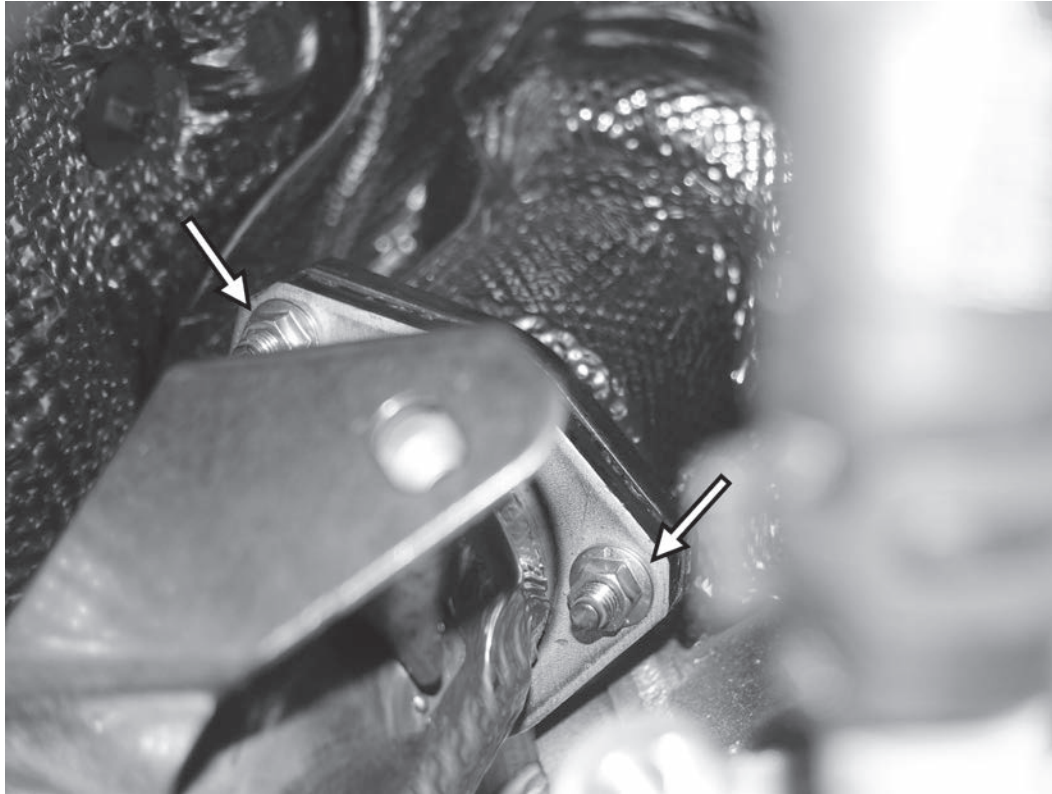


21) As seen from underneath the subframe, use extensions to remove the two remaining 12mm nuts from the three bolt flange. The left uppipe can now be removed from the car by twisting it and rotating it out from underneath.

22) As seen from where the right upper subframe heat shield was, remove 10mm triple square from the spring hanger holding the right downpipe.



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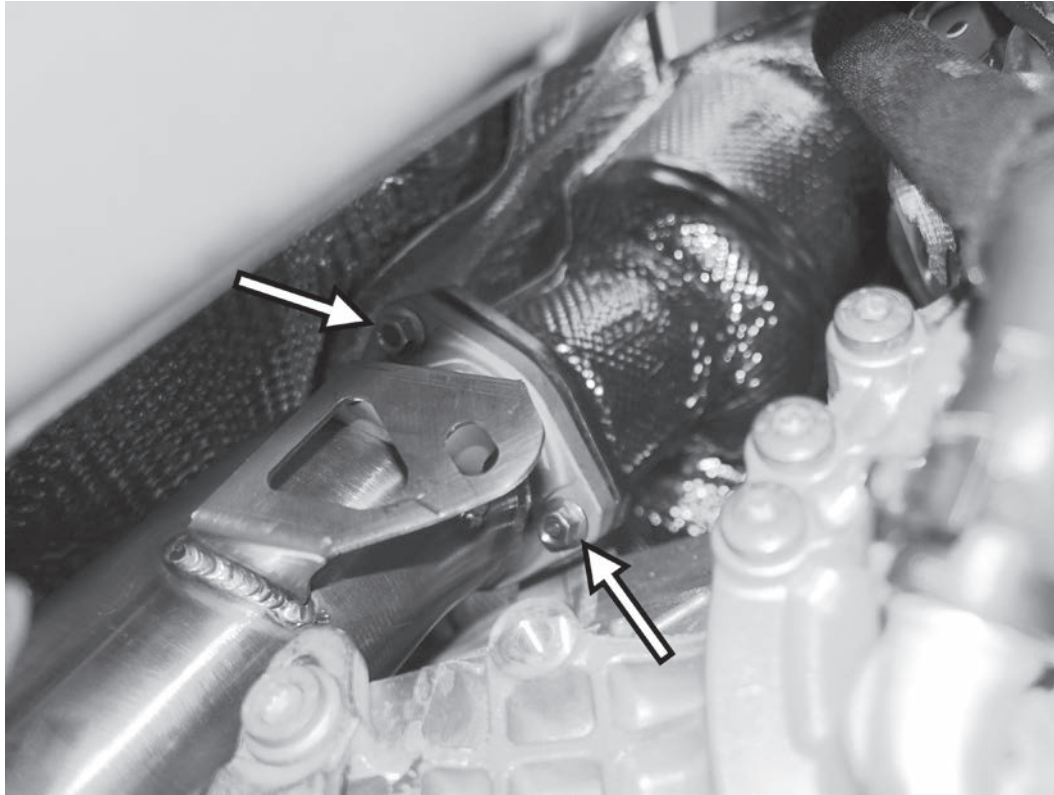


23) As seen from where the right upper subframe heat shield was, use extensions to remove the three 12mm nuts from the three bolt flange. The right uppipe can now be removed from the car by twisting it and rotating it out from underneath.

24) Remove the old gaskets from the bottom of both stock catalysts, and replace them with the new supplied gaskets.



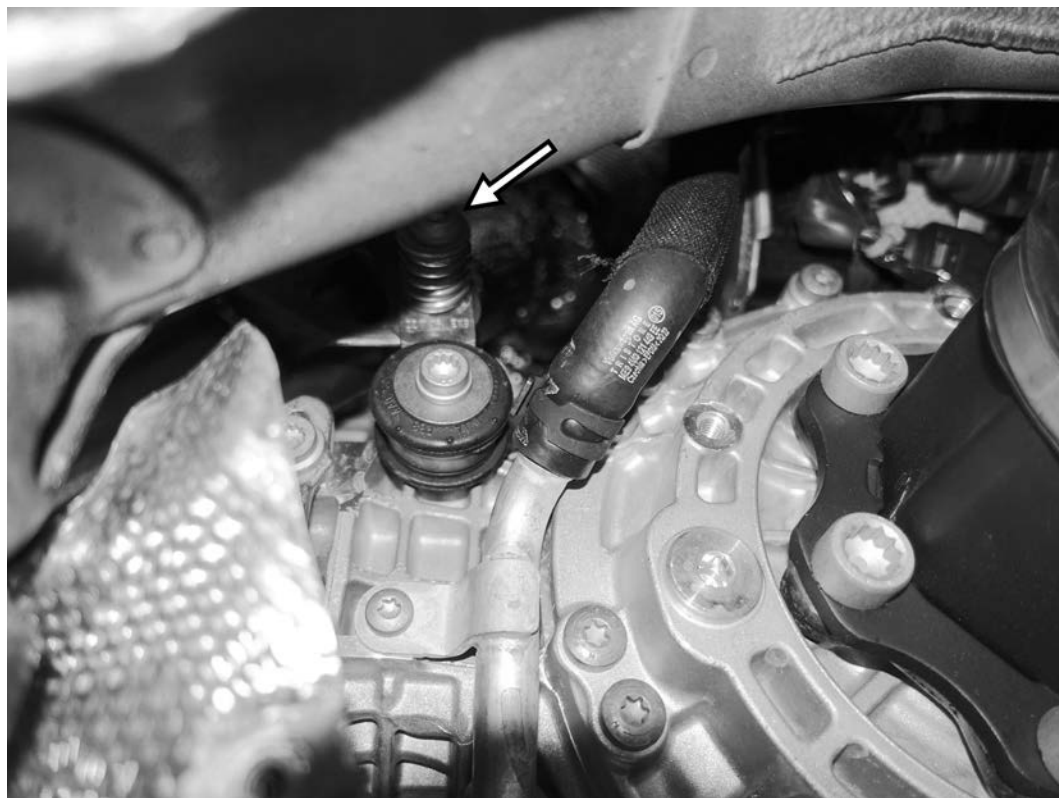
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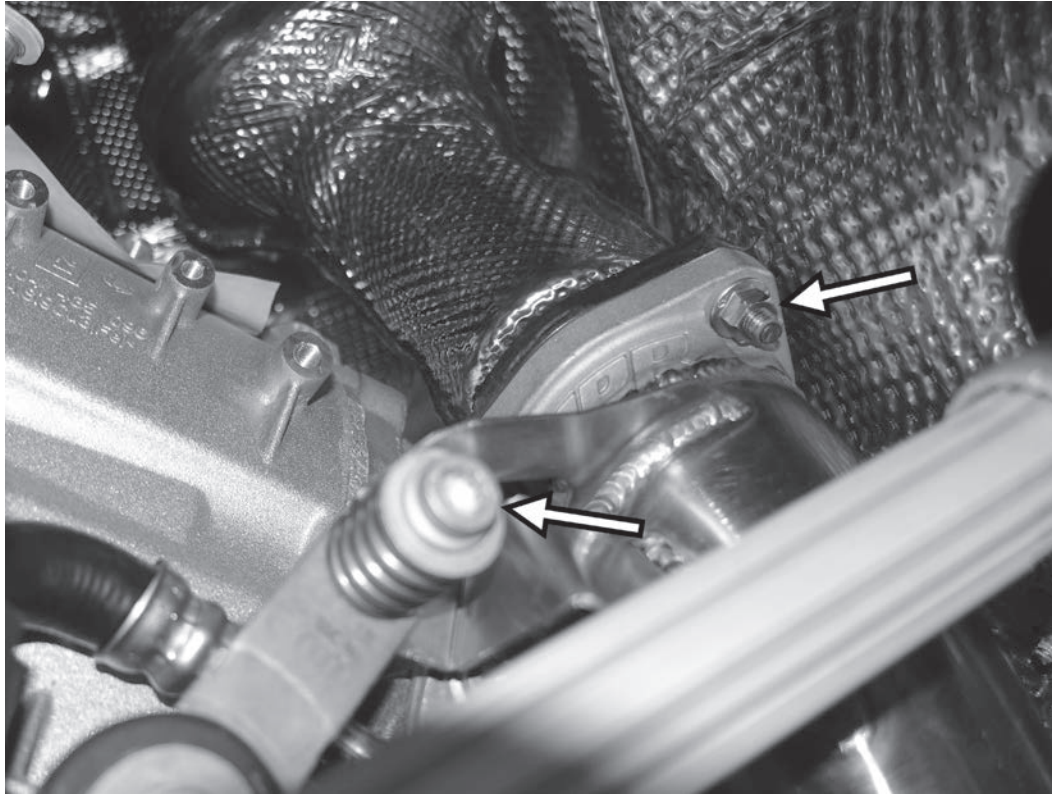
25) Install the right downpipe in the car, and then secure with three of the supplied 12mm copper nuts. Tighten the nuts to 25Nm (18 ft-lbs).

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26) Reinstall the factory spring and screw through the bracket on the right APR uppipe. Secure the bolt to the bracket using one of the supplied 12mm copper nuts. While holding the 12mm copper nut, tighten the 10mm triple square screw to 23Nm (17 ft-lbs).



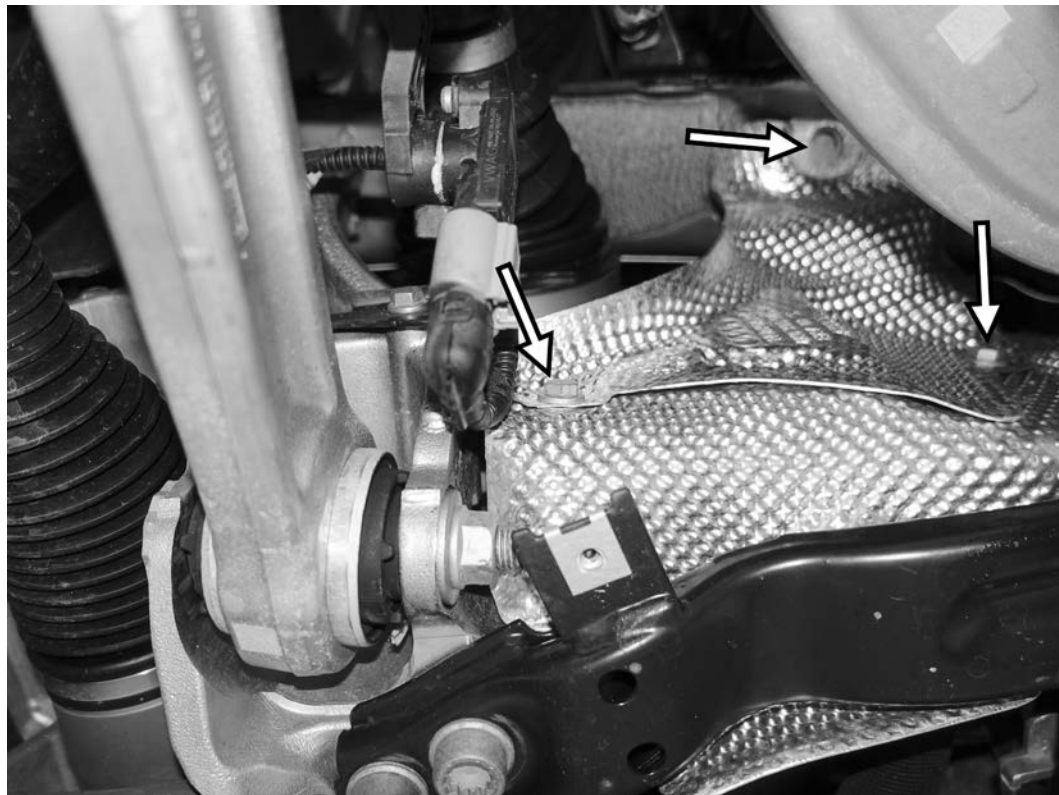
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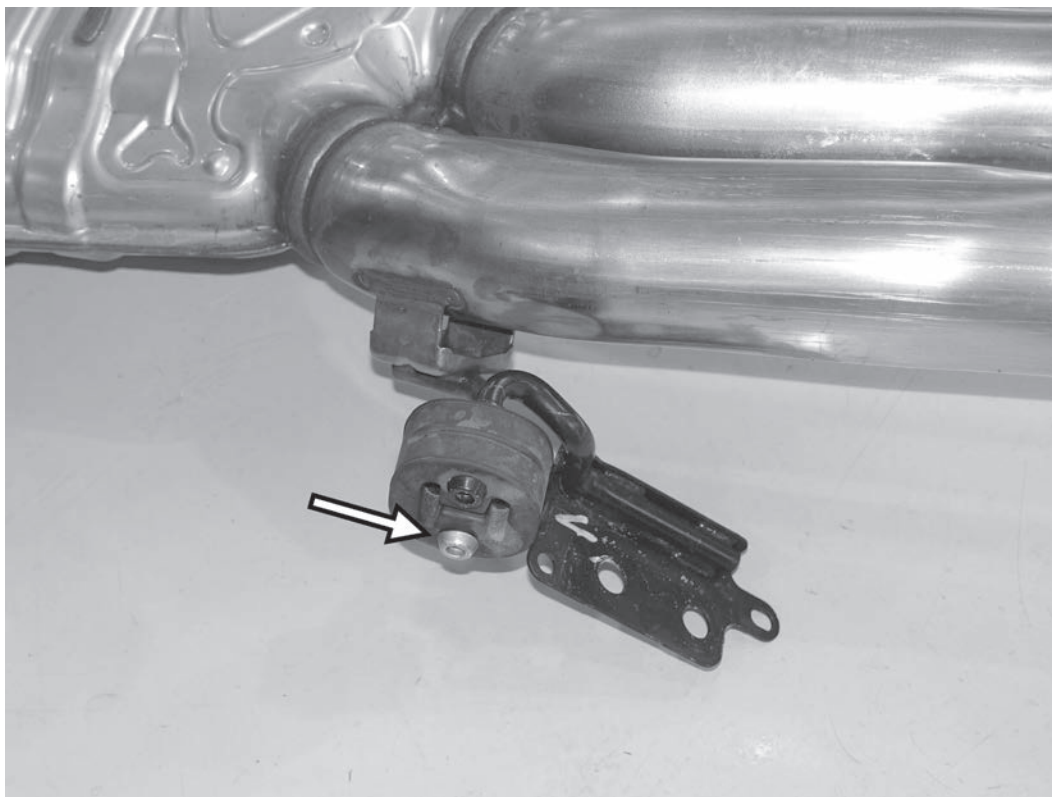
27) Install the left uppipe in the car, and then secure with three of the supplied 12mm copper nuts. Tighten the nuts to 25Nm (18 ft-lbs). Reinstall the factory spring and screw through the bracket on the right APR uppipe. Secure the bolt to the bracket using one of the supplied 12mm copper nuts. While holding the 12mm copper nut, tighten the 10mm triple square screw to 23Nm (17 ft-lbs).

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28) Reinstall both left (shown) and right upper subframe heat shields with the six factory 10mm screws. Tighten the screws to 7Nm (62 in-lbs).

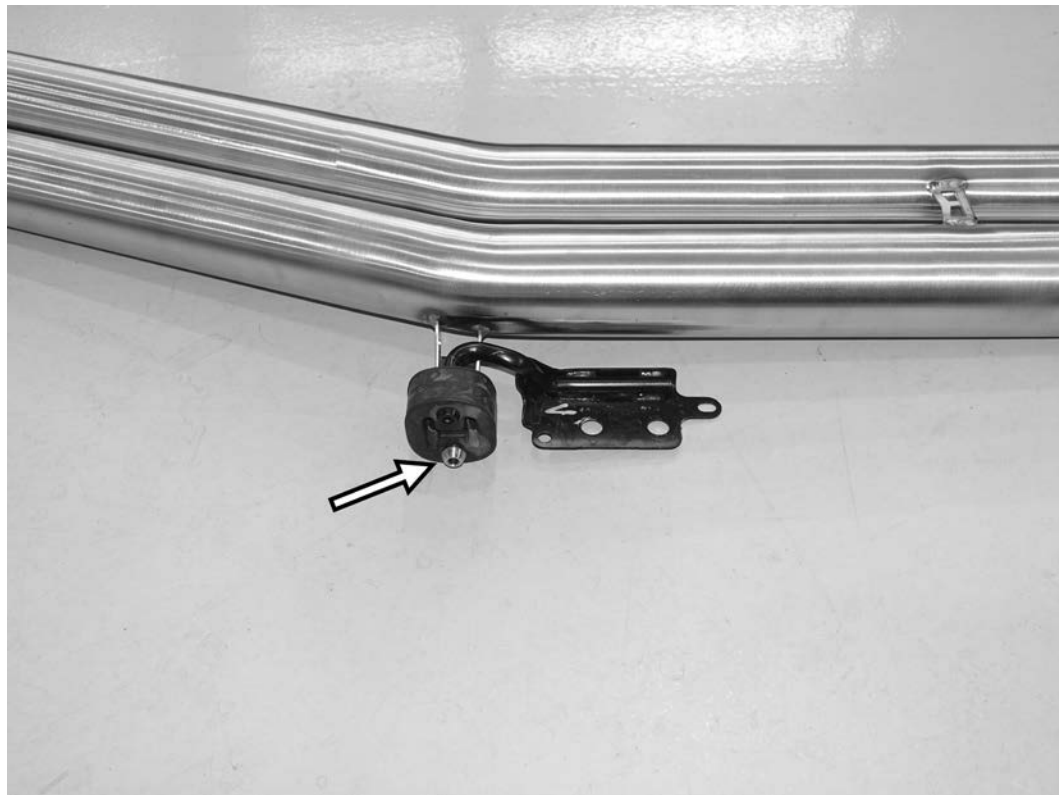


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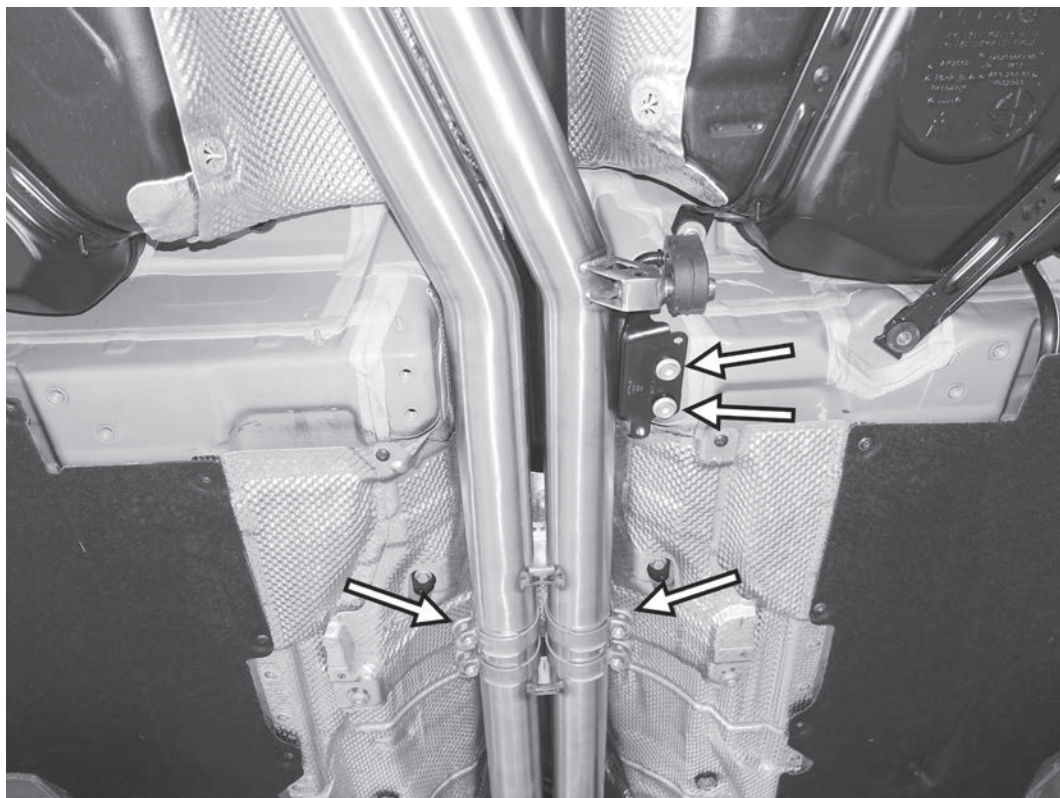


29) Remove the metal hanger bracket and rubber hanger that was located near the rear cross brace from the factory exhaust.

30) Install the rubber hanger with metal hanger bracket attached to the APR center exhaust section as shown.



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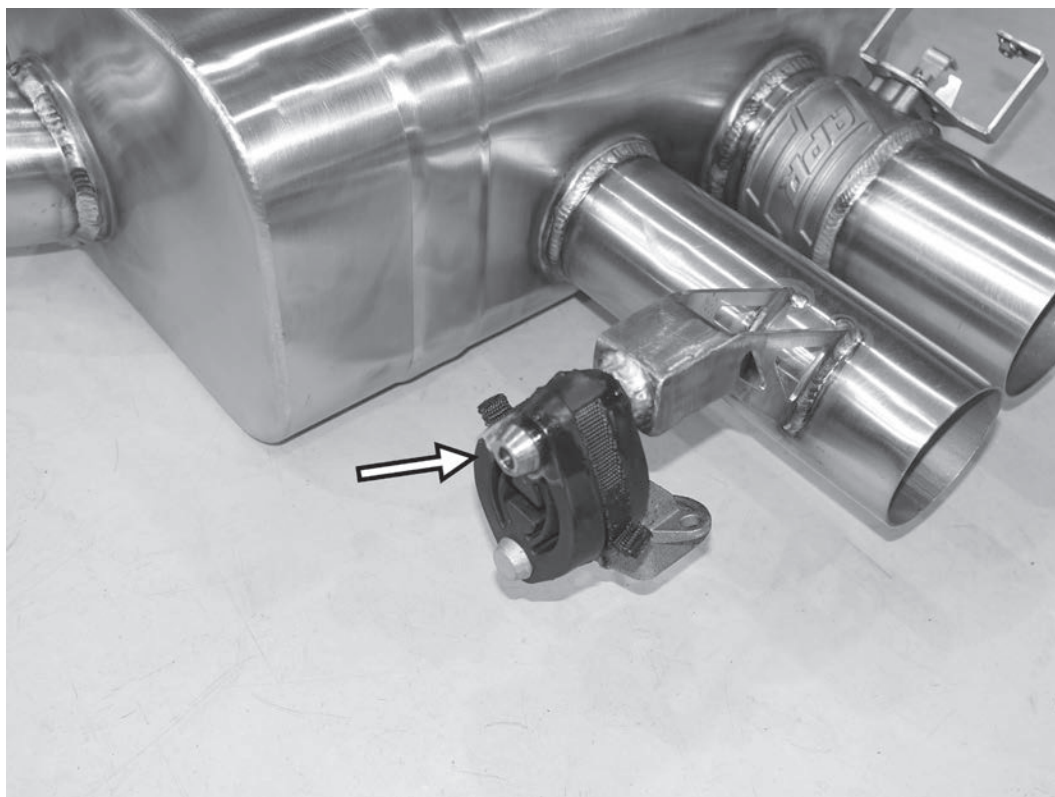
31) With an assistant, install the front and mid APR center pipe sections with four of the supplied sleeve clamps. Temporarily install two of the 12mm triple square screws that hold the rear cross brace on to hold the previously installed hanger to the car. Slightly tighten the 15mm nuts on the sleeve clamps so that the position of the pipes can be manipulated.

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32) Remove the rubber exhaust hanger with attached bracket from the back of the right muffler.



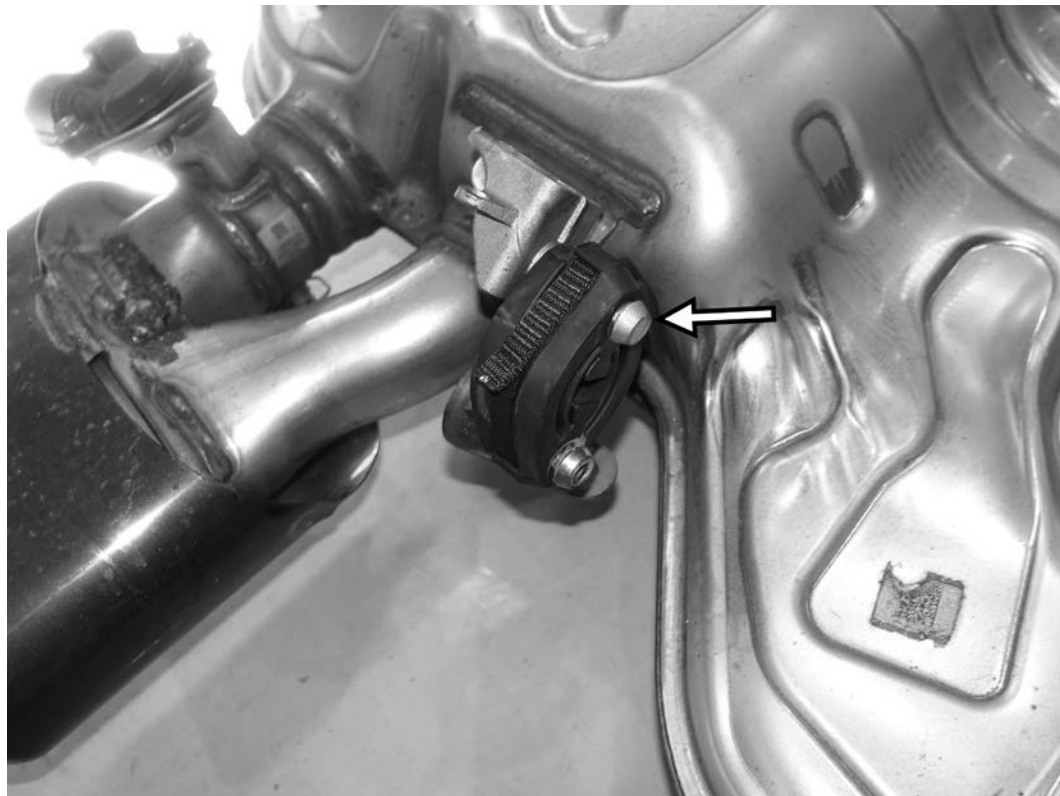
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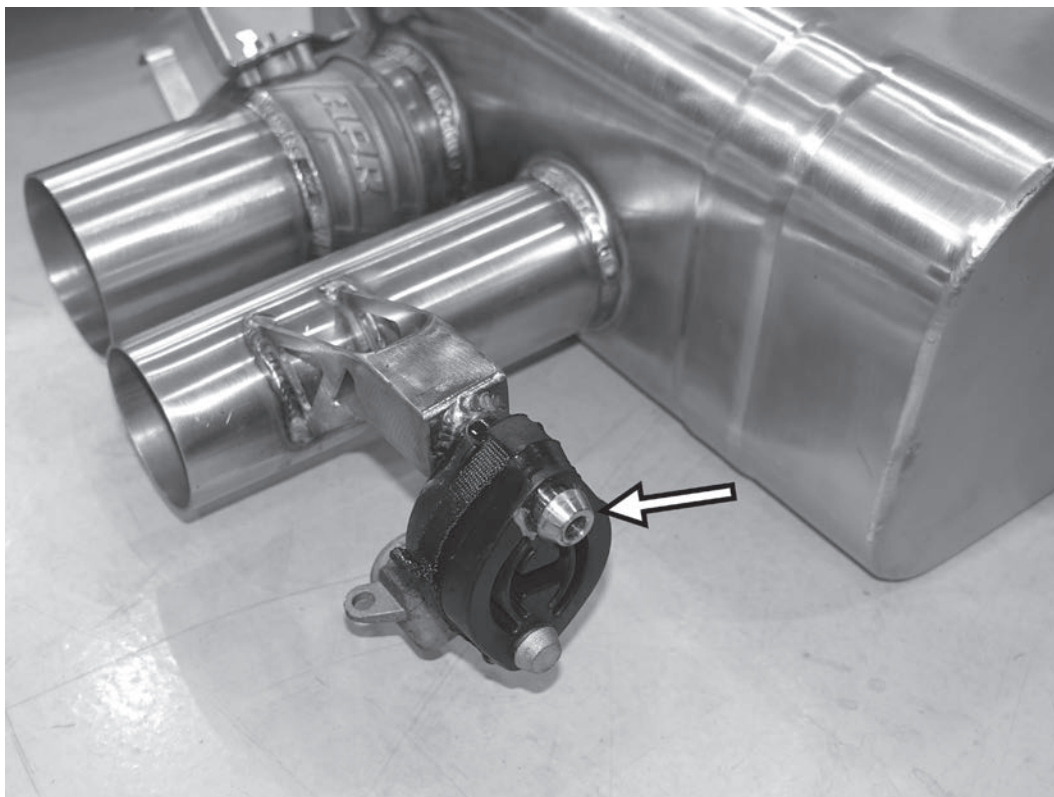
33) Install the hanger on the right APR muffler in the same orientation as it was on the factory muffler.

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34) Remove the rubber exhaust hanger with attached bracket from the back of the left muffler.



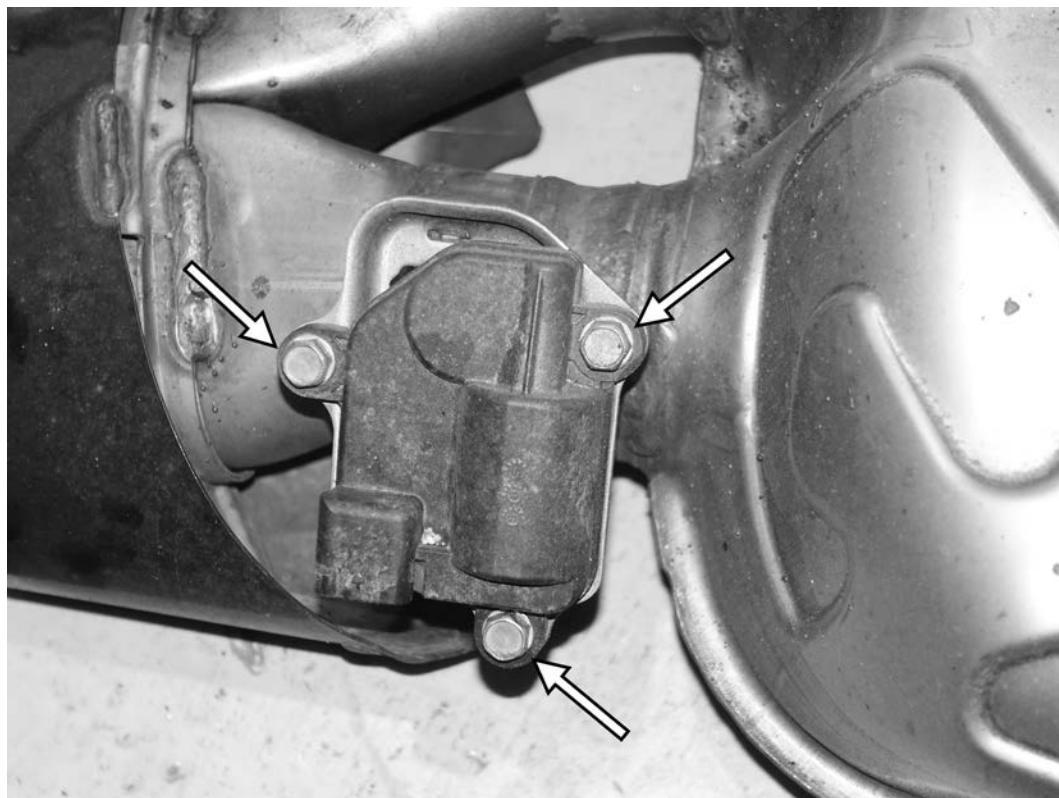
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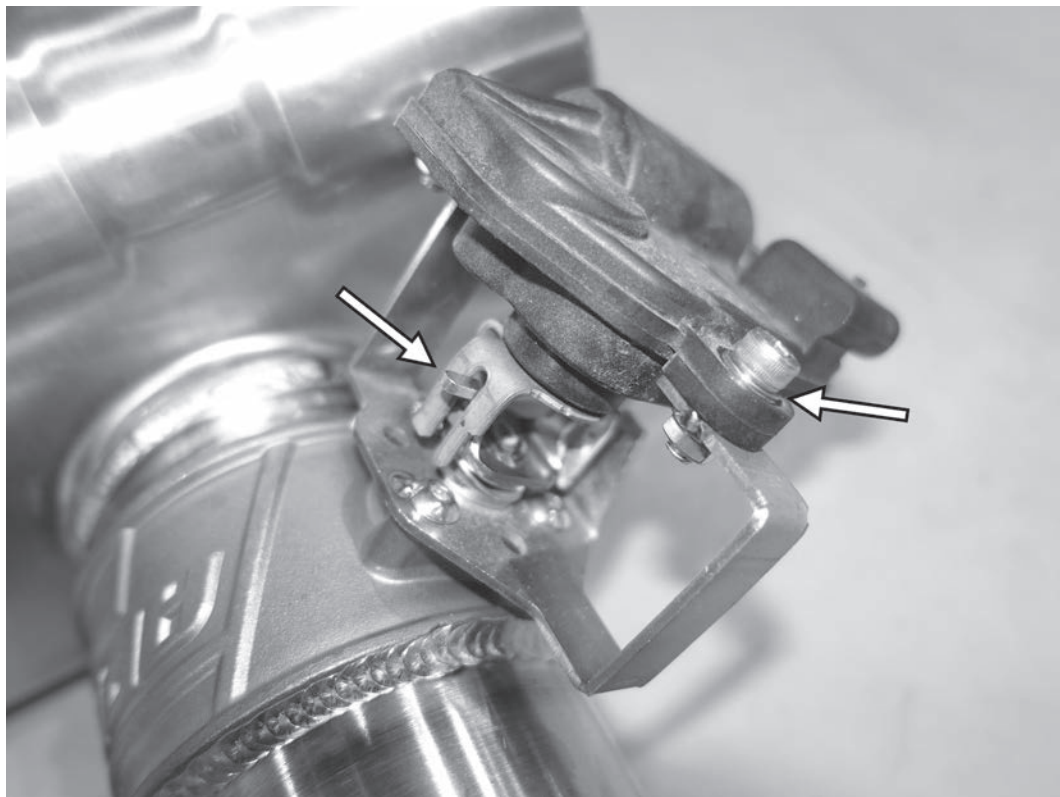
35) Install the hanger on the left APR muffler in the same orientation as it was on the factory muffler.

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36) Remove the six 10mm screws holding the two stock exhaust valve motors from the stock rear muffler just behind both exhaust tips.



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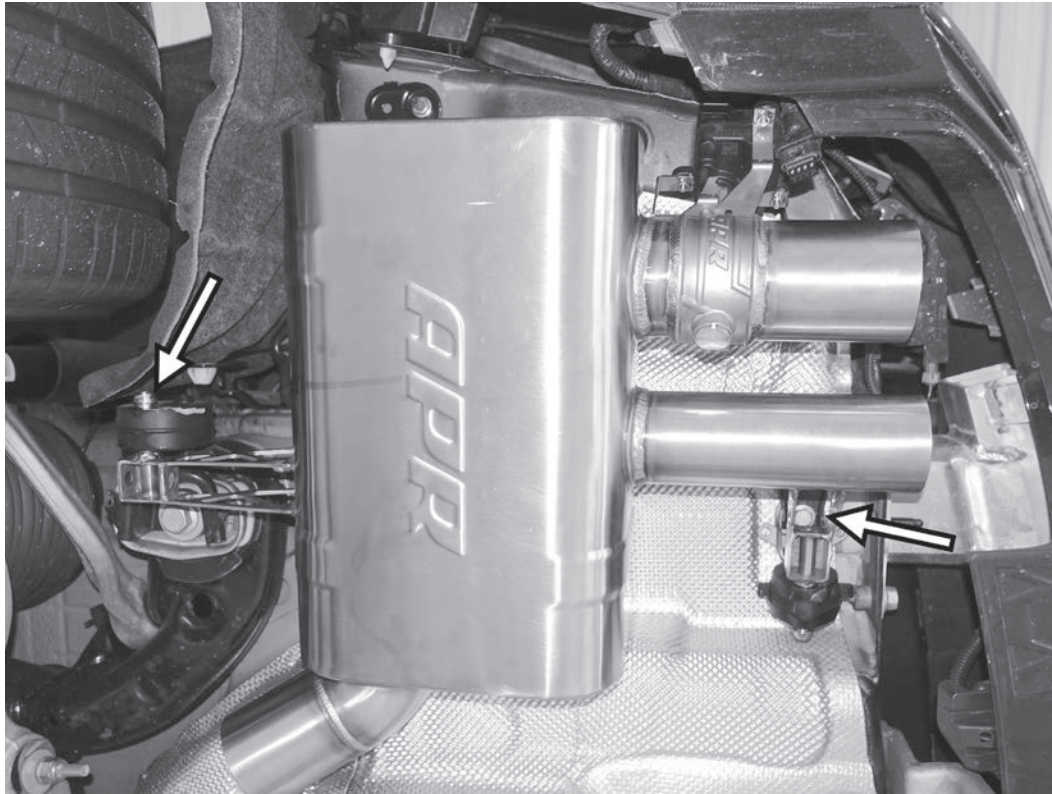
37) Mount the two exhaust valve motors to the APR rear mufflers, making sure the slots in the output from the motors keys into the raised tab on the APR exhaust valves. Secure the valve motors to the APR brackets with the six flat washers and six 4mm allen screws. Tighten the six screws to 9Nm (81 in-lbs).

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38) Install the APR right rear muffler onto the car. Place the back hanger into the rubber hanger still attached to the car and loosely install the original 13mm bolt into the metal bracket on the back of the muffler.



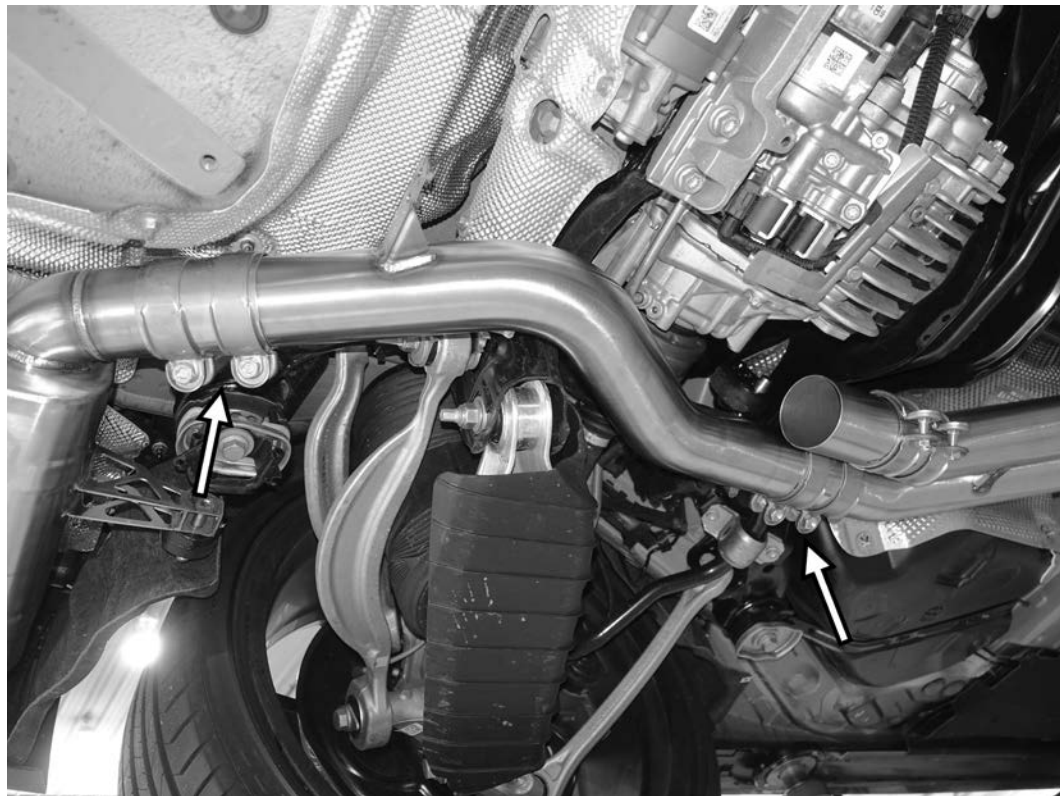
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39) Install the APR left rear muffler onto the car. Place the back hanger into the rubber hanger still attached to the car. On the back hanger, recall how the metal bracket on the car is secured below the metal hanger of the exhaust with the original stock 13mm bolt. Loosely install the 13mm bolt.

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40) Install the left rear APR pipe section onto the car with two of the supplied sleeve clamps. Loosely tighten the 16mm nuts on the sleeve clamps so the pipe is secure, but can still be moved and manipulated.



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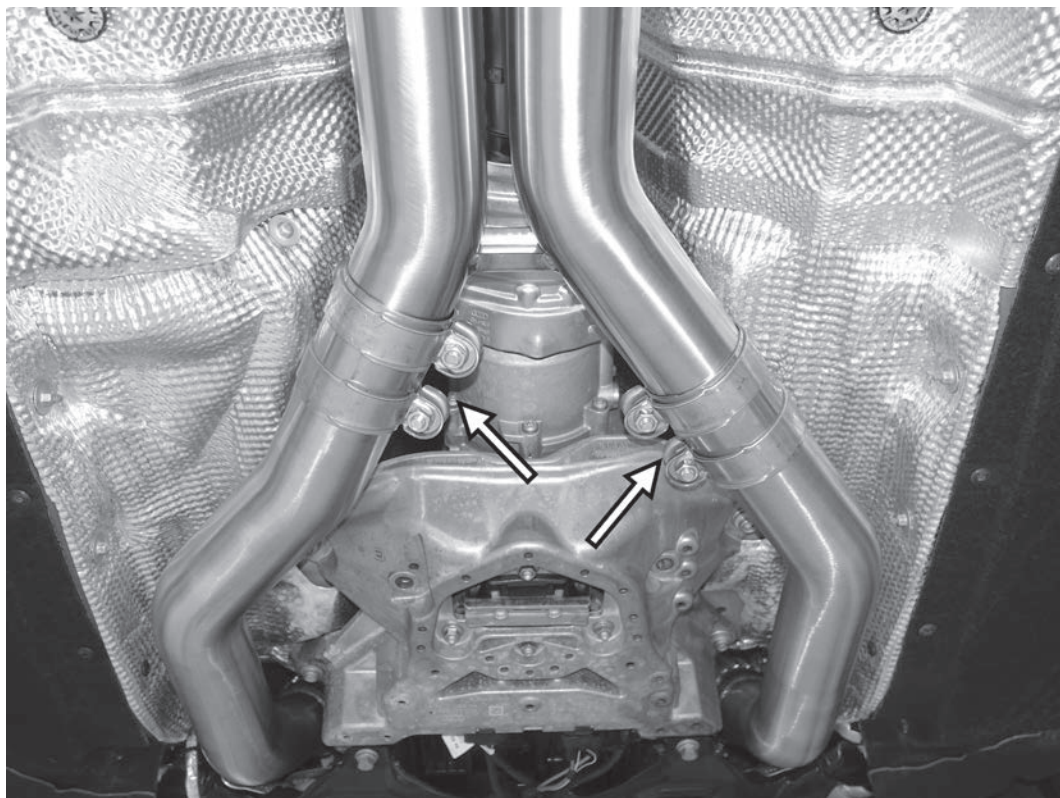
41) Install the right rear APR pipe section onto the car with two of the supplied sleeve clamps. Loosely install the two supplied 13mm screws holding the left and right rear APR pipe sections together. Loosely tighten the 16mm nuts on the sleeve clamps so the pipe is secure, but can still be moved and manipulated.

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42) Install the exhaust tips onto the outside pipes on the back of the rear mufflers with one of the strap clamps. Loosely tighten the 13mm nut to secure the tip so it can still be manipulated.



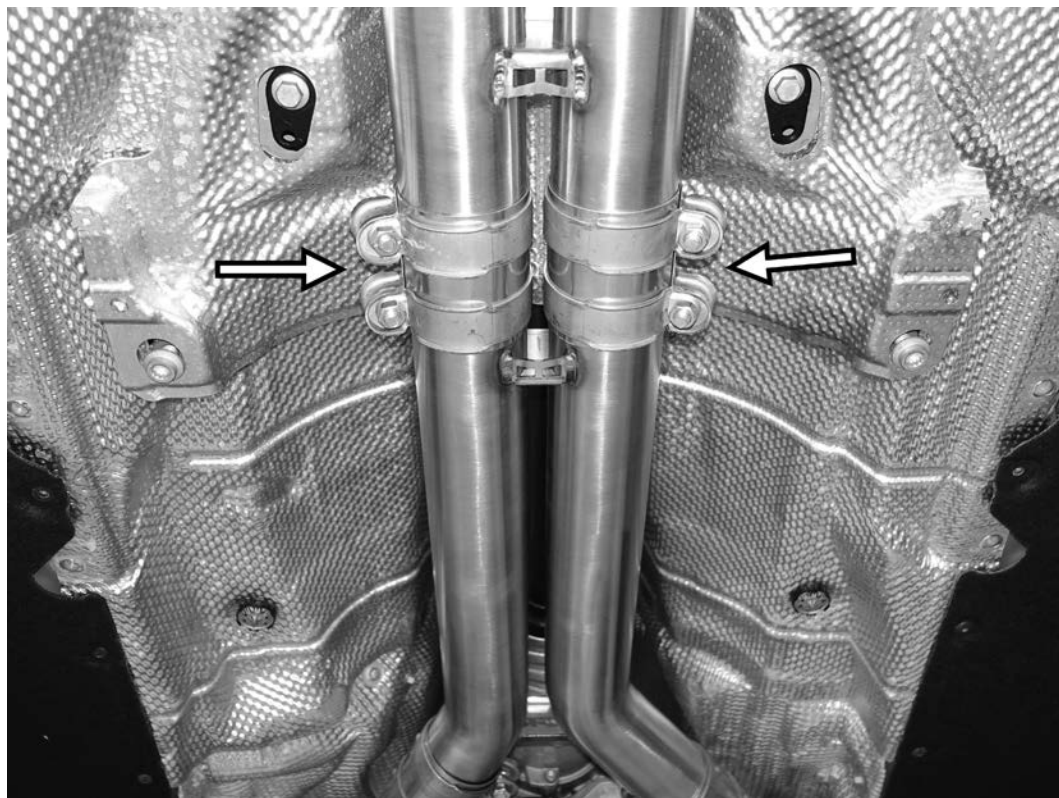
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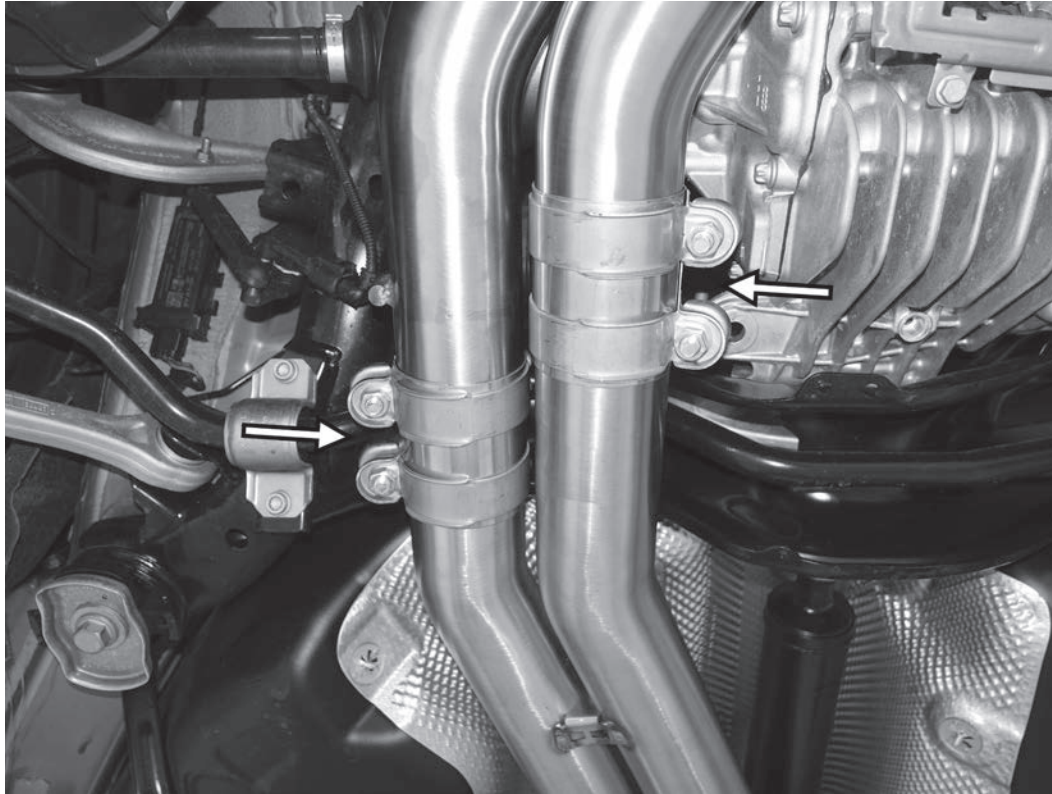
43) Working from the front to the back of the car, adjust the APR exhaust so it fits nominally in the car. There should be about 10mm of distance between each exhaust section, with the middle of the APR sleeve clamp over this gap in the pipes. Once the front of the exhaust is positioned well, tighten the 15mm nuts on the front APR sleeve clamps between the uppipes and the front APR center pipe section to 25Nm (18 ft-lbs).

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44) Adjust the position of the front and center APR pipe sections. Ensure the factory cross braces will fit underneath these pipes, and then tighten the 15mm nuts on the APR sleeve clamps between the front and center sections to 25Nm (18 ft-lbs).



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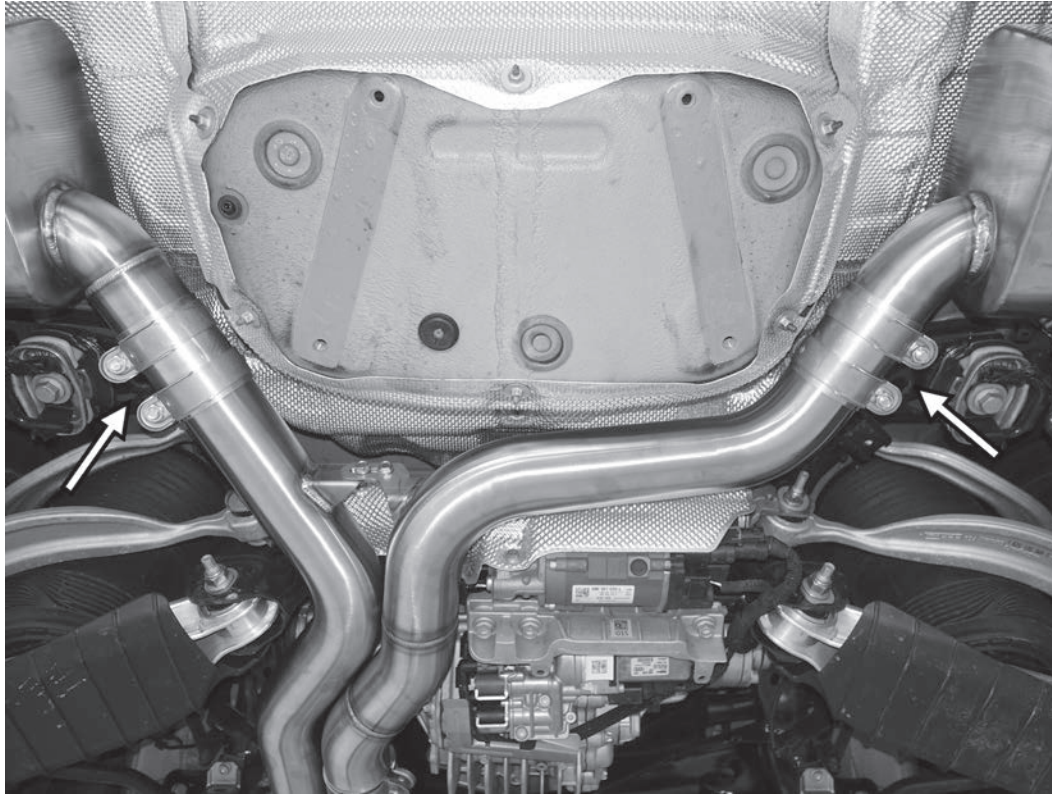
45) Adjust the position of the center APR pipe section and the two rear pipe sections, and then tighten the 15mm nuts on the APR sleeve clamps between the center and rear sections to 25Nm (18 ft-lbs).

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46) Adjust the position of the rear mufflers from side to side, if necessary, and then tighten the two 13mm bolts between the two rear pipe sections to 10Nm (88 in-lbs).



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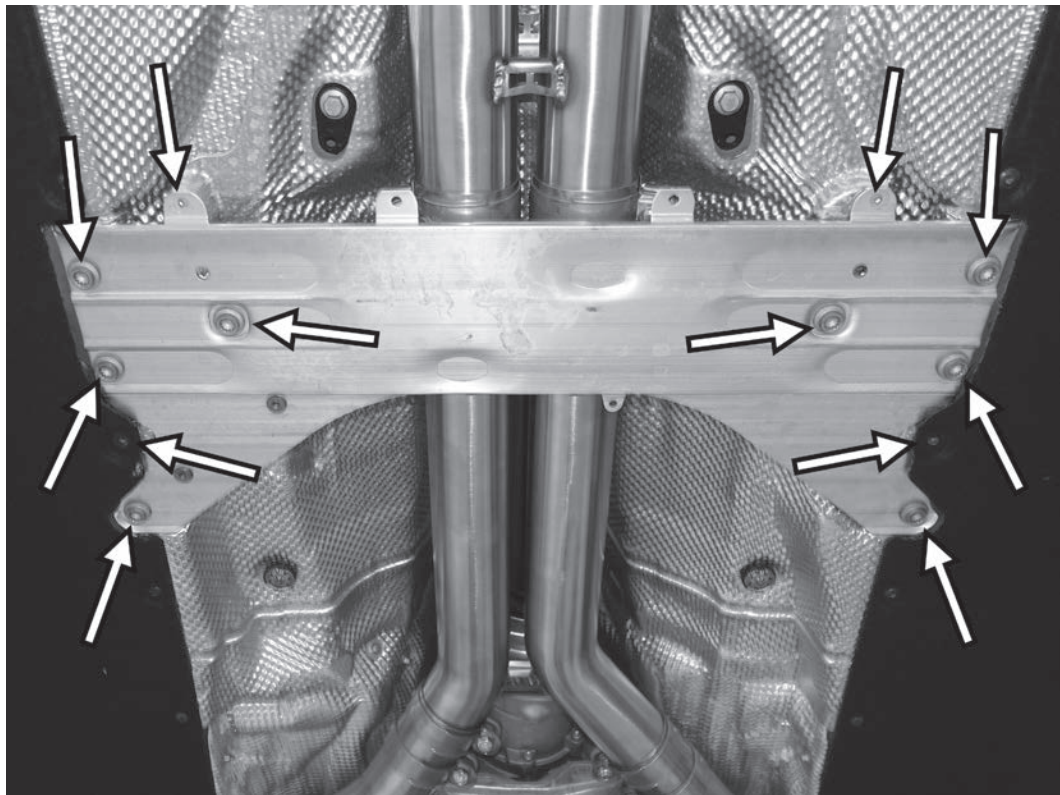
47) Further adjust the position of the two rear mufflers to the two rear pipe sections and then tighten the 15mm nuts on the APR sleeve clamps between the rear sections and the rear mufflers to 25Nm (18 ft-lbs).

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48) Adjust the final position of the rear mufflers, and tighten the 13mm bolts on the factory exhaust hangers to 20Nm (177 in-lbs). Finally, once the exhaust tips are positioned correctly in the rear valence, tighten the 15mm nut on the strap clamp on both APR exhaust tips to 55Nm (40 ft-lbs).

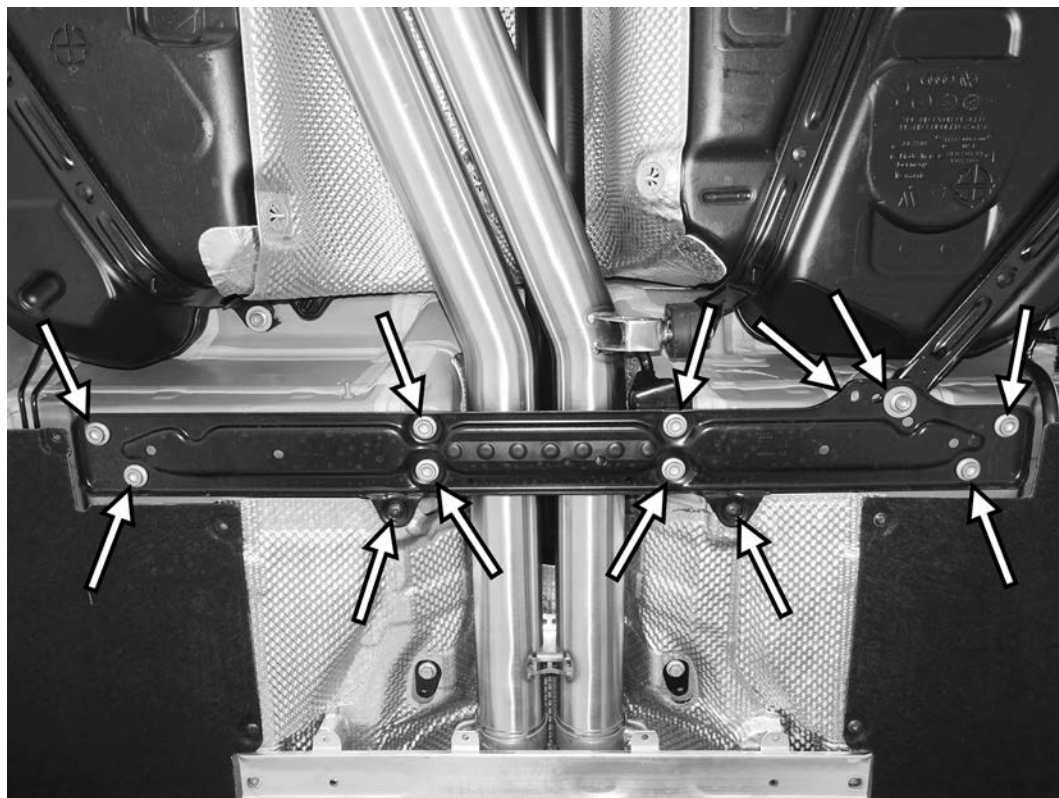


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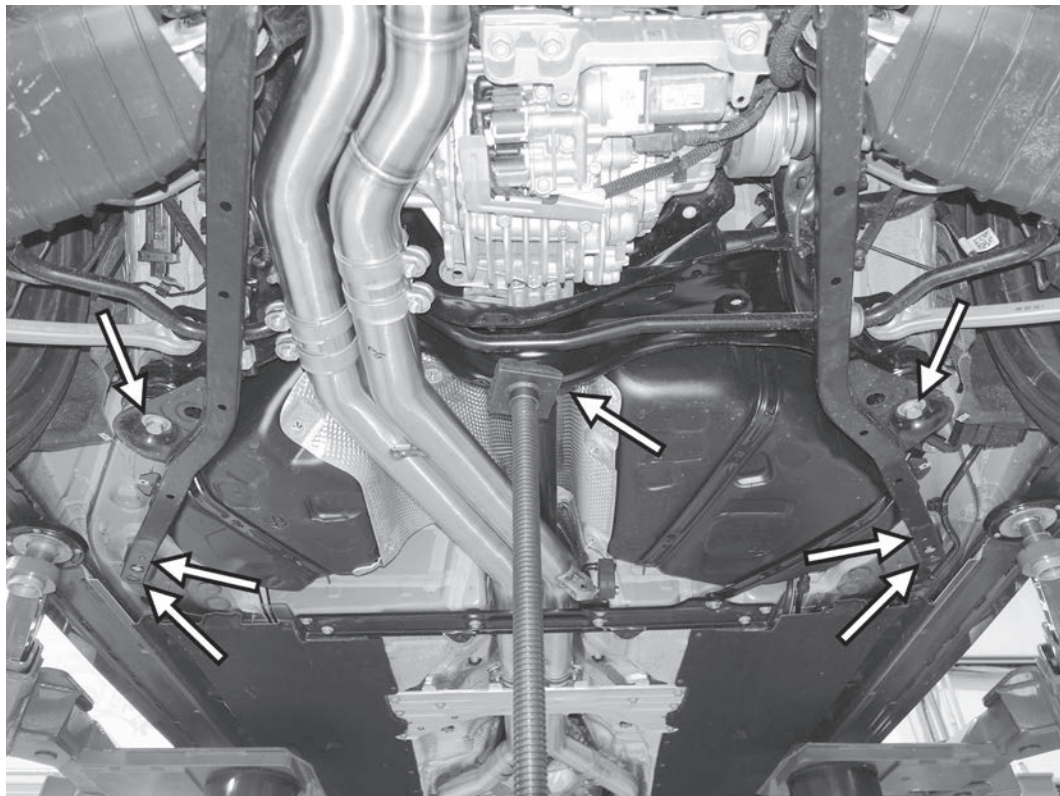


49) Reinstall the front cross brace with the eight 12mm triple square screws and four T25 screws. Tighten the 12mm triple square screws to 55Nm (40 ft-lbs). Then tighten the four T25 screws to 5Nm (44 in-lbs).

50) Remove the two 12mm triple square screws from the center exhaust hanger. Then reinstall the rear cross brace with all eight 12mm triple square screws, three T25 screws, and the one 10mm triple square screw to the fuel tank strap. Tighten the 12mm triple square screws to 55Nm (40 ft-lbs). Then tighten the four T25 screws to 5Nm (44 in-lbs). Tighten the 10mm triple square screw to 20Nm (15 ft-lbs).

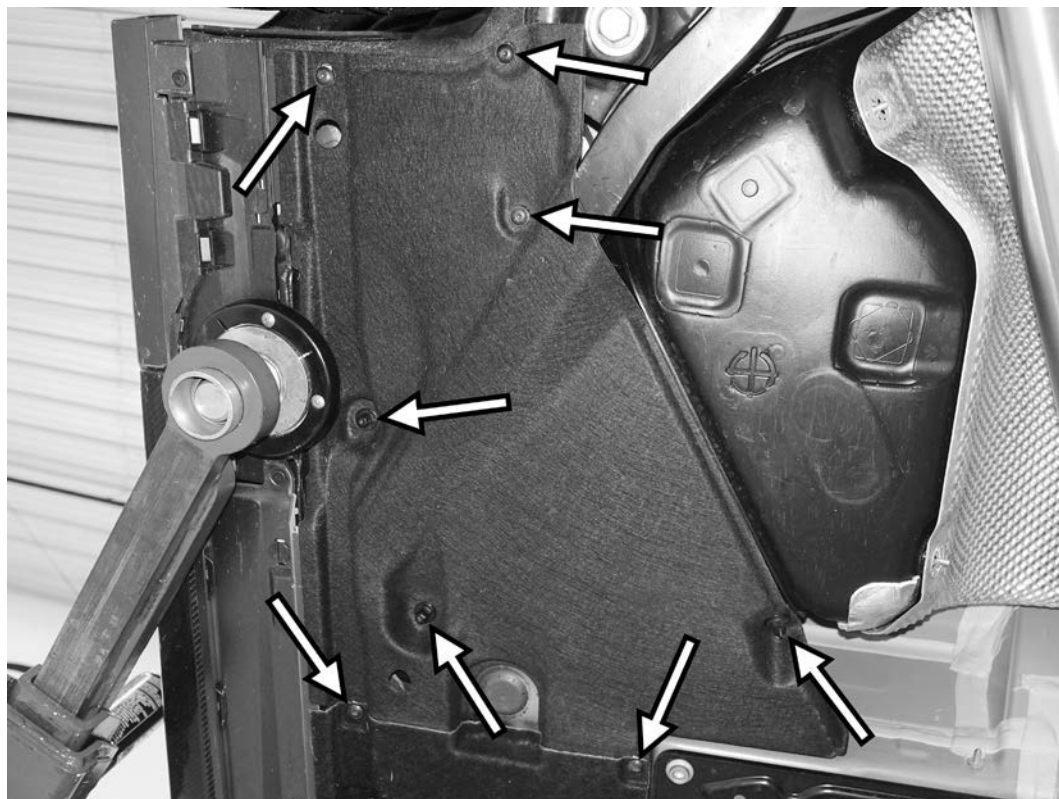


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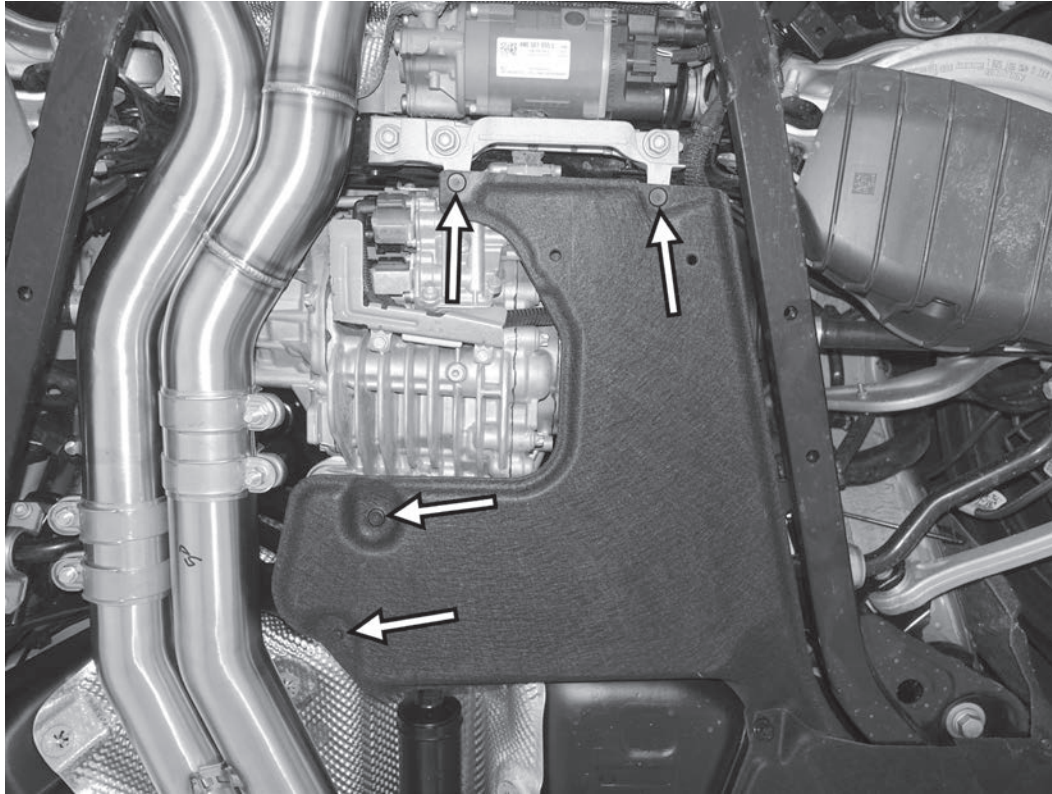


51) Resupport the front side of the rear subframe with a transmission jack. Remove the two 21mm screws holding the front of the subframe in place. Reinstall the two cross straps with the eight 12mm triple square screws and two 21mm screws. Tighten the 21mm screws to 130Nm (96 ft-lbs) and then tighten each bolt an additional 180°. Tighten the eight 12mm triple square screws to 40Nm (30 ft-lbs), and then tighten each screw an additional 90°.

52) Reinstall the left underbody panel and secure with the three 10mm plastic nuts and five T25 screws. Tighten the nuts and screws to 2Nm (18 in-lbs).



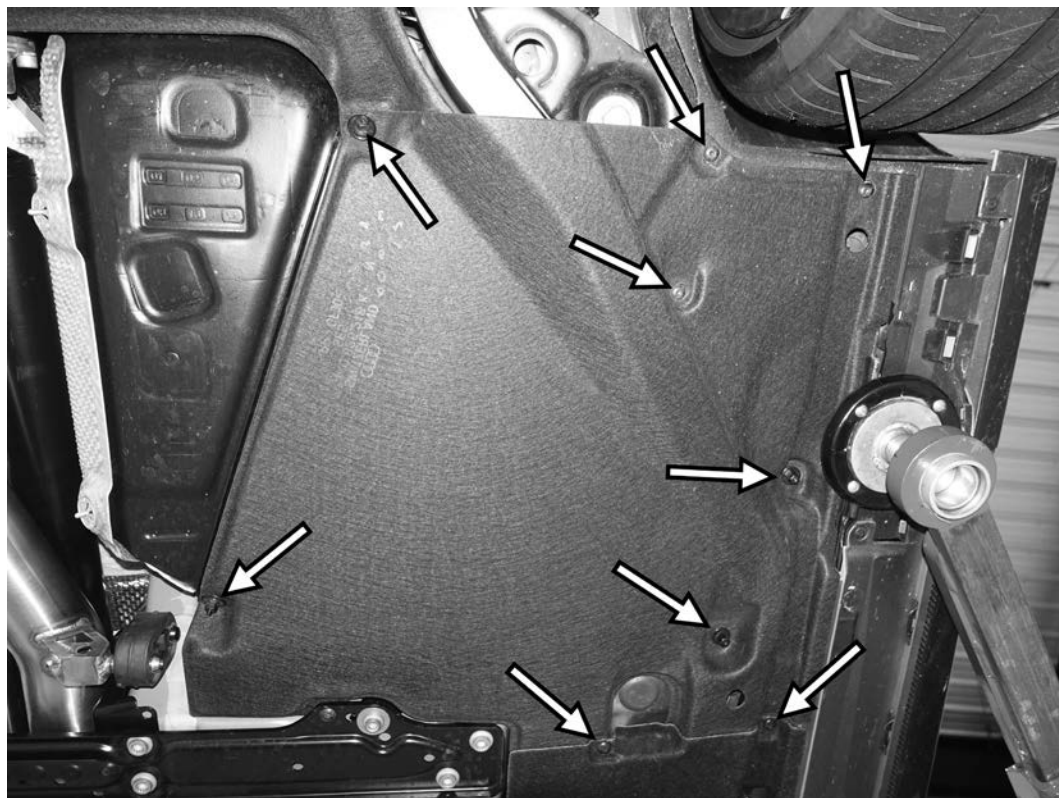
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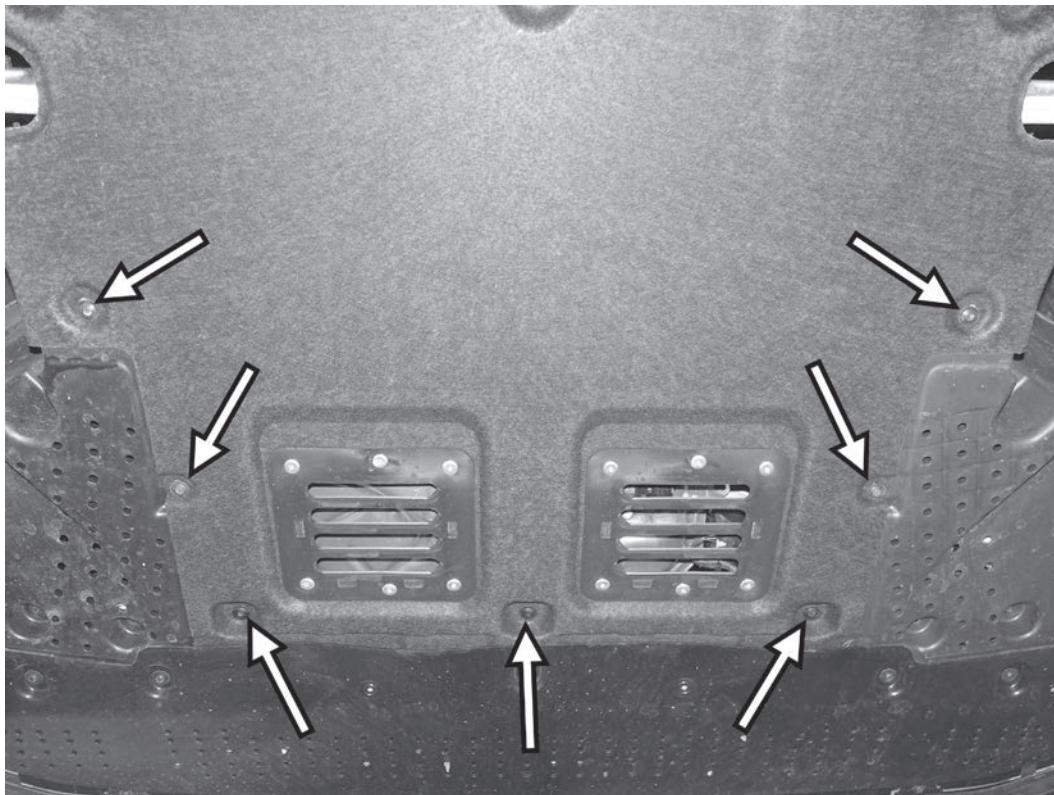
53) Reinstall the center underbody panel and secure with the four push pin style connectors.

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54) Reinstall the right underbody panel and secure with the four 10mm plastic nuts and five T25 screws. Tighten the nuts and screws to 2Nm (18 in-lbs).

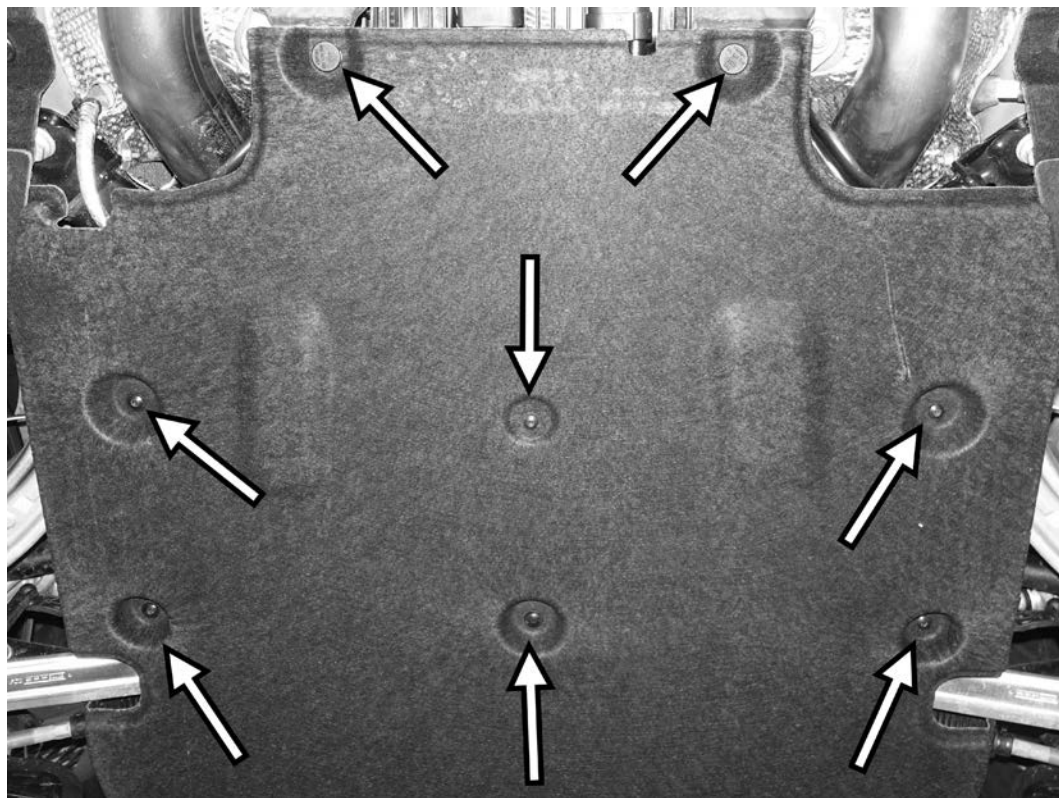


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55) Reinstall the front underbody panel, putting in the seven T25 screws and tightening the screws to 2Nm (18 in-lbs).

56) Remove the two push pin connectors at the back of the front underbody panel, and install the six T25 screws. Tighten the T25 screws to 3Nm (18 in-lbs).



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