

#TL100123

INSTALLATION MANUAL

CBK0011

C7/C7.5 S6/S7 Catback Exhaust

APR



Notes:

These instructions were written for a North American specification post-facelift (C7.5) S6, but other models, like the pre-facelift (C7) S6 and (C7 and C7.5) S7's 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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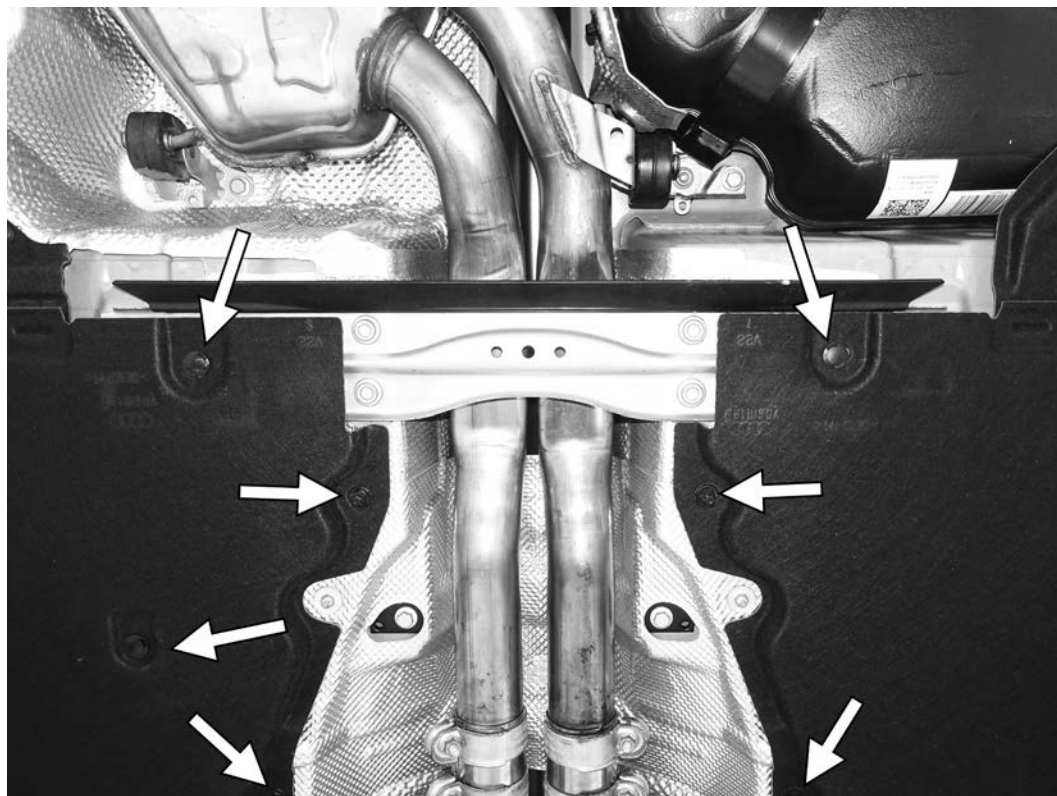
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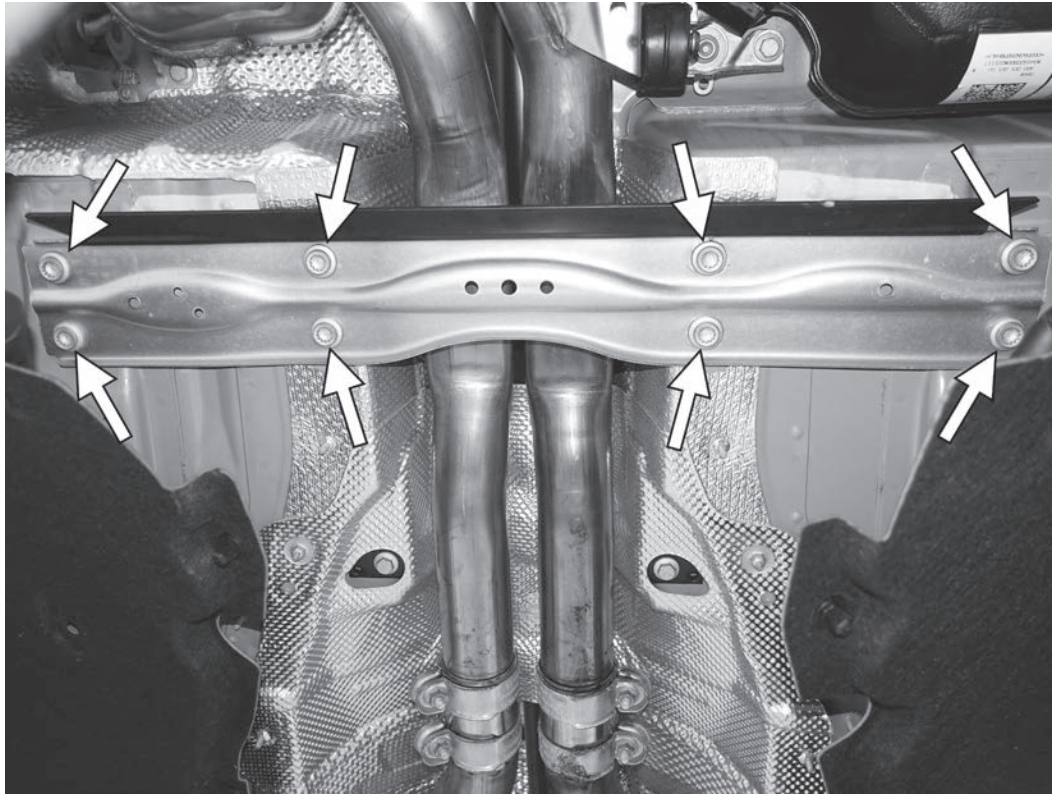


1) Securely lift vehicle. If a vehicle lift is not used, secure the vehicle with jack stands.

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2) Remove the two push-pin style fasteners on the rear of each underbody panel. Remove the single push pin style fastener on the left underbody panel, in the middle rear of the panel. Finally, loosen the eight plastic nuts (four shown) holding center of both underbody panels near the center tunnel of the car.

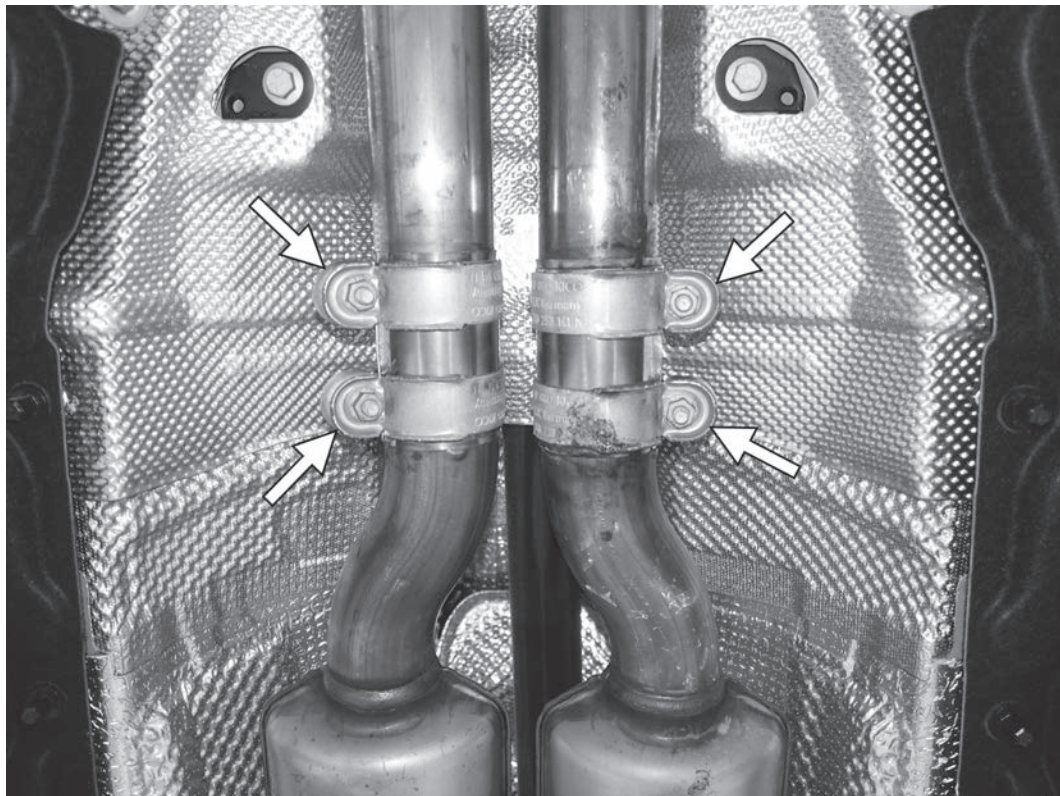




3) Remove the eight 12mm triple square bolts holding the stock cross brace in place, and remove the cross brace from the car.

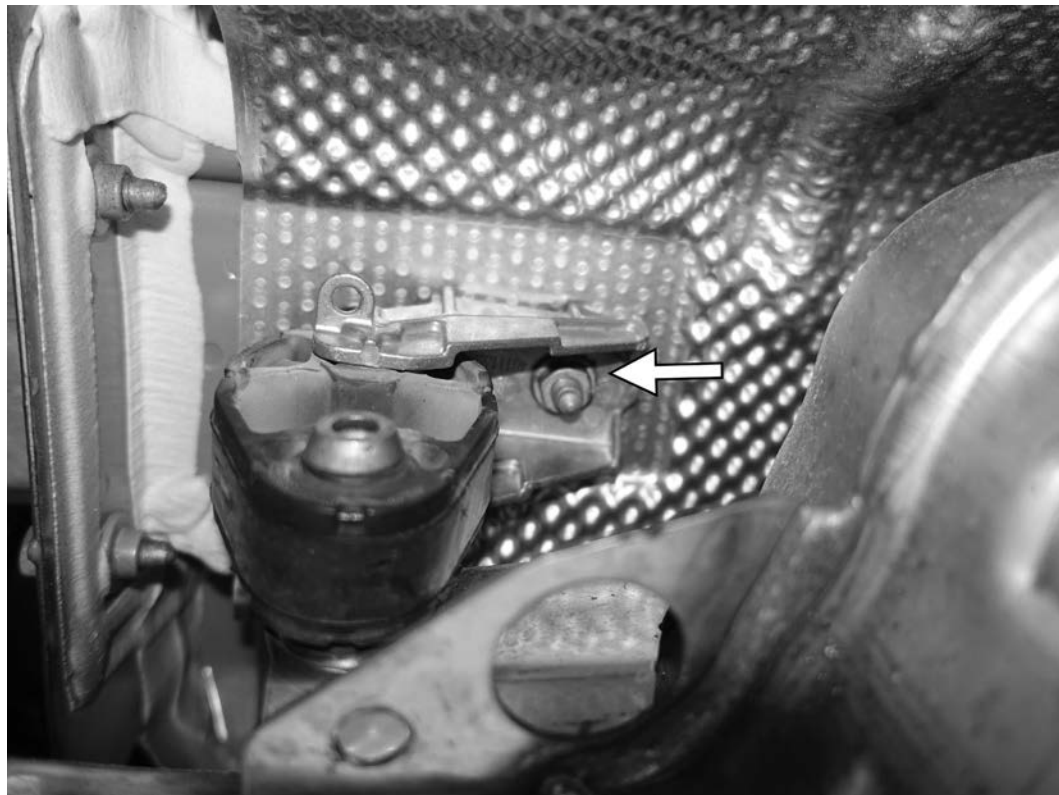
4) Unplug the electrical connector to both exhaust valve flap motors on the left and right side of the exhaust. On later models, the motor may be before the muffler.





5) Loosen the four 13mm nuts on the stock exhaust clamps at the back of the downpipes.

6) Locate the 13mm nuts holding the rearmost muffler hangers to the car. With an assistant holding the exhaust up, remove 13mm nuts from both the left and right mufflers to disconnect the hangers from the car.

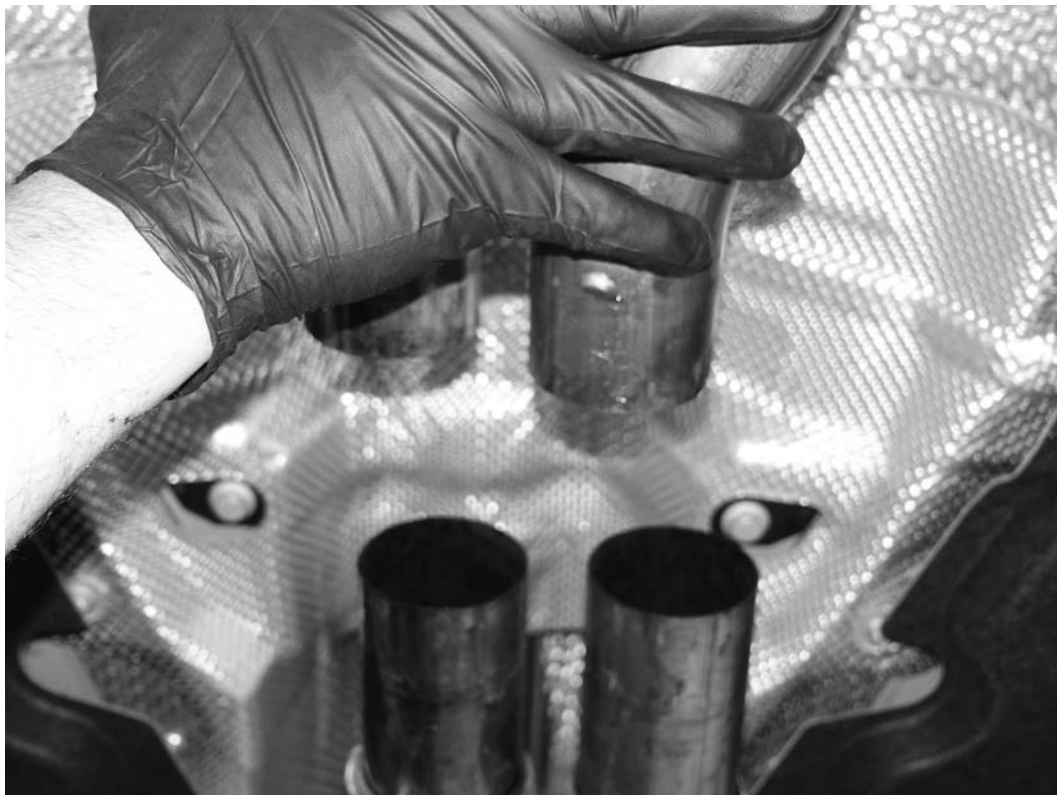


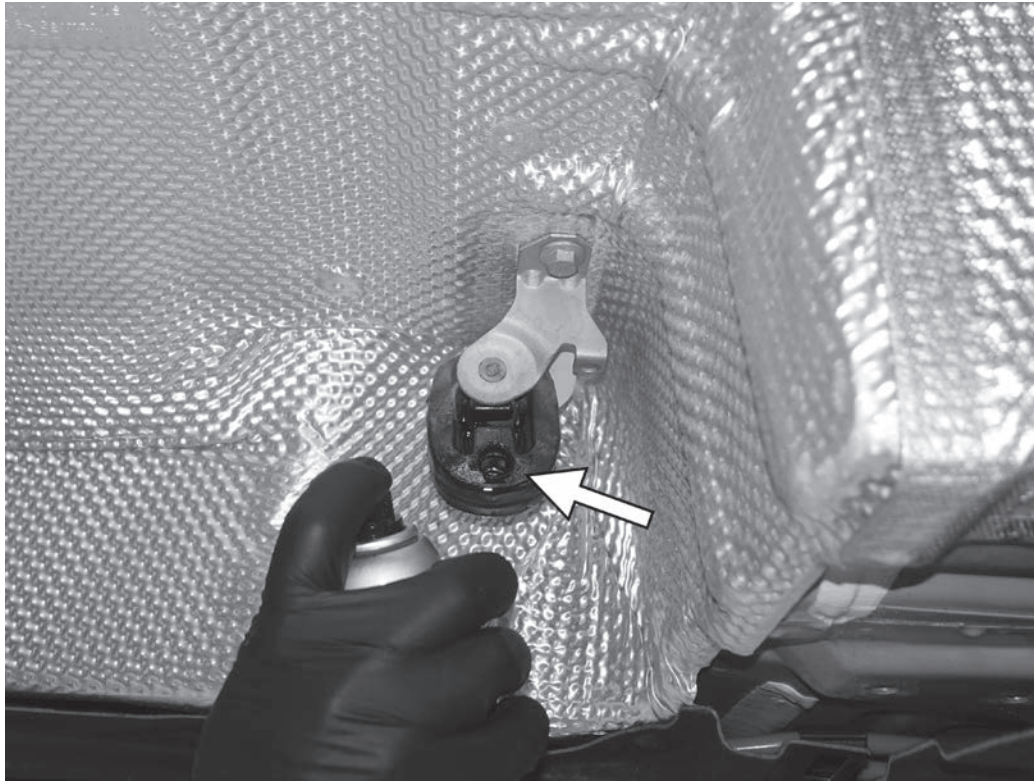


7) With an assistant supporting the rear of the exhaust, separate the stock exhaust from the rubber hangers on both sides in the middle of the car, leaving the rubber hangers in the car.

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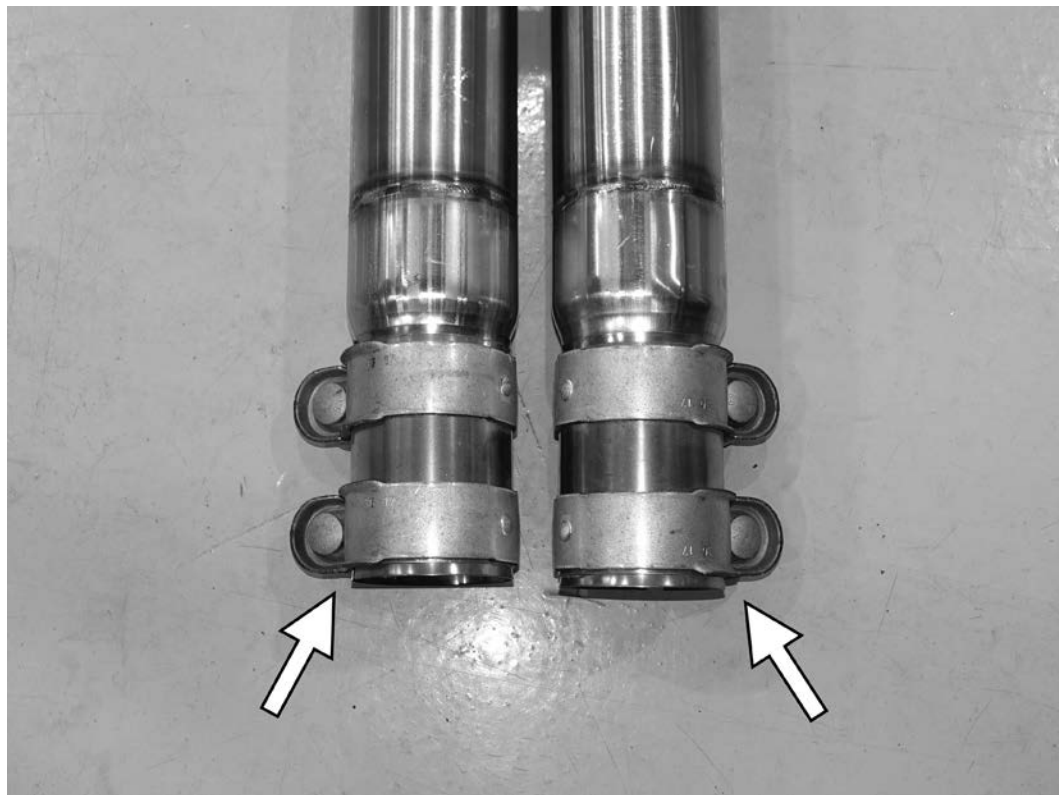
8) With an assistant holding the rear of the exhaust, support the front of the exhaust just behind the loosened sleeve clamps. Slide the sleeve clamps back, lowering the back of the downpipes and separating the catback portion of the exhaust from the car. Place the catback exhaust aside.

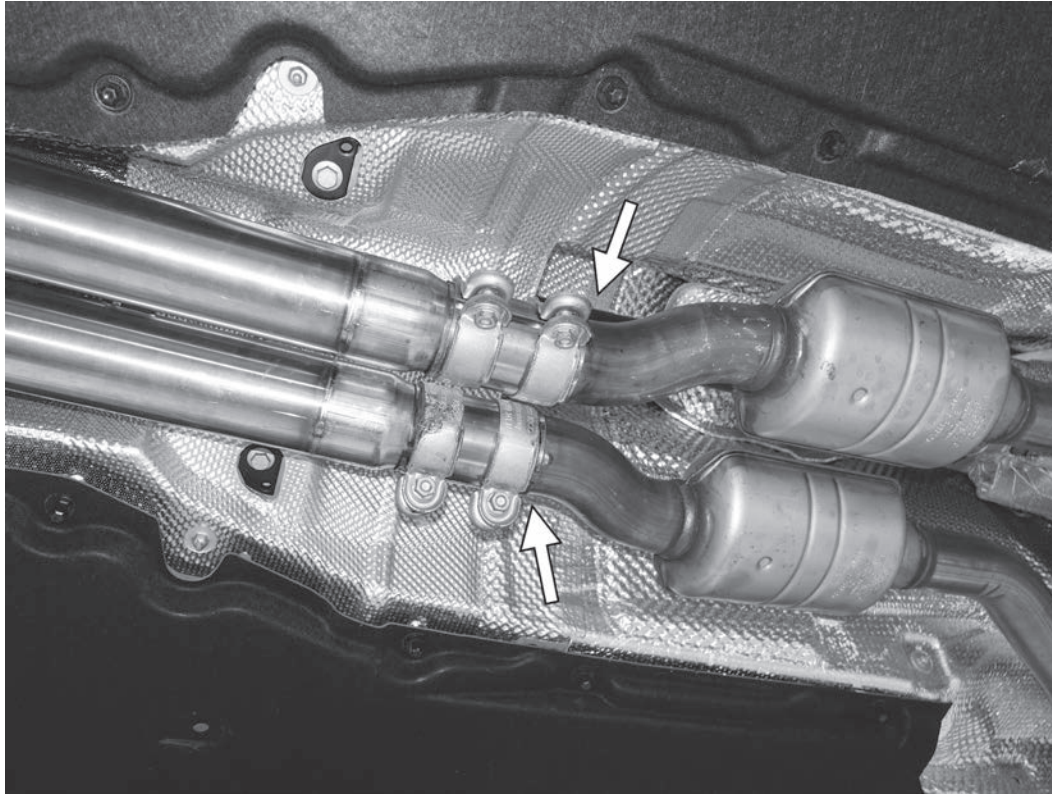




9) Lubricate the two rubber hangers that remain in the middle of the car.

10) Remove the two factory sleeve clamps from the stock catback exhaust, and loosely place them on the front of the APR middle exhaust section, orienting them as shown.

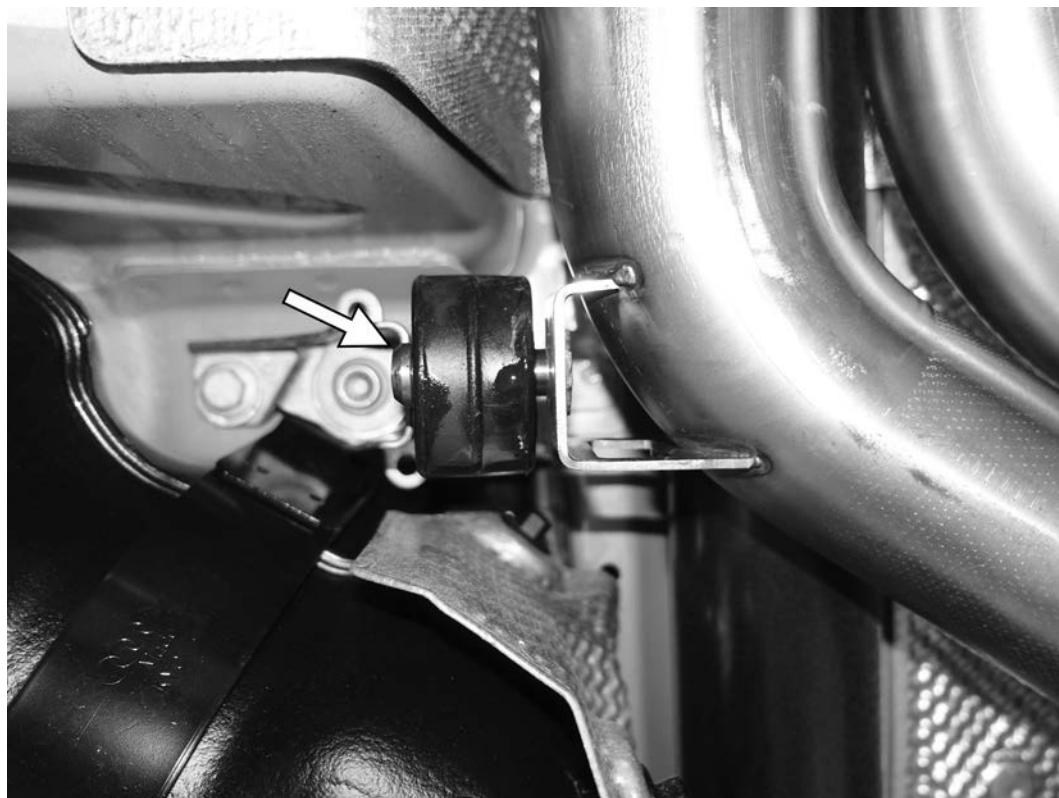


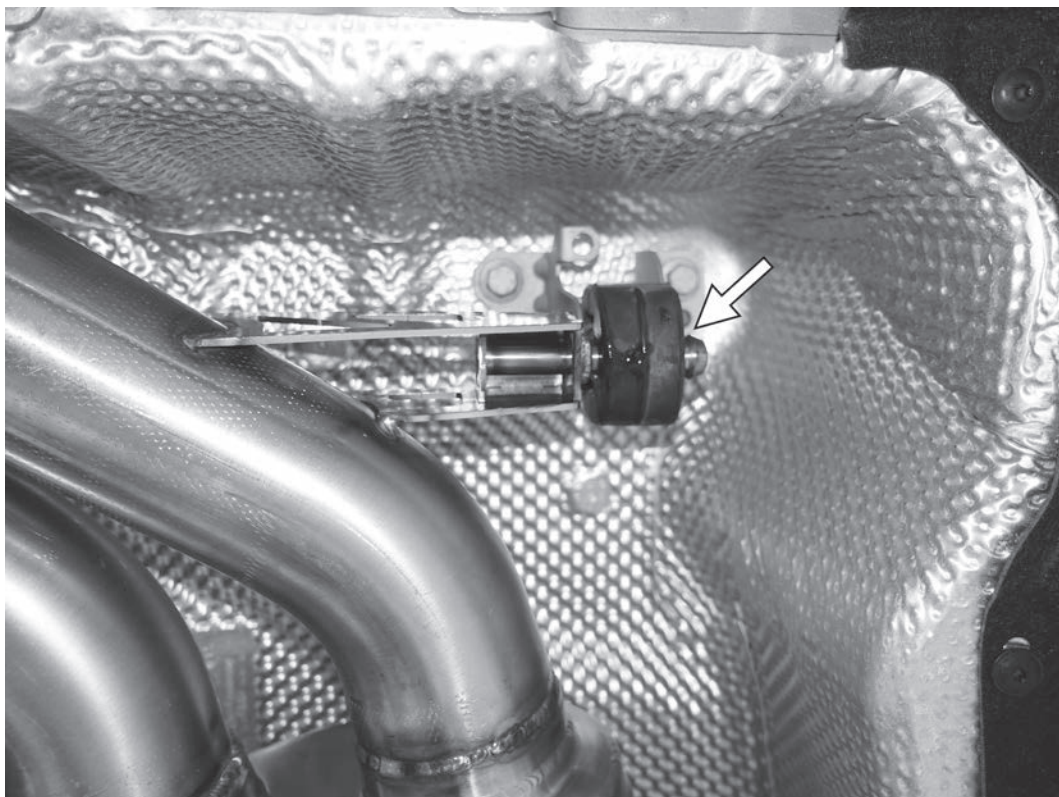


11) Install the middle muffler section to the back of each downpipe. Slide the sleeve clamps in place as shown and very loosely secure them. Ensure the pipes can still rotate inside the clamps for now. There should be approximately a 10mm (3/8") gap between the back of the downpipe and the beginning of the middle exhaust section - do not butt the APR middle section up to the back of the downpipes.

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12) Push the hanger from the right side of the APR middle exhaust section into the right rubber hanger that is still attached to the car.

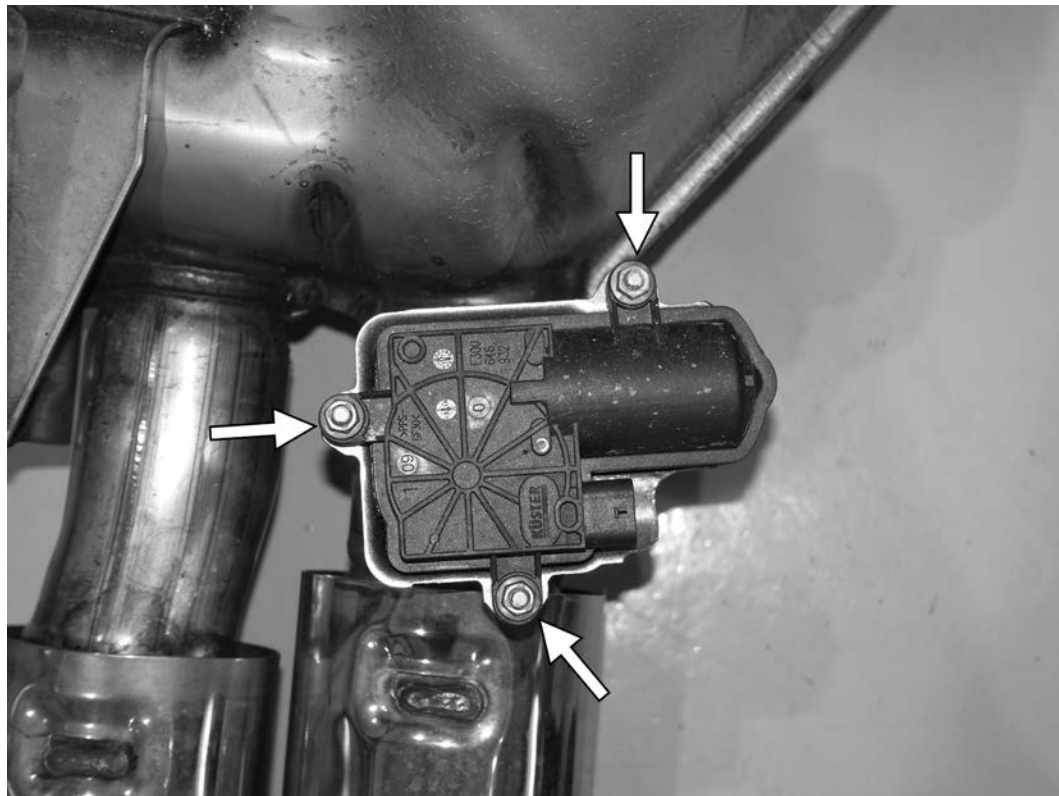


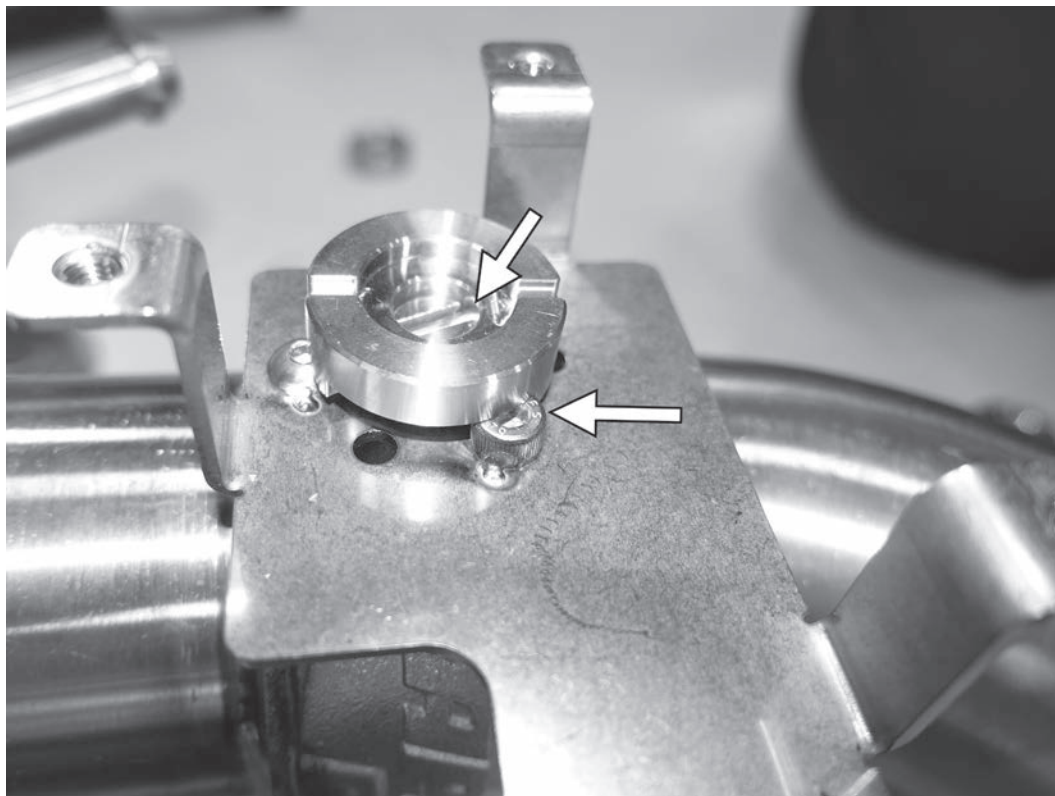


13) Push the hanger from the left side of the APR middle exhaust section into the left rubber hanger that is still attached to the car.

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14) On the right rear muffler of the factory exhaust, remove the three 8mm nuts holding the exhaust flap motor to the stock exhaust.



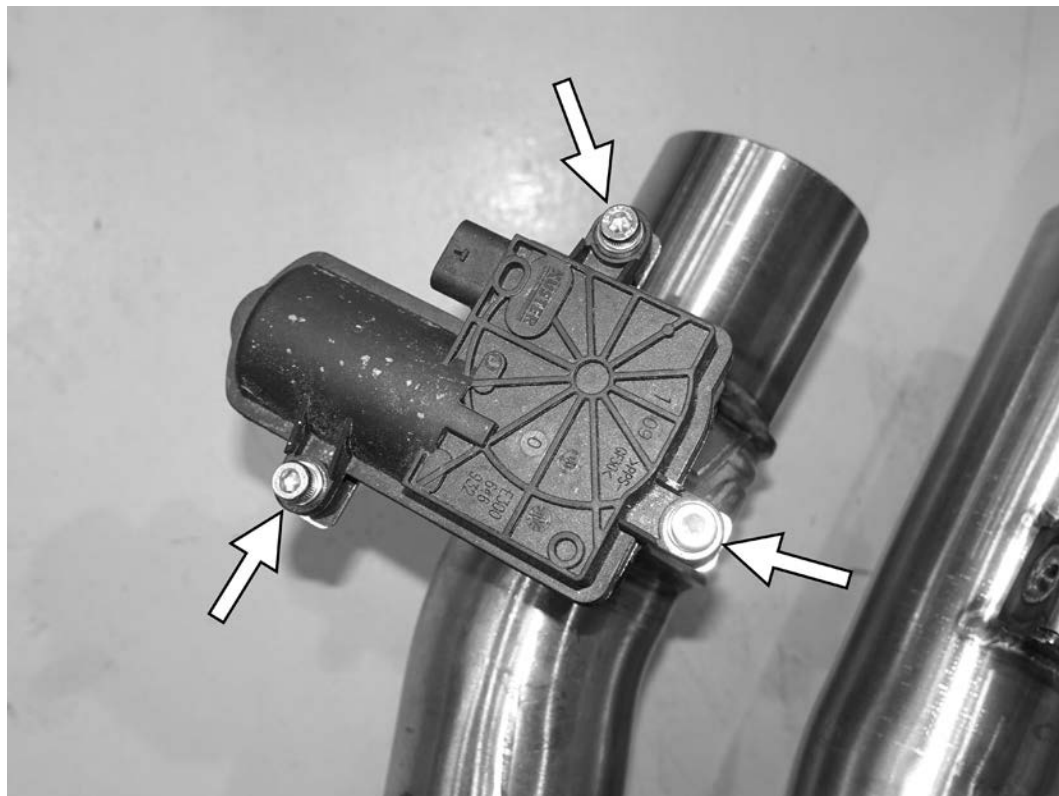


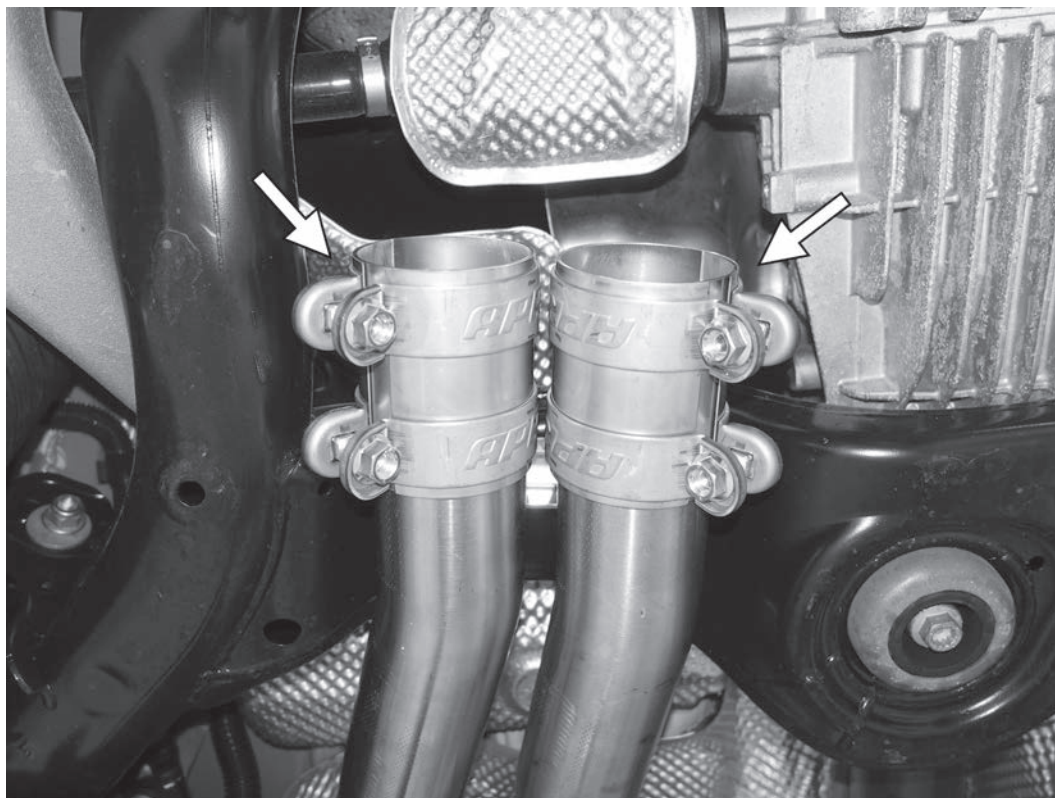
15) On the right rear muffler of the APR exhaust, install the supplied spacer onto the top of the exhaust flap bracket. Ensure the notch on the bottom of the spacer is aligned with the one screw on the mounting bracket that is taller than the other two. Also ensure the rod inside the spacer sits inside the slot at the top of the APR exhaust flap. This slot should also be inline with the exhaust flap inside the pipe.

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16) Install the stock exhaust flap motor onto the APR spacer and secure with the three 4mm allen screws with three flat washers. Contrary to other APR exhausts, make sure the spring on the bottom of the exhaust flap motor does NOT sit in the slot on the top of the APR spacer. On 4.0T cars, the exhaust flap motors will cycle upon startup, and will allow the spring to correctly seat in the spacer. Repeat this process for the left rear muffler, installing the supplied spacer and the left stock exhaust flap motor.

Note that the factory spring may sometimes fall off the flap motor, simply place the spring back on the flap motor before assembly.



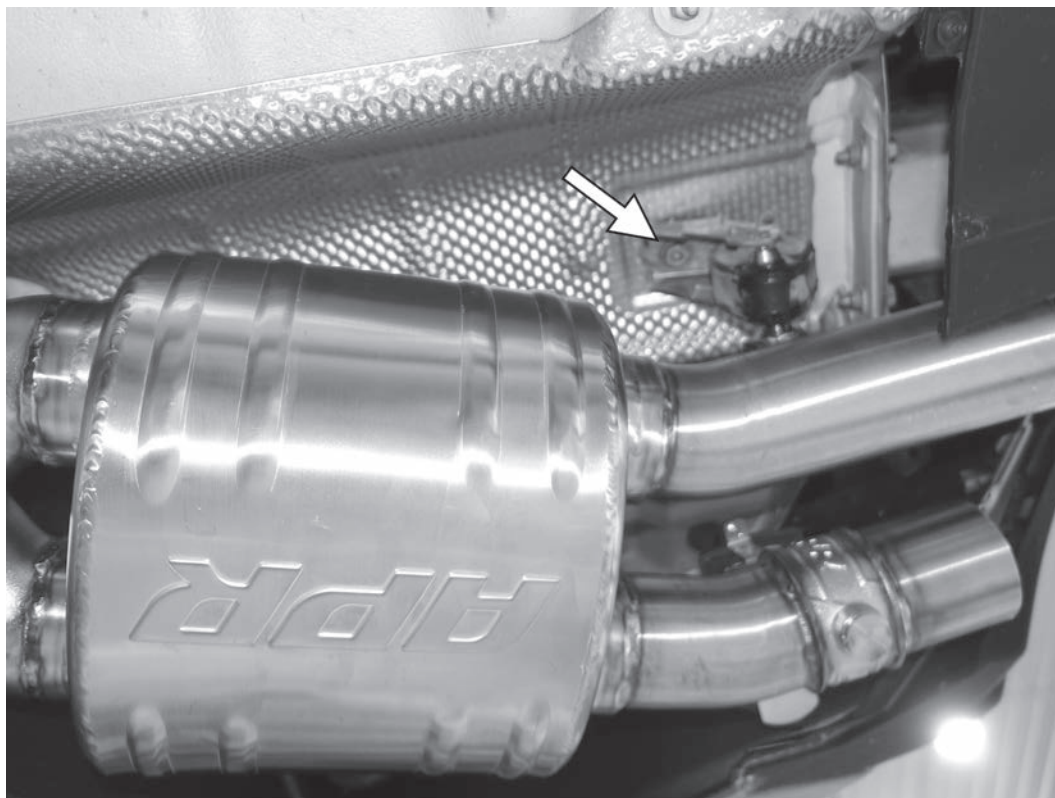


17) Install the two APR sleeve clamps on the back of the APR middle exhaust section as shown.

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18) After noting the orientation of the factory exhaust hanger on the right rear of the car, remove the rubber hanger and bracket from the factory exhaust. Install the factory hanger and bracket on the right rear APR muffler in the same orientation. Repeat this process on for the left factory hanger, and install it on the left rear APR muffler.

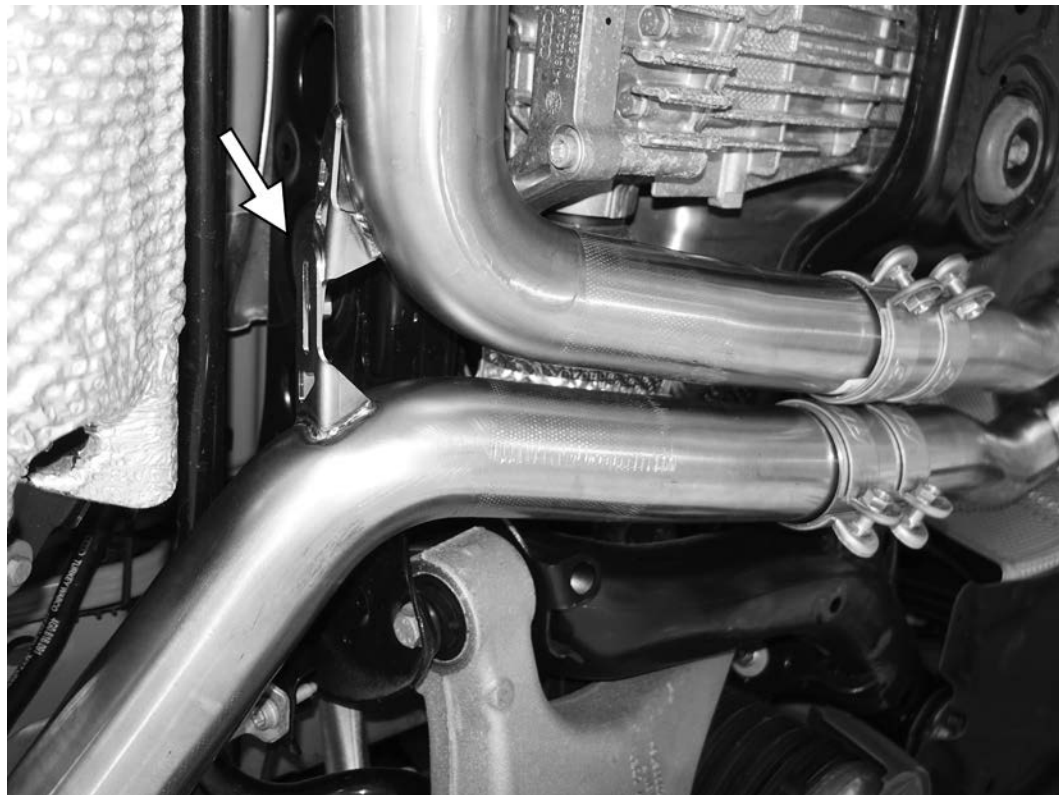


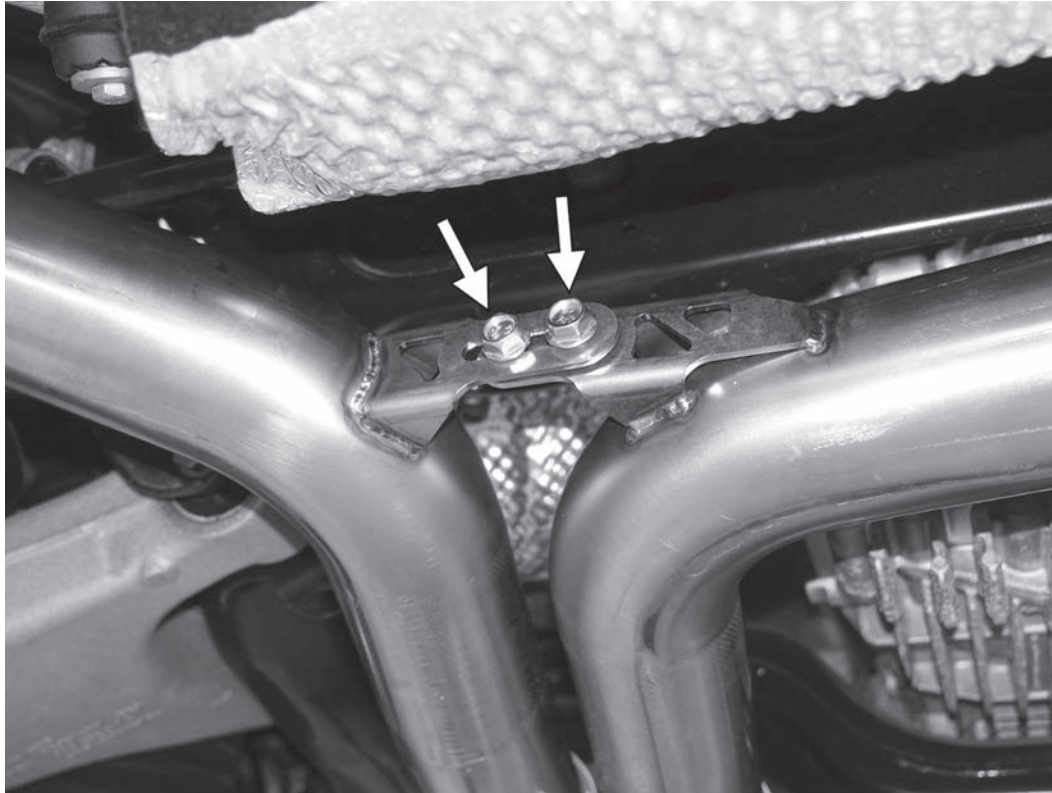


19) Place the right rear APR muffler on the car. Connect the front of the muffler to the right outlet of the APR middle section. Use the factory 13mm bolt to attach the factory hanger back underneath the car. Very loosely tighten the 13mm bolt on the rear hanger.

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20) Install the left rear APR muffler on the car. Connect the front of the muffler to the left outlet of the APR middle section. The bracket in the middle of the left rear muffler should sit behind the bracket of the right rear muffler, as shown. At the back of the rear muffler, use the factory 13mm bolt to attach the factory hanger back underneath the car. Very loosely tighten the 13mm bolt on the rear hanger.

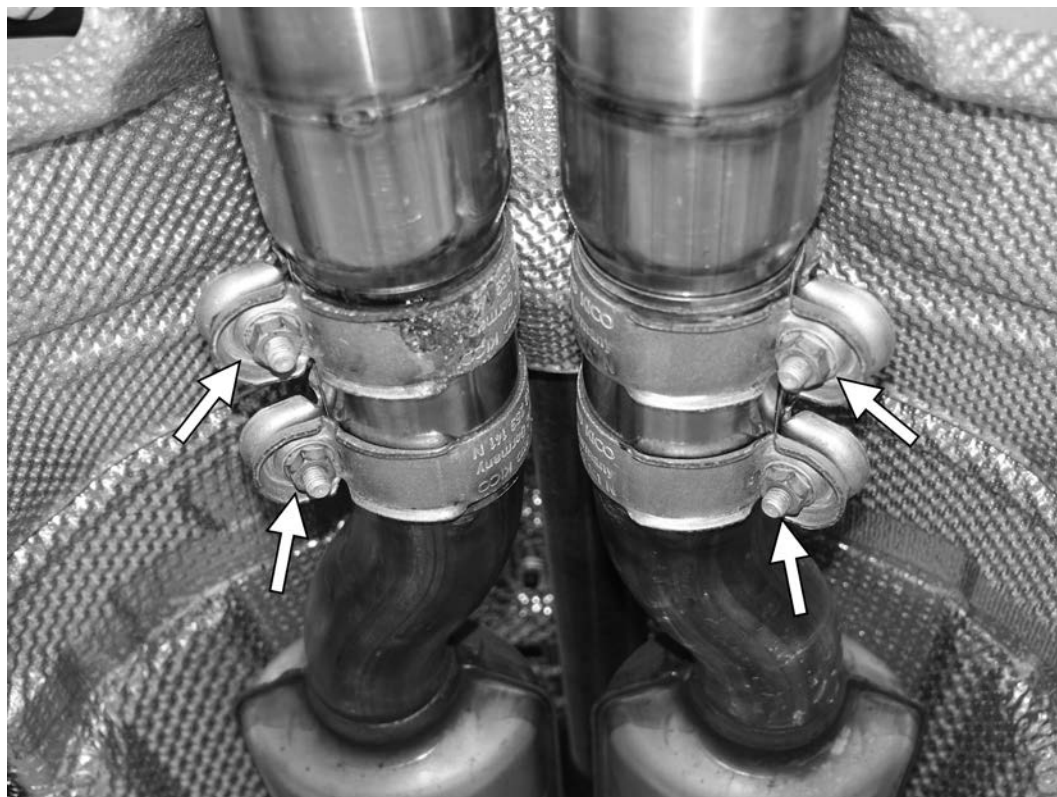


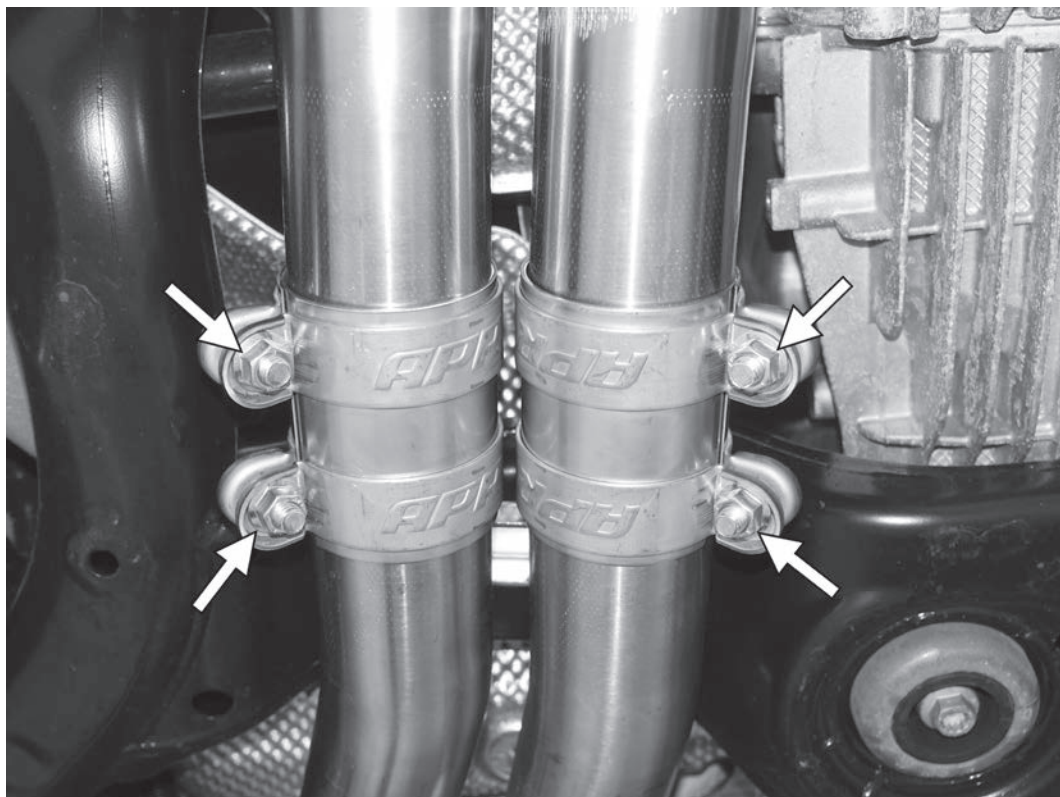


21) Loosely install the two supplied 13mm bolts that hold the left and right rear APR muffler sections together.

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22) Working from the front of the APR exhaust back, begin to adjust and tighten the exhaust system. Start with the stock sleeve clamps connecting to the downpipes. Do not fully tighten the clamps, only snug them up enough where the pipes in them can still be manipulated with enough force. These pipes may have to be moved to the left or right during the fitment process.





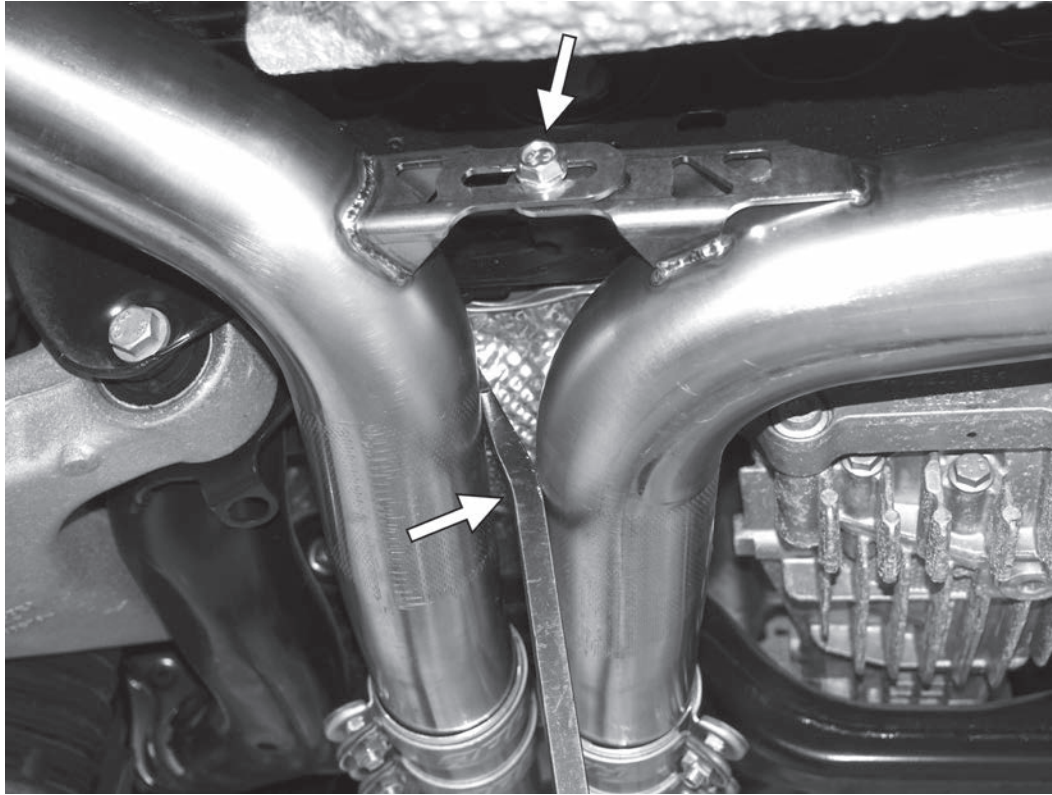
23) Continue the adjusting process on the APR sleeve clamps between the middle section and the rear mufflers. Do not fully tighten the clamps, only snug them up enough where the pipes in them can still be manipulated with enough force.

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24) Inspect the rear mufflers to ensure they both are sitting level to the ground, and rotate the rear muffler sections if necessary. Also adjust the position of the factory rear muffler hangers to help with this.



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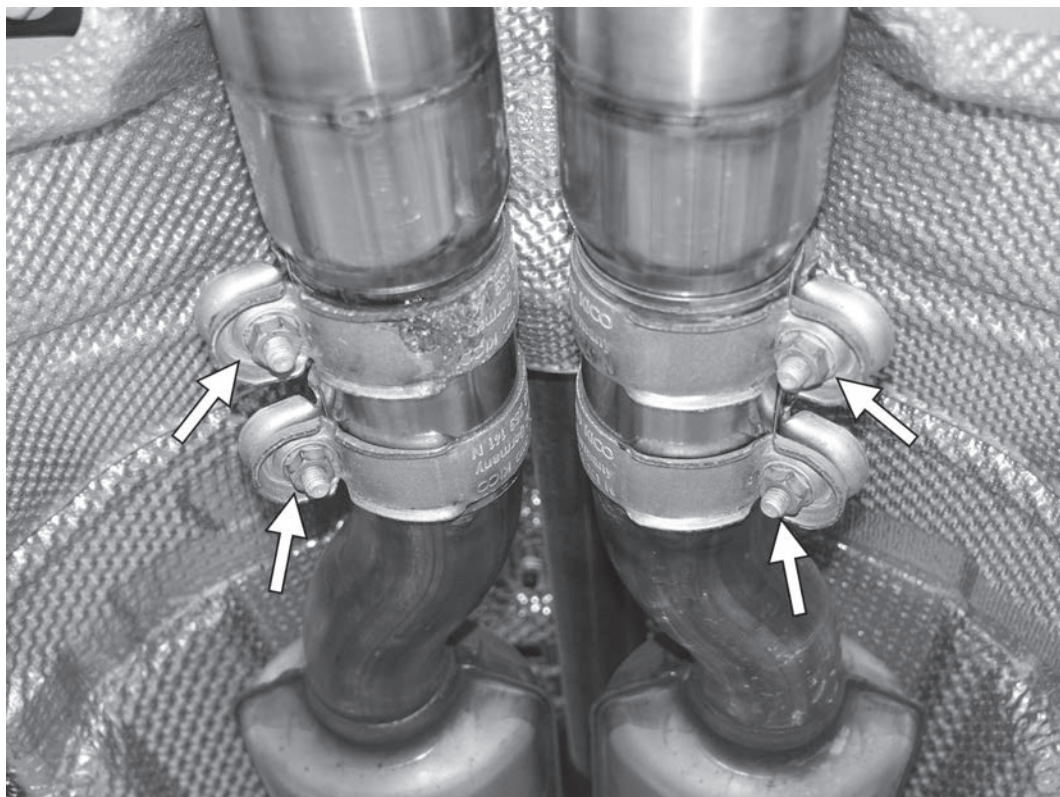
25) Once the rear mufflers are level, adjust the mufflers from side to side so that the outlet pipes are sitting centered in the rear valence. Use a pry bar to separate (or a ratchet strap to bring together) the pipes side to side. In some instances, you will only be able to use one of the two bolts in the cross brace between the rear mufflers. After adjusting the system, tighten down the cross brace bolt(s) and the 13mm bolts on the factory rear muffler hangers.

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26) Install all four rear exhaust tips with the supplied clamps onto the four muffler outlets. Adjust the tips so they sit in the valence as desired. It may be necessary to adjust the position of the mufflers (as shown in the previous steps) to get ideal fitment. Once the tips are in a desired position, tighten the clamps on each tip to 55Nm (40 lb-ft).



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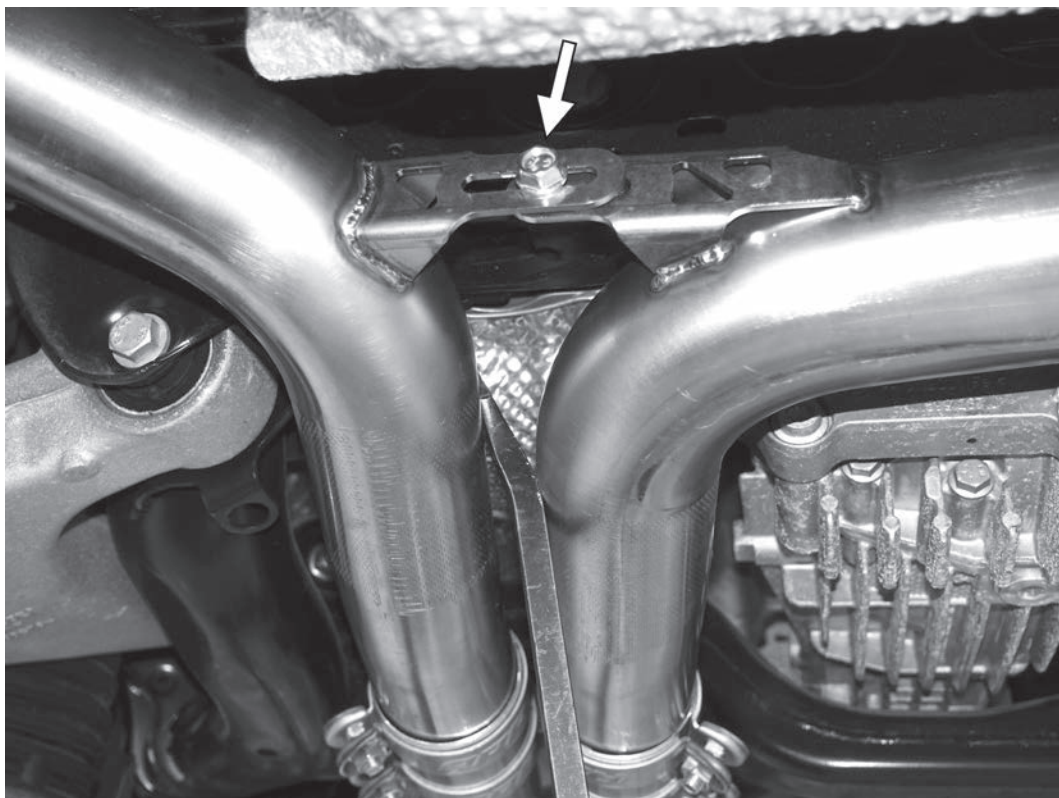


27) Working from front to back, tighten the 13mm sleeve clamps between the downpipes and the APR middle section to 25Nm (18 lb-ft).

28) Tighten the four 15mm nuts on the APR sleeve clamps to 35Nm (29 lb-ft).



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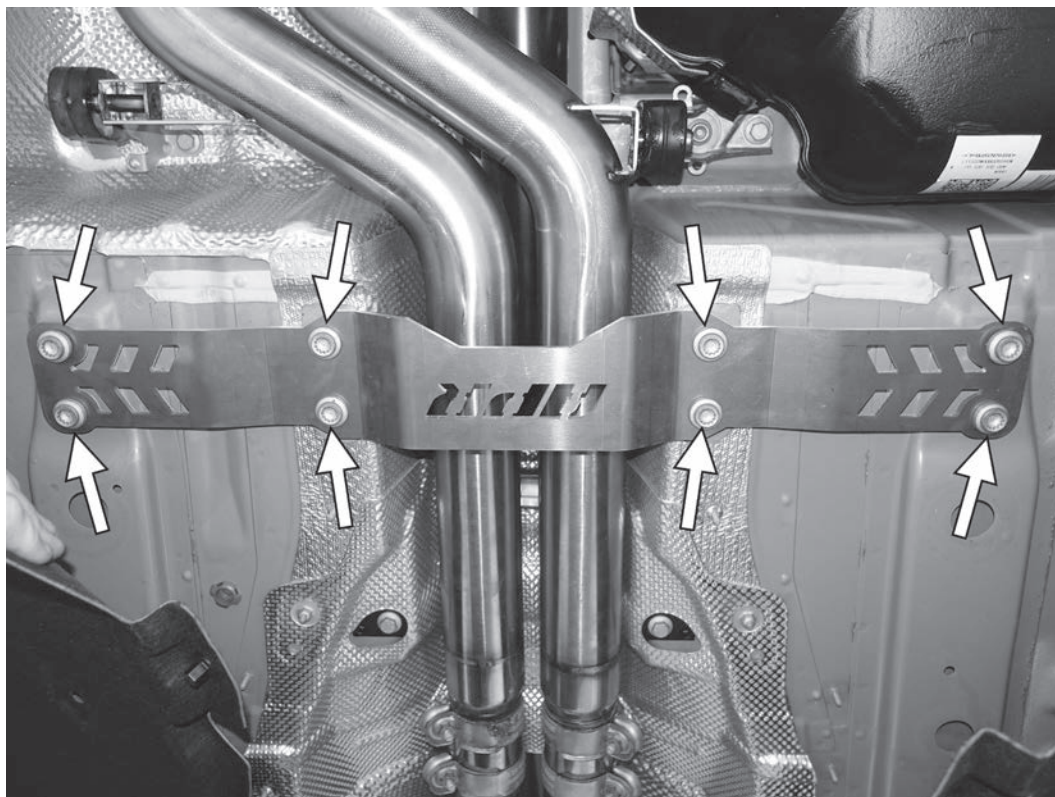


29) Loosen the rear muffler cross brace bolt(s), and then torque the bolt to 25Nm (18 lb-ft). Ensure the position of the rear mufflers do not move while performing this step.

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30) Torque the 13mm bolts on both the right and left rear hanger to 25Nm (18 lb-ft).

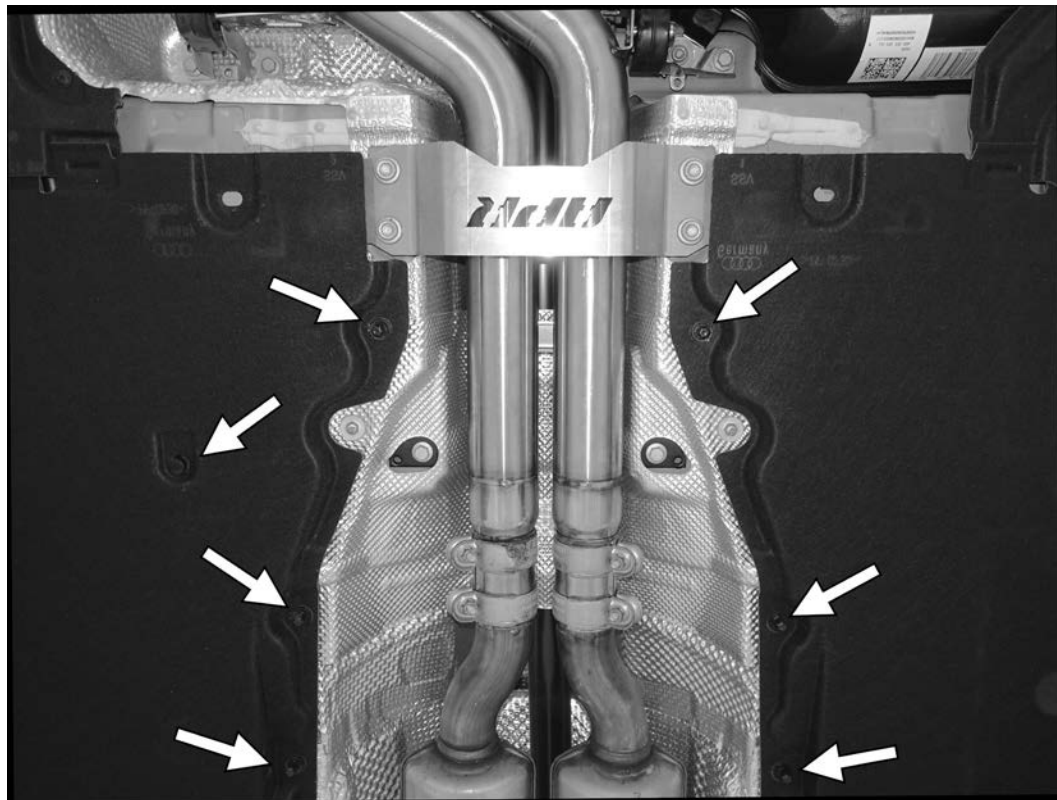




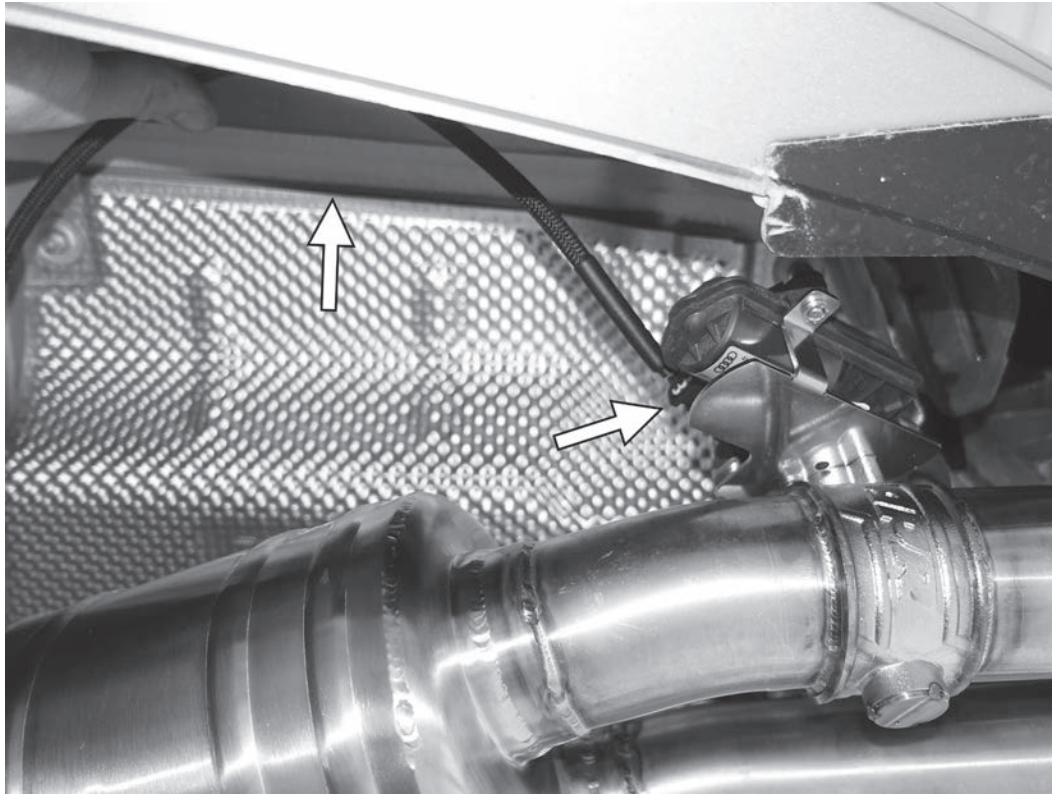
31) Install the APR cross brace as shown with the eight original 12mm triple square screws. Torque all eight to 55Nm (41 lb-ft).

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32) Reinstall the single push pin style fastener on the left underbody panel, in the middle rear of the panel. Reattach the eight M10 plastic nuts (six shown) holding center of both underbody panels near the center tunnel of the car and torque to 2Nm (18 lb-in).



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33) Reconnect the factory wiring harnesses to the exhaust flap motors.

On later cars, the left exhaust valve is in front of the left rear muffler. Install the APR extension harness between the factory connector and the exhaust valve flap motor.

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