

Installation of APR Exhaust System:

(All preliminary notes are the same)

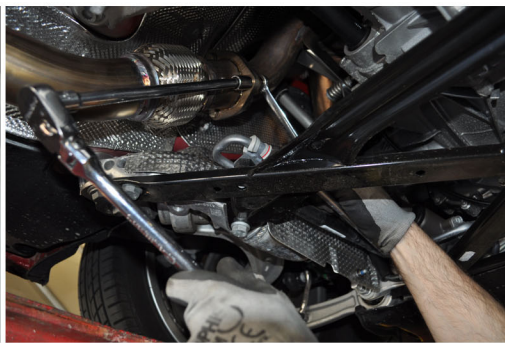
1. Remove all exhaust system components from the shipping carton, including the eight 2.5" exhaust clamps, and the downpipe flange gaskets, bolts, lockwashers, and nuts.
2. Locate the APR downpipe assembly for the driver side, the flange gasket, 3 flange bolts, nuts, and lockwashers. Place the flange bolts with lockwashers through the factory bolt holes on the factory catalytic converter flange, with the head of the bolts toward the catalytic converter side. Use the bolts to align the new gasket and APR downpipe flange to the factory connection point. Hand-thread the three flange nuts onto the flange bolts. Using a 13mm socket and a 13mm wrench, loosely snug the flange bolts at this time. **(SEE FIG. A, B)**
3. Locate the APR downpipe assembly for the passenger side, the flange gasket, 3 flange bolts, nuts, and lockwashers. Place the flange bolts with lockwashers through the factory bolt holes on the factory catalytic converter flange, with the head of the bolts toward the catalytic converter side. Use the bolts to align the new gasket and APR downpipe flange to the factory connection point. Hand-thread the three flange nuts onto the flange bolts. Using a 13mm socket and a 13mm wrench, loosely snug the flange bolts at this time. **(SEE FIG. C, D)**
4. Locate the APR Crossover Pipe "X-O Pipe" Assembly and two 2.5" clamps. Slide one clamp over the outlet of each downpipe. While supporting the rear of the X-O pipe using a jackstand or other support and with the X-O Pipe bracket facing up, slide the expanded ends of the X-O pipe assembly over the outlets of the downpipes. Now, slide the clamps over the pipe expansion and loosely snug the clamps using a 15mm socket and ratchet. Keep the X-O Pipe supported until installation is complete. **(SEE FIG. E, F, G, H, I)**
5. Locate the APR Tunnel Muffler Assembly and two 2.5" clamps. Slide one clamp over each inlet of the tunnel muffler assembly. Insert the hangers into the factory rubber grommets. A soapy water solution will aid in the installation process of the hangers. While supporting the rear of the tunnel muffler, loosely snug the 2.5" clamps at the front of the tunnel muffler assembly using a 15mm socket and ratchet. Keep the tunnel muffler supported until installation is complete. **(SEE FIG. J, K, L, M, N)**
6. Locate the APR passenger side axle pipe and one 2.5" clamp. Slide the 2.5" clamp over the expanded end of the axle pipe and slide the expansion over the passenger side outlet of the tunnel muffler. Loosely snug the clamp using a 15mm socket and ratchet. **(SEE FIG. O, P)**
7. Locate the APR driver side axle pipe and one 2.5" clamp. Slide the 2.5" clamp over the expanded end of the axle pipe and slide the expansion over the driver side outlet of the tunnel muffler. Loosely snug the clamp using a 15mm socket and ratchet. **(SEE FIG. Q, R, S)**
8. Locate the APR driver side rear muffler and one 2.5" clamp. Slide the 2.5" clamp over the expanded end of the rear muffler and slide the expansion over the driver side axle pipe outlet. Insert the hanger into the factory rubber grommet. Loosely snug the clamp using a 15mm socket and ratchet. **(SEE FIG. T, U, V)**
9. Locate the APR passenger side rear muffler and one 2.5" clamp. Slide the 2.5" clamp over the expanded end of the rear muffler and slide the expansion over the passenger side axle pipe outlet. Insert the hanger into the factory rubber grommet. Loosely snug the clamp using a 15mm socket and ratchet. **(SEE FIG. W, X, Y)**
10. Locate the APR exhaust tips and tip hardware (3 button head socket cap screws & 3 lock washers per tip). Do not remove protective covering until installation is complete. Pay close attention to each tip and its proper location, as all four are specific to driver/passenger side and inner/outer tip. Bolt-on each tip

making sure that tips are aligned rotationally and running parallel with the length of the vehicle. Do not completely tighten bolts until the entire system has been aligned and all clamps have been torqued.

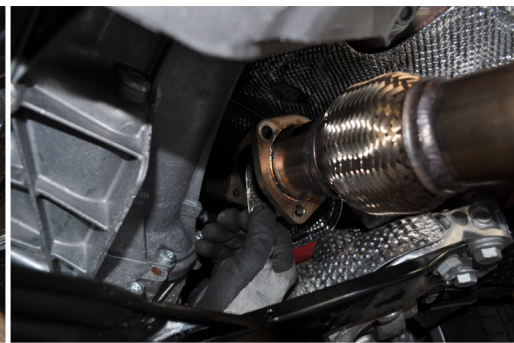
- 11.** Visually inspect the exhaust system position, tip alignment, clamp orientation, and exhaust system clearances. Make any necessary adjustments at the clamp joints.
- 12.** Reinstall the factory underbody tray and tunnel cross brace reusing the original factory hardware.
- 13.** Once the exhaust system is in the desired location, starting at the front of the system, tighten all flange bolts to 35 ft-lbs. and all TORCA exhaust clamps to 45 ft-lbs. After all clamps have been tightened, remove supports from X-O Pipe and Tunnel Muffler. Re-check X-O Pipe clearance, between the heat shields and the tunnel cross brace should be evenly spaced, loosen clamps and readjust if necessary.
- 14.** Reconnect the negative battery terminal. Let the car sit for at least three minutes with the ignition key on and engine off. Close the hood. Installation is now complete.
- 15.** It is **STRONGLY SUGGESTED** that all clamps be checked and re-tightened (if necessary) to the recommended torque after initial road testing of the vehicle, as thermal cycling has occurred on the system. Please wait until system has fully cooled to perform this step.



AUDI B8 S4 FIG. A.jpg



AUDI B8 S4 FIG. B.jpg



AUDI B8 S4 FIG. C.jpg



AUDI B8 S4 FIG. D.jpg



AUDI B8 S4 FIG. E.jpg



AUDI B8 S4 FIG. F.jpg



AUDI B8 S4 FIG. G.jpg



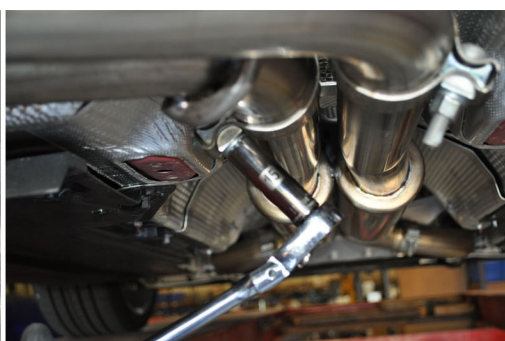
AUDI B8 S4 FIG. H.jpg



AUDI B8 S4 FIG. I.jpg



AUDI B8 S4 FIG. J.jpg



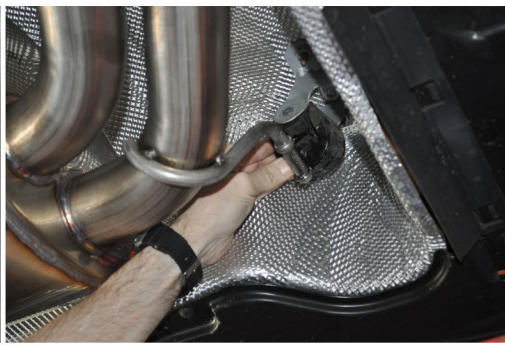
AUDI B8 S4 FIG. K.jpg



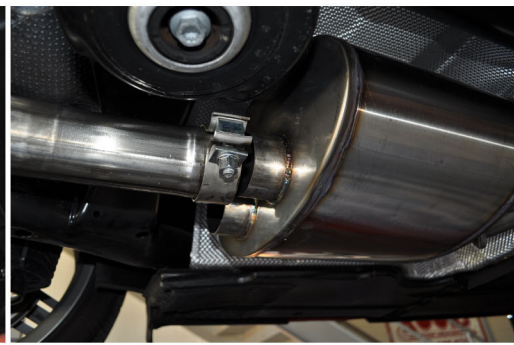
AUDI B8 S4 FIG. L.jpg



AUDI B8 S4 FIG. M.jpg



AUDI B8 S4 FIG. N.jpg



AUDI B8 S4 FIG. O.jpg



AUDI B8 S4 FIG. P.jpg



AUDI B8 S4 FIG. Q.jpg



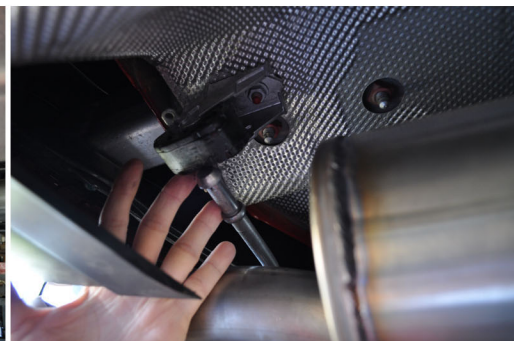
AUDI B8 S4 FIG. R.jpg



AUDI B8 S4 FIG. S.jpg



AUDI B8 S4 FIG. T.jpg



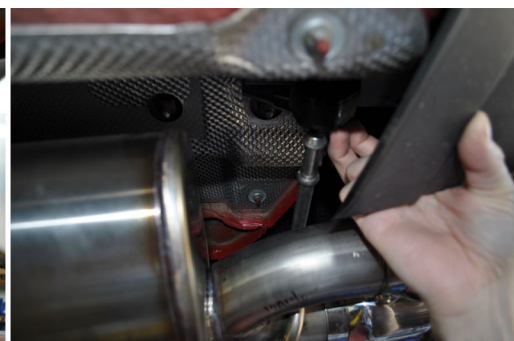
AUDI B8 S4 FIG. U.jpg



AUDI B8 S4 FIG. V.jpg



AUDI B8 S4 FIG. W.jpg



AUDI B8 S4 FIG. X.jpg



AUDI B8 S4 FIG. Y.jpg