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STEP	TOOLS NEEDED	INSTRUCTIONS	PHOTO
1	10mm Wrench	If the fuel system will be opened, there is potentially residual pressure in the fuel lines. It is recommended to disconnect the green fuel pump relay (shown) in the fuse box next to the battery. Run the engine until it stalls. Disconnect the negative battery terminal.	
2	17mm Wrench Pliers 12mm Wrench	Reference the Factory Service Manual to remove the upper intake manifold and all associated vacuum lines, oil lines, solenoids, etc. The lower intake manifold can remain installed. Disconnect the fuel lines with a 17mm wrench and pliers. Unscrew the fuel rail mounting bolts using a 12mm wrench. Remove the fuel rail assembly from the vehicle and drain all of the remains in a fuel safe container. Place the assembly on a work bench. For protection, cover the intake manifold and injector ports to prevent debris from accidentally falling into the engine.	
3	10mm Socket	Remove the three M6 nuts and pull the ACV off the intake manifold.	
4	10mm Wrench 10mm Socket	To remove the OEM ACV mounting studs, install two of the OEM M6 nuts onto each stud. Mate the flange sides together. Next, lock them together, as shown.	

5	10mm Wrench	Unscrew the lower nut to loosen and remove each stud from the intake manifold, as shown.	
6		Inspect the ACV gasket (shown). Replace if necessary. Mazda P/N: N3A3-13-996	
7	4mm Allen Wrench	Place the ACV gasket down and then the Radium delete plate. Tighten using the supplied screws. Reinstall all components in reverse order. **Installation Complete**	