

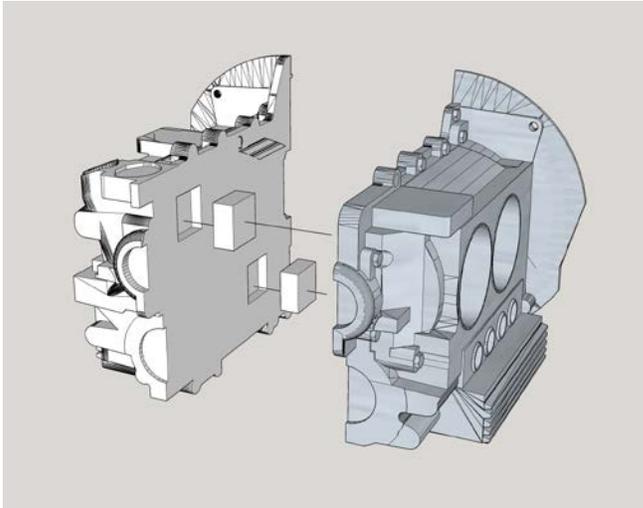
Volkswagen Air-cooled Engine Model

Assembly Instructions (v1.0)

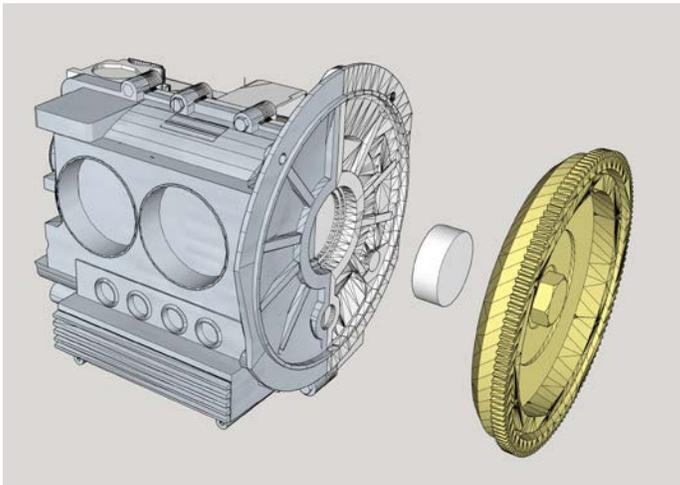
NOTES:

- This is a suggested assembly order. You may assemble the parts in whatever order works best for you.
- Be sure to remove all support material from the holes for the connection dowels. Otherwise the parts may not seat together completely.
- Although the designer has attempted to minimize it, there may be some parts that require a bit of filing or sanding for proper fit.
- Glue is necessary for most parts.

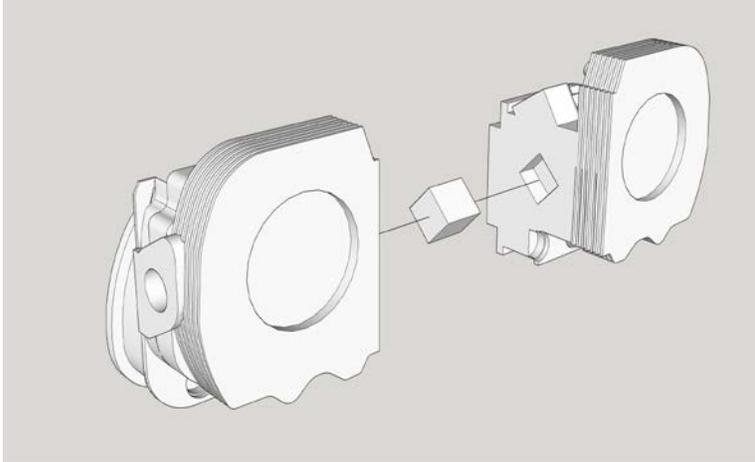
1. Assemble the engine case halves using the two square connection dowels.



2. Assemble the flywheel and round connecting pin to the assembled case halves.

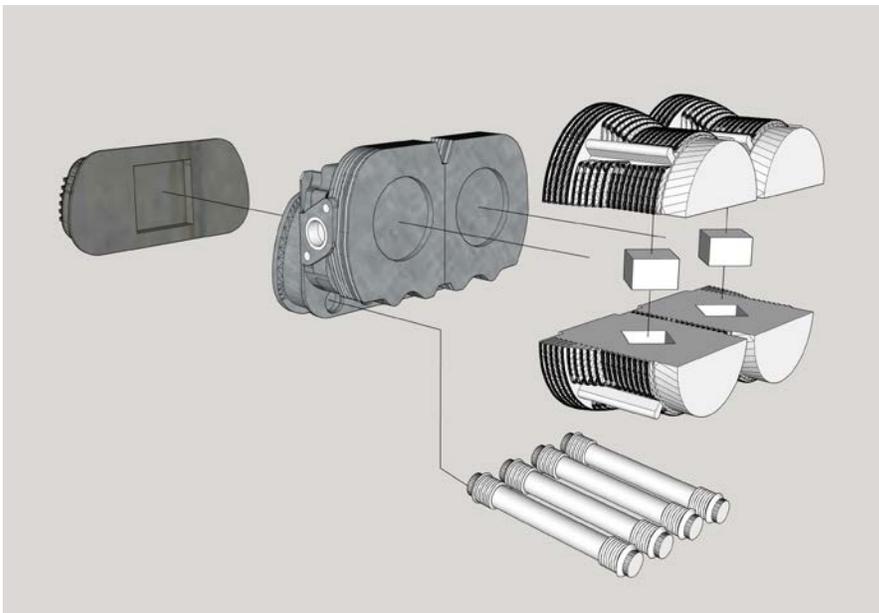


3. Assemble the cylinder head halves using a square connection dowel. Make two sets of these.

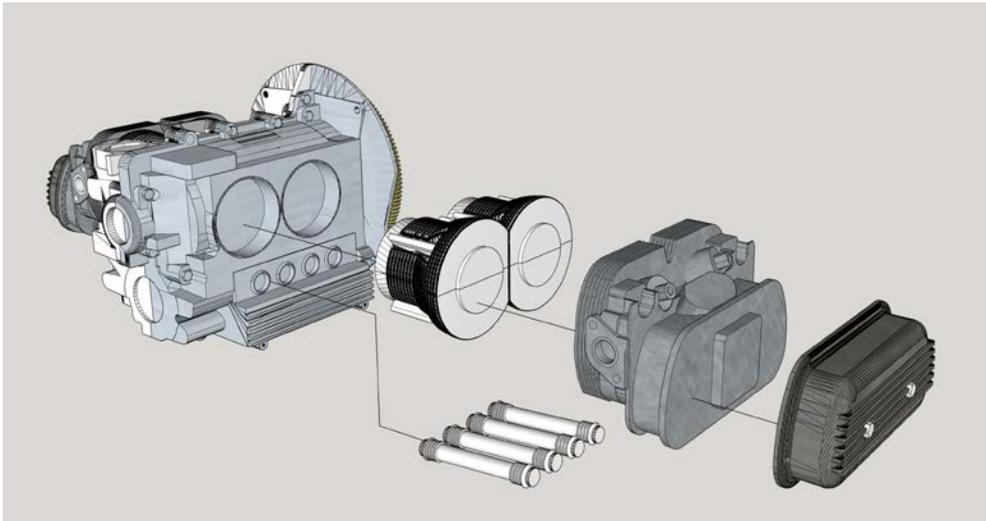
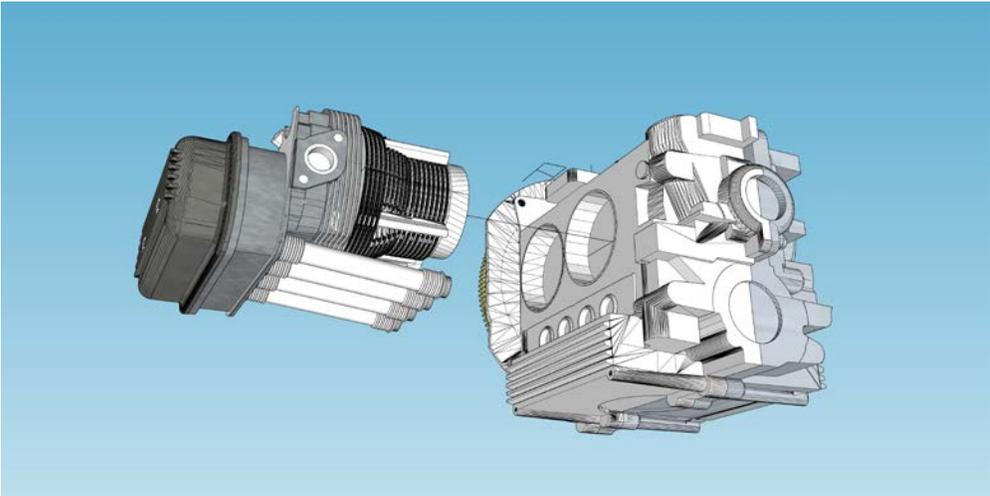


4. Assemble the cylinder barrel halves using square connection dowels. Make four sets of these. Assemble two cylinder barrels to the cylinder head using glue, and glue a valve cover to the cylinder head. Make two sets of these assemblies.

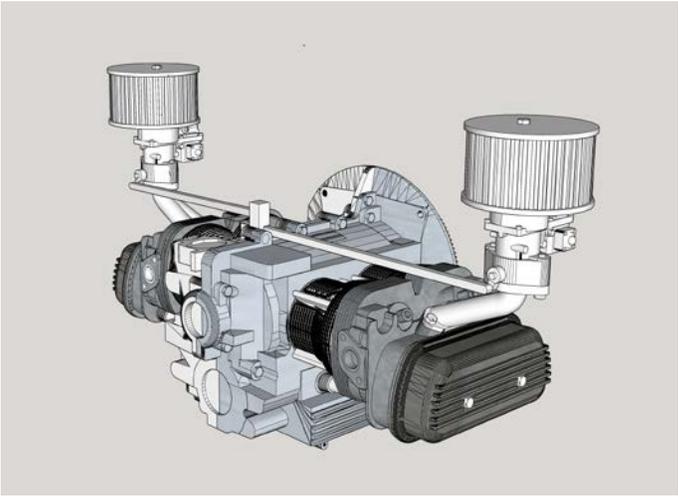
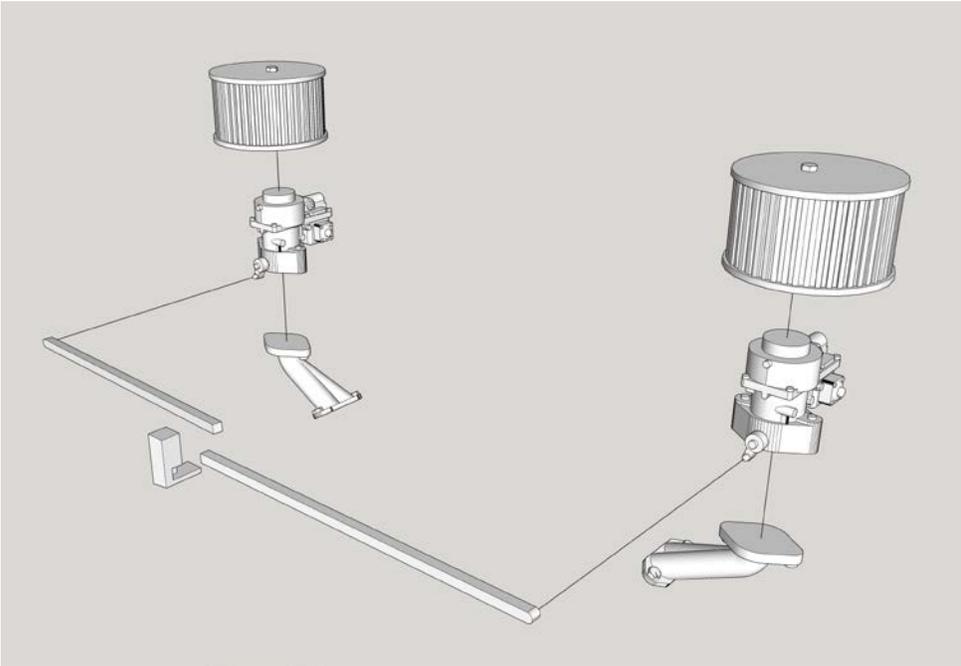
NOTE: The picture shows the position of the pushrod tubes. Do not glue these in place yet.



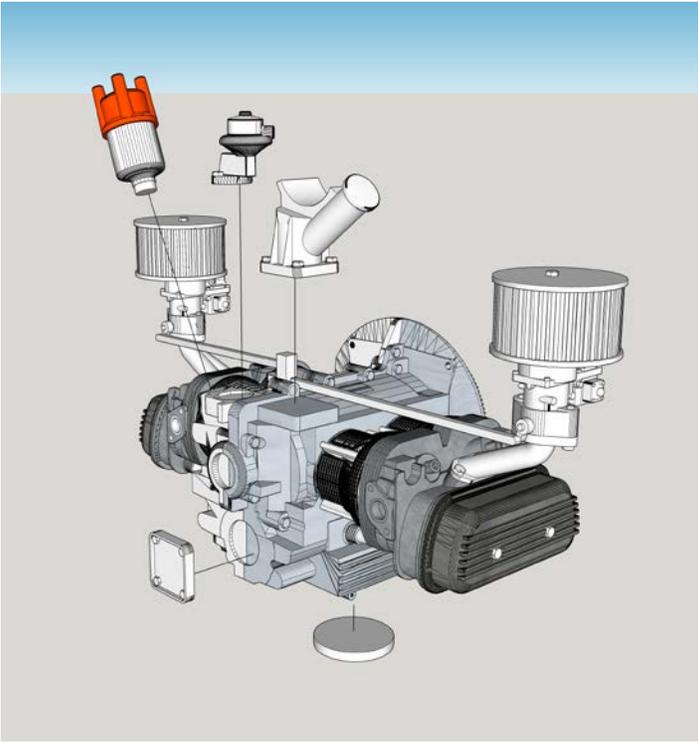
- 5. Glue the cylinder head/cylinder barrel assemblies to the engine case assembly as shown. Position the pushrod tubes so that they are captured between the cylinder head and the case on each side. Glue the pushrods in place.



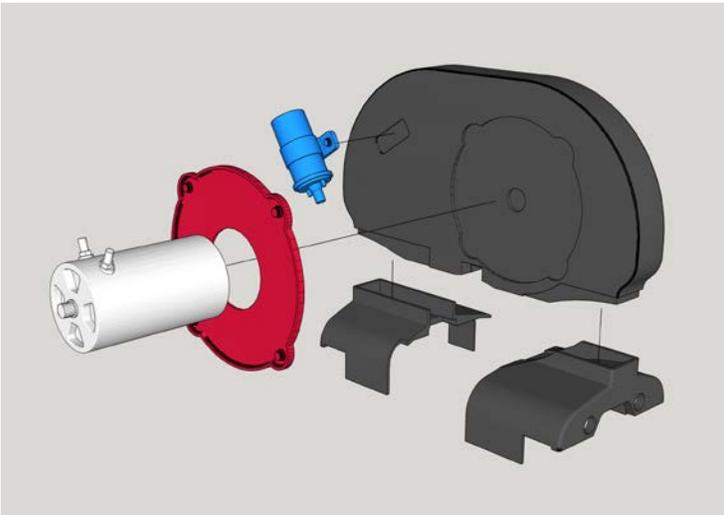
6. Assemble the carburetors to the intake manifolds as shown, and then install these assemblies to the cylinder heads as shown. Install the carburetor linkages after gluing the carburetor/manifold assemblies to the cylinder heads. The picture shows the air cleaner positions; wait to install these until after the fan housing assembly has been installed. (see Step 9)



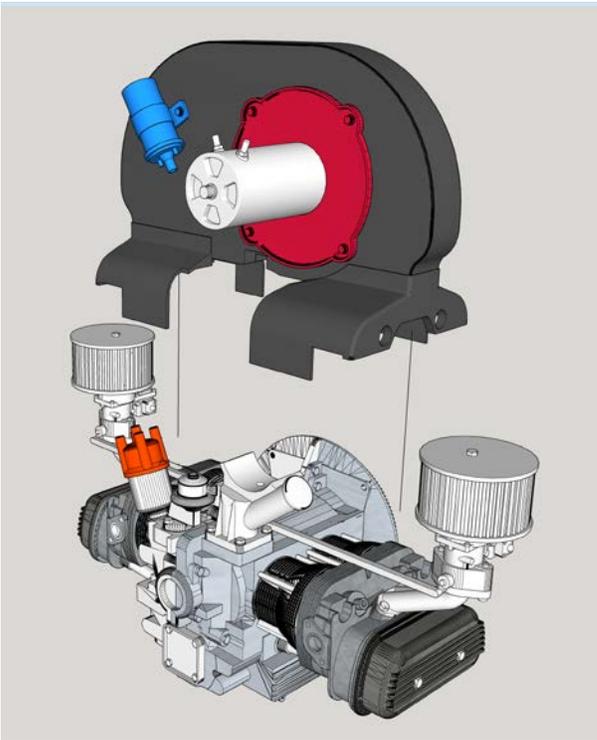
7. Glue the distributor and cap, fuel pump, generator stand, oil pump cover and oil strainer cover to the engine case assembly as shown.



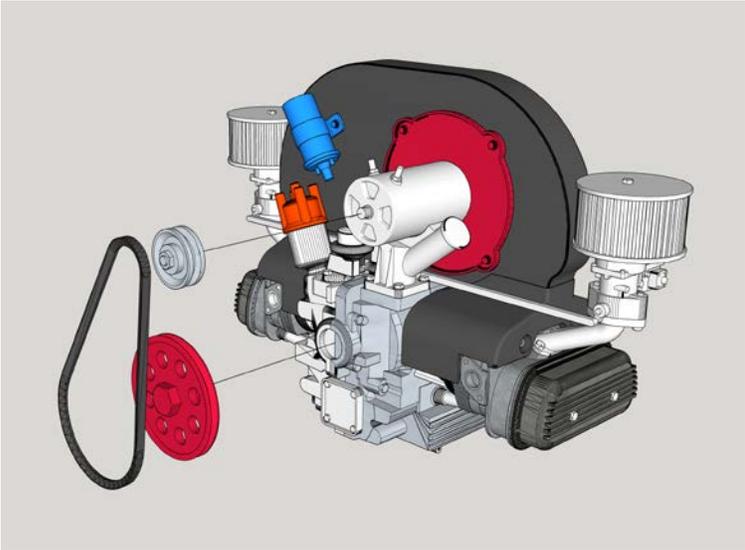
8. Assemble the ignition coil, generator and generator plate, and cylinder shrouds to the fan housing as shown.



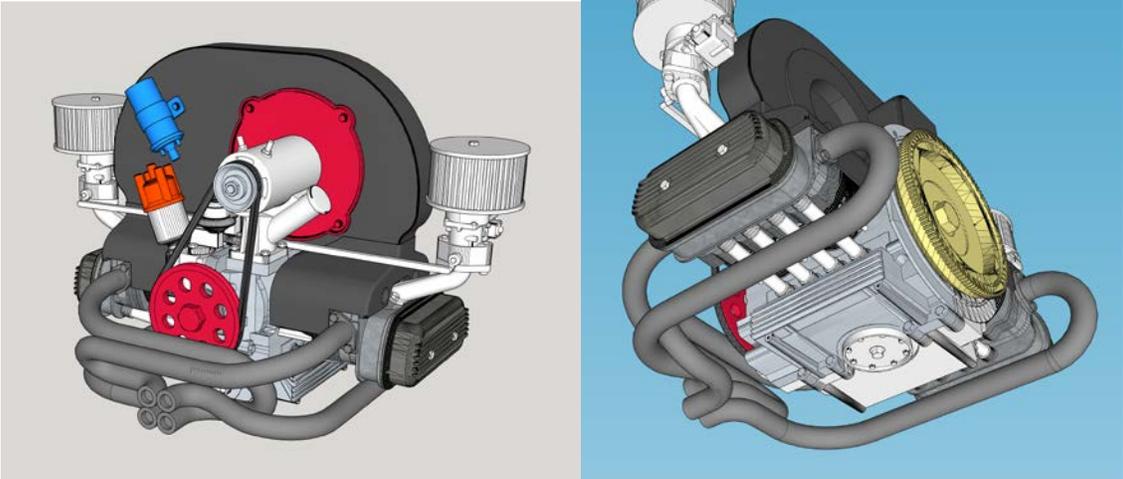
9. Assemble the fan housing assembly to the engine case assembly as shown. Install the air cleaners to the carburetors now, rotating them for clearance with the fan housing.



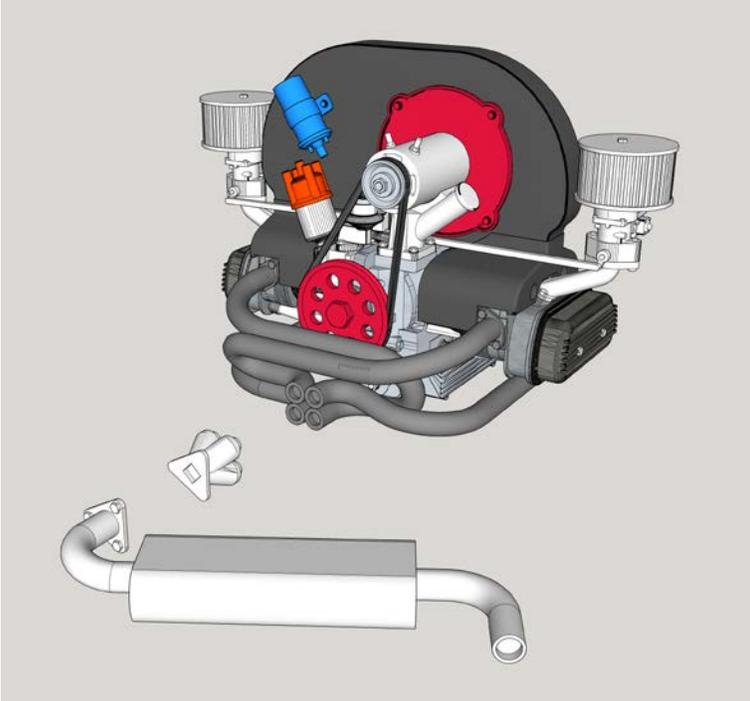
10. Assemble the crank pulley and round connection pin (not shown) to the engine case. Assemble the fan belt onto the crank pulley and then install the generator pulley to the generator with the belt attached to it.



11. Install the exhaust pipes to the ports on the cylinder heads as shown.



12. Install the exhaust collector and muffler to the previously installed exhaust pipes.



Assembly is complete!

