



DDMWorks Powdercoated Valve Cover Installation



Powdercoated Valve Covers really dress up the engine bay. Installation is relatively easy and this is one of the biggest visual improvements you can make to the engine bay!



If you are pretty handy with tools this Valve Cover can be installed in less than 30 minutes, however we suggest that you schedule at least an hour for the installation.

If you have any questions during the installation you can call or text (864) 907-6004 or email us at Tech@ddmworks.com.

TOOLS NEEDED	QTY	PART DESCRIPTION
10mm socket with extension	1	Powder Coated Valve Cover
Side Cutters	15	Hardware
Torque Wrench	1	Gasket
Screw Driver or Torques bit		
5mm Allen		

1. Disconnect the negative terminal from the battery.
2. Make sure that the car engine is cool to the touch and you are in a well ventilated area away from open flames.



119-A Hwy 183
Piedmont, SC 29673

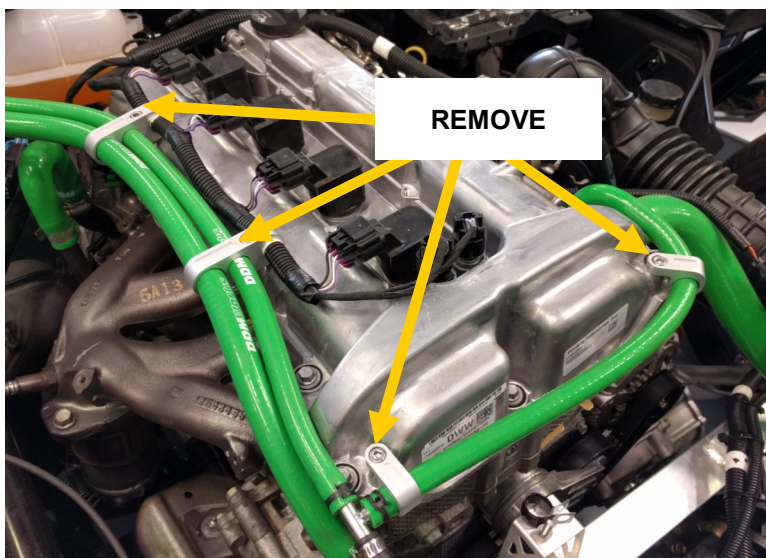
Tech Support

(864) 907-6004 (call or text)
Email: Tech@DDMWorks.com



Removing stock valve cover

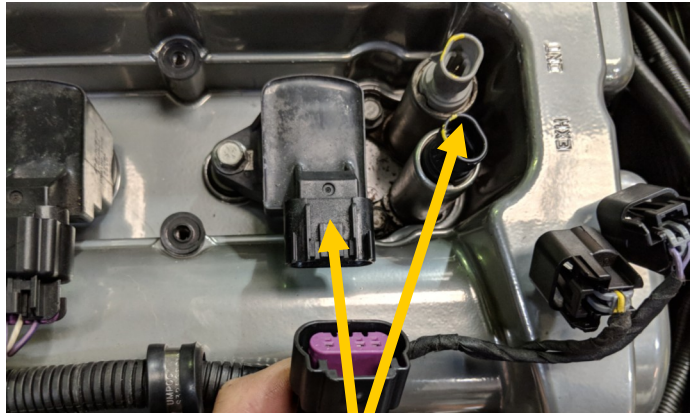
1. Make sure your slingshot's engine is cool to the touch and that you have not started the engine for a few hours. You will be working on the engine and these parts could be quite hot.
2. If you have a Coil Cover we will start by removing that first. If you have a **DDMWorks** Coil Cover you will use a 5mm Allen wrench to loosen the bolts. Once the bolts are loose, remove the bolts and lift the coil cover off. Make sure to collect all of the hardware, you will need it to re-install the coil cover later.
3. Next you will need to remove the wiring harness / hose holders. There are a few types of these out there so use the correct tool to remove the wire / hose holders from your valve cover.



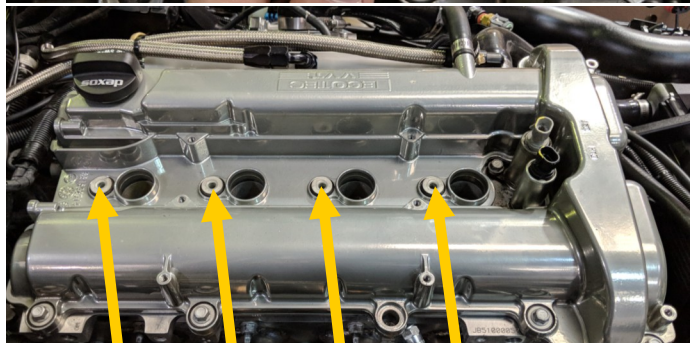


Removing stock valve cover—continued

4. Now its time to unplug the two cam actuators by carefully pressing down on the tab with your thumb to release the locking clip then pull it straight up. You can then move onto the four coil pack plugs using the same technique, push down on the tab with your thumb and pull the plug straight back and off of the coil pack.
5. With everything unplugged you can flip the wiring harness back toward the dash/windshield and out of the way for now. Then, using a 10mm socket, remove the 4 bolts holding the coil packs down and pull the coil packs straight up and out. Set them off to the side in a clean area for now.
6. Next the breather hose for the air intake needs to be removed. You will have some type of clamp you will have to loosen depending on your setup. Also if you have an upgraded fuel rail you will have to remove the two bolts holding it on and pull it back enough to access the valve cover bolts.



Unplug the cam Actuators and the coil packs



Remove the 4 bolts holding the coil packs

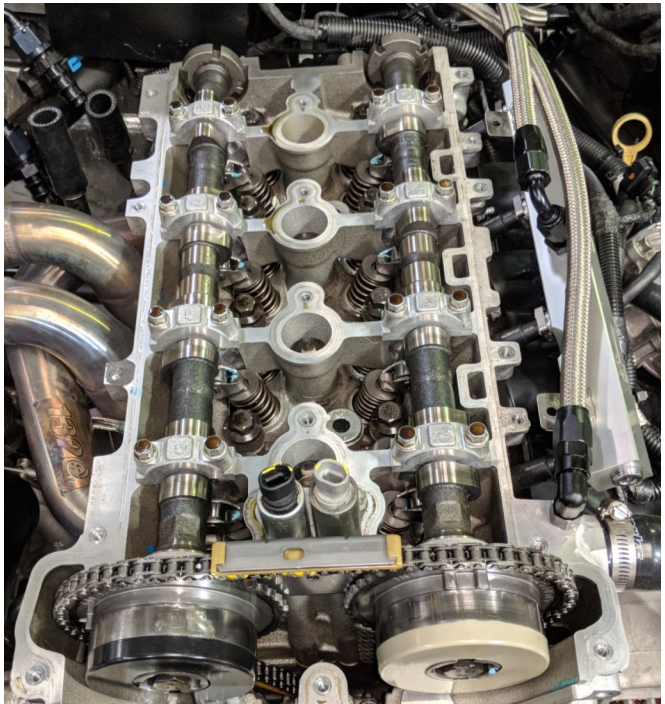
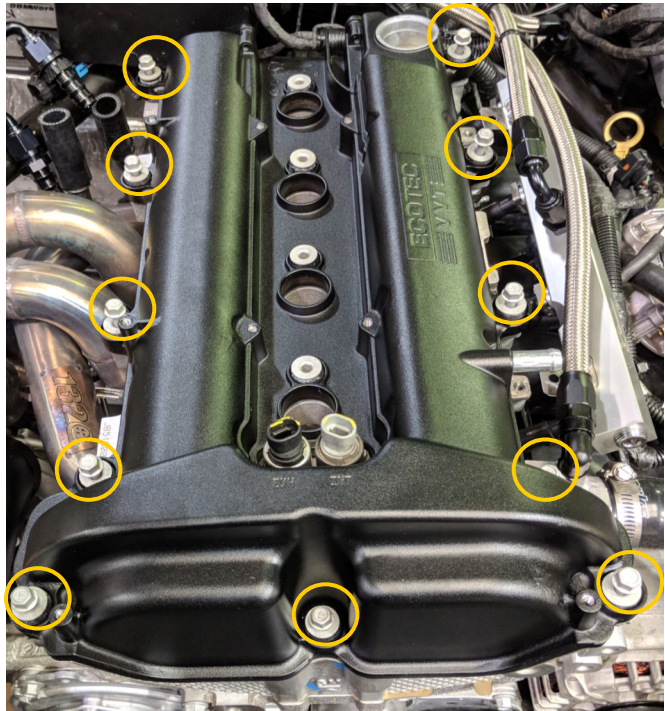


Remove the breather line and bolts holding the fuel rail



Removing stock valve cover—continued

7. With everything else disconnected and clear of the valve cover it is time to loosen the remaining 11 bolts around the outside of the valve cover. Use the 10mm socket to loosen the bolts, they should stay in the valve cover being partially held in place by the valve cover gasket. It is ok if some of them come all the way out, just be careful not to drop them into the engine.
8. With all of the bolts loose, carefully lift the valve cover straight up and off of your engine. If the valve cover is sticking and is hard to lift off first double check that all of your 11 bolts are loose. Then gently use a flat head screw driver to lift around the edges of the valve cover. Sometimes you just need a little extra help to break the seal of the gasket to the cylinder head.

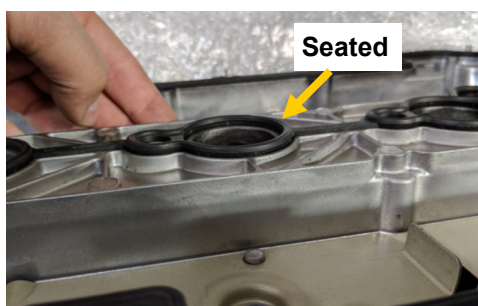
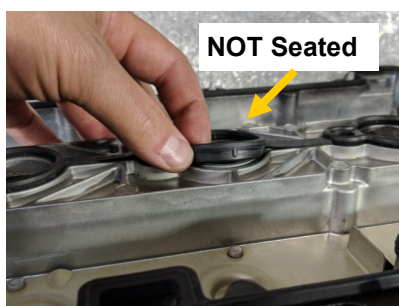


Valve Cover Removed



Powder Coated Valve Cover Installation

1. Carefully unpack your new powder coated valve cover. Be careful not to loose any of the new hardware included with the cover.
2. The new valve cover also comes pre loaded with a new gasket. Just make sure your new gasket is seated properly into the valve cover.



3. Wipe away any dirt and oil left around the edges of your cylinder head. Using your finger and some clean oil rub a little of the oil onto the new gasket to help it seat down onto the cylinder head. Then carefully line the new valve cover up and lower it down onto your cylinder head.
4. Wiggle the valve cover around a little until the bolts line up with the holes. Using your fingers go around the outside 11 bolts and just get them started into the cylinder head. Do Not Tighten them at this time.





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5. With all of the outside bolts started, reinstall the 4 coil packs down into the spark plug tubes. Start those 4 bolts by hand as well before tightening them down with a torque wrench to 10 NM or 7 ft. lbs.
6. Tighten the 11 outside bolts down using a torque wrench to 10 NM or 7 ft. lbs. Start in the middle and work your way out in a crossing X pattern.
7. Go back and double check the coil pack bolts with the torque wrench after the outside bolts have been torqued down.
8. Now that the valve cover has been installed and torqued down properly, reverse the process of removing all of the accessories that were attached to the valve cover. Reinstall the wiring harness onto the coil packs and cam actuators. Reinstall the fuel rail and wire / hose holders. Don't forget the breather hose for the air intake and your coil cover if you had one on. Transfer your Oil Cap from your old cover to the new one. If you loosened the bolts for the fuel rail, make sure to tighten them also.
9. Double check your work, make sure everything is tight and secure. Make sure the gasket is seated properly.

Congratulations! You have successfully installed your new Powder Coated Valve Cover

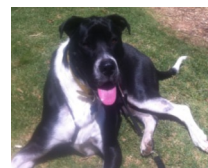


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Tech Support

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This product is
Jake the
Supercharger
Dog
Approved!

