

# smoking on start up.

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[Adam Thompson](#) 86 posts since Dec 8, 2015

**smoking on start up.** Feb 26, 2018 3:49 PM

good morning everyone. we have a head scratcher.....

we have had 2 DDEC 4 series 60 engines that have bad smoking on start up. appears to be overfueling. these are both 6067pk60 engines.

we have tried a 10k ohm resister in line of the intake temp sensor as per the csc. it was not successful.

both of these engines have been overhauled in the last 2 years. all part numbers are correct for the cylinder kits as well as injectors and camshaft.

we have also tried test ecms with no luck.

after some research we believe the cylinder kits maybe the issue.

can anyone verify that the cylinder kits made by Detroit have been generalized to a 16:1 ratio?

did the old PK's use a 17:1 ratio?

the factory has advised us the make them BK engines to solve the issue.....

Thank you



[Scott Trippel](#) 3,958 posts since Dec 13, 2014

**Re: smoking on start up.** Feb 26, 2018 8:19 PM

Have you checked for air in the fuel return?

What is the smoke color, grey?



[Adam Thompson](#) 86 posts since Dec 8, 2015

**Re: smoking on start up.** Feb 26, 2018 8:44 PM

Greyish blue.

When the exhaust manifold is removed. No oil is found. But no soot either! It looks like it is clear coat over the soot. We have replaced heads and injectors. And verified no air in fuel.

On a cold start it will smoke like a leaking injector tip. Once it warms up its fine. In the summer it's fine.

It's just cold starts. The smell of raw fuel will burn the eyes out of your head. Until its timing changes. Than its great.



[Kevin Flottmeyer](#) 169 posts since Nov 11, 2014

**Re: smoking on start up.** Feb 26, 2018 8:48 PM

When our shop had this problem with an engine that was just overhauled we put a 100 ohm resistor in intake temp sensor. We also had a hard time figuring out what was wrong until we put the resistor in the temp sensor.

You might want to try a 100 ohm resistor.

smoking on start up.



[Adam Thompson](#) 86 posts since Dec 8, 2015

**Re: smoking on start up.** Feb 26, 2018 8:52 PM

100ohm? Right on. I'll give that a try. Csc advised a 10k ohm. It did nothing. We will try 100. Luckily the owner is always close to the shop and he is very understanding. Thank you Kevin.



[Grant Mowatt](#) 28 posts since Dec 9, 2014

**Re: smoking on start up.** Feb 27, 2018 5:12 PM

Contact your Detroit DSM. He is quite aware of this issue based on our experience with Reman TK60's smoking on cold start.



[Brian Peter](#) 92 posts since Nov 11, 2015

**Re: smoking on start up.** Feb 28, 2018 12:12 PM

Grant is right. Every time we overhaul a GK, TK or PK we cross our fingers and hope it doesn't smoke. If the block has the provision for piston oilers we strongly recommend a model change to MK and BK.



[Frank Perkins](#) 3 posts since Jul 15, 2020

**Re: smoking on start up.** Oct 2, 2020 1:16 PM

IM HAVING SAME PROBLEM DDEC V NEW CYL , INJECTORS , VPOD , TURBO , AND AT START UP SMOKE REAL BAD FOR ABOUT A MINUTE THEN CLEARS . I READ YOUR COMMENTS AND FOUND THIS UNIT IS NOT SET IN PARAMETERS TO READ INTAKE TEMP



[Adam Thompson](#) 86 posts since Dec 8, 2015

**Re: smoking on start up.** Oct 5, 2020 5:16 PM

?? unit was reading intake temp. a resistor was put inline to change the temp reading as per csc and no change.



[Frank Perkins](#) 3 posts since Jul 15, 2020

**Re: smoking on start up.** Oct 9, 2020 12:38 PM

i have not installed resistor i will try to see if changes thanks



[Bill Lang](#) 3 posts since Dec 5, 2019

**Re: smoking on start up.** Oct 7, 2020 10:55 AM

a bit of a stretch, possibly low Nox kits may cause this



[Frank Perkins](#) 3 posts since Jul 15, 2020

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**Re: smoking on start up.** Oct 9, 2020 2:04 PM  
are you installing resistor on signal or return wire