

doc pushed out



[Jeff Coates](#) 11 posts since 18-May-2016

doc pushed out 21-Mar-2017 5:19 AM

we have a truck here that the doc pushed towards dpf filter.the customer just bought truck dealer called today and told our service advisor/foreman you can push those back in I don't believe it and don't want to do it has anyone ever heard of any such crazy thing?



[Bill Hirte](#) 32 posts since 9-Dec-2014

Re: doc pushed out 21-Mar-2017 5:56 AM

If it has pushed out, it's junk. Replace it.



[Jeff Coates](#) 11 posts since 18-May-2016

Re: doc pushed out 21-Mar-2017 6:02 AM

that's the only thought I have but when someone buys a used truck theres always someone that thinks theres a cheap fix



[Scott Trippel](#) 1,074 posts since 13-Dec-2014

Re: doc pushed out 21-Mar-2017 6:27 AM

Yep, needs to get his wallet out.

We now check our used trucks to see how they regen and dyno the engines for power.



[Ben Kent](#) 8 posts since 15-Apr-2016

Re: doc pushed out 21-Mar-2017 7:54 AM

Jeff,

I've been trying to find a reuse guideline, but no luck. I would bet my paycheck that this is not an acceptable warranty practice. Although it may temporarily work, the problem WILL return possibly leading to further damage to the ATS.



[Jarrod Selkirk](#) 5 posts since 19-Dec-2014

Re: doc pushed out 21-Mar-2017 8:32 AM

Inspect the DOC for movement of the substrate inside the housing. This condition is known as slippage, where the matting has released the substrate due to pressure and may cause damage to the substrate and the temperature sensor if the parts come in contact. If the DOC substrate has slipped and is in contact with or within ½ inch of the temperature sensor, replace the DOC.

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that's under 35.3 of the exhaust-egr-ats manual on psl. im not sure how to properly link it to this site.



[Jeff Coates](#) 11 posts since 18-May-2016

Re: doc pushed out 29-Mar-2017 5:48 AM

just wanted to let everyone who commented know that doing this procedure is something that higher up people are trying to see if it will work with customers with trucks out of warranty the person my boss talked to told him to push bac doc substrate with porta-power then use procedure to clean one box with air and shop-vac then do doc face plug routine then regen there is no guarantee how long this will fix truck but I can tell you doc inlet pressure was less than 1 psi like I said I know this isn't proper fix or a good process all im saying is that its something people have heard about and are trying



[Scott Trippel](#) 1,074 posts since 13-Dec-2014

Re: doc pushed out 29-Mar-2017 6:42 AM

Really? Push it with a Porta Power?

I will be very surprized if it goes back without damage, and if it even stays.

The doc pressure is less than 1 psi because the exhaust found a path once the DOC was pushed.

Not trying to be a jerk, just my humble opinion.



[Jeff Coates](#) 11 posts since 18-May-2016

Re: doc pushed out 29-Mar-2017 9:25 AM

like I said scott don't shoot the messenger its not what I wanted to do its not a practice I like or would do for myself the dsm where customer bought truck told him about it and what to do that's what they wanted that's what I did



[Ben Kent](#) 8 posts since 15-Apr-2016

Re: doc pushed out 29-Mar-2017 9:37 AM

Jeff

I understand what you are saying and what the DSM may be trying to do. I would still highly caution every individual who reads this post and its related threads against performing such repair. For all the techs looking for help I would refer back to DDCSN and appropriate warranty repairs. In the event that this works, albeit temporarily, when the customer comes back with a failed one-box (approx. \$11,500 w/ labor) he's gonna point the finger at the dealership who performed this sketchy repair. Steer clear and DOCUMENT EVERYTHING! Good luck...



[Ryan Gnesda](#) 1 posts since 5-Aug-2015

Re: doc pushed out 30-Mar-2017 11:40 AM

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The direction on this repair came from me. Let me explain A few things. First, this repair was done well out of warranty. In warranty if DOC push out is found the one box may be covered. Depending on PFP of course. DOC push out is not a defect in the box. It is caused by DOC face plugging.

There is nothing but friction between the matting and substrate holding the DOC in place within the can. This works great when there is no plugging. If a condition exists that leads to soot build up on the DOC face, this is referred to as face plugging. Once the Face plugging becomes severe, back pressure will rise. Above 5 psi is generally when I have found the DOC to be pushed back. Why does the DOC push back? For simple math, lets just say the surface area of each DOC is 100 sq in. At 1 psi there would be 100 lbs of force on each DOC. At 5 psi- 500 lbs and so on. At some point we can overcome the friction holding the DOC in place and it will slide back.

DOC PUSH OUT IS NOT THE FAILURE!

I tell people all the time, don't be distracted by the damage or condition, focus on the root cause. DOC push out is the condition, caused by face plugging. What caused the DOC to face plug? That is another conversation entirely.

So back to this repair. If you address the cause of the face plugging, clean the DOC, push the DOC back in place it is fixed. Pushing the DOC back into place will not change the amount of friction holding it in place. As long as the cause of the face plug is corrected it will not happen again.

Scott- To answer your comment above, there is no other path for the exhaust even with the DOC pushed back. The DOC can only move about 1-1.5" before stopping. It being at only 1psi doesn't mean much. 1psi at idle is not good, that means at load it would be much higher. Using a small block of wood on the back face of the DOC will prevent damage. It should only take about 500-1000 lbs of force to slide them back into place.



[Jarrod Selkirk](#) 5 posts since 19-Dec-2014

Re: doc pushed out 30-Mar-2017 12:07 PM

Interesting. I assumed that once the DOC had moved, that the entire one box needed to be replaced.



[Scott Trippel](#) 1,074 posts since 13-Dec-2014

Re: doc pushed out 30-Mar-2017 2:58 PM

Fair enough, Really good explanation Ryan, thanks for that.

Just wondering about Jeff's statement here, "but I can tell you doc inlet pressure was less than 1 psi". This is where I was thinking there is a new passage. Or was there a face plugging routine done prior to Jeff getting the truck for repair.

However that is good info to have Ryan. If I guy can hydraulically push the DOC's back in place.....that is a good thing.

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[Jeff Coates](#) 11 posts since 18-May-2016

Re: doc pushed out 31-Mar-2017 5:01 AM

scott my statement I didn't make clear that was after pushing back docs and doing the routine where you blow air thru doc and have docs blocked off and vacuum hooked to inlet then I did 4 hour doc face plug routine then a regular regen and the pressure I said was during the last regen sorry for not giving enough info



[Scott Trippel](#) 1,074 posts since 13-Dec-2014

Re: doc pushed out 31-Mar-2017 6:28 AM

No problem Jeff...all good

This was a great post. We never would have considered pushing them back.



[Jeff Coates](#) 11 posts since 18-May-2016

Re: doc pushed out 31-Mar-2017 6:36 AM

scott that was the reason for my post originally when customer said they talked to place they bought truck and that was what they wanted done I said I wont do it instantly but then boss talked me into trying it and actually it worked pretty easy I didn't use bottle jack I used porta power because it fit perfect



[Jeff Coates](#) 11 posts since 18-May-2016

Re: doc pushed out 29-Mar-2017 10:23 AM

I understand what your saying completely and if I knew how to delete this post I would the original question was because that's what customer told us he wanted done and I was wondering if anyone has heard of it



[Mark List](#) 3 posts since 16-Mar-2016

Re: doc pushed out 30-Mar-2017 10:06 AM

push it back with a bottle jack, that will actually work. we have done it a few times. then make sure the face is clean and regen it. should be good to go.