

Fuelling upgrades

Posted by ceramicpower - 2016/04/25 13:51

hi all

I know this has been done to death but i'd just like advice from someone with experience before buying anything unnecessary.

I've upgraded various parts and have come to the limits of my fuel system:

rev 2 turbo, td-05, power fc, greddy ic, profec b, hks intake and exhaust.

when I installed the PFC it wouldn't start then I read you can increase the duty on the injectors from the commander and then it started and idles and drives even better than before. I went for a spin and all is fine except under load in 3rd or 4th the knock light flashes I immediately pulled back I know this could be detrimental to my pistons but i'm not driving it daily anyway so it's just sitting up.

I bought rev 3 injectors without realising they're not bolt on and I need a bigger fuel rail so this is where i'm at. 300 - 310 safe hp is my goal so do I just get a rail or do I need to get a pump and FPR? anyone with similar mods?

I've spent a fortune on parts and labour and am hoping to get a full respray soon so I really want to save a few quid where I can and I have to get it mapped and tuned aswell and who knows what that will throw up! I know power = €€€€'s but I don't want to buy something I don't actually need :)

I've used the primer to this point but it's not very clear on fuel system upgrades (section/link missing I think)

(from tbd)

wolfkatz rev 2 side feed rail: £280

SARD FPR: £95

Walbro pump: £95 (+ a days labour)

also if anyone can help I need a 3bar map sensor (for sale or where to get the right one?)

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Re: Fuelling upgrades

Posted by ricky2 - 2016/04/25 20:56

I'd recommend a fuel pump a pain in the ass to fit but you can diy it. Going a similar with my Rev2 not got the power fc yet the fuel rail is next on the list the standard rails can be board out by tb developments to match the rev3+

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Re: Fuelling upgrades

Posted by ceramicpower - 2016/04/26 00:18

Ha bit of a coincidence that's me on facebook about the coilovers. Your up north ever down Dublin direction? I have a good ct26 and fcd and some other bits interested in a swap?

Think you're right about the fuel pump I'll have to bite the bullet and fit one dreading it. Cheers for the heads up on getting the rail bored that might be a better option alright

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Re: Fuelling upgrades

Posted by Quandry - 2016/04/26 09:37

ATS Racing sell map sensor upgrades that suit the PowerFC on 3sgte.
\$109USD plus post: <http://www.atsracing.net/Parts/Index/POWERFCKIT>

I'd recommend getting on to a Dyno so they can look at your Fuel curve under load. A hole in the piston from det / overheat would not be too much fun... :/

A lot of Dyno places do mechanical work also so you could get them to Dyno the car before and after fitting the pump to see the difference?

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Re: Fuelling upgrades

Posted by ceramicpower - 2016/04/26 12:03

cheers Quandry I've emailed ATS they do fuel upgrades aswell I might get the whole lot off them if delivery and import duty works out ok. have you got much stuff of them?

interesting read and kind of clears things up!

<http://www.wolfkatz.com/Articles/WolfKatz%20Fuel%20Rail%20Test%20Final%20Report.pdf>

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Re: Fuelling upgrades

Posted by Quandry - 2016/04/26 13:18

Yes the guys at ATS are great and should post over to us no problem. That Wolfkatz article is a good one, pretty sure I saw it some years ago.

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Re: Fuelling upgrades

Posted by ricky2 - 2016/04/26 22:04

ceramicpower wrote:

Ha bit of a coincidence that's me on facebook about the coilovers. Your up north ever down Dublin direction? I have a good ct26 and fcd and some other bits interested in a swap?

Not in Dublin very often will meet you halfway if you wish I have a spare ct26 as I fitted a ct20 about two years ago

Keep us posted what direction you go with the fuel rail I need to read up on it.

Re: Fuelling upgrades

Posted by ceramicpower - 2016/04/27 18:16

pm'ed you Ricky

ordered a bored rail, walbro pump and map sensor from ATS there.

they don't do a FPR anyone recommend one?

Re: Fuelling upgrades

Posted by ricky2 - 2016/04/27 18:51

http://www.tbdevelopments.com/catalog/product_info.php?cPath=34&products_id=102

Thats the same one I'm running I got mine from <http://eastcoastcustomsonline.co.uk/> give them a try

PM replied

Re: Fuelling upgrades

Posted by Quandry - 2016/04/28 09:43

Couple of good links there Ricky! :)

It's been a while since I bought anything car wise - completely forgot about Tim at TB, very handy for us over here.

Still ATS stuff is very good you won't have issues there. We're lucky to be spoiled for choice.

Re: Fuelling upgrades

Posted by ceramicpower - 2016/05/03 11:17

ATS have discontinued their 3.5 bar map sensor :(I've swapped it out with a wideband O2 sensor, this tuning lark is a neverending timeloop of toing and froing...

resorting to ebay I've come across this:

<http://www.ebay.co.uk/itm/JDM-Denso-5v-3-Bar-Map-Sensor-With-Wire-Harness-Dps-310-2000A-94994-0-6270-/111852523574?hash=item1a0aee1036:g:JfEAAOSwZ1IWcwSu>

worth €100?

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Re: Fuelling upgrades

Posted by Quandry - 2016/05/04 11:01

Seems expensive for something that is second hand.. the other thing is that you need to calibrate your map sensor settings in the pfc to the sensor you are using, they're not just plug and play.

Pretty sure TDP.ie can supply map sensors and calibrate the PFC to suit. Maybe give them a try?

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Re: Fuelling upgrades

Posted by ceramicpower - 2016/05/05 00:36

Ordered a map sensor and fpr off these lads please god that's everything motor related got. Suspension upgrades next, then brakes, then bodywork...she'll be right some day!!!

<http://www.proimporttuners.com/>

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Re: Fuelling upgrades

Posted by ceramicpower - 2016/05/17 12:05

received map sensor and fpr off proimport highly recommend these. placed order with these last and they were first to arrive. still waiting on ATS stuff it's on the way tho, and waiting 6 months from sbits for other stuff and they're ignoring my emails now oh well.

quick question I need to order seals and gaskets:

fitting rev 3 injectors in a rev 2 rail? anyone know which injector seals should I get?

in removing the rail and the throttle body inlet is there any other seals or gaskets I should get?

thanks

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Re: Fuelling upgrades

Posted by ricky2 - 2016/05/17 12:21

I'd order for rev2 with the plastic spacers that sits below the rail they go brittle.

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Re: Fuelling upgrades

Posted by Quandry - 2016/05/18 10:07

ricky2 wrote:

I'd order for rev2 with the plastic spacers that sits below the rail they go brittle.

+1 what Ricky says. The injector bodies themselves are pretty much interchangeable from what I recall.

If you are ever looking at removing the inlet or exhaust manifolds then make sure you have a tap and die set handy, or even better a timesert kit. These Toyota engines are built so well that the studs/bolts are not touched for 2 decades and if they do get taken out they don't always come willingly

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Re: Fuelling upgrades

Posted by ceramicpower - 2016/06/08 11:32

ok I've everything in hand now all I need is somebody to fit them. there's a guy I use in clondalkin he's great but he's booked up for the foreseeable can anyone recommend someone in the Dublin or surrounding areas? it's handy stuff except the fuel pump

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