

Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2014/04/28 17:16

Just thought I would leave this here.

https://lh3.googleusercontent.com/-HHkSYlit-Xs/U1578JiTgBI/AAAAAAAAADsw/NmfC3LqNVx0/w1311-h983-no/20140427_203058.jpg

Picked up yesterday, the next element to the track toy fun between me and my mate Colin.

This car was imported from England and then converted from the oil burning 1ZZ (138bhp) engine to the 2ZZ (190 bhp) engine. The conversion was completed by a fellow member on the site here a regular track day attendee and Irish Touring car competitor.

Why change from Rudolph the red nosed trackcar you say, basically weight and maybe a bit on the power side of thing also I love rev's and this car rev's.

I will put another post up in a couple of weeks but the basic plan is:

- Weigh it (995kgs as stock driverless)
- Make it lighter than stock
- Bring it out on track
- Make it lighter
- Install coilovers
- Set it up for track pleasure on track tyres.
- Go faster!!

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Re: Toyota MRS, 2ZZ Track Car.

Posted by Spidey - 2014/04/28 17:41

V nice addition to your stable :yes:

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Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2014/04/28 17:56

I have all three of the Mr k's now. Must put them together soon for a family photo.

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Re: Toyota MRS, 2ZZ Track Car.

Posted by Infamous - 2014/04/28 20:06

Damn you Slip! lol

Only messing, best of luck with it man, I'm sure you'll surprise a few people at the track with this wee number. I need to get down for a passenger run with you lads some day!

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Re: Toyota MRS, 2ZZ Track Car.

Posted by st182r - 2014/04/28 23:31

Well ware Ray... God ye are making it hard for newbies to track days.. Lol
Best of luck with her... ;)

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Re: Toyota MRS, 2ZZ Track Car.

Posted by Tsporter - 2014/04/29 07:16

Plans for a roll bar/cage in her?

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Re: Toyota MRS, 2ZZ Track Car.

Posted by Japohara - 2014/04/29 11:10

I'm Not afraid of you ... Bring it on LOL

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Re: Toyota MRS, 2ZZ Track Car.

Posted by Redmk1 - 2014/04/29 14:05

very nice Ray :yes:

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Re: Toyota MRS, 2ZZ Track Car.

Posted by ricky2 - 2014/04/29 21:54

Am I the only one impressed by the trailer? :unsure:

Re: Toyota MRS, 2ZZ Track Car.

Posted by Japohara - 2014/04/29 23:59

ricky2 wrote:

Am I the only one impressed by the trailer? :unsure:

no

=====
Re: Toyota MRS, 2ZZ Track Car.

Posted by mr.2 - 2014/04/30 01:02

Love it slip!fairly quick as it is id say nevermind when you start shedding weight.

would love to have a track down this end of the country its a shame there isn't one

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Re: Toyota MRS, 2ZZ Track Car.

Posted by Cashy - 2014/04/30 01:27

If you build it,they will come...

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Re: Toyota MRS, 2ZZ Track Car.

Posted by Quandry - 2014/04/30 11:55

Very nice Slip! KC'd for good luck and keep her the right side up ;)

Ricky, I'm impressed by the trailer too (and maybe a little jealous)..

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Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2014/05/10 22:28

So I drove her for a spin out (60k) the other night on some local twisty roads. My god what a cracking little car. She is very sure footed on the corners and handles weight transfer beautifully with nicely weighted brakes. I do need to do one thing, the pedals are sh1te for heel toe, useless in fact a bit of adjustment to the pedal height should have her the way Rudolph is. This is within the limits of road driving you understand.

Nice pull out of the engine, infact its cracking. I reckon all the 190 ponies are on show and with the weight of her she pulls all the way to the glorious 8500 rpm rev limit. Oh god I love rev's, you can have all the dump and whizz you want but N/A is my joy. Actually I was taken back by the pull at high revs very freckin nice indeed.

This engine, in this car, is what Toyota should have built or at least offered as a variant on the model. Delighted with the purchase and really looking forward to letting her loose on track. I reckon she would leave the Mrk 2 Beams behind quite easily.

This car is only going on track, she is going to loose weight and then we need to add in the roll bar / cage, 5 point harness's and possibly a fire extinguishers set up as well.

Thanks guys, the trailer cost more than the car, but its a cracker.

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Re: Toyota MRS, 2ZZ Track Car.

Posted by Tsporter - 2014/05/11 19:12

Delighted she's running 100% for ya. It really is a cracking engine, made for the track! I had a t-sport corolla as my daily for almost 3 years and it just begged to be revved hard. I never had one bit of bother with it and sold it with 120k miles on her. The "lift" at 6,200rpm never got old.

Has the rev counter been changed over to show the higher rev range?

Can't wait to get a passenger lap in it...

P.s. Since seeing this I've been over on two brutal looking at Woodsports 2zzge mk1 conversions...not for my SC but just dreaming of a dedicated track mk1 :-)

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Re: Toyota MRS, 2ZZ Track Car.

Posted by Tsporter - 2014/05/11 19:14

What wheels are they btw? I really like them.

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Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2014/05/11 23:34

If you want to do a beams conversion you could always buy Rudolph B)

Wheels are Tom's ones.

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Re: Toyota MRS, 2ZZ Track Car.

Posted by skybound - 2014/05/14 08:12

Very nice addition Ray - car and trailer :) :)

The only problem I see is how to prevent the soiling of the seats come track day :laugh:

Re: Toyota MRS, 2ZZ Track Car.

Posted by dufunk - 2014/05/16 11:38

These conversions take the piss out of S2K's so they would prob near give a tubby mr2 a good race!

Re: Toyota MRS, 2ZZ Track Car.

Posted by Japohara - 2014/05/16 11:45

we will see how quick it is at the next track day ...

Chubby in the Tubby Vs Ray in the Gay ... LOL

Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2014/05/16 12:37

Classic line Japohara, you shall have kc's your way.

As against a tubby I think this may be a bit quicker once on cam but the turbo would be well on boost by that time.

I reckon Japohara is really feeling the love for these cars, but he may only be looking at this.

<http://pictures.dealer.com/r/ralphhayestoyotascionanderson/0927/d965fea6c19c3397e449ccaf2ff601b0x.jpg>

:evil:

Re: Toyota MRS, 2ZZ Track Car.

Posted by Japohara - 2014/05/16 12:53

I shall see that many times but only briefly ... as I lap it ... LOL

=====

Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliederg - 2015/04/28 09:52

Just to update this thread prior to the OTD Friday, Lovely Sparco seats replaced with functional Sparco seats and tied into the seat mounting points. I reckon there is 5 kgs of a difference in each seat.

<https://lh3.googleusercontent.com/-5p8eIE09hPI/VSLvvA7gU3I/AAAAAAAAHIY/BaciWnjMdHM/w1355-h762-no/image-6d97372ffb58d899a858684221c38284712fde87c3b413f097c3e238258317eb-V.jpg>

Radio out and replaced with lovely carbon wrapped ducting.

https://lh3.googleusercontent.com/-OvViwmxyklc/VSLv1XofCml/AAAAAAAAHI8/G9_XbnjDjUA/w1355-h762-no/image-7d90def3e9d3d49e6acafdbe963a461530b6755e4e867d273207163ed410f3d2-V.jpg

Had to alter the alternator bracket due to crappy Toyota aluminum preventing my from loosening the tension on the fan belt.

<https://lh3.googleusercontent.com/-T5ZctHxQ5QQ/VSLvz14RpsI/AAAAAAAAHIw/nb5Uak8M0Ro/w1355-h762-no/image-6775c5cece510ef7607e6abd30a141dd136e3f6c4223cfe6cc53aa957320c440-V.jpg>

Then weld up proper mounting point for the harness's

https://lh3.googleusercontent.com/-cEO3yVgoF8U/VTrJ1RgH0EI/AAAAAAAIIRo/DMq_qqwb2dw/w1355-h762-no/image-782c4a284e20a408211346930165a88494a1003b8ee31ceb58c503ffd6a50136-V.jpg

<https://lh5.googleusercontent.com/-kDusPdBA8Bo/VTrJzy01J5I/AAAAAAAIIRc/016Un7XrMT4/w1355-h762-no/image-5460a46d1706c5bedae794407059326309b7cbf897fbecd0819b52a58c4f4816-V.jpg>

Last night I replaced the MAF with the correct part number unit as I had burnt the old one out with a short circuit, then reinstalled a new alternator. Then fired her up getting 14.5 volts at the battery and seems to be idling nicer than it ever did. But finished to late to see if the new MAF has sorted out the running problems I had due to shorted MAF. Just waiting for the new tyres to come in from Demon Tweaks now and if they arrive by Thursday we should be well set for the OTD 01/05/15.

Weight loss guess so far.

Base car weight is: 996Kg Curb

Front boot plastic trim and accessories, saving 5 kg
Convertible roof cover and mechanism, saving 35 kg
Internal plastic trim, saving 6 Kg
Replace both seats, saving 7 Kg
Remove radio, saving 2 Kg

So the current curb weight is circa 941Kg, not to shabby.

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Re: Toyota MRS, 2ZZ Track Car.

Posted by Tsporter - 2015/04/28 10:44

Nice one, I might be mistaken but isn't the 2zz a lighter engine too... Could you not just have wrapped those harnessses around the bar?

What tyres you going for?

I hope to get down for a look on Friday at some stage.

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Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2015/04/28 11:02

Not sure on the engine side of thing, the harness's would not wrap around the bar.

Went for Nankang Sportnex NS-2R, will see how they go when they get here. Feckin not in stock, so looks like I shall be shredding road tyres Friday.

Wanna rent me some rims for the day :blush: €€

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Re: Toyota MRS, 2ZZ Track Car.

Posted by SteveH - 2015/04/28 18:11

Loving the look of this.

Few of the IDC cars were running the NS2Rs, seemed to enjoy them! Let us know how you get on

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Re: Toyota MRS, 2ZZ Track Car.

Posted by ricky2 - 2015/04/28 18:17

Great update Ray don't know where you get the time for this keep us posted on how you do on Friday.

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Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2015/04/29 17:00

It took me 22 hours to get back to your post so I haven't managed to invent a time machine yet. Latest update is MAF I put in the car made it run crap even though its the proper part number. Put the one from the wifes car in and car it is a rocket ship, wimped out in fourth at 8000rpm

So plan now is to clean the correct part number MAF with electrical contact cleaner and try it again, if its still not right my wife will be without the seven seater on Friday. Ah well!!

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Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2015/04/29 23:00

Test drive went well and we now have stickyish tyres, sweet.

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Re: Toyota MRS, 2ZZ Track Car.

Posted by Infamous - 2015/05/07 03:04

Nice job on the weight saving.

If I hadn't already give you a KC for the mk1 I'd have KC'd for the Mk3!

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Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2015/10/02 14:03

Update time.

It's been a while since the last outing in the car, both of us too busy with work to get time out for a few days of track play. During our last outing the car was running poorly at midday and was getting worse as the day went on. We had a fair idea it was due to the exhaust leaking, and so it was. Leaks at the head, the bottom of the down pipes and connections to the silencers. Plenty of O2 to mess with the lambda sensor.

<https://goo.gl/photos/KKPAuDqQy1gHcG8n9>

<https://goo.gl/photos/9EmN1jzyhCv27RfY9>

So we set about redeveloping the exhaust system on the car. Having agreed that a 2ZZ Lotus back box was what we needed one second hand unit was sourced and put in position.

<https://goo.gl/photos/vTJuz97AxzyrW7fNA>

Nicely tucked up and now we have centre exhaust exhaust, the Toyotus is coming together. We will need to tidy up the exhaust / bumper arrangement when the time comes.

<https://goo.gl/photos/zXWCCHYsgQuWmphc9>

We sorted out the joint at the head with some die work and a softly, softly approach and went about the mid pipe arrangement using the newish back box the existing downpipe and flexible to create a lovely piece of work to join the dots. We have several pin holes in the welding that was on the reused pipework

but we are well happy with the results.

<https://goo.gl/photos/8sNPLfF5CrgsvzdYA>

A decatted exhaust, no holes anywhere, 2ZZ lotus backbox and a shorter exhaust run. Hopefully the butt dyno will be able to let us know if any more torques have been released in the lift section of the rev range.

Won't get out to the OTD on the 23rd due to a wedding and the 11th with trackskills is fecked due to me going to Cardiff. So next outing will be in Kirkstown on the 1st November or if there are any open days in Mondello beforehand, looking forward to it.

Next on the list is an FIA roll cage getting installed and continue with stripping her out and a dyno run to see where we are power wise.

Edit: not sure what is happening with the photos need to read about piscasso a bit more and will edit the post.

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Re: Toyota MRS, 2ZZ Track Car.

Posted by Tedtiler - 2015/10/02 20:22

Get the photos fixed mate, would love to see.

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Re: Toyota MRS, 2ZZ Track Car.

Posted by Infamous - 2015/10/03 10:55

Look forward to seeing the power results!

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Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2016/03/25 20:46

Quick update guys and gals, car is still running like a bag of spanners. But ever the optimist, she is booked into the next OTD on 29th April.in Mondello.

So to kick it off properly, she is going to Stone Motorsport for a proper roll cage. That should encourage me to drive her on a bit more, woohoo B)

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Re: Toyota MRS, 2ZZ Track Car.

Posted by Tedtiler - 2016/03/27 20:17

Progress slow on our end too mate. Hopefully get it all back together this month. See you summer sometime

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Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2016/03/30 22:58

Looking forward to it, must get the gearbox sorted as well.

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Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2016/04/26 23:21

Well the roll cage is in, the car is running correctly.

Unfortunately Google has decided to make posting image links from Google photos to difficult for me to understand.

OTD trackday this Friday, really excited to see how she runs this time round.

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Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2016/08/22 13:46

<https://goo.gl/photos/6chBcuy5dKt8QAxG9>

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Re: Toyota MRS, 2ZZ Track Car.

Posted by Marty J - 2016/08/22 22:00

Vroom vroom :)

Looks like fun. Also liking the colour of this car. :yes:

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Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2016/08/22 22:38

Cheers Marty, she is going great.

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Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2017/02/28 21:00

<https://uploads.tapataalk-cdn.com/20170228/5534dff5ecc1094c7d92d26ecdd63975.jpg>

Can you guys let me know if this image comes up, thanks.

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Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2017/02/28 21:38

<https://uploads.tapataalk-cdn.com/20170228/e105afea0ae36afc1aecf7862bb2d984.jpg>

Brake pads were only a bit worn'ish. Here is the latest selection and position of the poor car in my carport.

<https://uploads.tapataalk-cdn.com/20170228/5a93deb1b1b3a92dbf049e7d2a1adec9.jpg>

Calipers are going for a spot polish.

<https://uploads.tapataalk-cdn.com/20170228/6e312bff984c3ec5c98dd154167c8aad.jpg>

Shocks are getting fecked in the bin. Being replaced with GAZ gold units with 275lbs front springs and 325lbs rears.

<https://uploads.tapataalk-cdn.com/20170228/5034bad18f0fe4f1034330024383c7cf.jpg>

And driveshaft need to be out to drop the gearbox out and install the closer ratio 6 speed once we swap over a few gubbins, three gearboxes to make one, sheesh

Shall keep the thread posted now that I have photos working again.

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Re: Toyota MRS, 2ZZ Track Car.

Posted by eringobragh - 2017/03/01 01:11

Those brake pads would prob pass the NCT! Good work Ray - Id say they are some craic to drive.

=====

Re: Toyota MRS, 2ZZ Track Car.

Posted by Steve - 2017/03/01 13:23

Hear the saying them brake pads are worn there metal on metal, that's a whole new meaning, scrap yard would not take them, some driving there I bet, lot's of fun

=====

Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2017/03/02 12:47

Yep replacing the yellow stuff pads with Carbon Lorraine RC6's, should be an improvement on the metal to metal model currently being used :laugh:

The car is an absolute hoot to drive and should be more so when we get the work list done once all the parts arrive.

The Mrk 3 MR2 is a fantastic handling car, very predictable on the limits of grip and great crack to go sliding into and out of corners. Looking forward to the extra poke the shorter gear ratios will give us.

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Re: Toyota MRS, 2ZZ Track Car.

Posted by b4ss - 2017/03/07 10:32

Have just been hovering around Silvertstone in Rogues MKII and MKIII in both the wet and the dry - I totally agree with Ray, the MKIII is a hoot to drive on the limit..

T

=====

Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2017/03/07 20:09

b4ss wrote:

Have just been hovering around Silvertstone in Rogues MKII and MKIII in both the wet and the dry - I totally agree with Ray, the MKIII is a hoot to drive on the limit..

T

Cool, was that racing or a trackday, I was thinking of heading over and racing for a weekend but I believe its big money.

What engined cars did you get to drive?

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Re: Toyota MRS, 2ZZ Track Car.

Posted by b4ss - 2017/03/09 10:52

This was the 750MC pre-season race day, I was driving Rogues MKII and MKIII... All the classes that race in with 750mc were on the track, they were all proper racing drivers so the pace on track was hectic, plus overtaking was allowed.

It was pissing rain for the morning session but dried up a bit..

I am hooked on MKIII, they are more nimble on the track, in fairness the MKIII i was driver had LSD the MKII didn't.

It was really noticeable, as I was really able to drive the MKIII off the apex alot more so than the MKII.

T

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Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2017/04/01 20:28

Back from college a bit early today, so got stuck in.

Solo gearbox drop method.

<https://uploads.tapataalk-cdn.com/20170401/3a769faa1cae58c1e8f750c3e6f2993d.jpg>

Gear selector from the gearbox on right goes to gearbox in middle. LSD from gearbox on left goes to gearbox in middle. Bang, 2 seconds per laps please God

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Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2017/04/01 20:31

b4ss wrote:

This was the 750MC pre-season race day, I was driving Rogues MKII and MKIII... All the classes that race in with 750mc were on the track, they were all proper racing drivers so the pace on track was hectic, plus overtaking was allowed.

It was pissing rain for the morning session but dried up a bit..

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It was really noticeable, as I was really able to drive the MKIII off the apex alot more so than the MKII.

T

Sounds like brilliant crack Tony, would you PM me the details, I might look into doing something next year.

=====

Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2017/05/23 13:00

Coilovers received, brake calipers all refurbished, new brake discs arrived and gearbox awaiting install.

<https://uploads.tapatalk-cdn.com/20170523/1282f5ef0744544f086a2d20a82d8fd3.jpg>

<https://uploads.tapatalk-cdn.com/20170523/c64fcff4dae55e8778f685e73d88c079.jpg>

<https://uploads.tapatalk-cdn.com/20170523/bf59f9646d16710c2a2129e9b48c9208.jpg>

Time to bolt it all together and get some track time.

Lots of other little bits and bobs need to be done to get it all to stick together, but you get the picture.

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Re: Toyota MRS, 2ZZ Track Car.

Posted by Quandry - 2017/06/01 14:38

Looks nice!! :)

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Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2017/06/02 13:26

Cheers Quandry, car doesn't look nice unfortunately, but all the bits that hold it together and make it faster do.

Hope to get it wrapped at some stage this year in racecar type colours for the crack, that will lift the looks nicely.

=====

Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2017/07/13 13:30

Another update:

Colour co-ordination or lack there off, worth at least 500 ft/lbs of torques

<https://uploads.tapatalk-cdn.com/20170708/d86240565dc1d0269e427fb2da6ab388.jpg>

Its bad when the real tools have to be taken outta storage, fecking English rust bucket.

<https://uploads.tapataalk-cdn.com/20170708/425b78f1d0764b896e0a5afa1260215b.jpg>

Gearbox output seals are all done, only have to put the gearbox back in, get wheel alignment sorted and bleed the brakes and we are ready for a good ol' shake down.

I will say:

KW coilovers thus far are an excellent product, with ABS and Brake hose mounting points exactly where the manufacturers put them, they did however come without Topmounts, but the OEM ones fitted like a glove, well impressed.

Goodridge hoses the same, gone are the days of cable tying braided hoses to the shocks.

Looking forward to seeing what the brake discs are like with the SRF brake fluid, pity you cant get CL pads for the MRS but its a light car yellow stuffs will do for now and may use Endless pads next.

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Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2017/07/21 13:44

Well she is back on all fours, selecting all gears up to fifth perfectly (ran out of road for sixth). No bangs, rattles or shakes and no bolts left over after all the changes, so that's a plus.

On she goes to Jomo for four wheel alignment tomorrow, happy days.

<https://uploads.tapataalk-cdn.com/20170720/53a58e022f7227165e5d84dc654aba29.jpg>

<https://uploads.tapataalk-cdn.com/20170720/d17149e0f24c685e6aa12a1c73954897.jpg>

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Re: Toyota MRS, 2ZZ Track Car.

Posted by slipsliderg - 2017/08/02 16:39

So a rund down on how things went last friday.

Lots done to the car since the last time out, per my project thread:

<http://www.backroads.ie/forums/showthread.php?12762-Toyota-MRS-2ZZ-Track-Car>

Fantastic selection of cars out there, cars of note to me were BL's Lotus, really on song all day long and look very quick from the pit lane. The 458 driven hard and well. The cream Corolla estate, was fantastic to see it sideways at the top corner near the end of the day. The Mrk2 escort, Ascona and all the Mini's, sorry to hear the rate of attrition. Anyway I shall leave this video of me and the cream coloured Mini having a good ol' time together.

<https://youtu.be/cZZvwSft--4>

Also had a great mess with Jack in the 309 with Jomo in the passenger seat enjoying the exhaust note of both cars and the pace.

Great day, only missed the rain, which I would have liked to have join us at some stage .

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