

Quick steer pinion

Posted by Marty J - 2011/04/13 13:16

GROUP BUY NOW CLOSED !

Some of you may already know that in the US there is a quick steer pinion. Unfortunately it is only produced for lhd power steering Mk2 MR2s'. The quick ratio pinion modifies the stock MKII power steering housing from 3.2 turns lock to lock to a 2.6 turns lock to lock rack.

This mod has been praised in the US by just about everybody that purchased one. The pinion gives the MR2 more control when needed, but does not make it skittish.

This mod is only for the Mk2 MR2 with power steering.

The cost effective way to do this was to have two parts made to fit the existing pinion. So I will need for you to send me the RHD pinions to be modified. That means leaving it assembled. Please examine your pinion for wear and other deformities. If a pinion is sent to me and is found to be in poor condition you will be notified before conversion. If you wish to have it returned unmodified, you will be charged for shipping and handling costs.

You will receive the quick steer pinions ready assembled for installing on the MR2.

Another option I am also thinking about, is selling these on an exchange basis, but it would mean adding €120.00 to the final price. I would send a quick steer pinion to the customer. Then when the customer sends me their original power steering pinion in good condition, I would refund the €80.00 for this service . I would have to put a time limit on the return/refund so that it would speed up the process of exchange for other customer to use. There would be a limited amount of exchange pinions.

Below are the prices per unit. The more ordered, the cheaper they are per unit. Prices do not include shipping.

1/3 of the price will be required as a deposit. Once I have placed an order for production, deposits cannot be refunded immediately as my own money would be tied up in the cost.

5 - 9 units - €395.00

10 -14 units €291.00

15 – 19 units €259.00

20 – 24 units €238.00

25 -49 units €231.00

50 + units €214.00

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Re: Quick steer pinion

Posted by Marty J - 2011/04/13 13:18

Please put your name down if you are interested in a group buy.

1. Marty J
2. Harper ----- Assembled pinion ----- Paid in full.
3. Dan ----- Assembled pinion ----- Paid in full.
4. dantheman ----- Parts only ----- Paid in full ----- UK.
5. filthy ----- Assembled pinion ----- Paid in full ----- UK.
6. SFLee ----- Assembled pinion ----- Paid in full ----- UK.
7. basch32 ----- Parts only ----- Paid in full.
8. ashtwo ----- Parts only ----- Paid in full ----- Australia.
9. lmt ----- Parts only ----- Paid in full ----- Australia.
- 10.dwyer125 ----- Parts only ----- Paid in full ----- Australia.
- 11.ziggyzigatron ----- Assembled pinion ----- Paid in full ----- UK.
12. 5SGTE ----- Parts only ----- Paid in full ----- Australia.
13. Wingers ----- Parts only ----- Paid in full ----- UK.
14. -Totenkopf- ----- Parts only ----- Paid in full ----- Australia.
15. WIDEMR ----- Parts only ----- Paid in full ----- Australia.
16. Twincams ----- Parts only ----- Paid in full ----- Singapore.
17. Whitchy ----- Parts only ----- Paid in full ----- Australia.
18. Lemoncake ----- Assembled pinion ----- Paid in full ----- Hong Kong.
19. mk1rally20v ----- Parts only ----- Paid in full ----- UK.
20. Splipsliderg ----- Parts only ----- Paid in full.

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Re: Quick steer pinion

Posted by Harper - 2011/04/13 14:44

So what does it do? Smaller turning area?

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Re: Quick steer pinion

Posted by MRob2 - 2011/04/13 14:49

no it means that to get full lock on your steering it takes less turns of the steering wheel. it means the steering is more responsive.. great if you are on a track. a little dangerous if you on a motorway falling asleep!

i am interested... but ummm :blush: how do i know what steering i hav?

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Re: Quick steer pinion

Posted by Marty J - 2011/04/13 15:02

Yes less turns lock to lock, but it is no more dangerous on ordinary roads than the standard steering, just sharper steering for the twisty stuff.

You will know if you have power steering by parking the car with the engine on and turning the steering wheel lock to lock. It should be quite easy to turn and you will be able to hear the pump working.

If anybody visits MR2 sites that are based in rhd countries would you please let them know about this possible group buy and link them to this site. Thanks.

This is at very early stages so I cannot promise anything just yet.

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Re: Quick steer pinion

Posted by Quandry - 2011/04/13 16:17

Fair play to you Marty kicking off something inovative!

I'm trying to get my suspension sorted at present so will be drained dry by that for the time being.

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Re: Quick steer pinion

Posted by Marty J - 2011/04/13 17:04

I have read quite a few threads about people wanting this kind of product for their rhd MR2. I am in contact with a guy in Australia that has mentioned that there could be a few potential buyers there. I'm sure there are others in the UK that would be interested. I have never done a group buy before, but I am willing to give it a go to get this product on the market. :)

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Re: Quick steer pinion

Posted by Infamous - 2011/04/13 18:04

You should run this across all the UK forums Marty to gain more interest and max possible discount. Fair play for giving it a go!

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Re: Quick steer pinion

Posted by Harper - 2011/04/13 18:10

What effect will it have on every day drive ability? I'm going to assume it will make is easier to park?

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Re: Quick steer pinion

Posted by Marty J - 2011/04/13 21:19

I haven't used one but for every day use I suppose there would be less effort involved with the parking. This is mainly an upgrade to your steering allowing your steering to react faster which is what you want in a sports car. Some people in the US have gone as far as saying that this was the best modification they have done to their MR2.

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Re: Quick steer pinion

Posted by Harper - 2011/04/13 21:44

Well looks like I'm sold.....can someone add me to the list, iPhone is horrible to copy and paste.

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Re: Quick steer pinion

Posted by Marty J - 2011/04/13 22:02

Re: Quick steer pinion

Posted by Marty J - 2011/06/15 12:02

Update

The pinion is in the development stage, so when this goes ahead it will be made from scratch which means it is a brand new product and you will not need to send me your current power steering pinion.

I still need more people who would be interested in this product. Even if you could not afford it right now, but maybe could in a few months please put your name down to show that you are interested in purchasing one.

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Re: Quick steer pinion

Posted by anto300zx - 2011/06/15 16:54

im interested in one off these to

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Re: Quick steer pinion

Posted by Marty J - 2011/06/15 18:09

MRob2 are you still interested in this product ?

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Re: Quick steer pinion

Posted by MRob2 - 2011/06/16 09:15

sorry, i poor :(mayb when i win lotto and do a complete overhaul.
but until that i have to say no sorry

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Re: Quick steer pinion

Posted by Marty J - 2011/07/06 12:20

Update is in the first post. :)

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Re: Quick steer pinion

Posted by Harper - 2011/07/06 17:39

can you show me a picture of what all needs to come out? Thats expensive as a mother lover. I hope
there has been plenty of interest?

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Re: Quick steer pinion

Posted by Marty J - 2011/07/06 18:25

I agree with you Harper, I'm hoping that we can get over 15 to make it reasonable.

Here's the part that comes out of the MR2 that would need sending to me.

<http://i67.photobucket.com/albums/h295/MartyJ1/quickpinion.jpg>

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Re: Quick steer pinion

Posted by Harper - 2011/07/06 18:35

Tried these guys?

<http://www.quaife.co.uk/shop/search/results/taxonomy%3A824%2C409%2C416>

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Re: Quick steer pinion

Posted by Marty J - 2011/07/06 18:43

Yes I tried Quaife. They were not interested in producing this product for the SW20 with power steering. That's why I am the only one offering this product for our rhd MR2's.

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Re: Quick steer pinion

Posted by Harper - 2011/07/06 18:46

ok. sent you a pm. when is this ending? I think I'll have to buy a second hand one and send it to you.

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Re: Quick steer pinion

Posted by Marty J - 2011/07/06 22:31

I have yet to remove my own pinion, but I have read that it is not too difficult to do. Below is a diagram of the power steering rack with the pinion circled in red.

http://i67.photobucket.com/albums/h295/MartyJ1/gearhous_page001.jpg

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Re: Quick steer pinion

Posted by Harper - 2011/07/06 23:09

Oh cool. Whereabouts does the updated polybush thing go then?

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Re: Quick steer pinion

Posted by Marty J - 2011/07/07 00:10

Toyota calls them grommets which are in the first diagram.

http://i67.photobucket.com/albums/h295/MartyJ1/gearhous1_page001.jpg

http://i67.photobucket.com/albums/h295/MartyJ1/gearhous_page002.jpg

http://i67.photobucket.com/albums/h295/MartyJ1/gearhous_page003.jpg

http://i67.photobucket.com/albums/h295/MartyJ1/gearhous_page004.jpg

http://i67.photobucket.com/albums/h295/MartyJ1/gearhous_page005.jpg

http://i67.photobucket.com/albums/h295/MartyJ1/gearhous_page006.jpg

http://i67.photobucket.com/albums/h295/MartyJ1/gearhous_page007.jpg

http://i67.photobucket.com/albums/h295/MartyJ1/gearhous_page008.jpg

http://i67.photobucket.com/albums/h295/MartyJ1/gearhous_page009.jpg

http://i67.photobucket.com/albums/h295/MartyJ1/gearhous_page010.jpg

http://i67.photobucket.com/albums/h295/MartyJ1/gearhous_page011.jpg

http://i67.photobucket.com/albums/h295/MartyJ1/gearhous_page012.jpg

http://i67.photobucket.com/albums/h295/MartyJ1/gearhous_page013.jpg

http://i67.photobucket.com/albums/h295/MartyJ1/gearhous_page014.jpg

http://i67.photobucket.com/albums/h295/MartyJ1/gearhous_page015.jpg

http://i67.photobucket.com/albums/h295/MartyJ1/gearhous_page016.jpg

http://i67.photobucket.com/albums/h295/MartyJ1/gearhous_page017.jpg

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Re: Quick steer pinion

Posted by dan - 2011/07/08 09:31

I'd say I'll chance this as well Martin. I have the car in bits so I'll be able to get the pinion to you. If you're

up to give me a hand with this engine some time maybe we could try and get the pinion out as well.
Could take a few pics as well to help people out.

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Re: Quick steer pinion

Posted by Marty J - 2011/07/08 11:30

That's a good idea Dan, I don't usually bother taking photos when I'm getting stuck in on mechanical work.

I have added you to the list.

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Re: Quick steer pinion

Posted by Marty J - 2011/07/08 13:19

Update to first post.

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Re: Quick steer pinion

Posted by Marty J - 2011/07/22 15:25

If you are competent at diy mechanics and have access to a hydraulic press then maybe it would suit you to buy the upgrade parts and assemble the pinion in your own time. This would also save you the cost of sending and return postage.

Parts on their own are as follows:

5 - 9 units - €380.00

10 -14 units €286.00

15 – 19 units €244.00

20 – 24 units €223.00

25 -49 units €216.00

50 + units €199.00

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Re: Quick steer pinion

Posted by Marty J - 2011/07/22 15:43

I can also say that so far including other MR2 forums, there are 9 people that want this product. :cheer:

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Re: Quick steer pinion

Posted by Harper - 2011/07/22 15:44

my rack arrived today. Ill get it taken of and sent up to you. Have you got any numbers confirmed so I know how much deposit is needed?

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Re: Quick steer pinion

Posted by Marty J - 2011/07/22 16:01

Untill this 100% going ahead, then you would be better off waiting than sending me your pinion. If you decide to strip the rack, make sure the 4 rings on the pinion are not damaged. Do not wipe off all the fluid from the pinion, but do store it sealed well with something like bubble-wrap.

1/3 of the cost of the product will be needed as a deposit.

Where ever the customer lives depends on the shipping costs.

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Re: Quick steer pinion

Posted by Marty J - 2011/07/28 14:13

I am now taking deposits of €87.00 for the 15 – 19 units range.

Currently there are 9 people that have expressed interest in the Quick Steer power steering pinion.

When I have received deposits for 10 units the pinions will go into production.

You will be contacted to send your pinion to be upgraded.

Once the upgraded pinion is ready to be shipped, I will require the rest of the payment which is €172.00 + shipping cost.

Payments to be sent to PayPal account : martinjpod@eircom.net

Please leave your user name along with your full name, address, email address and phone number so I know who has made the deposit.

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Re: Quick steer pinion

Posted by Harper - 2011/07/28 14:42

Nice, Any idea on turn around times?

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Re: Quick steer pinion

Posted by Marty J - 2011/07/28 15:39

Once at least ten deposits have been received I estimate about a week turnaround, but don't hold me to that because this is first for me. It would depend on if the manufacturer was busy.

Harper you are in a good position because you have a spare pinion, you could send the pinion near the start of manufacture and not worry about having the MR2 off the road.

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Re: Quick steer pinion

Posted by dan - 2011/07/30 13:34

Right Martin, I've sent you the deposit for this. Fair play for you again for undertaking this!

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Re: Quick steer pinion

Posted by Marty J - 2011/07/30 13:40

dan wrote:

Right Martin, I've sent you the deposit for this. Fair play for you again for undertaking this!

Payment received. Thank you Dan.

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Re: Quick steer pinion

Posted by Marty J - 2011/08/04 14:07

Deposit received. Thank you Harper.

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Re: Quick steer pinion

Posted by Marty J - 2011/08/12 11:27

I am hoping to have at least two Australian guys in on this group buy in the next couple of weeks. :)

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Re: Quick steer pinion

Posted by Marty J - 2011/08/12 11:32

anto300zx wrote:
im interested in one off these to

Are you still interested in the quick steer pinion anto300zx ? The more deposits are paid the quicker these pinions can go into production.

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Re: Quick steer pinion

Posted by Marty J - 2011/08/29 12:57

I'm still looking for more MR2 owners to join in on this group buy.

This is the only rhd quick steer pinion for the SW20 power steering rack in the world. A very rare performance part for your MR2's steering.

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Re: Quick steer pinion

Posted by anto300zx - 2011/08/29 13:27

sorry dude only noticing this now,at the minute i have a cuple of other things need sorting first

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Re: Quick steer pinion

Posted by Quandry - 2011/08/30 08:24

Hi Marty, I'll put this on the next 'What's New MR2' email out.

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Re: Quick steer pinion

Posted by Marty J - 2011/08/30 10:45

Thanks Quandry, I'm sure there are people out there that would enjoy having this mod done to their car.

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Re: Quick steer pinion

Posted by Marty J - 2011/08/30 11:00

Yesterday I asked Mr2boost who is in the US if he had any video footage of his converted lhd MR2 with a quick steer pinion. Here's what he had to say.

"I am sorry, but I do not.

BUT, my son-in-law has a stock 1991 MR2 turbo that is exactly like my 1991 MR2 turbo (well his is SMG & mine is CR & his has a slightly different stereo & his has fog lights - other than that all the same options).

We auto-cross regularly & the benefits of the pinion in AX is dramatic. I know I prefer to drive mine over his because it is easier to slalom with mine (& he agrees). It takes the lock to lock turn from around 3.5 turns to around 2.6 turns & the steering "feel" is better too.

Also, I hope to get a GoPro camera soon & I will then post up some video showing me in the AX & then him & show how the steering wheel is moved back & forth. So, thanks for the idea.

But, sorry I don't know of any videos off hand & mine will have to wait till around Christmas probably for me to get the GoPro.

Daniel".

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Re: Quick steer pinion

Posted by Marty J - 2011/09/07 23:25

Another name has been added to the list of deposits. His user name is filthy who is in the UK.

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Re: Quick steer pinion

Posted by Harper - 2011/09/08 00:02

How many more are we waiting on? Can't wait to try this.

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Re: Quick steer pinion

Posted by Marty J - 2011/09/08 06:05

We need six more. I am looking forward to having it produced and installed as well.

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Re: Quick steer pinion

Posted by Marty J - 2011/09/08 14:10

This is what Blue Bomber had to say on mr2oc.com about his lhd quick steer pinion.

"I've got a quick ratio pinion, too, and it's one of the best mods I've done to my car. Makes the car feel so much more agile and responsive. If you've ever driven a Mazda3 or 00+ Celica, they're very similar in ratio."

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Re: Quick steer pinion

Posted by Marty J - 2011/10/18 12:14

Again I would like to thank the people who have paid their deposits and in full for the upgraded pinion. Also for being patient with this group buy. I have not forgotten about you.

Come on the rest of you people that are sitting on the fence. We only need a few more to make this happen. :)

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Re: Quick steer pinion

Posted by Marty J - 2011/10/22 13:06

I would like to note that SFLee is the latest MR2 owner to put down a deposit for the upgraded pinion. Thank you SFLee.

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Re: Quick steer pinion

Posted by Marty J - 2011/12/13 19:25

basch32 has paid his deposit for the group buy, thank you basch32.

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Re: Quick steer pinion

Posted by Harper - 2011/12/13 23:39

Any idea on when this is happening? I had forgotten about this.

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Re: Quick steer pinion

Posted by basch32 - 2011/12/13 23:53

Harper want to send me some money and forget you sent it so i can buy some more mods :silly:

=====

Re: Quick steer pinion

Posted by Marty J - 2011/12/14 00:02

This is for you Harper.

<http://www.youtube.com/watch?v=twkh0YilnPM>

Seriously, as I said to basch32, there is no set date, but fingers crossed relatively soon. :)

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Re: Quick steer pinion

Posted by basch32 - 2011/12/14 00:07

KC for putin a smile on my face :-D

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Re: Quick steer pinion

Posted by Marty J - 2011/12/19 14:20

Ashtwo who is a MR2 owner in Australia is the first Australian to join in on the group buy. Thank you ashtwo.

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Re: Quick steer pinion

Posted by Marty J - 2011/12/19 23:02

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lmt is the latest person from Australia to join in on the group buy. Thank you lmt, deposit received.

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Re: Quick steer pinion

Posted by Marty J - 2011/12/20 23:24

dwyer125 from Australia has joined the group buy. Thank you dwyer125, deposit received.

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Re: Quick steer pinion

Posted by Marty J - 2011/12/23 20:13

ziggyzatron from the UK is the tenth person to join the group buy. Thanks ziggyzatron, deposit received.

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Re: Quick steer pinion

Posted by Marty J - 2011/12/27 16:02

5SGTE is the latest person to join the group buy. Deposit received, thank you.

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Re: Quick steer pinion

Posted by Marty J - 2011/12/28 01:25

Wingers is in on the group buy. Deposit received, thanks.

=====

Re: Quick steer pinion

Posted by Marty J - 2011/12/29 11:58

OK I have been thinking about when to end the group buy and start production. It's been great to see that we have reached 12 customers so far. That little rush in December has helped.

I will be in contact with the manufacturer in the New Year to arrange a final date for production. Providing they can fit us in, I am going to wait until 31 of January 2012 to end the group buy. The first customer has been waiting five months now, so it's only fair to end it soon.

If we get lucky and 20 or more have paid a deposit by that time, all of you will get the benefit of the lower cost.

GROUP BUY ENDS 31/01/2012 !

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Re: Quick steer pinion

Posted by Marty J - 2011/12/30 17:48

The following information was written by Judgeman a member of mr2oc.com.

i didnt get any pictures while i was tearing it apart but this is what i got.
the tear down is pretty straight forward but you will need some pretty big wrenches/sockets and dont forget your super special service tool.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0022rme.jpg>

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0026vrs.jpg>

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0023qr.jpg>

in order to replace the oil seal in the valve housing i have to remove the bearing too and i may have to get a new one but i havnt got that far yet.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0024oey.jpg>

the hard lines have O-rings on the ends which should be replaced.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0025j.jpg>

the special service tool AKA big bolt and 2 nuts is used to remove an allen bolt that would normally require a 19mm (i think) allen wrench, i didnt have one that big.

i was able to press out the seal without damaging the bearing so i just need to order the 2 new seals, gasket, the 4 O-rings for the hard lines and 2 claw washers for the inner tie rods.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0001wqq.jpg>

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0002z.jpg>

i ordered my new seals and stuff today from Lithia Toyota.

44218-12020 gasket, valve housing

90311-26003 seal, oil

90311-19010 seal, oil

90301-03001 ring, O X4

90214-12002 washer, claw X2

44327-12010 gasket, pressure port #1

the total came to \$31.32

i'm also going to order new tie rod ends from two's r us, i'll be using the inner tie rods and boots that are in my 2 now because they are only about 2 years old.

got my parts from Lithia Toyota today, i'm still waiting for the pinion gear though.

<http://i67.photobucket.com/albums/h295/MartyJ1/picture316t.jpg>

<http://i67.photobucket.com/albums/h295/MartyJ1/picture317n.jpg>

<http://i67.photobucket.com/albums/h295/MartyJ1/picture318y.jpg>

<http://i67.photobucket.com/albums/h295/MartyJ1/picture319.jpg>

<http://i67.photobucket.com/albums/h295/MartyJ1/picture321py.jpg>

<http://i67.photobucket.com/albums/h295/MartyJ1/picture320.jpg>

<http://i67.photobucket.com/albums/h295/MartyJ1/picture322o.jpg>

i picked up my new pinion gear from Seth on Sunday and put it in tonight.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0029f.jpg>

the diferance between the two is the old one on the left has 6 teeth and the new one on the right has 7. the install is very strait forward, i used a big deep sockit to press in the new seal then the old bearing.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0034l.jpg>

the next step is to coat the teflon seals on the pinion gear with power steering fluid then it just pushes in with a little wigling.

the next seal was a bit trickier, i had to use two larg sockits witch made it to big for the vice so i had to tap this one in with a hammer.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0037.jpg>

the seal in place.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0038o.jpg>

next is bolting the valve housing to the gear housing, theres nothing to it realing just dont pinch the gasket.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0039b.jpg>

sence i reused the old lock nut i put som locktite on it for good mesure

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0040m.jpg>

i used two blocks of wood to hold it in a vice wile i torqued the lock nut

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0042h.jpg>

put som locktite on the cap threats then torque it and stake it.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0051c.jpg>

next is the rack guide, i greased it up befor puting it in.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0043.jpg>

put the guide spring in the guide.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0046p.jpg>

but som locktite on the threads and use your super special service tool to torque the guide, then back it off 12 degrees and check the preload.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0048t.jpg>

if all is well put some locktite on the lock nut and but it on.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0049k.jpg>

put some powre steering fluid on your new O rings put the O rings on the hard lines and put the hard lines on the rack. they only go on one way.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0050d.jpg>

all done, stand back an admire your work.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0052u.jpg>

i started the rack install today but didnt finish becaus i need some new bellows.

sorry for the bad pictures i forgot my digi cam.

start by jacking the car up and securing it on jack stands.

then secure the steering wheel with the seet belt.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0057q.jpg>

now get the junk out of your frunk and remove this plastic cover, its held on with a few plastec nuts witch should unscrew by hand.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0056k.jpg>

remove the lower U joint bolt and loosn the upper one, the U joint should just slide off the rack and up the steering colum with a little wigling.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0059i.jpg>

now go underneath and remove the under boddy cover. the dead mouse on the under boddy cover can be thrown away, you wont need it any more.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0060h.jpg>

if you havnt done so already, remove the front wheels.

to remove the end links you need to remove the cotter pin and castle nut.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0061o.jpg>

a few wacks with a ball peen hammer shouldnock the end link out of the hub.

note: if your are afraid of damaging the tierod ends leav the castle nut on flush with the top of the bolt when you beat it out. thanks to David Hawkins.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0062t.jpg>

now things get messy there is a 22mm banjo bolt that needs to come out. i used about 1.5 feet of extensions and a braker bar to get at it. its not on there very hard its just hard to get at.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0066b.jpg>

now you need to move this hose clamp and undo this hose.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0067v.jpg>

undo the 4 bolts and remove the 2 brackets that hold the rack in.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0063.jpg>

then start cussing and wigling and you will have it out in no time.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0069s.jpg>

now becaus im reuseing my inner tie rods i need to take them off my old rack.

the claw washers are soft, a flat head screw driver and a hammer makes short work of them. after that use a couple of wrenches to unscrew them from the rack.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0070k.jpg>

and this is ware im stuck, i was going to reuse my bellows but one is cracking so i ordered a pare from twos-r-us.

<http://i67.photobucket.com/albums/h295/MartyJ1/photo0072x.jpg>

You can also remove the outers without damage by putting the castle nut flush with the top of the threads when you whack it with the hammer. The nut keeps the threads from getting buggered up.

ok i finnished it up last night.

befor you take the tie rod ends off but some tape on the tie rods as a marker.

<http://i67.photobucket.com/albums/h295/MartyJ1/002lm.jpg>

the next step is putting the new claw washers and inner tie rods on my new rack.

the flat spots on the inner tie rods are very narrow so rather then using a normal wrench i used a bug pipe wrench insted.

<http://i67.photobucket.com/albums/h295/MartyJ1/003eum.jpg>

a combination of OEM claw washers and after market inner tie rods left me with very little to pound over but it should be enough.

<http://i67.photobucket.com/albums/h295/MartyJ1/009fp.jpg>

now we can put the new bellows on, theres nothing to it realy but if you reuse the OEM mettlet inner clamps get them good and stretched out befor you try to put them on.

NOTE: make sure that hole in the rack is clear ^ it alows are to flow from one bellows to the other.

<http://i67.photobucket.com/albums/h295/MartyJ1/010bh.jpg>

put the tie rod ends on loosly for now.

<http://i67.photobucket.com/albums/h295/MartyJ1/017ol.jpg>

we are almost ready to put the rack in now so before you forget, but this gasket in place.

<http://i67.photobucket.com/albums/h295/MartyJ1/018zd.jpg>

<http://i67.photobucket.com/albums/h295/MartyJ1/019zhm.jpg>

ok now things get a little fuzy, the BGB will give you measurements for centering the rack and tie rod ends, but becaus iv got after market tie rods it dosnt do me a hole lot of good.

i tryed many things and most of it didnt realy get me any ware and in the end it pritty much came down to eye balling it.

one thing i did was i measured ware my tie rod ends were and mooved one one way and one the other so they wer both the same and so thet i keep my original toe setting (or at least somthing close to it).

<http://i67.photobucket.com/albums/h295/MartyJ1/013rs.jpg>

<http://i67.photobucket.com/albums/h295/MartyJ1/014daf.jpg>

i also measured the rack at all the way left and all the way right and found the racks center of travel but this turnd out to be a wast of time in the end.

<http://i67.photobucket.com/albums/h295/MartyJ1/012qc.jpg>

now we can put the rack in place, if it isnt going in try rotating the hose clamp so that the little wings are pointing to the side instead of down (sorry no pictures of this).

<http://i67.photobucket.com/albums/h295/MartyJ1/021nt.jpg>

you should be able start the banjo bolt by hand, then use a 22mm socket to tighten it down.

<http://i67.photobucket.com/albums/h295/MartyJ1/023e.jpg>

then hook up the return hose.

<http://i67.photobucket.com/albums/h295/MartyJ1/024hu.jpg>

<http://i67.photobucket.com/albums/h295/MartyJ1/025z.jpg>

now i tryed hooking up the U-joint with the rack at the center line.

<http://i67.photobucket.com/albums/h295/MartyJ1/022dj.jpg>

but after i had the tie rod ends in the hubs and stepped back it was obvious things wernt strait.

i dont have any more pictures but what i did is i looked at my front brake roters, try to imagin a line running along the face of the toter towards the back of the car, then i bumped the hubs over till both sides looked the same.

i hooked the steering back up and turned the wheel from lock to lock and i couldnt see any difference at the angle of the wheel at eather lock so i bolted it all down like that.

it turns out i was pritty close.

<http://i67.photobucket.com/albums/h295/MartyJ1/027ru.jpg>

the steering wheel was only off by about a half an inch, if that.

the steering is way more responsiv now, i cant wait for the next autocross.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/01/04 14:26

Deposit received with thanks, from -Totenkopf- .

=====

Re: Quick steer pinion

Posted by Quandry - 2012/01/05 08:46

Super impressive write up by that guy! very interesting read.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/01/08 14:03

Deposit received from WIDEMR, thanks.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/01/18 15:34

Here is a reminder.

The group buy closes in two weeks. Please have your deposit paid before the end of January if you would like a quick steer pinion.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/01/23 22:24

Twincams from Singapore has joined the group buy. Thank you Twincams.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/01/24 14:37

Ashtwo has paid his remainder, which means he is fully paid up excluding shipping. Thank you ashtwo.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/01/25 10:57

One week left until the group buy closes.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/01/25 12:24

Basch32 has paid his remainder, excluding shipping. Thanks Basch32.

=====

Re: Quick steer pinion

Posted by Harper - 2012/01/25 17:37

How much do I have left to pay?

=====

Re: Quick steer pinion

Posted by Marty J - 2012/01/25 18:08

Harper wrote:

How much do I have left to pay?

Pm sent.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/01/27 20:34

Ziggyzatron has paid in full excluding shipping. Thank you ziggyzatron.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/01/28 02:31

Whitchy has joined the group buy and paid in full excluding shipping. Thank you Whitchy.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/01/31 16:26

This is the last day of the group buy. :cheer:

=====

Re: Quick steer pinion

Posted by Marty J - 2012/02/01 22:00

GROUP BUY NOW CLOSED !

Re: Quick steer pinion

Posted by basch32 - 2012/02/01 22:01

Oh we are getting close now :-D When do you expect the first parts to be ready?

Cant wait to get it fitted and try it out on the track :woohoo:

Oh plus kc for the great group buy and constant updates :-)

=====

Re: Quick steer pinion

Posted by Marty J - 2012/02/01 22:07

Thanks for the kind comments basch32.

I'm not trying to dodge the question of when they will be ready, but I want to get in touch with the manufacturer first. Rest assured that when I have an estimate of when they should be ready, I will be posting updates on the relative forums.

I am looking forward to having this installed too. B)

=====

Re: Quick steer pinion

Posted by basch32 - 2012/02/01 22:10

No worries at all I have alot of things I want to do to the 2 so will give me time to buy all the bits (ie. not eat for a month) and then take the car off the road for 1/2 weeks and get all the work done rather than lots of little jobs haha :lol:

=====

Re: Quick steer pinion

Posted by Marty J - 2012/02/01 22:16

It is up to each individual how they tackle this, but I am going to buy new seals and gaskets for my MR2 steering rack. You should consider this too when you have the steering rack apart. It shouldn't hurt the wallet too much. :)

=====

Re: Quick steer pinion

Posted by basch32 - 2012/02/01 22:18

Already have it on the list of bits to get when its apart would be silly not to replace em :-) Already was a silly panda and didnt rebuild the gearbox when i fitted the engine in my 2 -.-'

=====

Re: Quick steer pinion

Posted by Marty J - 2012/02/03 00:27

dwyer125 is fully paid up excluding shipping, thank you.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/02/03 19:55

I spoke to the manufacturer today. The pinions should be ready in 8-9 weeks.

The remaining members who have paid deposits should have received a email from me.

If for some reason you did not receive the email, I am requesting the remaining amount for the pinion. Thank you.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/02/04 12:42

5SGTE has now paid in full, excluding shipping. Thank you.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/02/04 14:01

Harper has now paid in full, excluding shipping. Thank you.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/02/06 12:52

LMT has paid in full, excluding shipping. Thank you.

=====
Re: Quick steer pinion

Posted by Marty J - 2012/02/06 22:43

SFLee has paid in full, excluding shipping. Thank you.

=====

Re: Quick steer pinion

Posted by dan - 2012/02/07 00:53

Should be able to get the money to you for the weekend Martin.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/02/07 01:01

That's great Dan, thanks.

If your MR2 is not going to be on the road for a while, you could send me your pinion. Make sure you send your details with it so I know who it is from.

=====

Re: Quick steer pinion

Posted by dan - 2012/02/08 00:25

I'm not sure how long it's going to be off the road but it will be a few months at any rate. Hoping to have it on the road for summer time. Which this year I hear is the first week in April.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/02/14 00:21

Filthy and Wingers have paid in full excluding shipping, thanks guys.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/02/16 16:36

Lemoncake has paid in full excluding shipping, thank you.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/02/16 22:01

mk1rally20v has paid in full excluding shipping. Thank you.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/03/01 12:23

Would the remaining members of the group who have not yet paid in full excluding shipping, please pay the remaining amount within the next two weeks. Thank you.

=====

Re: Quick steer pinion

Posted by Harper - 2012/03/01 17:33

I need to pull the finger out and get this sent up to you.

=====

Re: Quick steer pinion

Posted by dan - 2012/03/05 12:52

Hey Martin. Sorry for not getting back to you sooner. What is the best way to pay? I can call up and give you the cash or maybe PayPal?

=====

Re: Quick steer pinion

Posted by Marty J - 2012/03/12 12:40

WIDEMR has made his final payment not including shipping, thanks.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/03/13 23:14

-Totenkopf- has paid his remainder, thank you.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/03/25 13:03

Harper wrote:

I need to pull the finger out and get this sent up to you.

Yes time to get your finger out Harper. You are in a position where you can have your cake and eat it because you have a spare pinion.

Try and get the pinion sent to me this coming week.

=====

Re: Quick steer pinion

Posted by Harper - 2012/03/25 14:10

Yes Sir! Will post it this week.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/04/02 11:40

I received Danthemans' power steering pinion today.

If you have chosen the option to have your power steering pinion to be assembled, please do not send them yet if you still need to use your MR2.

As soon as I have been given the go-ahead I will ask you to send your power steering pinion to me.

If like Dantheman, you are not going to be using your MR2 for a while, I am accepting the pinions for upgrading. Please allow yourself at least one full day for the removal of the power steering rack and the removal of the pinion.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/04/03 19:39

I removed my power steering pinion today.

It wasn't too difficult but with it being nineteen years old, it did need some persuading with a hammer and a small block of wood.

I used the guide I posted earlier here.

So here are my tips to help you with the removal of the power steering pinion.

If you are doing this by yourself you will definitely need a vice as some of the nuts and bolts have become stuck after all the years being on the car.

Before removing the power steering rack brackets, loosen the 22mm cap while under the car

I removed the left tie rod end to ease removal from the car.

After removing the two 12mm bolts that hold the valve housing to the rest of the rack, I used a block of wood and a hammer and placed the wood against a lip on the valve housing and hit it with the hammer to release the valve housing.

The pinion may be stuck in the valve housing so grip the housing in a vice and use the block of wood on the end of the pinion and hit it with the hammer. The pinion should come out without too much force.

If you are replacing the seal in the valve housing use a 19mm socket to tap it out.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/04/06 18:19

Dan has paid his remainder, thanks.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/04/17 16:09

UPDATE

I phoned the manufacturer yesterday and today. The guy that I usually deal with was not there, but I am told that he should be contacting me tomorrow.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/04/19 14:21

UPDATE

I was talking to the guy who is overseeing the manufacture of the power steering pinion parts. He apologized and told me that they have been extremely busy and it looks like we are going to have to wait another three weeks before the parts go into production.

I know some of you was hoping to install this soon for track use, but there is nothing I can do to speed this up.

I thank you for your patience and understanding. I will post further updates as I get them.

Marty.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/05/17 22:06

UPDATE

OK after a bit of hounding the manufacturer through emails and phone calls I got this reply. I personally think it's good news (some of you may think otherwise) in the fact that they are not entirely neglecting us for their customers that have the big bucks.

Again I must stress that this is out of my hands and like the rest of you be patient. Remember this is a one of a kind and is a very small production run for a large company to produce.

"Hi

Firstly I must apologies for not getting back to you end of last week.

We are up against it here, so much work and not enough hours in the day. We needed to get your job through our drawing office and at last we have done this, the problem was two fold, because of the current heavy work load it was easy to put your job to one side and wait for answers to come in from suppliers regarding the internal bearing. Finally we have the drawings, after much nagging, our works manager has not been best pleased with the delays as he has had machine time booked and has had to move it several times.

We will be cutting metal early next week. We will send you a soft sample of the part so you can approve it before we complete the batch, I would hope to get this away to you by 25th.

As much as we value the work we get from people like your self, it can take some time to get the first batch of the ground as our big customers do have all the clout. Once all the drawings are in place and all the works process sheets are signed of repeat work is easy to load to the workshop and completed in good time.

Once again I am sorry for the delays encountered to-date.

I will be in touch again next week."

=====

Re: Quick steer pinion

Posted by basch32 - 2012/05/18 01:31

Hey Marthy,

Thanks very much for the continued updates, I have to agree with you on that its a good thing and the email was very informative with no silly excuses just lain to the point and tbh its expected that the regular big ticket customers come first!

Cant wait to get it installed in teh car and looks imminent now :-D Again just like to say thanks for all the ahrd work on your end getting this project out to the community so KC for you :-)

=====

Re: Quick steer pinion

Posted by Marty J - 2012/06/06 14:57

I mentioned my concerns to the CEO of the company today and told him that people are not happy with the hold ups. He told me that he will email a design of the parts to be produced and send a "soft" version of the upgraded parts to me next week.

My thanks go to each one of you who are probably a bit anxious but have not lost faith in the product waiting for production. If I had known it was going to take this long for production I would have mentioned it before any deposits were taken.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/06/15 22:51

Soft parts so far, but no yet finished. Still getting excuses but still putting the pressure on to get them manufactured.

<http://i67.photobucket.com/albums/h295/MartyJ1/Partmachined.png>

=====

Re: Quick steer pinion

Posted by basch32 - 2012/07/12 13:02

Hey Marty,

Just curious if there has been any update from the manufacturers?

Thanks,
Baz

=====

Re: Quick steer pinion

Posted by Marty J - 2012/07/12 13:13

I was on the phone yesterday talking to someone else who works there. They said that the soft-sample could be ready by Friday. :casual: I told them that I am not happy with having to wait this length of time and it needs to be produced soon. Whether they will do this is another thing. I don't want to fall out with them, but at the same time I have a duty to the people that have paid for the product.

=====

Re: Quick steer pinion

Posted by basch32 - 2012/07/12 13:16

Thats cool thanks Marty for the quick reply its appreciated :) Seems like they are being ass hats about it but know where your coming from with trying to keep on good terms! Anyways good luck with sorting it out and looking forward to some good news ;)

=====

Re: Quick steer pinion

Posted by Marty J - 2012/07/16 17:18

UPDATE

To cut a long story short, the soft sample should be sent off to me tomorrow.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/07/20 15:45

UPDATE

Good news, I received the soft sample less than a hour ago. Providing the weather stays good I will install it today and report back tomorrow.

Below are photos of the upgraded power steering pinion soft sample. :)

<http://i67.photobucket.com/albums/h295/MartyJ1/PICT0898.jpg>

<http://i67.photobucket.com/albums/h295/MartyJ1/PICT0895.jpg>

<http://i67.photobucket.com/albums/h295/MartyJ1/PICT0897.jpg>

<http://i67.photobucket.com/albums/h295/MartyJ1/PICT0900.jpg>

=====
Re: Quick steer pinion

Posted by Marty J - 2012/07/21 03:17

Harper wrote:

I need to pull the finger out and get this sent up to you.

Yes please send your spare power steering pinion to me as soon as possible.

PM sent to you.
=====

Re: Quick steer pinion

Posted by Harper - 2012/07/21 14:23

Just back from the post office. It's being sent by owls as their are no roads in Donegal.
=====

Re: Quick steer pinion

Posted by Marty J - 2012/07/21 18:19

Harper wrote:

Just back from the post office. It's being sent by owls as their are no roads in Donegal.

We used to have roads, but all the power going through the rear wheels ripped them up. :evil:
=====

Re: Quick steer pinion

Posted by Marty J - 2012/07/21 20:08

I tried the soft sample in my power steering rack, but not on my car. The new part fits, turns and has reduced the number of turns lock to lock with no problems. :cheer:

However I have noticed three things that need to be addressed. With one of them I had a feeling that fluid may leak as the manufacturer has turned the helical part right down to the thread on the end. There should be a smooth section in between the helical and the thread that goes into a bearing.
=====

Re: Quick steer pinion

Posted by Marty J - 2012/07/25 14:54

Harper wrote:

Just back from the post office. It's being sent by owls as their are no roads in Donegal.

I received your pinion today Harper. It was delivered by snails because you did not pay the owls the last time and your homing pigeons always lose their way.

=====

Re: Quick steer pinion

Posted by Harper - 2012/07/25 17:22

Lies, birds love me.

=====

Re: Quick steer pinion

Posted by slipsliderg - 2012/07/25 21:23

Payment made MartyJ for parts only.

If enough folks around dubland have bought them perhaps I could collect and deliver when they come in.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/07/25 23:44

slipsliderg wrote:

Payment made MartyJ for parts only.

If enough folks around dubland have bought them perhaps I could collect and deliver when they come in.

Payment received with thanks.

There are no others around Dublin, just one in Cork, one in the Armagh and also one not too far from myself in Donegal. :)

=====

Re: Quick steer pinion

Posted by Marty J - 2012/08/09 22:05

UPDATE

I am 99% sure that there are two types of power steering pinion on our SW20 MR2.

I have taken measurements from two revision two pinions and one revision three pinions. I have no reason to believe that revision one is any different to revision two and revision three, four and five are the same as each other.

I must admit that I am relying on some internet sites for information and doing a cross reference with them.

I will be in contact with the manufacturer on Monday as he is not there on Fridays.

I am glad that I noticed this before production started as there would have been a few annoyed MR2 owners out there.

Thank you for your patience.

Marty.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/08/25 14:39

I am in the middle of moving house and won't have a phone line probably for another two weeks. So I have very limited use of broadband (parents).

Baby is also due soon, so the pinion is on hold hopefully only for two weeks until I am sorted at the new house.

Marty.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/09/04 22:37

Sorry for not getting back to you sooner. I had to move to a new house in short notice and then wait for a phone line to be installed. So my life has been hectic this past few weeks and now the baby is over due.

I have been in touch with the manufacturer about there being differences between pinions. In the past I asked about the MR2 power steering pinions and never got an answer on any forum. So this did set us back, but not by much.

I will be sending the other revision pinion for measurements and the soft sample to the manufacturer.

I have sent emails to people that have placed an order asking which revision MR2 they have as this is important that I know how many to produce for each revision. If anybody thinks they did not receive that

email, then please let me know here as soon as possible.

Providing there are no more hiccups then I estimate that the pinions should be ready for October.

=====

Re: Quick steer pinion

Posted by basch32 - 2012/09/05 09:04

Marty,

Didnt get a mail but you may already have the details:

My car is a 95 MR2 Rev3 JDM Import

Thanks

=====

Re: Quick steer pinion

Posted by Marty J - 2012/09/05 12:22

Thanks Basch32.

A copy of this message is on imoc.co.uk and mr2australia.com

Anybody in the group buy please read it carefully and give your answer on this forum.

I need to find out which revision MR2 everybody in the group buy has. If you are not sure of the revision, the year of the car will do. Please post your answer here. I will make a list on the forum of all the customers and the revisions they have.

There is a overlap regarding revisions for 1993. Revision 2 stopped around the month of September. I'm afraid you will need to find out for yourself if you have a 1993 MR2 and are not sure which revision. The car could have been modified by a previous owner, so don't assume just by something like the type of rear lights that are on the MR2.

For those who have bought a spare power steering rack for this project, you will need to know which revision it came from. If you do not know then you will need to take measurements of the pinion. Please send me a pm for more info.

If you do happen to get it wrong, then all is not lost. It will mean that you will have to purchase new bearings which are different in size. This means that if you change the bearings you could use a revision 2 in a revision 4, but it is more expense.

If I have not received an answer from any customer by the start of October then I will send them a pinion for revision 1 & 2, as I am sure most of us we would agree that we have waited long enough.

Thanks to the people who have replied to the email I sent a while back.

Can I ask all of you who are in the group buy to reply on this forum as to which pinion you require. This is so there is no misunderstanding on both sides.

For revision 1 and 2 = 1989 - 1993 = pinion A.

For revision 3,4 and 5 = 1993 - 1999 = pinion B

Thank you.

Re: Quick steer pinion

Posted by slipsliderg - 2012/09/05 15:43

-
1. Slipsliderg Pinion B
 - 2.
 - 3.
 - 4.
 - 5.
 - 6.
 - 7.
 - 8.
 - 9.
 - 10.
-

Re: Quick steer pinion

Posted by basch32 - 2012/09/05 15:52

-
1. Slipsliderg Pinion B
 2. Basch32 Pinion B
 - 3.
 - 4.
 - 5.
 - 6.
 - 7.
 - 8.
 - 9.
 - 10.
-

Re: Quick steer pinion

Posted by Marty J - 2012/09/06 13:20

I am currently experiencing a technical problem sending my emails. If anybody needs to ask me a question regarding the group buy, please use the pm for now, thanks.

=====

Re: Quick steer pinion

Posted by basch32 - 2012/09/07 14:25

Slipsliderg wondering if your collecting your pinion from Marty would you be able to grab mine too?
Could collect in Dublin :-)

=====

Re: Quick steer pinion

Posted by slipsliderg - 2012/09/07 15:02

basch32 wrote:
Slipsliderg wondering if your collecting your pinion from Marty would you be able to grab mine too?
Could collect in Dublin :-)

Yep, but I want your car to collect them in :woohoo:

=====

Re: Quick steer pinion

Posted by basch32 - 2012/09/07 15:23

slipsliderg wrote:
Payment made MartyJ for parts only.

If enough folks around dubland have bought them perhaps I could collect and deliver when they come in.

Whoops i though you were headin up :laugh: You gettin bored of the n/a or just wanna drive my car with all the new shiny suspension bits on it :P

If the car is back in Dubland I may head up but seeings as I spent 57e getting back to cork 1 way last weekend not sure me, my heavy foor and the 2 go well together on long trips :blush:

=====

Re: Quick steer pinion

Posted by slipsliderg - 2012/09/07 18:45

Basch, its no problem collecting it at all, was only kidding about using your car :)

=====
Re: Quick steer pinion

Posted by dan - 2012/09/08 12:10

- 1. Slipsliderg Pinion B
 - 2. Basch32 Pinion B
 - 3. dan Pinion A
 - 4.
 - 5.
 - 6.
 - 7.
 - 8.
 - 9.
 - 10.
-

=====
Re: Quick steer pinion

Posted by Marty J - 2012/09/08 20:44

Marty J wrote:

I am currently experiencing a technical problem sending my emails. If anybody needs to ask me a question regarding the group buy, please use the pm for now, thanks.

Service has been resumed. :)

=====
Re: Quick steer pinion

Posted by Harper - 2012/09/08 21:01

Quickeverybody send him porn!

=====
Re: Quick steer pinion

Posted by basch32 - 2012/09/10 09:51

slipsliderg wrote:

Basch, its no problem collecting it at all, was only kidding about using your car :)

Lol it seems when i try and be funny online it makes me sound serious :blush:

Re: Quick steer pinion

Posted by Marty J - 2012/09/26 21:00

- WIDEMR - pinion ?
- Twincams - pinion ?
- Lemoncake - pinion ?
- ziggyzigatron - pinion ?
- mk1rally20v - pinion ?
- filthy - pinion ?

Come on guys let me know which pinion type you want. I need to let the manufacturer know how many to produce.

=====

Re: Quick steer pinion

Posted by lemoncake - 2012/09/28 03:26

I've a 1990, so pinion A for me. Thanks.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/10/03 22:59

1. dantheman ----- Parts only ----- Paid in full ----- UK. Pinion A
2. irish_dan ----- Assembled pinion ----- Deposit paid ----- Ireland. Pinion A
3. Harper -----Assembled pinion ----- Paid in full ----- Northern Ireland. Pinion B
4. filthy -----Assembled pinion ----- Paid in full ----- UK. ???????????
5. SFLee ----- Assembled pinion ----- Paid in full ----- UK. Pinion B
6. basch32 ----- Parts only ----- Paid in full ----- Ireland. Pinion B
7. ashtwo ----- Parts only ----- Paid in full ----- Australia. Pinion A
8. lmt ----- Parts only ----- Paid in full ----- Australia. Pinion A
9. dwyer125 ----- Parts only ----- Paid in full ----- Australia. Pinion A
10. ziggyzigatron ----- Parts only ----- Paid in full ----- UK. Pinion A
11. 5SGTE ----- Parts only ----- Paid in full ----- Australia. Pinion A
12. Wingers ----- Parts only ----- Paid in full ----- UK. Pinion A
13. -Totenkopf- ----- Parts only ----- Paid in full ----- Australia. Pinion A
14. WIDEMR ----- Parts only ----- Paid in full ----- Australia. Pinion A
15. Twincams ----- Parts only ----- Paid in full ----- Singapore. Pinion B
16. Whitchy ----- Parts only ----- Paid in full ----- Australia. Pinion B
17. Lemoncake ----- Parts only ----- Paid in full ----- Hong Kong. Pinion A
18. mk1rally20v ----- Parts only ----- Paid in full ----- UK. Pinion A
19. Slipsliderg ----- Parts only ----- Paid in full ----- Ireland. Pinion B

If any of the above info is incorrect please notify me as soon as possible. Thank you.

=====

Re: Quick steer pinion

Posted by lemoncake - 2012/10/04 08:32

As we've talked in the email, I want parts only instead of the assembled pinion. Please update. Thanks.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/10/04 12:50

lemoncake wrote:

As we've talked in the email, I want parts only instead of the assembled pinion. Please update. Thanks.

Has been updated.

I was using my records book last night that's why I had not changed it. :damn:

=====

Re: Quick steer pinion

Posted by Marty J - 2012/10/04 13:27

It's looking like the pinions will go into production next week once numbers are finalized.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/10/04 13:35

When I get confirmation about production I will send emails and a request here for customers who want assembled pinions to remove them from their MR2 and to be sent to myself.

Harper I know I have your pinion already.

=====

Re: Quick steer pinion

Posted by basch32 - 2012/10/23 15:30

Any further progress on this? :)

=====

Re: Quick steer pinion

Posted by Marty J - 2012/10/23 23:04

No news I'm afraid basch32.

As mentioned on the IMOC site, I feel that this group buy has gone on for far too long. If the manufacturer does not get his finger out, then I may regrettably cancel the order and refund everybody. :(

=====

Re: Quick steer pinion

Posted by basch32 - 2012/10/23 23:51

Thats no worries Marty I feel like a complete ass that asking you all the time!

Hopefully telling them they are gonna loose out on business may spur them on I was looking forward to this but not alot more you can do!

Still all the work on your end is greatly appreciated and will be a shame if it goes to waste!

=====

Re: Quick steer pinion

Posted by Marty J - 2012/11/05 15:20

Pinion A should be ready in ten working days.

Pinion B has given the manufacturer some problems as it is assembled differently to pinion A. At the moment I do not have a date for when that will be ready.

=====

Re: Quick steer pinion

Posted by Marty J - 2012/11/14 16:27

"Hi Martin

Sorry it's after 4pm - time has just slipped away today.

Regarding your order - the gears are waiting for the next opportunity to go up on our spark eroder which I am told is imminent and then off to heat treatment after which is grinding etc.. Taking all this into account the parts (13/14 off) will be despatched to you w/c: 26th.

I hope this is acceptable."

=====

Re: Quick steer pinion

Posted by slipsliderg - 2012/11/14 22:04

Good new Marty fair play I am sure you are eager to see this completed at this stage. Kc for the effort and patience.

=====

Re: Quick steer pinion

Posted by basch32 - 2012/11/15 09:25

So I presume from recent posts this is just an update for pinion A people? Pinion B still having issues?

Thanks

=====

Re: Quick steer pinion

Posted by Marty J - 2012/11/16 02:21

basch32 wrote:

So I presume from recent posts this is just an update for pinion A people? Pinion B still having issues?

Thanks

That appears to be the case at the moment, sorry.

=====

Re: Quick steer pinion

Posted by Marty J - 2013/01/08 14:30

I was talking to a engineer yesterday. I believe they are doing their best to get the pinion parts resolved. They had problems with a machine called a 'sparker' but have got another one now. The first ten parts (A) should be shipping really soon. So it will be whoever paid a deposit first for type A pinion will receive the first batch.

=====

Re: Quick steer pinion

Posted by basch32 - 2013/01/08 14:37

Is there any update on pinion by progress?

Thanks

=====

Re: Quick steer pinion

Posted by Marty J - 2013/01/08 23:49

basch32 wrote:

Is there any update on pinion by progress?

Thanks

Nothing more I can tell you at the moment Barry, sorry. :(

=====

Re: Quick steer pinion

Posted by basch32 - 2013/01/08 23:54

Not your fault MArty was just curious.

Hopefully soon though :)

=====

Re: Quick steer pinion

Posted by basch32 - 2013/03/08 22:02

Hey hows the progress on the pinion b going any eta?

Any feedback on the guys that have installed pinion a?

Thanks

=====

Re: Quick steer pinion

Posted by Marty J - 2013/03/09 00:24

basch32 wrote:

Hey hows the progress on the pinion b going any eta?

Any feedback on the guys that have installed pinion a?

Thanks

Well the manufacturing is moving at a snails pace. Some type A parts have made it out of the factory. One guy seems to have installed his pinion incorrectly, it was not returning to the center. Other people have commented that it is most likely a installation error and not a fault of the upgraded pinion. The same guy disconnected the electronics to convert his rack to a manual and said that it is very good. He has been using it for track days in the UK.

Basch32 I know that you are waiting a long time and I am really sorry it is taking so long. I will contact the manufacturer on Tuesday to find out when they will be producing type B pinion parts and more type A pinion parts.

=====

Re: Quick steer pinion

Posted by basch32 - 2013/03/09 10:48

Thanks for the update Marty its such a pity some people these days dont take better care of customers once they know they have them on the leash for work that needs to be done :/

=====

Re: Quick steer pinion

Posted by Marty J - 2013/03/09 11:23

I wish all the people who joined the group buy had there upgraded pinions installed by now. I was hoping to say that I had contributed a new product to the MR2 community. :(

Don't give up on it yet though. ;)

=====

Re: Quick steer pinion

Posted by basch32 - 2013/03/09 11:26

Ah no way am I giving up yet just cant wait to have it in the car haha Last of the steering/chassis upgrades for me so be nice to be able to start fine tuning it ;)

=====

Re: Quick steer pinion

Posted by Marty J - 2013/03/27 16:24

I am still pushing to get the rest of pinion A and pinion B into production. I hope to have some news tomorrow.

=====

Re: Quick steer pinion

Posted by Marty J - 2013/03/28 13:11

Pinion B should (fingers crossed) go into production in around four weeks time along with the rest of pinion A.

=====

Re: Quick steer pinion

Posted by basch32 - 2013/04/04 20:50

Meant to say thanks for the update Marty and KC'ed for the continued effort :)

=====

Re: Quick steer pinion

Posted by Marty J - 2013/04/24 14:01

UPDATE

This update is for customers waiting on pinions A and B.

"Parts are not ready to go yet. The sparked parts are done but we are still working on those that are milled. If all goes to plan they should all go to heat treatment at the end of this week. Sorry for the delay. Based on this they should be complete w/c: 6/5."

=====

Re: Quick steer pinion

Posted by basch32 - 2013/05/20 14:19

Hey Marty,

How are we getting on with this? :)

=====

Re: Quick steer pinion

Posted by Marty J - 2013/05/20 18:02

A engineer phoned me last Thursday to ask a couple of questions about pinion B. He said that he preferred to work from diagrams but it should not be a problem to take measurements from the original. When asked about how long they are going to take, his reply was "soon".

He did stress that when disassembling these pinions, that anybody doing it has to be careful as they could be easily damaged.

I will contact them this Wednesday to see when they will be ready.

=====

Re: Quick steer pinion

Posted by Marty J - 2013/05/23 18:59

Good news and bad news.

The good news is that the rest of pinions A and B should be ready tomorrow.

The bad news is that some of the staff dealing with the pinions are taking a one week holiday.

I will phone them on the 3rd of June to make sure they don't forget us.

People who have paid for their pinions to be upgraded will receive a email from me soon.

=====

Re: Quick steer pinion

Posted by Harper - 2013/05/23 19:08

Final phase of a project of work that is already a piss take late and they take a week long holiday.

Jokers.

=====

Re: Quick steer pinion

Posted by Marty J - 2013/05/23 19:13

Just our luck, I know :(

=====

Re: Quick steer pinion

Posted by Harper - 2013/05/23 21:53

Never mind the negative.

What bespoke bit of kit you organising for us next?

..... with another company

=====

Re: Quick steer pinion

Posted by Marty J - 2013/05/24 11:08

Harper wrote:

Never mind the negative.

What bespoke bit of kit you organising for us next?

..... with another company

Nothing for a while anyway. This group buy took far too long to complete.

There are some Europeans that want lhd upgraded pinions, that might happen. :hmm:

=====

Re: Quick steer pinion

Posted by Marty J - 2013/06/04 18:30

The rest of the pinions A and B have been manufactured.

Tomorrow I will email those people waiting for them on what to do next.

=====

Re: Quick steer pinion

Posted by basch32 - 2013/06/05 09:17

Great news Marthy and fair play to you for all the effort on this!

=====

Re: Quick steer pinion

Posted by Marty J - 2013/06/13 17:15

All parts should be leaving the UK for Ireland on Monday.

mk1rally20v your pinion part will be sent directly from the manufacturer to you tomorrow by courier.

Filthyfil and SFLee has each been sent emails requesting their pinions to be sent to the manufacturer for upgrading.

The rest of the people waiting for their pinion parts in other countries will be sent their parts directly from myself in Ireland. Parts will be sent once payment for shipping has been received. I will try and offer choices on how they will be shipped.

=====

Re: Quick steer pinion

Posted by Marty J - 2013/07/05 21:00

Good news, the remaining pinion parts arrived today. :)

=====

Re: Quick steer pinion

Posted by Marty J - 2013/07/09 14:01

Harper please read your pm.

=====

Re: Quick steer pinion

Posted by Marty J - 2013/07/20 12:00

A while back I was asked if a Type A power steering could use a Type B pinion and vice-verse. So I examined a Type A and Type B steering rack and pinion yesterday.

The large bearing that the pinion goes through (sits on the part of the pinion just above the helical thread) are indeed different sizes.

To convert a Type B to Type A would require either a spacer made and Toyota bearing or a completely different bearing with smaller inside diameter.

To convert Type A steering rack to Type B would require machining the rack where the large bearing sits. This would allow the use of the Type B bearing to be installed.

To be honest it would be less of a headache just to go out and purchase a second hand power steering rack of your choice.

=====

Re: Quick steer pinion

Posted by Marty J - 2013/10/12 13:07

For those who have not yet installed their upgraded pinion, I wanted to share my recent experiences with my install.

My car is a rev2 turbo, it still has no engine installed so I'm not sure if that would affect anything and is up in the air on four axle stands.

I installed my upgraded pinion in my MR2 a few days ago. It did not go according to plan. The steering pulled to the right and would try and stay there.

I did some searching on the internet and discovered a term called unbalanced steer assist.

"Unbalanced power assist. Seal leaks in the control valve or off-center steering may route hydraulic pressure into one side or the other of the boost cylinder piston causing the steering to want to turn itself to one side. if the pull suddenly vanishes an imbalance in the power steering system is to blame. "

I have a rev3 rack from Harper.

I installed his upgraded pinion with a new seal into the rack and greased all necessary parts.

To center the rack off the car, I counted the rotations and once half way was met I knew it was roughly center.

The rack was installed into my MR2 and fluid was added. The steering was turned lock to lock a few times.

Power was switched on with the steering centered and I could hear the pump activating. After a few seconds I switched off power and topped up the fluid again.

Power was switched on again and the upgraded power steering worked like it should.

I would have to say that it would seem to be a installation error or damaged seals that causes the steering to malfunction.

As I said at the start, my first try was unsuccessful.

=====

Re: Quick steer pinion

Posted by Harper - 2013/10/12 14:09

Cool,

I will organise a trip up in the next few weeks to collect that if its ok, or if needs bed you can hold on to it,

my plan is to have it fitted your car for my Xmas morning blast. Antrim coast this year weather permitting, their isnt a soap on the roads, warp speed everywhere!

=====

Re: Quick steer pinion

Posted by Marty J - 2013/10/12 14:42

Yes, please come and collect it soon. I could do with clearing bits and bobs out of my fathers garage. PM me and we will arrange a collection point and date.

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