

F40 style engine bay cover.

Posted by spla300 - 2014/08/19 21:29

Decided to make a DIY F40 engine cover
Finally got around to ordering the plastic sheet,
Need to get 90degree aluminium angles now.

<http://i.imgur.com/WXH5c3c.jpg>

<http://i.imgur.com/FbsV6xB.jpg>

Will update as progress goes on.

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Re: F40 style engine bay cover.

Posted by Cashy - 2014/08/19 21:38

Best of Luck with this - I seen a black MR2 with something similar and it looked class!
Keep us updated!

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Re: F40 style engine bay cover.

Posted by weeJohn - 2014/08/19 22:47

Consider covering the finished article with clear or tinted window film as acrylic will scratch easily.

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Re: F40 style engine bay cover.

Posted by spla300 - 2014/08/20 00:36

Thanks will do,

Yeah i was planning on using really dark tint on the inside but now that you mention it scratches easy i might use medium tint on both sides.

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Re: F40 style engine bay cover.

Posted by spla300 - 2014/09/16 19:20

Got 50mm angles today and cut 2 lengths, 2foot each

<http://i.imgur.com/WK1hbcD.jpg>

<http://i.imgur.com/oXW8RSP.jpg>

cut 3 notches in each 6 inches apart so that it bends to go with the curve of the plastic.

<http://i.imgur.com/WtFzFPt.jpg>

<http://i.imgur.com/k5f8q9s.jpg>

<http://i.imgur.com/bsBmKil.jpg>

Bolted them to the plastic and decided to tac the edges to have it hold the shape, there is no need to weld though, i just welded because i could.

<http://i.imgur.com/wD3Wyvb.jpg>

<http://i.imgur.com/T2EsOd8.jpg>

<http://i.imgur.com/Vr9eJg8.jpg>

<http://i.imgur.com/LxidhKP.jpg>

after i took them off they held the curve perfectly, so i went ahead and welded them all around,

<http://i.imgur.com/JJ9h7pa.jpg>

<http://i.imgur.com/USccbvh.jpg>

<http://i.imgur.com/MwgDkvl.jpg>

and thats the aluminium brackets made up.

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Re: F40 style engine bay cover.

Posted by spla300 - 2014/09/18 19:01

More brackets being made up, im just making this up as i go along :/

<http://i.imgur.com/5S5Zfad.jpg>

<http://i.imgur.com/CcO8VKe.jpg>

<http://i.imgur.com/xw9tmI9.jpg>

<http://i.imgur.com/cROmPD9.jpg>

<http://i.imgur.com/uLxN1sc.jpg>

<http://i.imgur.com/GMpTyDZ.jpg>

<http://i.imgur.com/Uu5RdLY.jpg>

<http://i.imgur.com/uCUUipl.jpg>

Now i need to come up with a mechanism that will hold it in place and easily open it...

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Re: F40 style engine bay cover.

Posted by Marty J - 2014/09/18 20:42

I have total respect for what you are doing and I am in no way trying to be patronizing, but a word of advice.

I have read about people making these for themselves before and they have ended up setting their car on fire.

If the plastic melts onto the hot engine then it could be disaster.

For your sake and your MR2, test how that plastic reacts to a lot of heat.

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Re: F40 style engine bay cover.

Posted by spla300 - 2014/09/18 21:10

Yeah i already thought about that, the man did say it would hold up to engine bay temps, I also have the original engine bay temp sensor that turns on the engine bay fans placed close to the manifold, it gets hotter quicker and turns on fans sooner, I also replaced the original fan with a better one and added another fan to the firewall between boot and engine, which works off the same temp sensor. I will be monitoring temp levels closely at first and move the temp sensor closer to manifold if needed. Im thinking of cutting the sheet (see pic), that way in the summer (when it could get really hot) i could take off just the bottom half and put it in the boot to have even better cooling
<http://i.imgur.com/k7AVBMq.jpg>

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Re: F40 style engine bay cover.

Posted by Marty J - 2014/09/18 21:41

I got this info from a Plazcryn site, recommended maximum temperature / Short Time 91 oC

Good luck with the project. B)

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Re: F40 style engine bay cover.

Posted by spla300 - 2014/09/18 22:21

Yeah should be ok, thanks :)

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Re: F40 style engine bay cover.

Posted by weeJohn - 2014/09/20 13:32

Really liking this, should be a good improvement in aerodynamics at high speed as well.

Bonnet pins might be the easiest way to secure it, can I ask how water tight it will be when its complete?

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Re: F40 style engine bay cover.

Posted by spla300 - 2014/09/22 22:17

Yeah im on the lookout for aerocatch flush hood latches with keys, i think someone offered me them

before on here but cant remember who :(

Im not designing it to be waterproof so i have no idea but from the looks of it it will stop a lot more water than the stock lid because this dosent have vents

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Re: F40 style engine bay cover.

Posted by Marty J - 2014/09/23 12:46

A couple of months ago on one of your threads we briefly talked about my flush lockable Aerocatches, but they are not for sale.

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Re: F40 style engine bay cover.

Posted by spla300 - 2014/09/23 19:36

Yeah that was probably it. You have good memory!

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Re: F40 style engine bay cover.

Posted by DeathToAllButMetal - 2014/11/20 22:12

How is this coming along? Nice idea alright

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Re: F40 style engine bay cover.

Posted by spla300 - 2014/11/20 22:25

On the lookout for aerocatches with locks and dont feel like paying 50-60euro for a set. Ones without keys go for 20euro i wouldnt mind if the lockable ones were only 10euro more. <http://www.dx.com/p/d1-plus-flush-hood-latches-and-pins-kit-111733#.VG5pojSsV8E>

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Re: F40 style engine bay cover.

Posted by DeathToAllButMetal - 2014/11/20 23:10

Fingers crossed the right set come up for you at the right price ;) I'll be keeping an eye on this B)

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Re: F40 style engine bay cover.

Posted by spla300 - 2015/01/16 21:59

Went on ebay today and guess what found a set of hood pins with keys for 18euro and already ordered.
http://www.ebay.com/itm/With-Key-Black-Racing-Flush-Mount-Hood-Bonnet-Pin-Lock-Kit-Universal-NE-W-Cool-/151482606453?pt=AU_Car_Parts_Accessories&hash=item2345112375&vxp=mtr

Also got some more work done on the cover,
cut the edges down a bit more to fit the rubber that goes around the front windscreen.
Everything lined up nicely, waiting on them latches now.

<http://i.imgur.com/CdsBMI7.jpg>

<http://i.imgur.com/yYWSNDh.jpg>

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