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Extending O2 wiring for Section 1 with Cats

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E46 M3 (2001-2006) Engine: S54 - Max Hp: 333 hp at 7,900 rpm / 262 lb/ft at 4,900 rpm
Total Produced: 45,000+ - Years Produced: 2001 to 2006.

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Mon, Feb-24-2014, 01:26:21 PM

#1

WSI

Mongrel Motorsports



Join Date: May 2008

Posts: 753

In the garage:

['12 TRIUMPH Thruxton 900](#)

['02 BMW R1150r](#)

['00 BMW 323](#)

['02 BMW M3](#)

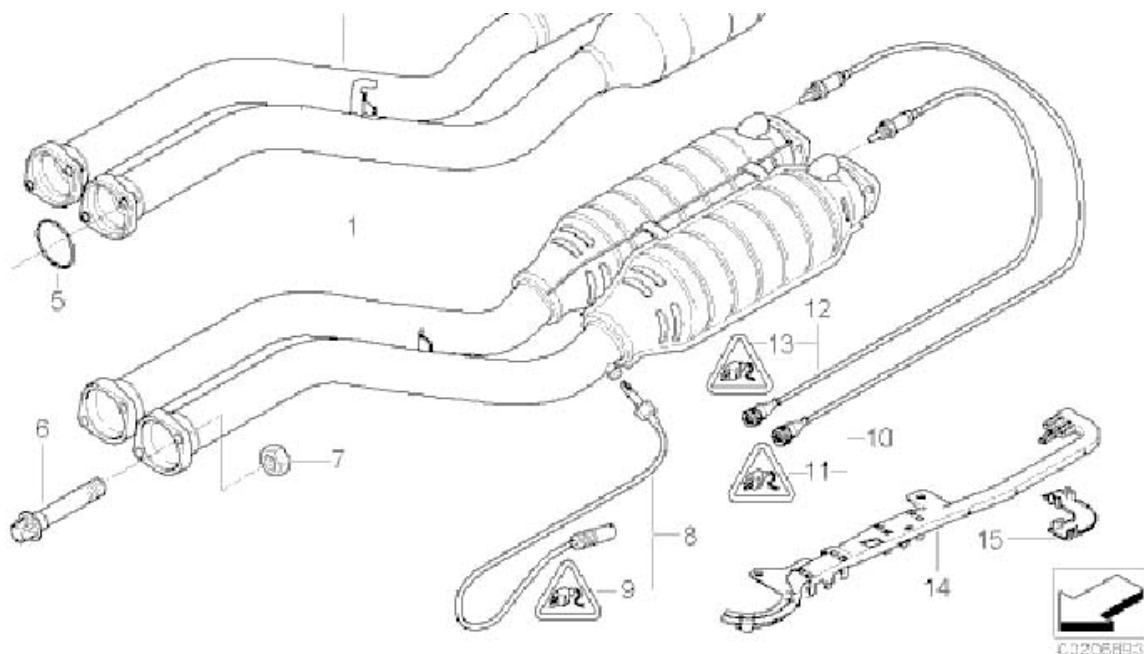
Reputation: 0

iTrader: [13](#) reviews, 100%



Extending OEM O2 wiring for Section 1 with Cats

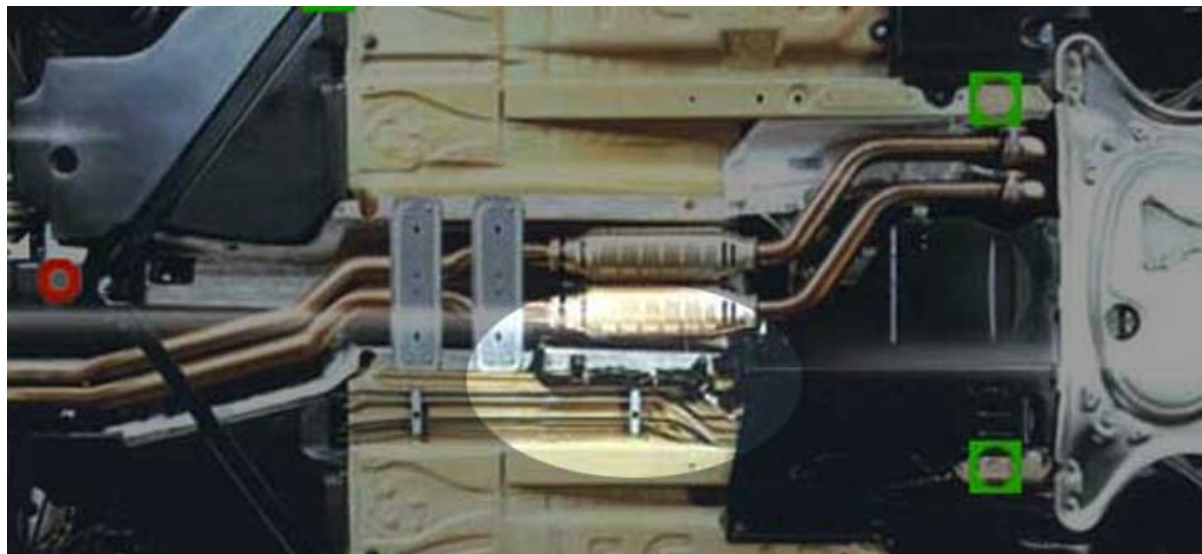
While I'm waiting for my stepped headers I decided to extend the factory O2 sensor wiring to accommodate the Section 1 with cats. You do not need to cut any wires to extend the O2 fittings, only removed them from the factory **loom**. Searching found plenty of information describing what to do, although not many images. Based on previous threads, I bought the **euro** wire routing plastic:



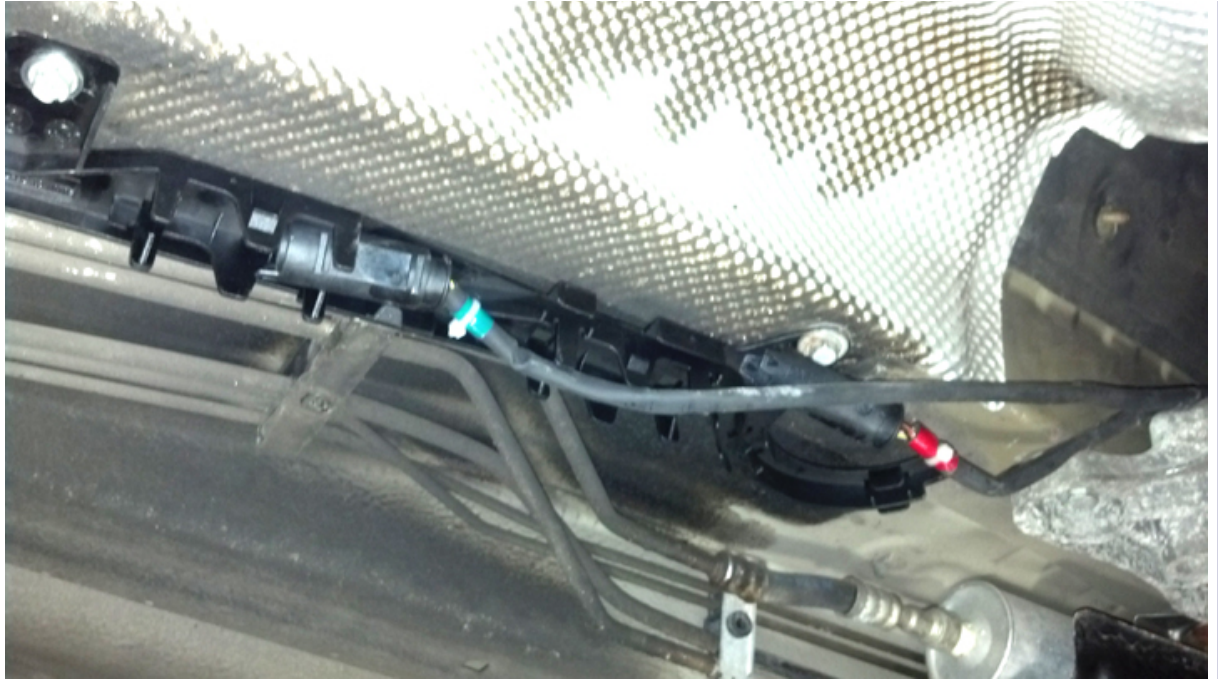
14 GUIDE RAIL 1 11787831183

15 GUIDE RAIL 1 11787831182

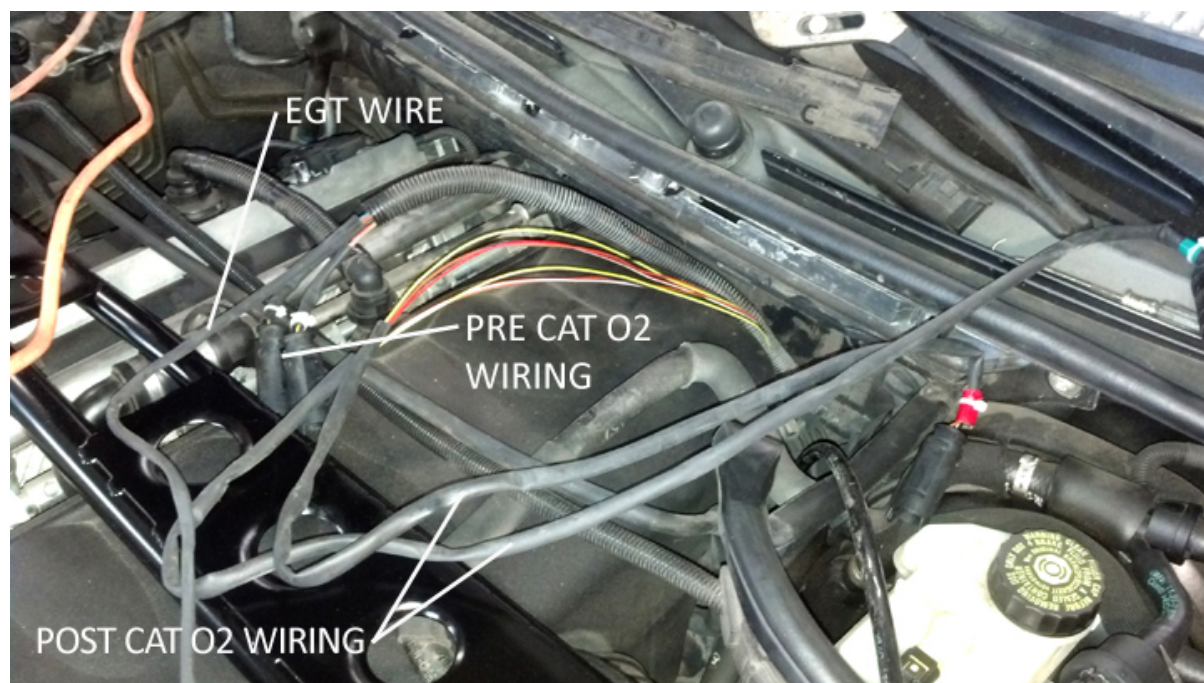
I thought finding the mounting location would be obvious. I held the O2 sensors in the approximate location and ran the wires around the driver side of the transmission tunnel. The leads almost reach the firewall so I was looking to install the **euro** plastic near the fuel filter. I doesn't go there, it mounts here:



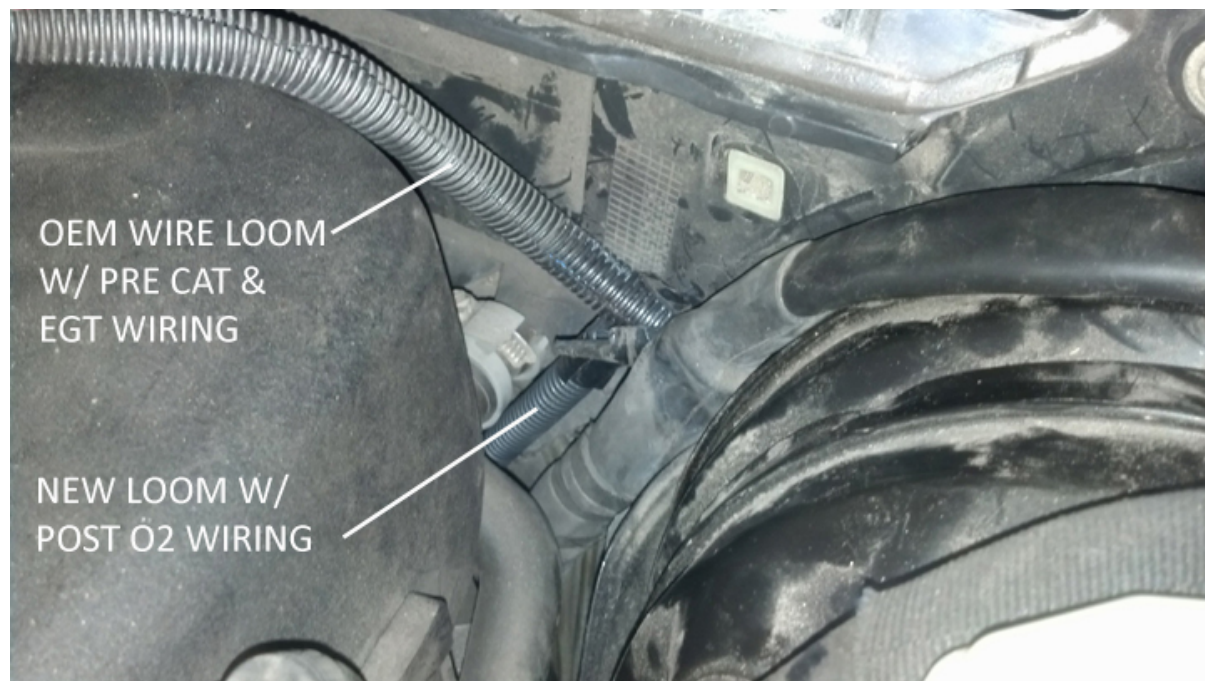
While this location uses the factory mounting holes, it had two problems for me. First, it is exposed. I couldn't confirm it, but it appeared the connectors would be the lowest part of the car when installed in the mount. Second, I couldn't get the wires to reach the mount. This is the best I could do:



I already had the exhaust out so my wiring harness was already out. I removed the O2 and EGT wiring from the grommet located on the rear intake side of the valve cover by cutting the rubber. I also cut the OEM O2 **loom** back to where it meets the large rubber boot beside the brake booster.



I removed the vacuum line on the rear of the intake to allow more room for pulling the O2 wiring **loom** over to the driver side. I also ended up removing the cover/shield beside the brake booster in order to access the OEM **loom**. I put a new **loom** over the separated post cat wires and ran them down the firewall beside the transmission sensor wiring.



I'm waiting until I install the new exhaust before sealing the **loom** and fitting it securely to the vehicle. Working under the car I found a few studs that may work for mounting the OEM **euro** mount. With all these options, nothing really lined up with the OEM mount.



I modified the bracket by removing one mounting tab and the 90 deg bend. I used two of the upper studs and made a small metal bracket that slipped over the plastic bracket to hold it tight to the tunnel. The other mounting point uses an OEM cable fitting.



The O2 wiring is held in place with other OEM wire holders located along the driver side tunnel. I will secure the remainder of the wiring after the exhaust is installed and I can verify the location works with the sensors.



Last edited by wsl; Wed, Feb-26-2014 at 11:08:07 AM.



Mon, Feb-24-2014, 01:41:54 PM

#2

[cntrvrsy](#)

44

Re: Extending O2 wiring for Section 1 with Cats

Most excellent and thanks for putting up images 🙏. I've always read about how one could unravel and extend the **loom** down the drivers side of the trans etc but never saw any photos to gain a mental picture of what's what.



Join Date: Dec 2005
Posts: 6,344
Reputation: 0
Location: NY
iTrader: 17 reviews, 100%



sig engineered by Fcukupayne



Mon, Feb-24-2014, 04:10:33 PM

#3

trantamthien

Registered User

Join Date: Jul 2011
Posts: 989
Reputation: 0
Location: Dallas
iTrader: 1 reviews, 100%



Re: Extending O2 wiring for Section 1 with Cats

Quote:

Originally Posted by **cntrvrsy**
*Most excellent and thanks for putting up images 🙏. I've always read about how one could unravel and extend the **loom** down the drivers side of the trans etc but never saw any photos to gain a mental picture of what's what.*

There's instructions on how to do this in one of the header DIY threads, but this one is by far one of the most detailed set of instructions. Thanks OP.



Mon, Feb-24-2014, 04:49:01 PM

#4

ML///M3

Sunday Drive NYC



Join Date: Feb 2012
Posts: 988
Reputation: 0
iTrader: 13 reviews, 100%



Re: Extending O2 wiring for Section 1 with Cats

Thanks, this is very useful information.

2005 /// M3 Coupe ZCP - Road & Track



Tue, Feb-25-2014, 12:34:25 AM

#5

m3e46freak

M3 Freq

Re: Extending O2 wiring for Section 1 with Cats



Join Date: Jun 2007
 Posts: 15,628
 In the garage:
['04 BMW M3](#)
 Reputation: 0
 Location: 'Merica, but ask me
 where I wish I was...
 iTrader: [54](#) reviews, 97%



Why do people think they need to cut o2 sensors?

Take appropriate sensors, cut away the plastic hose that covers the sensors, pull the appropriate sensors back out of the lining, fish it down around the opposite side of engine, run it back to cats. Simple, end of story, no extra horseshit. 😊 You're welcome. lol



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 BREMBO
 Apex!
 Agency Power Headers!
 Euro Cats!
 Scorza Mufflers!
 FRANK!! 311RWHP-260Torque
m3e46freak@yahoo.com for outside contacting

ebay/craigslist verified 100% FEEDBACK
 m3forum 96% FEEDBACK
 m3post/e46fanantics Great FEEDBACK
 zpost/bimmerforum Great FEEDBACK



Tue, Feb-25-2014, 02:43:47 AM

#6

[bzs bimmer](#)

Registered User

Join Date: Jun 2009
 Posts: 1,704
 In the garage:
['10 BMW E90 M3 V8 4 Door](#)
 Reputation: 0
 Location: Modesto, Central
 Valley CA
 iTrader: [41](#) reviews, 100%



Re: Extending O2 wiring for Section 1 with Cats

I applaud the OP for this. You did it much better than I could explain it. I didn't get the CSL piece, just zip tied the O2 plug to the SMG tubes and made sure it was all away from the cats and resonators on my section 1.

I followed the DIY's but no one actually showed pictures of what to do so I had to figure out on my own. I didn't snap any pictures by the time I buttoned it all up so major props to you!

The Realoem diagram doesn't show placement of the piece and funny enough the US piece isn't shown on Realoem anywhere either. Now that I see it, it makes sense. Still don't know why the convoluted tube needs to be cut. The CSL must have a different wire **loom** for this particular circuit or the O2's are truly longer.

Helping the economy one mod at a time



Alpine E90 M3



Wed, Feb-26-2014, 01:17:53 AM

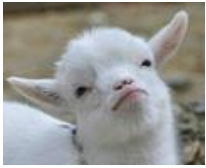
#7

[bmwJohhnyD](#)

user formerly known as
 bmwbob

Re: Extending O2 wiring for Section 1 with Cats

Quote:



Join Date: Apr 2005
Age: 47
Posts: 13,285
Reputation: 0
Location: Lennox House
iTrader: [41](#) reviews, 100%



Originally Posted by **bzsblimmer**

I applaud the OP for this. You did it much better than I could explain it. I didn't get the CSL piece, just zip tied the O2 plug to the SMG tubes and made sure it was all away from the cats and resonators on my section 1.

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i have been trying to get a csl/euro owner to post the exact routing from the ecm to the o2 sensors for a couple of years now since i did my euroheader install.. they are all too lazy..



beautiful beautiful work OP!!!



Quote:

Originally Posted by **AlpineEcstasy**

You could make any wheel work with enough fender work, the right tire, and enough camber. Whether you are willing to go through that though is up to you. just say no to wheels that dont fit.

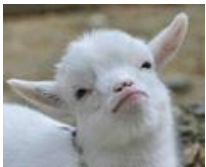


Wed, Feb-26-2014, 01:19:34 AM

#8

bmwJohhnyD

user formerly known as
bmwbob



Join Date: Apr 2005
Age: 47
Posts: 13,285
Reputation: 0
Location: Lennox House
iTrader: [41](#) reviews, 100%



Re: Extending O2 wiring for Section 1 with Cats

Quote:

Originally Posted by **m3e46freak**

Why do people think they need to cut o2 sensors?

Take appropriate sensors, cut away the plastic hose that covers the sensors, pull the appropriate sensors back out of the lining, fish it down around the opposite side of engine, run it back to cats. Simple, end of story, no extra horseshit. 😊 You're welcome. lol

i dont see where he physically extended the sensor wiring?! unless i missed it.

looks like he cut it all the way back to right where they enter ecm.. yes? no?!



Quote:

Originally Posted by **AlpineEcstasy** 
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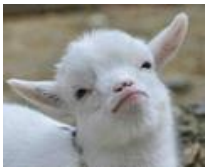


Wed, Feb-26-2014, 01:28:31 AM

#9

bmwJohhnyD

user formerly known as
bmwbob



Join Date: Apr 2005
 Age: 47
 Posts: 13,285
 Reputation: 0 
 Location: Lennox House
 iTrader: [41](#) reviews, 100%



 Re: Extending O2 wiring for Section 1 with Cats

also what kind of small bracket did you make? i cant see it in the pictures..

can you picture it so i can make my own?



Quote:

Originally Posted by **AlpineEcstasy** 
You could make any wheel work with enough fender work, the right tire, and enough camber. Whether you are willing to go through that though is up to you. just say no to wheels that dont fit.



Wed, Feb-26-2014, 02:54:51
 AM

#10

trantamthien

Registered User

Join Date: Jul 2011
 Posts: 989
 Reputation: 0 
 Location: Dallas
 iTrader: [1](#) reviews, 100%



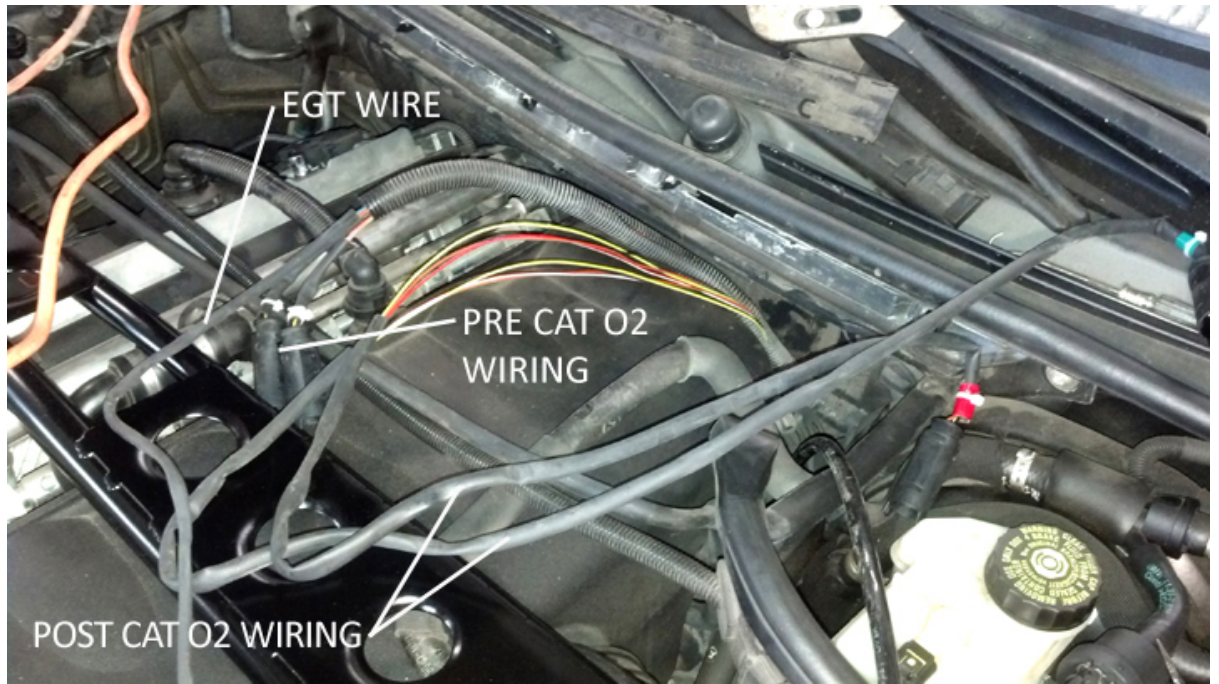
 Re: Extending O2 wiring for Section 1 with Cats

Quote:

Originally Posted by **bmwbob** 
i dont see where he physically extended the sensor wiring?! unless i missed it.
looks like he cut it all the way back to right where they enter ecm.. yes? no?!

Here you can see he cut the **loom** towards the fuse box area. The wiring leads straight downwards in this area. This allows for more length to run along the side of the transmission tunnel here. Also, even before the

sensor wires go into the loop, it's coiled up and tied up on the valve cover.



Last edited by trantamthien; Wed, Feb-26-2014 at 02:59:09 AM.



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[e30will](#)

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E46 M3 (2001-2006)



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All times are GMT. The time now is 06:14:22 AM.

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 Total Produced: 45,000+ - Years Produced: 2001 to 2006. at BMW M3 [Forum.com](#) (E30 M3 | E36 M3 | E46 M3 | E92 M3 | F80/X)