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X250 ventilation fan faults/fixes

Discussion in 'Tech/Mech General' started by Techno, Jan 9, 2015.

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Techno
Funster

Life Member

Joined: Jul 28, 2010
Messages: 14,960
Location: Leeds the one up North
Ratings: +21,476

X250 4 speed ventilation fan faults and remedies.

Various symptoms occur so lets look at these logically.

The circuit fuse is no.8 40amp in the engine bay fuse/relay box.

Between the fuse and the fan is a 30 amp relay in the same box.

On from the relay is the fan speed selector switch, this switches a bank of resistors (resistor pack) that lives in the main airflow duct near the fan.

The resister pack gets very hot in use which is why it is placed in the air stream to dissipate this heat.

So if the fan stops working completely?

Fuse gone?

Relay failed?

Resister pack thermal fuse open circuited?

Fan motor failed?

Speed selector switch?

First check the fuse with a meter.

Check the relay by borrowing one of the others in the relay box.

If the fuse was OK and the relay is OK then try a new resister pack.

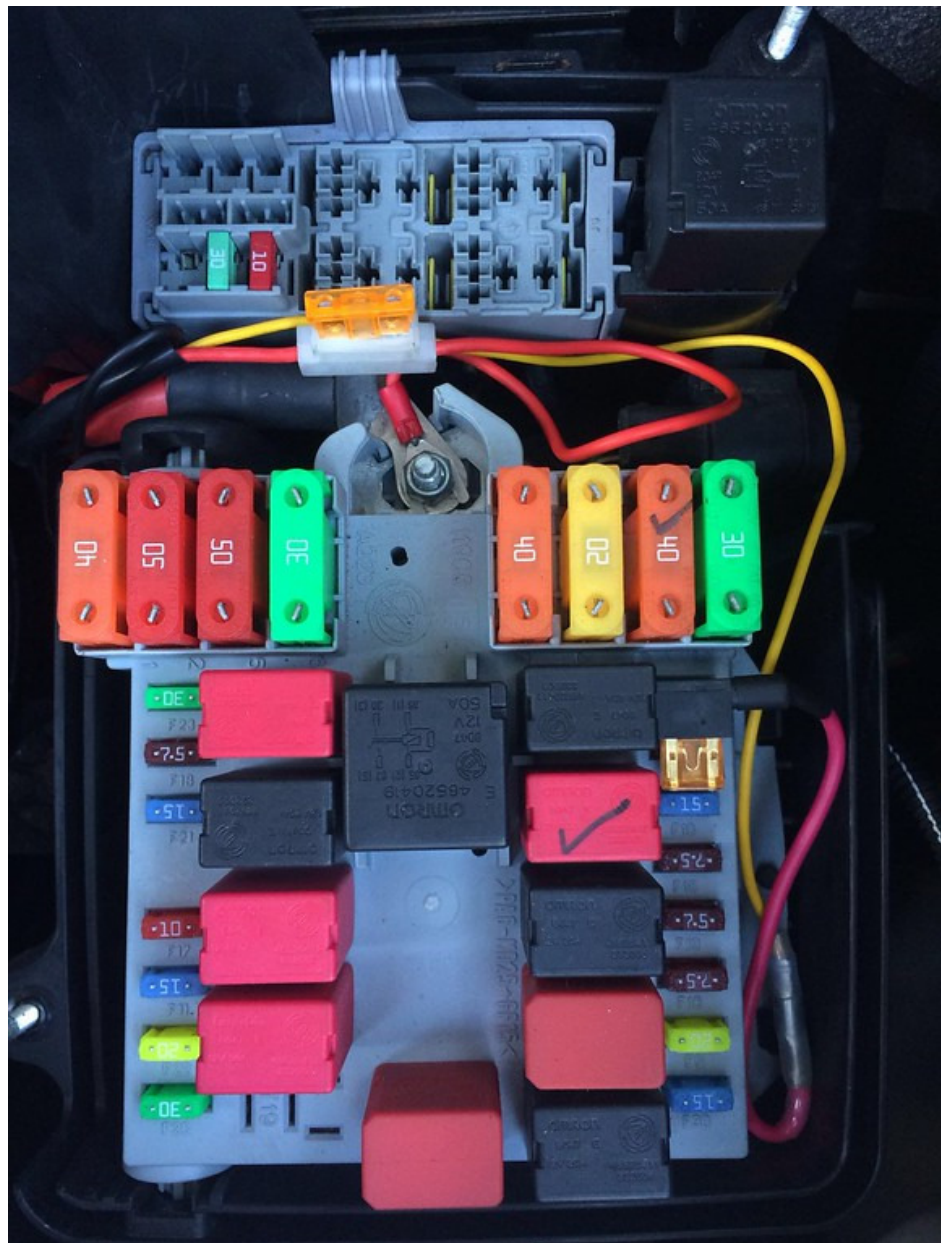
If the fan suddenly only works on full speed?

Replace the resister pack or try closing up the female spades on the electrical connector first, there are 4 connections.

I've not experienced fan motor failure nor speed selector switch failures myself.

****Pictures of left hand drive model. (transpose for UK)****

Fuse box is the same for both



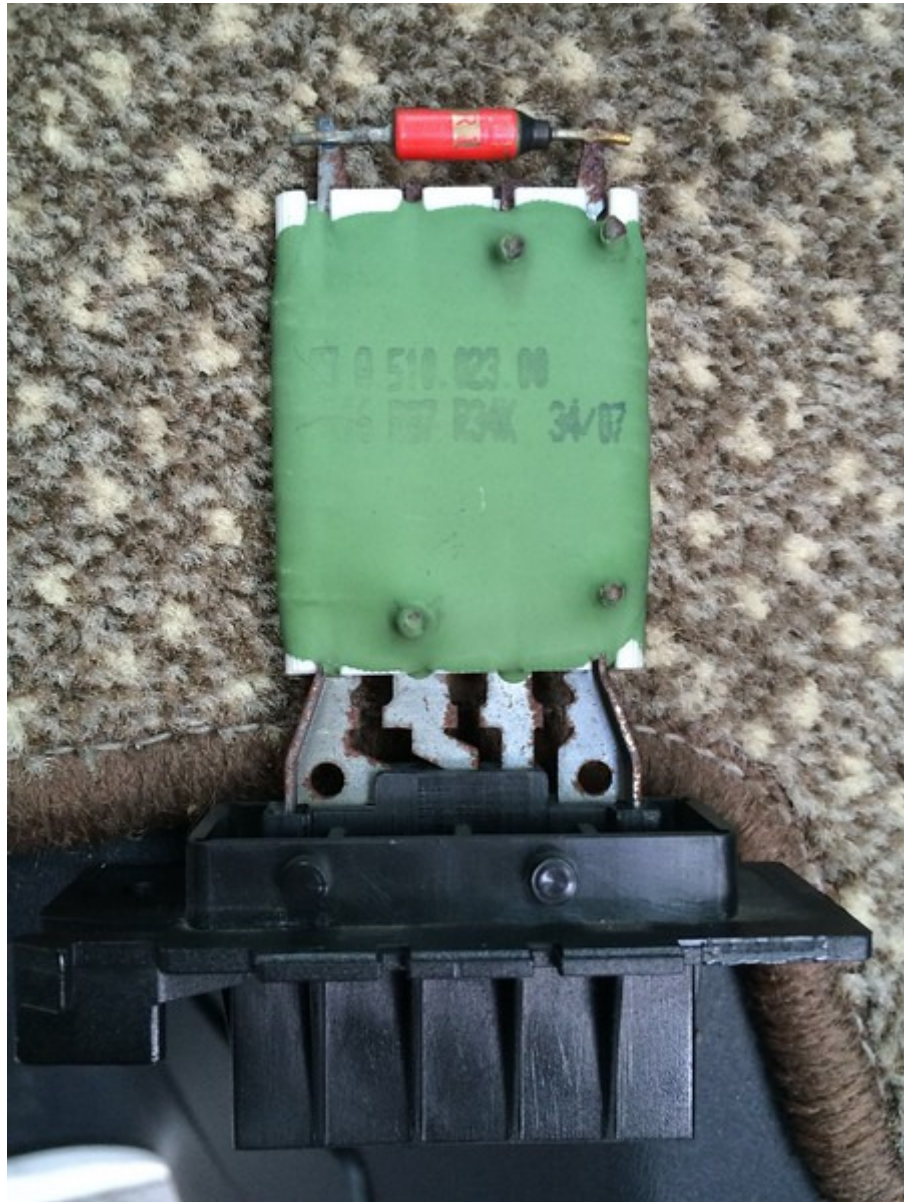
Relay pack low level behind passenger glove box aside of fan motor.
remove 5.5mm head screw





squeeze the tabs on opposite corners and slide the pack in the opposite direction to the screw. It will then drop downwards.





Fuse and relay may be different on 2011 onwards models but the principle is the same.

EDIT in fact this will be pretty much the same on very many vehicles.

This is deliberately kept very basic.

Last edited: Jan 9, 2015

Andy

My aire galleries LINK

MY FUN BOOKMARKS

Rapido 7090F 4750kg 3litre Comfortmatic

E&P levelling system

Techno, Jan 9, 2015 [Report](#) [Bookmark](#)#1 [Multi-Quote](#) [Quote](#)Like it x 7 Thanks x 1 Useful x 1 [List](#)**Jaws**
Funster

Life Member

Joined: Sep 26, 2008
 Messages: 20,002
 Location: Narrfoook
 Ratings: +35,284

Cor !

I aint seen a wire wound like that green one since the days of valve based tele's !

OK, they were usually cylindrical rather than flat but same principle

Great write up again Andy

Life, begins at errrrr.... well the age you join Funsters I 'spose !

John & Mo..... and I will make it felony to drink small beer... Willy

Jaws, Jan 10, 2015 [Report](#) [Bookmark](#)#2 [Multi-Quote](#) [Quote](#)Thanks x 1 [List](#)**Techno**
Funster

Life Member

Joined: Jul 28, 2010
 Messages: 14,960
 Location: Leeds the one up North
 Ratings: +21,476

One FUN member has just self repaired their fan as per this article (stopped working completely) and in their case it was the relay.

I have sourced a genuine new one £2.75 + 90p p&p

Andy**My aire galleries LINK****MY FUN BOOKMARKS****Rapido 7090F 4750kg 3litre Comfortmatic**

E&P levelling system

Techno, Jan 10, 2015 [Report](#) [Bookmark](#)#3 [Multi-Quote](#) [Quote](#)Thanks x 1 [List](#)

Yes with your direction and instruction you have a saved us many pounds you are a hero to us x

Gail and Karen



gailsunnymeed

Joined: Sep 29, 2012
 Messages: 80
 Location: Wakefield
 Ratings: +467

gailsunnymeed, Jan 10, 2015 [Report](#) [Bookmark](#)

#4 [Multi-Quote](#) [Quote](#)

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Techno
 Funster

Life Member

Joined: Jul 28, 2010
 Messages: 14,960
 Location: Leeds the one up North
 Ratings: +21,476

Saved your Fun membership fee for sure

Andy

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Rapido 7090F 4750kg 3litre Comfortmatic

E&P levelling system

Techno, Jan 10, 2015 [Report](#) [Bookmark](#)

#5 [Multi-Quote](#) [Quote](#)

Like it x 1 Thanks x 1 [List](#)



Drexer
 Funster

Joined: Oct 26, 2014
 Messages: 456
 Location: Lincolnshire
 Ratings: +645

VW Transporters, suffer from that problem, ok on full speed but bugger all else

Great fix

Andy

'I started out with nothing and I reckon I've still got most of it left!'

Drexer, Jan 10, 2015 [Report](#) [Bookmark](#)

#6 [Multi-Quote](#) [Quote](#)



Resister packs very cheap on ebay, I paid £13.55



Techno
Funster

Life Member

Joined: Jul 28, 2010
Messages: 14,960
Location:
Leeds the one up North
Ratings: +21,476

Andy

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Rapido 7090F 4750kg 3litre Comfortmatic

E&P levelling system

Techno, Jan 10, 2015 [Report](#) [Bookmark](#)

#7 [Multi-Quote](#) [Quote](#)



ebo
Funster

Joined: Nov 9, 2009
Messages: 87
Location: Essex
Ratings: +93

Great article thanks

ebo, Jan 10, 2015 [Report](#) [Bookmark](#)

#8 [Multi-Quote](#) [Quote](#)

Thanks x 1 [List](#)



DO

Dobbo

Joined: Dec 17, 2016
Messages: 1
Location: Woking
Ratings: +4

Hi, I was just able to leave for our summer break in Europe and started the van and noticed fan had stopped working. Just looked into the issue the first thing I changed was the air flow regulator which didn't fix the problem. Fuse also ok so looked at help on the internet and came across your post. Your help has been invaluable as I have been to the dealer and they could not identify where the problem lay. With your help with the relay fuse box image I ordered one on line and changed it. Fixed the fan now all fine so may thanks to you. I can't thank you enough, main dealer prices are mad and this part cost me £2 on eBay !

Brilliant post. Thanks again

Paul .

Techno said: ↑

*X250 4 speed ventilation fan faults and remedies.
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The resistor pack gets very hot in use which is why it is placed in the air stream to dissipate this heat.*

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Dobbo, Dec 17, 2016 [Report](#) [Bookmark](#)

#9 [Multi-Quote](#) [Quote](#)

Like it x 4 [List](#)



Techno
Funster

Life Member

Joined: Jul 28, 2010
Messages: 14,960
Location:
Leeds the one up North
Ratings: +21,476

Thank you that warms my cockles 🎅

Leaves you enough change to subscribe to FUN 🎅👍

Andy

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MY FUN BOOKMARKS

Rapido 7090F 4750kg 3litre Comfortmatic

E&P levelling system

Techno, Dec 17, 2016 [Report](#) [Bookmark](#)

#10 [Multi-Quote](#) [Quote](#)

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Techno
Funster

Life Member

I hope! and welcome to the forum @pauldobson41@googlemail.

I'd consider a change of username 🎅👍

Andy

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MY FUN BOOKMARKS

Joined: Jul 28, 2010
 Messages: 14,960
 Location:
 Leeds the one up North
 Ratings: +21,476

Rapido 7090F 4750kg 3litre Comfortmatic

E&P levelling system

Techno, Dec 17, 2016 [Report](#) [Bookmark](#)

#11 [Multi-Quote](#) [Quote](#)



Chris51
 Funster

Joined: Mar 24, 2010
 Messages: 570
 Location:
 stoke on trent
 Ratings: +413

My fan stopped working a few months ago-tried fuses and everything else. Was talking to an old mechanic friend week after "just give it a thump underneath -sometimes works " he said .Did so and it kicked in and has been OK since !!

B

Chris51, Dec 18, 2016 [Report](#) [Bookmark](#)

#12 [Multi-Quote](#) [Quote](#)



Techno
 Funster

Life Member

Joined: Jul 28, 2010
 Messages: 14,960
 Location:
 Leeds the one up North
 Ratings: +21,476

ultima said: ↑

My fan stopped working a few months ago-tried fuses and everything else. Was talking to an old mechanic friend week after "just give it a thump underneath -sometimes works " he said .Did so and it kicked in and has been OK since !!

That would indicate poor electrical contacts. Better to fix it than thump it or it will just reoccur.

Old mechanics are dodgy on electrics 🤪

Andy

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Rapido 7090F 4750kg 3litre Comfortmatic

E&P levelling system

Techno, Dec 18, 2016 [Report](#) [Bookmark](#)

#13 [Multi-Quote](#) [Quote](#)



**Chris51**

Funster

Joined: Mar 24, 2010

Messages: 570

Location:
stoke on trent

Ratings: +413

Think it was just the brushes sticking if it persists again will fix it.

B

Chris51, Dec 18, 2016 [Report](#) [Bookmark](#)#14 [Multi-Quote](#) [Quote](#)**GU****Guigsy**

Funster

Joined: Sep 17, 2017

Messages: 358

Location:
Birmingham, UK

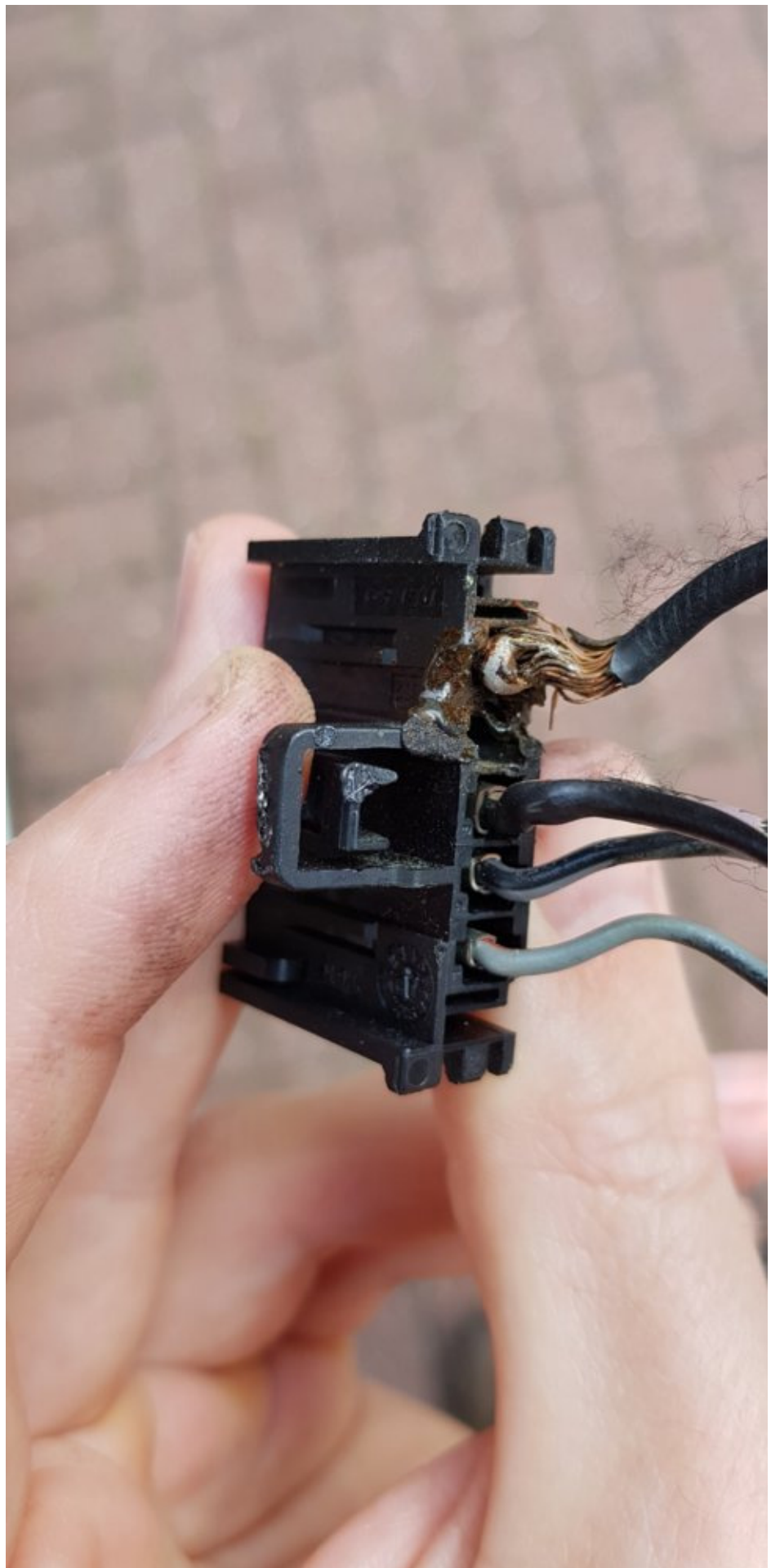
Ratings: +844

Just to give this thread a bump. My 2007 (x250) Ducato started to get a dodgy blower heater fan. Sometimes it'd work, then it'd only work on max. I found this thread and started to investigate. Turns out that the connector going to the resistor pack had fried. Apparently this is pretty common on many vehicles across lots of makes. I think my resistor pack was OK, but the pins were a little singed, so I replaced it anyway.

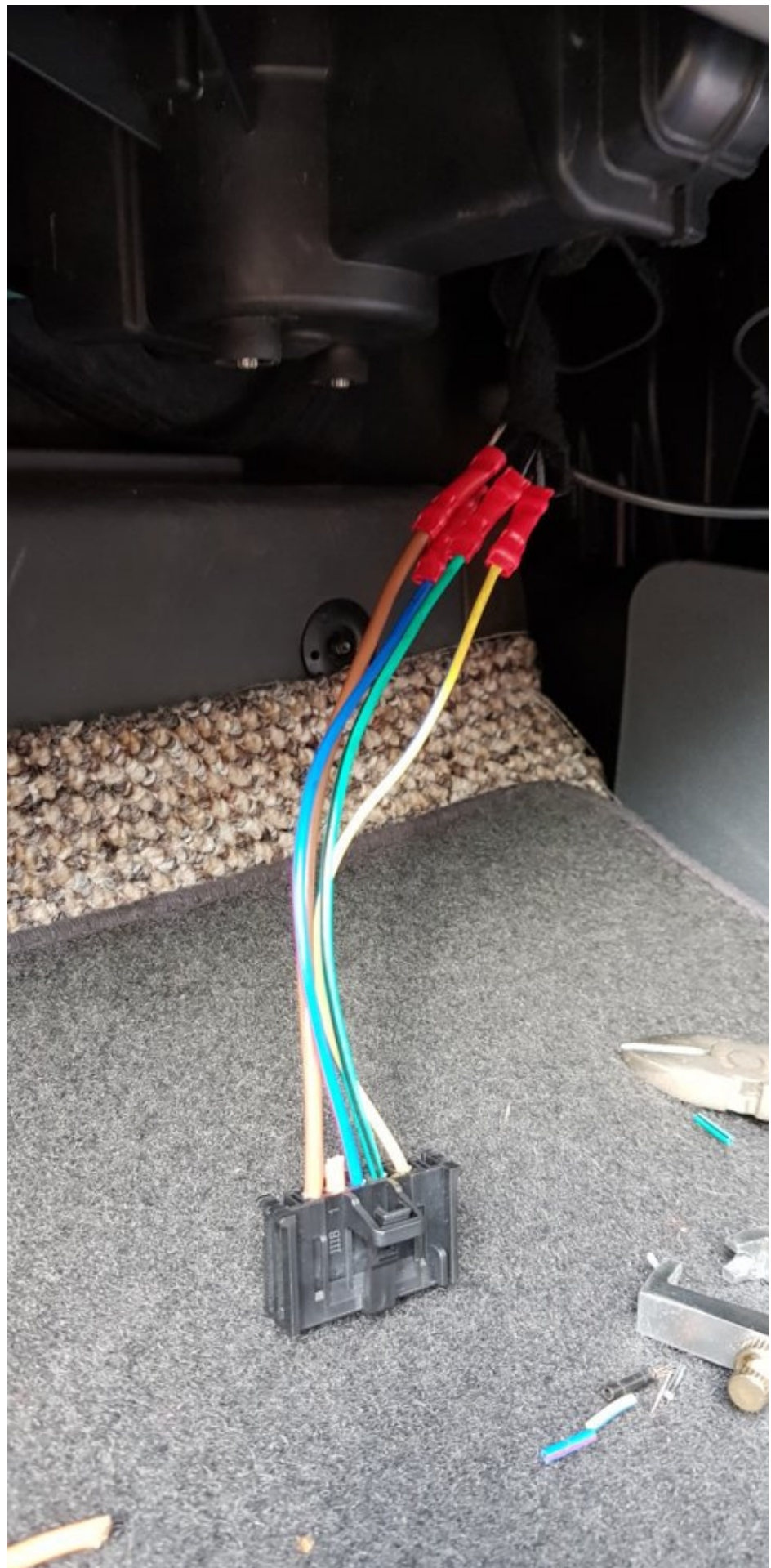
Here's the location on a right hand drive. You don't need to take the glove box to pieces to get to it... in fact I'm wondering if the damage to the wire might have started from an accidental kick from the passenger. You can see the replacement bit of loom that I'm about to splice back in.



Here's a close-up of the burnt out connector:



I spliced the wiring back in with butt crimp connectors. Not sure if it's the best solution for carrying the current, but they are physically robust.



I then wrapped it all in a double layer of electrical insulation tape (I don't have any fabric loom tape with the black schmoo that gets everywhere) and poked the wire back up.



All re-fitted and tested. You can see from this angle, it's a little exposed...



Guigsy, Sep 2, 2018 [Report](#) [Bookmark](#)

#15 [Multi-Quote](#) [Quote](#)

Like it x 1 Thanks x 1 Nice One! x 1 [List](#)



BillyS

Funster

Joined: Oct 31, 2012

Messages: 181

Location:
here there and
everywhere

Ratings: +415

Just had it looked at. As Techno quite rightly said in reply #13 , this was also the case with my wiring plug. Had it all disconnected, contacts cleaned and refitted, and no signs of overheating found at the plug connections, just a bit of corrosion found on the contacts. All is working well now. Thanks again everyone. Just goes to show again, what a great bunch of Funsters we have on this forum.

BillyS, Oct 2, 2018 [Report](#) [Bookmark](#)

#16 [Multi-Quote](#) [Quote](#)

Like it x 2 [List](#)



Jagtazman

Funster

Joined: Jan 31, 2016

Messages: 893

Location: Halifax

Ratings: +797

Guigsy said: ↑

Just to give this thread a bump. My 2007 (x250) Ducato started to get a dodgy blower heater fan. Sometimes it'd work, then it'd only work on max. I found this thread and started to investigate. Turns out that the connector going to the resistor pack had fried. Apparently this is pretty common on many vehicles across lots of makes. I think my resistor pack was OK, but the pins were a little singed, so I replaced it anyway.

Here's the location on a right hand drive. You don't need to take the glove box to pieces to get to it... in fact I'm wondering if the damage to the wire might have

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Where did you get the new connector from?
Mines dodgy at some give it a clump and works so prob needs replacing a some point.

Jagtazman, Oct 3, 2018 [Report](#) [Bookmark](#)

#17 [Multi-Quote](#) [Quote](#)



GU

Guigsy
Funster

Joined: Sep 17, 2017
Messages: 358
Location: Birmingham, UK
Ratings: +844

Jagtazman said: ↑

*Where did you get the new connector from?
Mines dodgy at some give it a clump and works so prob needs replacing a some point.*

EBay:
<https://ebay.us/q6DeQY>

Guigsy, Oct 3, 2018 [Report](#) [Bookmark](#)

#18 [Multi-Quote](#) [Quote](#)



DE

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