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Thread: TPMS relocation DIY + add ESP

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Verebs1 o

Member

Join Date: Oct 25th, 2011 Fairfield County, CT Location: Posts: 4.182 Vehicles: 2011 Jetta S

Y/ 🕃

TPMS relocation DIY + add ESP

03-04-2012 02:39 PM Reply

Like I said I would, here is a DIY for relocating the TPMS to the shifter switches location using the haress from Bold Sport. In this DIY I also use this harness to add the ESP switch and an extra spot to pull power from for adding another switch in the future. (I was thinking "W mode" or the "garage opener") The directions are done assuming you are relocating the TPMS and adding the ESP switch. This is also the ONLY DIY that allows you to retain the dimmable feature of all of the switches you choose to install. The power source is already established and you will NOT need a separate fuse. This DIY will work on any model Jetta (as far as I know) and if you have any trouble please feel free to PM me and I'll try to help

A big thanks to those who helped me (directly and indirectly) with this DIY: asusc, Fendermender, ogai, and CDN TDI.

This DIY is moderate to easy depending on your technical experience.

Here's what you will need:

- 1x Set Harness (Bold Sport) Get 2 if you plan on adding more than one additional switch.
 1x TPMS switch (removed from your glovebox)
 1x ESP switch (your choice 5K0927117, 1K0927117D etc.)
 4x 22-18 gauge wire 25" long
 2x 000979012 (E, A, or EA)
 1x 8K0973754

- 1x 8K0973754
- 1x 8K0972994
- 1x 000979009 (E, A, or EA) Small Screwdriver

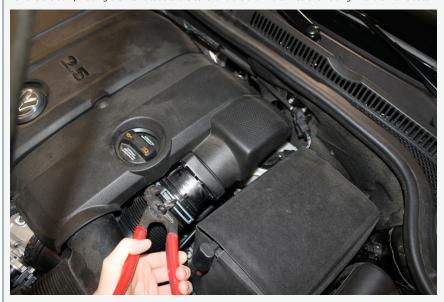
- Soldering iron + solder Shrink tubing, Electrical tape, or Cloth tape Needle or other sharp/pointy
- T20 Torx
- Wire strippers
- Knife
- ** Alternative to the repair wires and two connectors you could use wire taps but using my method allows you to have a harness that is easily removable.

Now lets build the harness that will move the TPMS from the glovebox to the shifter area and allow additional switches to be easily added there. I chose to use two connectors to extend and tap into the TPMS harness rather than taping into the original harness using wire taps just in case I need to make changes or want to remove it at a later date.

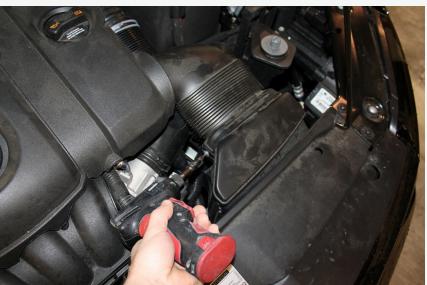
First remove the engine cover (if you need to) to gain better access to the ABS module. Then remove the glove box, right side kick plate, shifter trim, and the storage tray. This will give you all the room you will need to do the work. Directions here:

🔐 Originally Posted by Fendermender 🔟

Remove the clamp holding the intake tube to the cover and the two T20 torx screws holding in to the intake duct.







then pull up on each corner to remove. Ive heard its best to start on the back corners to avoid breaking it.



[If you find it necessary to remove the cowl use the directions here. I did not remove the cowl but instead slid my hand underneath it to retrieve the wire that I had fed through the hole]

Next to gain access to where you will be running the wire you must remove the passenger side portion of the cowl screen. Put the wipers in service mode and remove the gasket at the front edge. then pull up on the edge of the cowl that butts up to the windshield to remove. Take not of how this piece is oriented in relation to where it meets the fender and the windshield to be sure you put it back correctly. Use the driver side for reference.



once you have removed the cowl if you look under the windshield you can see the plug where you will want to run the wire.



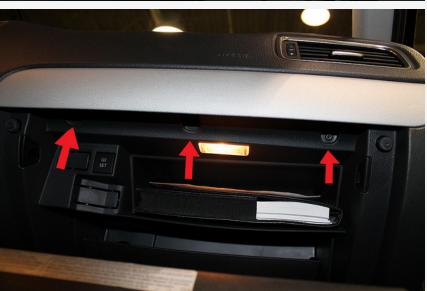
You will also need to remove some interior pieces to run the wire to the switch.

Start by popping off the outside dash cover with a pry tool



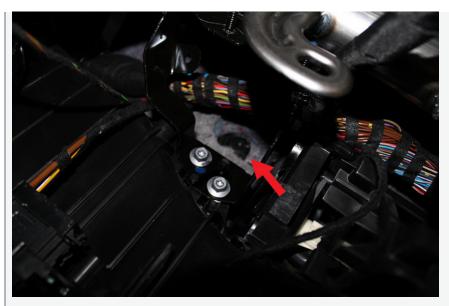
Then remove the T20 screw behind that cover on the side, three screws on top behind the door, and two underneath.







disconnect the wires going to the glove box and remove it. If you look up toward the firewall you can see the inside view of the plug you will run the wire through



Next remove the kickpanel at the bottom of the center console by removing one T20 screw



The kick panel slides in at the front so to remove pull down on the rear of and then slide back this pictures shows the slide.



Next remove the trim around the shifter by prying it up with your hands [a credit card] or a pry tool.

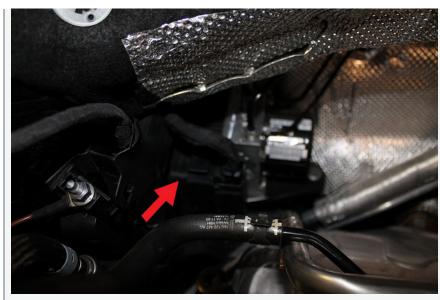


next remove the two T20 torx screws that hold down the front part of the trim and pull it out.





[locate the ABS module on the passenger side near the firewall and unplug it by pulling the tab on the top of it all the way up and it will come loose]





then pop off the cover on the back of the ABS module plug.



[Remove the white rubber plug from the ABS connector hole 39, the hole that is 8 spots to the left of the large brown wire.]

You will also have to pop the grommet out of the firewall. If you chose to remove the cowl then just push it out (into the car's interior) with your finger. If you did not remove the cowl then use a long screwdriver or stick to push it out.

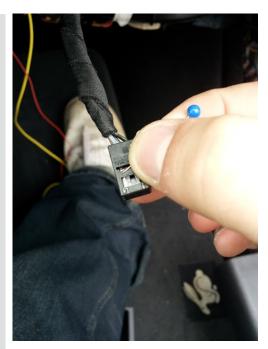
Starting in the car with the OEM harness for the TPMS, shown here with the orange connector.



Remove the ziptie and take the orange connector off the black socket with the small screwdriver so you have this:



Use a pin or other pointy to poke the metal retainer on the pin down so that it could be pulled out. Be sure not to press the retainer too hard or you will bend it down and it will not be able to retain the pin anymore.



You will end up with this:



I removed some of the cloth tape to make it easier to insert the pins into the new connector. Grab the 8K0973754 connector and insert the pins into it.



Snap the connector closed to keep the pins in place.

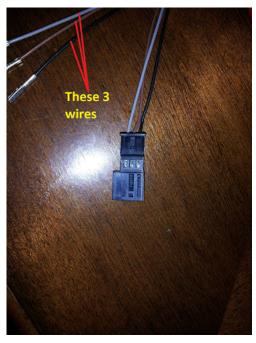




Now to the Harness from bold sport:



Remove the cloth tape on the orange plug so that the pins can be removed from the black socket like we did before with the pin. From the best of my memory the wires were not in the correct spots on the socket so that they would line up with the pins on the TPMS. Set the red wire aside and we will use that later. Take the 3 wires (Black, Grey, Brown) and insert them back into the black socket for the TPMS making sure they go into the correct locations. Using a knife, carefully remove about half an inch of insulation from the 3 wires shown below. I chose a spot about middle of the wires.



Insert a striped end of 3 of the 25" wires into the striped area and solder and them like this



Use shrink tube on the splices or wrap them with electrical tape.

TPMS Switch
Pin 3 - (Grey) Power +12v
Pin 4 - (Green/Black) Power +12v
Pin 5 - (White/Black) ABS Controller
Pin 6 - (Brown) Ground

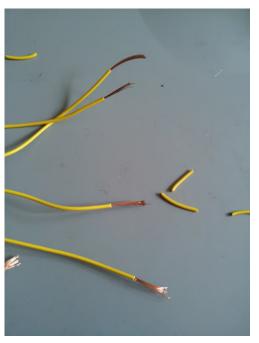
ESP Switch
Pin 3 - (Grey) Power +12v
Pin 4 - (Black) Power +12v
Pin 5 - ABS Controller (Pin 39)
Pin 6 - (Brown) Ground

Take the 000979009 wire and cut it in half, save or toss one half. Strip a bit off the end and solder it to the end of the one of the 25" wires. Shrink wrap it and then put the connector into spot number 5 of the same black socket that you put the 3 connectors into already.

Next take the two 000979012 wires and cut them in half.

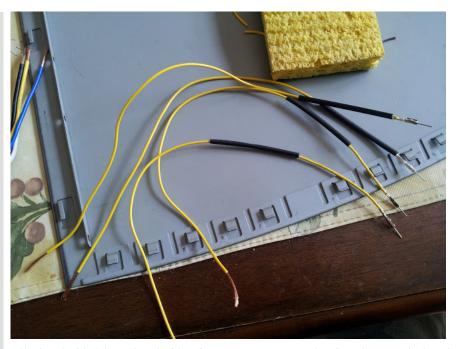


Strip the ends.

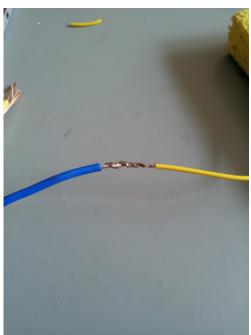


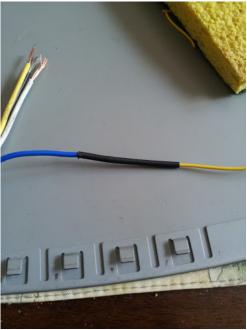
If you are using shrink tubing cut it and slide it on because it will be harder or impossible to do it later depending on the diameter you are using.

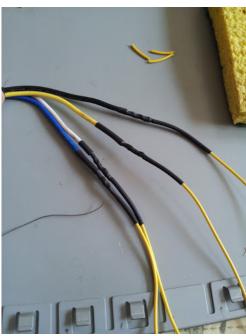




Solder the ends of the halves to the ends of the 25" wires. You may want to trim the 25" wire that is not spliced into the harness, to make it the same length as the other wired before you solder it to the half of the pin-end wire.

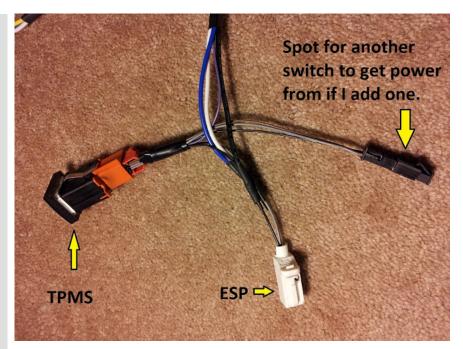






Insert the box-end connectors from the harness that you spliced the 3 25" wires into, into the socket that you took off the OEM TPMS harness. Make sure you put them into the correct locations. We will add the trigger wire later on.

It should look like this

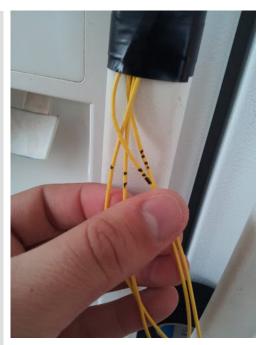


I do not have the red trigger wire for the ESP shown in my picture because it is easier to connect it after running the wire through the car to the ABS.

Time to get wrapping...



Make sure you label the ends so you know which wire is which lol.



All wrapped.



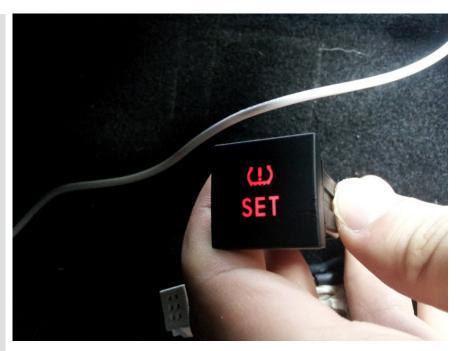
Now back to the car. Grab the 8K0972994 connector and insert the pins from the harness you just made, into it and snap it closed. Please make sure you insert the correct pins into the correct spots, if you don't bad thing could happen.



I then wrapped the harness with the tape to make it look finished.



Plug the TPMS switch into the harness and turn the headlight switch on. If your switch looks like this then continue on, if not then you have a problem and should probably have read the directions instead of skimming .



Almost done...



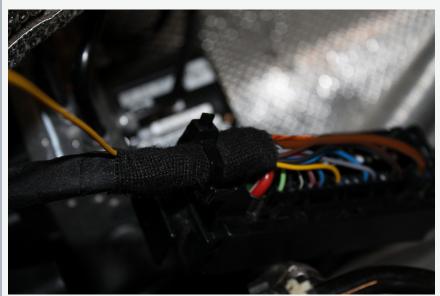
Poke a small hole in the grommet that you removed from the firewall earlier. Wrap the red wire that you set aside earlier with cloth tape and push it through the hole in the grommet. Make sure you put the "box-end connector" end of the wire on the flat side of the grommet.



Thread the wrapped wire through the hole in the firewall from the inside of the car into the engine bay. Using your finger or the long screwdriver/stick push the grommet into the hole in the firewall and lock it in. Plug the "A-end" (end with the rubber plug) of the wrapped red wire into the ABS module (hole 39).

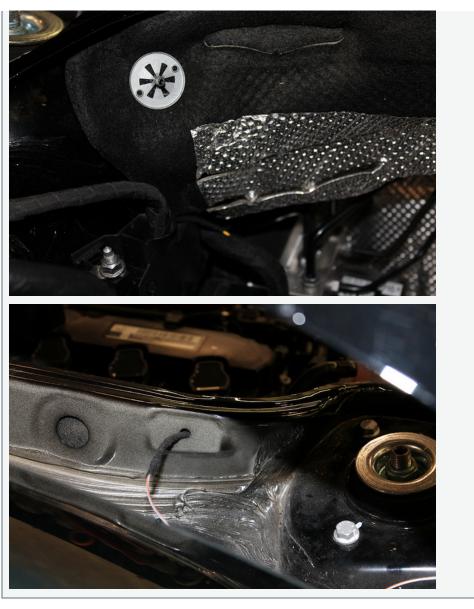


Then [unclip or] cut the ziptie holding all the wires to the plug and tape the new wire to the existing ones and replace the ziptie and cover.





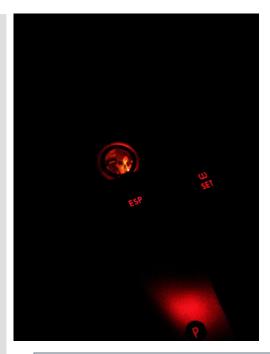
then unscrew the retainer of the heat shield on the back of the firewall and route the new wire behind the heat shield and through an existing [hole in the firewall].



Pull the excess wrapped wire back into the interior of the car, route the wire so that it is tucked and secured. There are a few clips you can put the wires through.

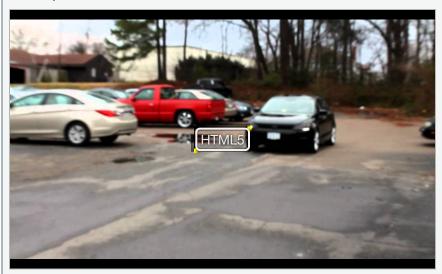
Now plug the box-end connector into the black socket on the harness that is for the ESP switch. Put the cover back onto the socket and wrap the end of the harness with the cloth tape to finish the harness. You may want to check that the ESP switch lights up when the headlight switch is on before putting everything back together.

Replace the storage tray and plug both switches into their respective spots on the harness before securing the tray. Replace the interior trim and the glovebox and you are good to go.



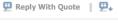
Originally Posted by Fendermender

Without an MFD there is no indication inside the car that the traction control has been disabled but the switch does work. here is an attempt to spin the tires before and after disabling the traction control(the first attempt is with ESP on then back up and try again with ESP off)



Last edited by Verebs1; 06-07-2012 at 10:25 PM.

03-04-2012 04:58 PM Reply #2



Verebs1 o

Member

W S

Join Date: Oct 25th, 2011 Location: Fairfield County, CT Posts: 4,182 2011 Jetta S Vehicles:

What do you guys think? I'd appreciate some feedback.

Last edited by Verebs1; 03-26-2012 at 08:49 AM.

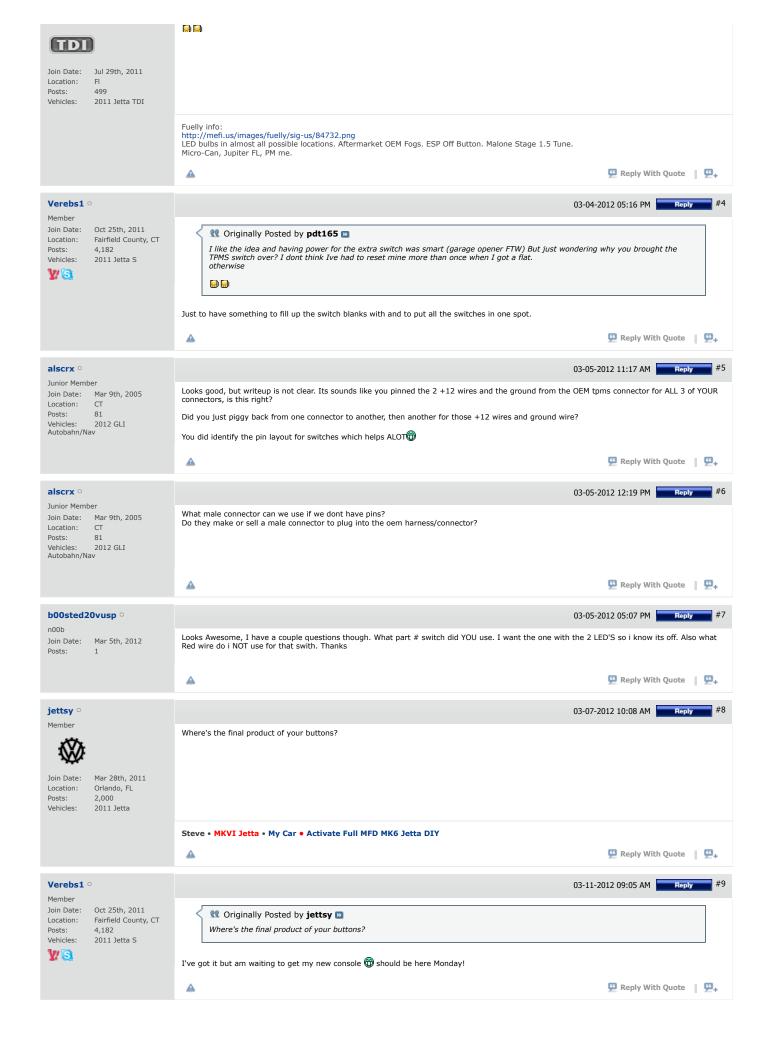


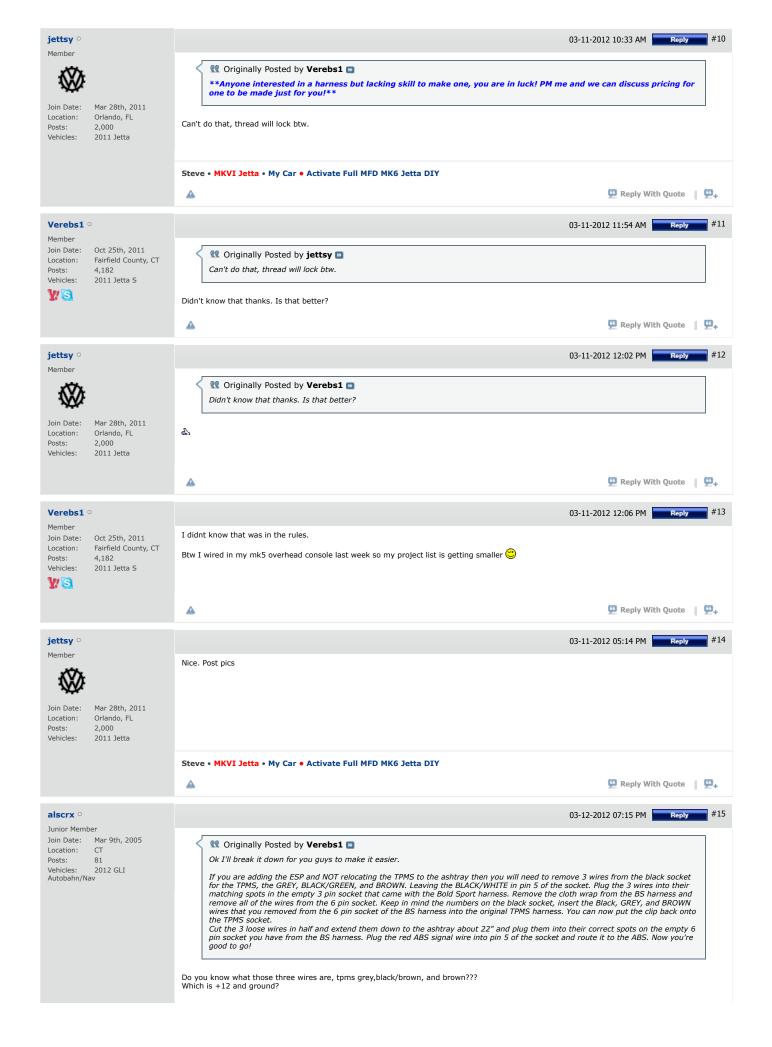


pdt165 ° Member

03-04-2012 05:12 PM Reply #3

I like the idea and having power for the extra switch was smart (garage opener FTW) But just wondering why you brought the TPMS switch over? I dont think Ive had to reset mine more than once when I got a flat.







GTI

Join Date: Oct 22nd, 2004 Location: Phoenix, AZ 754 2015 GTI Vehicles:

As soon as I have all the correct pics I will. How do you suggest I reference this thread? Idk if there is a proper way.

Just make a mention of it in the original post in the new thread with a link back to this one. If there is no relevant info in this thread that won't be covered in the new one, then it isn't totally necessary, but still might help out someone.

Matt / 2015 Pure GTI / AWE / APR

Hit me up if you need a VAGCOM in Phoenix.



PReply With Quote P4+



Verebs1 o

Member

Join Date: Oct 25th, 2011 Location: Fairfield County, CT 4,182 2011 Jetta S Vehicles:



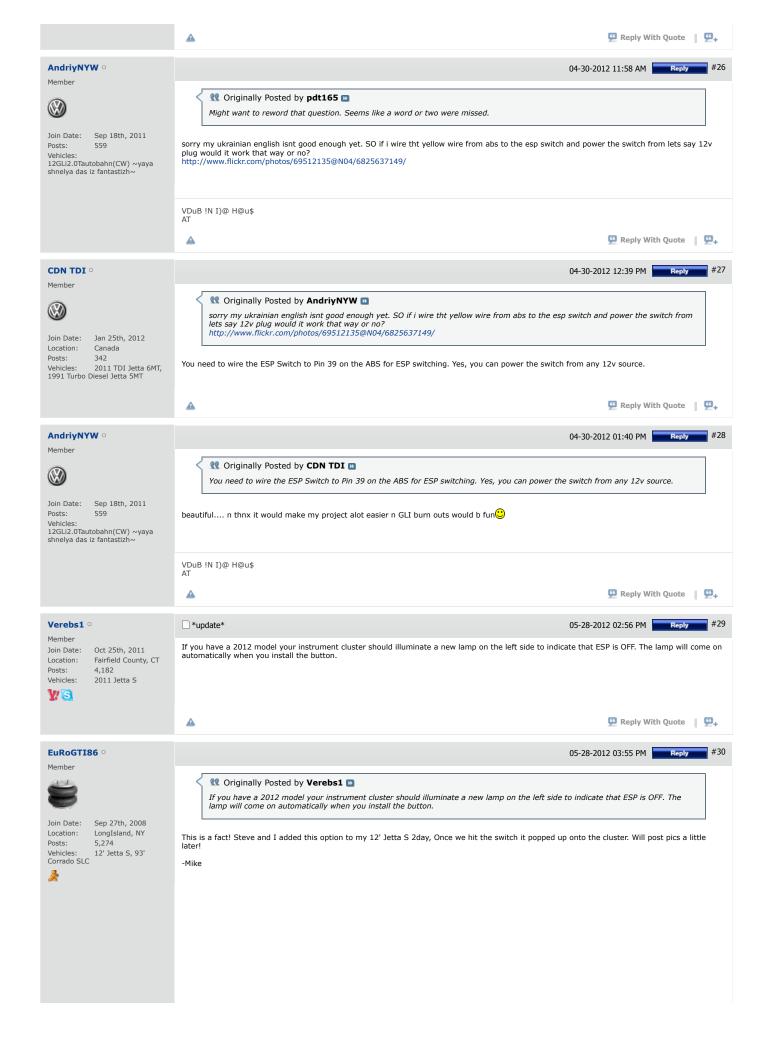
Got the illusive dual LED ESP Switch in the mail today!

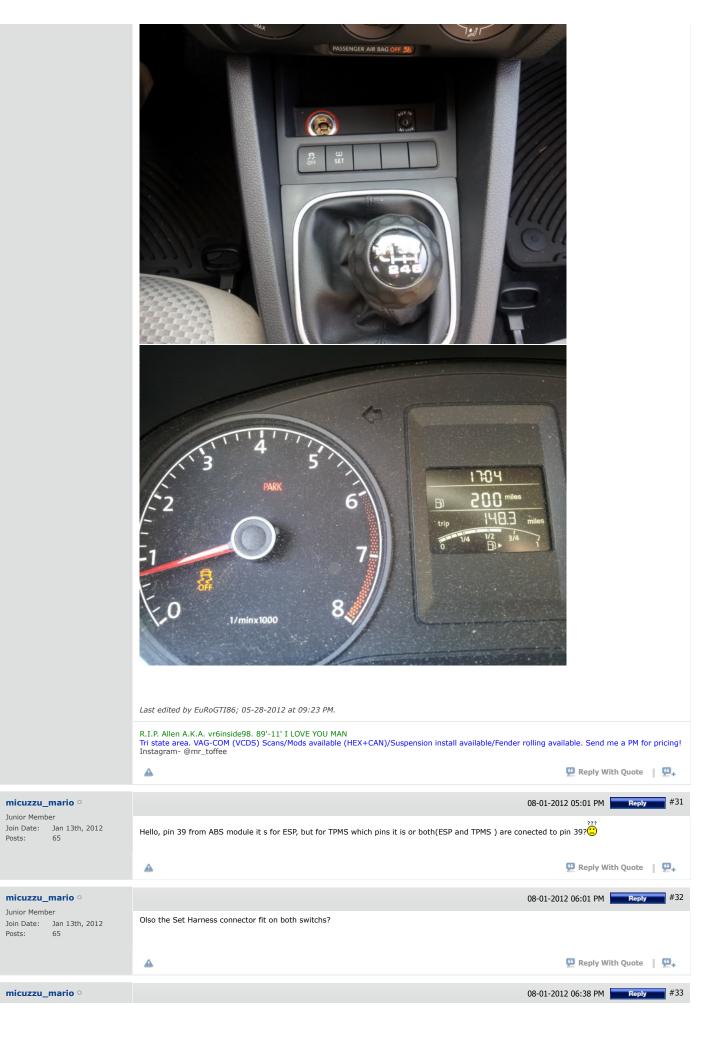
03-19-2012 12:37 PM Reply #22

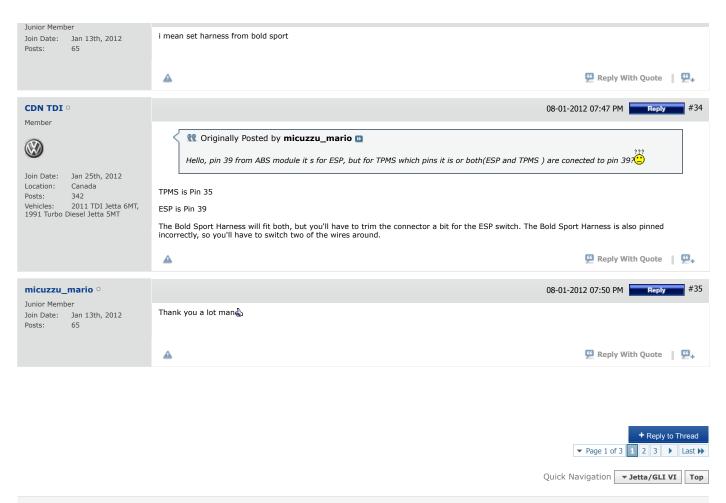












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