

PROJECT: Retrofit & comfort seats AND modify driver seat to add Memory function.

As you most know (over 2000 visits )I decided to do the unthinkable, retrofit all wiring and parts as factory standard of climatic, comfort front seats, as well as rear heated seats. Below are a guide reference and some pictures as per your request:

CAR: AUDI 2010 ALL ROAD/AVANT /A4 SEDAN / Q5 B8

-PARTS NEEDED:

-COMFORT SEATS.

-8K0959760A (J136) MEMORY CONTROLER WITH comfort + memory.

-8k0959747B (DRIVER SEAT ADJUSTMENT OPERATING SWITCH E470)

CLIMATRONIC CONTROLLER: 8T1820043AD

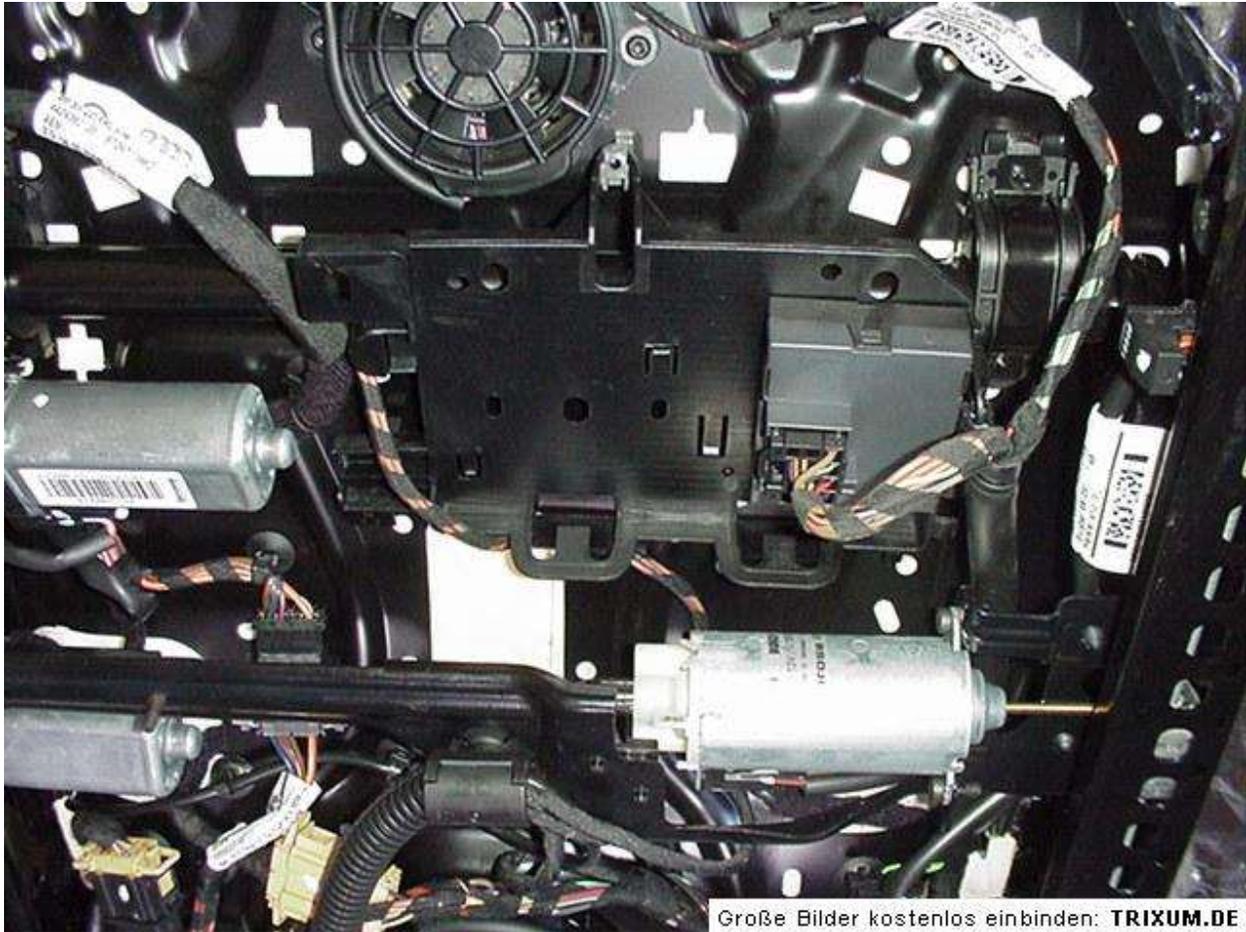
-Door trim panel 8K1867103D (WITH E97=Driver seat memory operating unit in drivers door trim.)

-Various plugs and pins according to ETKA schematic instructions.

I will cover the procedure for the front seats:

-When i received the seats from Germany i realized that there was no memory function build in ,so i took the challenge to study the complete schematic diagram at Elsa ,and modify the driver's seat as well.

Below is a photo of the seat with comfort function only:



As you can see the control module j800 was there and it was suitable for the passenger seat ,but in order to have memory function i had to replace the j800 with the memory module j136 part number :8k0959760A.

In principle the operation is much more simplifying where power is concern since in this configuration (memory function) the seat shares the power from S44 which is the same as before and standard to all electric seats in any Audi car. So the 12v from s44 goes in to the car seat directly via the side switch that controls the position of the seat (E176 ,E222,E363 ,E364 ETC)and drives the corresponded motors i.e. : V243 ,V28,V245 V45 , in the new configuration ,the power of S44 goes into the memory module controller and then the memory controller takes the task to drive seats movement ,memory and comfort function.

The problems similarities as well as the main difference among the two configurations were:

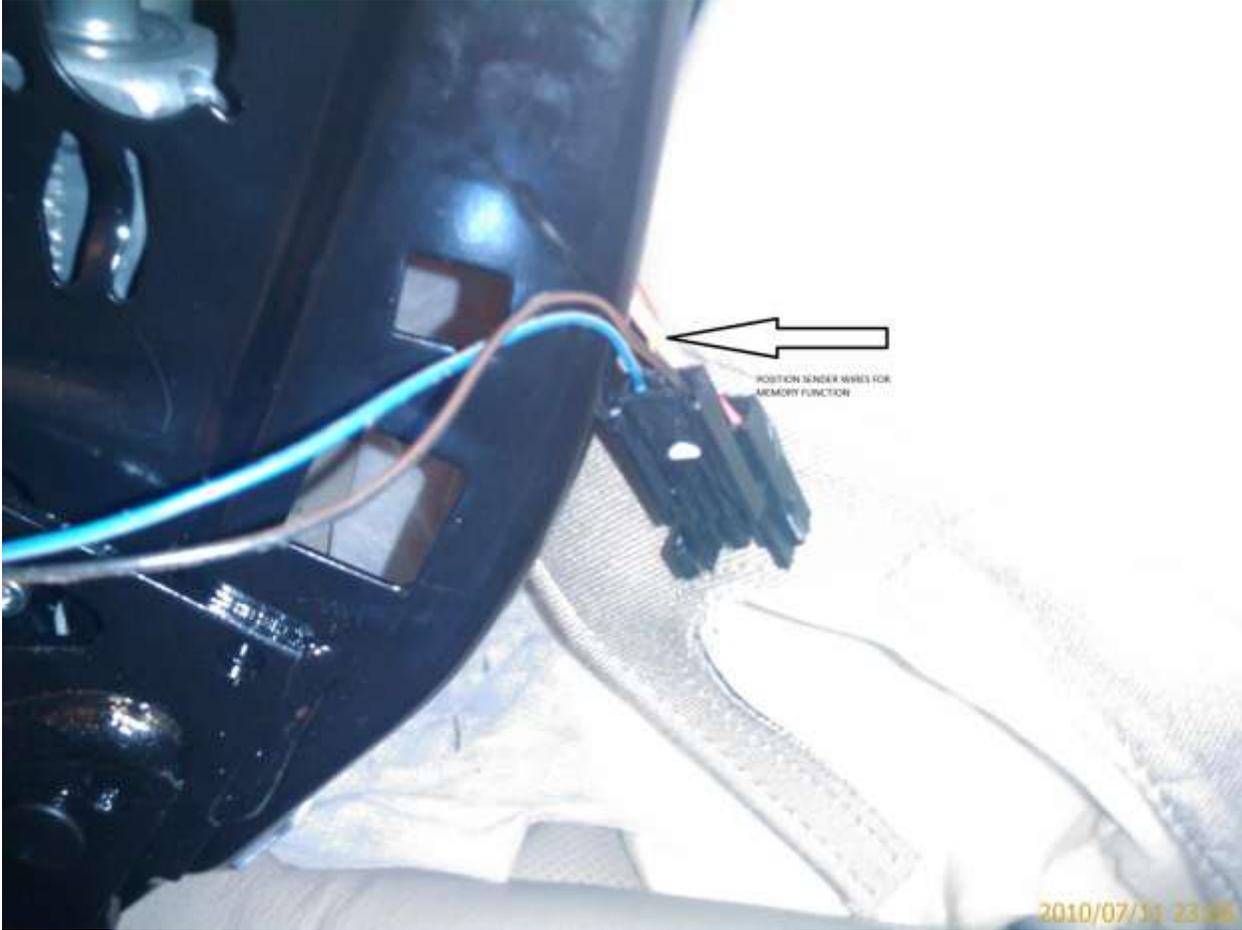
The motor parts of the electric version only seats ,are the same part numbers as the memory version however their plugs DO NOT HAVE THE POSITION SENDER WIRES PLUGED IN TO THEIR MOTOR PLUGS.



PLUG OF MOVING MOTORS NOTE THAT THERE  
ONLY TWO WIRES FOR POWER IN MEMORY  
VERSION THERE ARE TWO MORE WIRES FOR  
POSITION SENSER.

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BELLOW are the plugs fitted with wires for the position sender function with memory :





So i had to connect the positioning sending wires in all the motors of the seat -that was easy regarding the motors under the seat- however there was a motor inside the back rest and this i had to access by

stripping the rear of the seat.

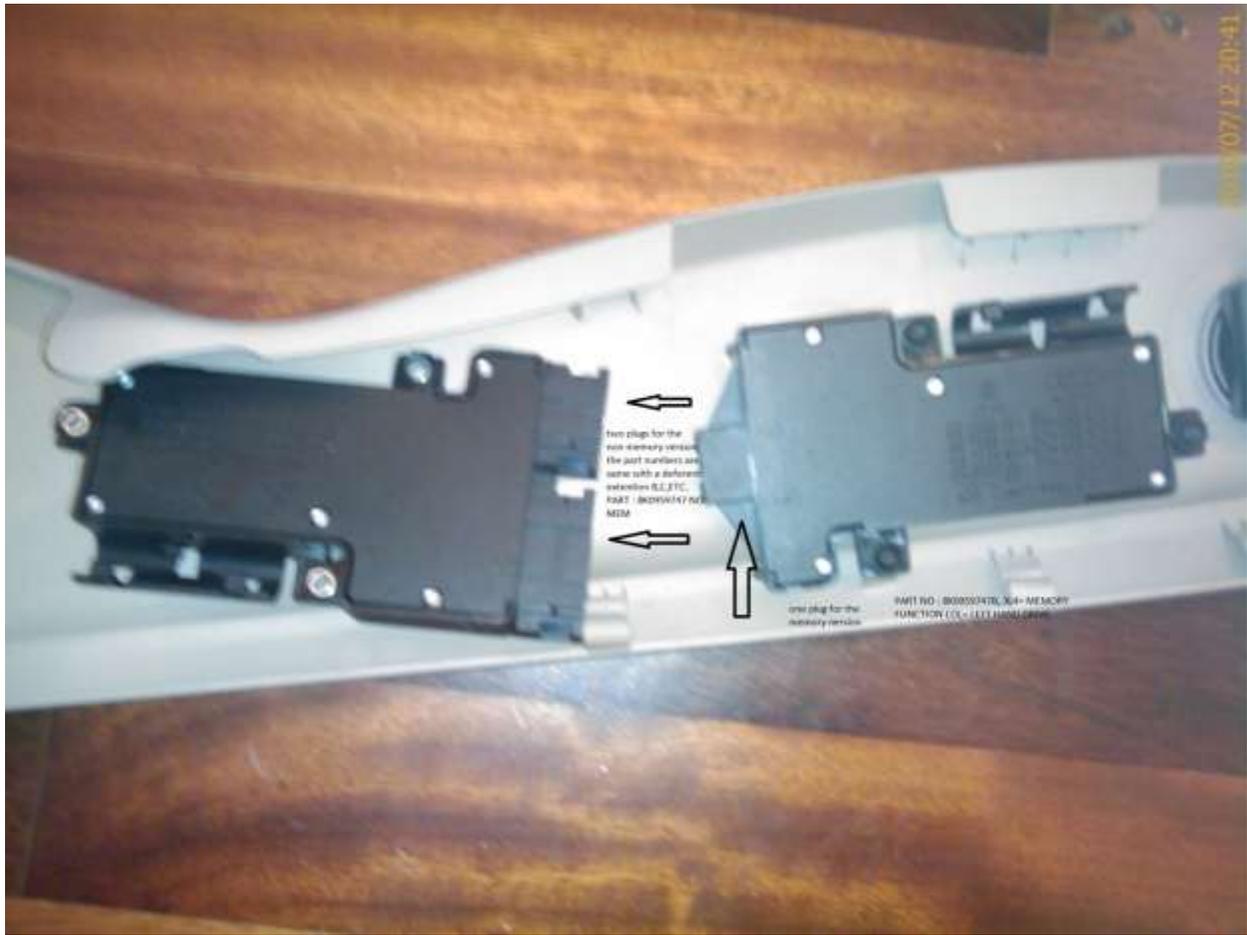


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The next stage was to replace the function switch module on the side of the seat with the one for memory function. Below is a photo of the old switch :



And the two together so you can see the difference :



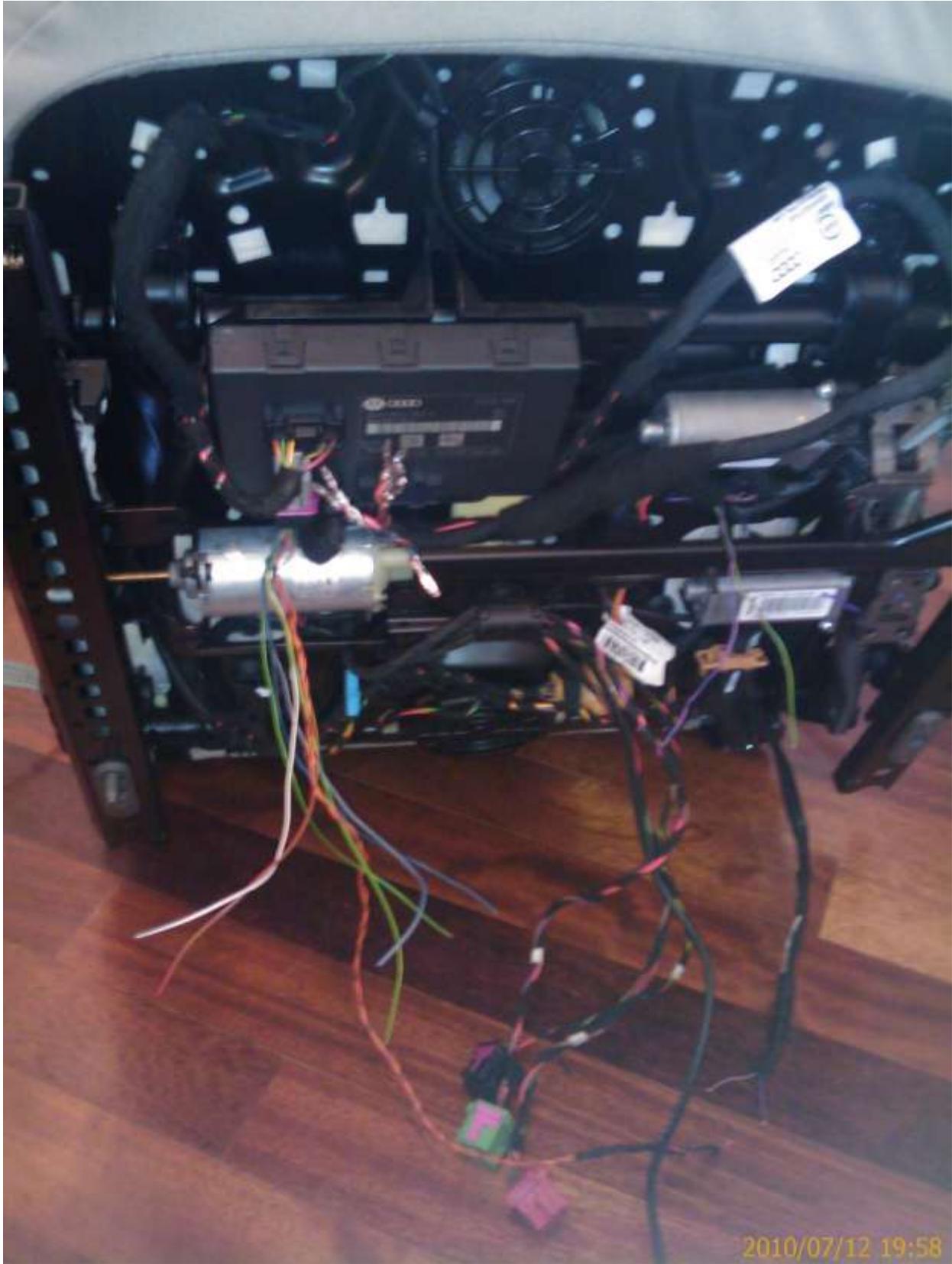
And the last changed part was removing the j800 comfort function controller and install the seat & backrest adj., control module part no : 8k0959760A (A= MEM PRU=comfort )



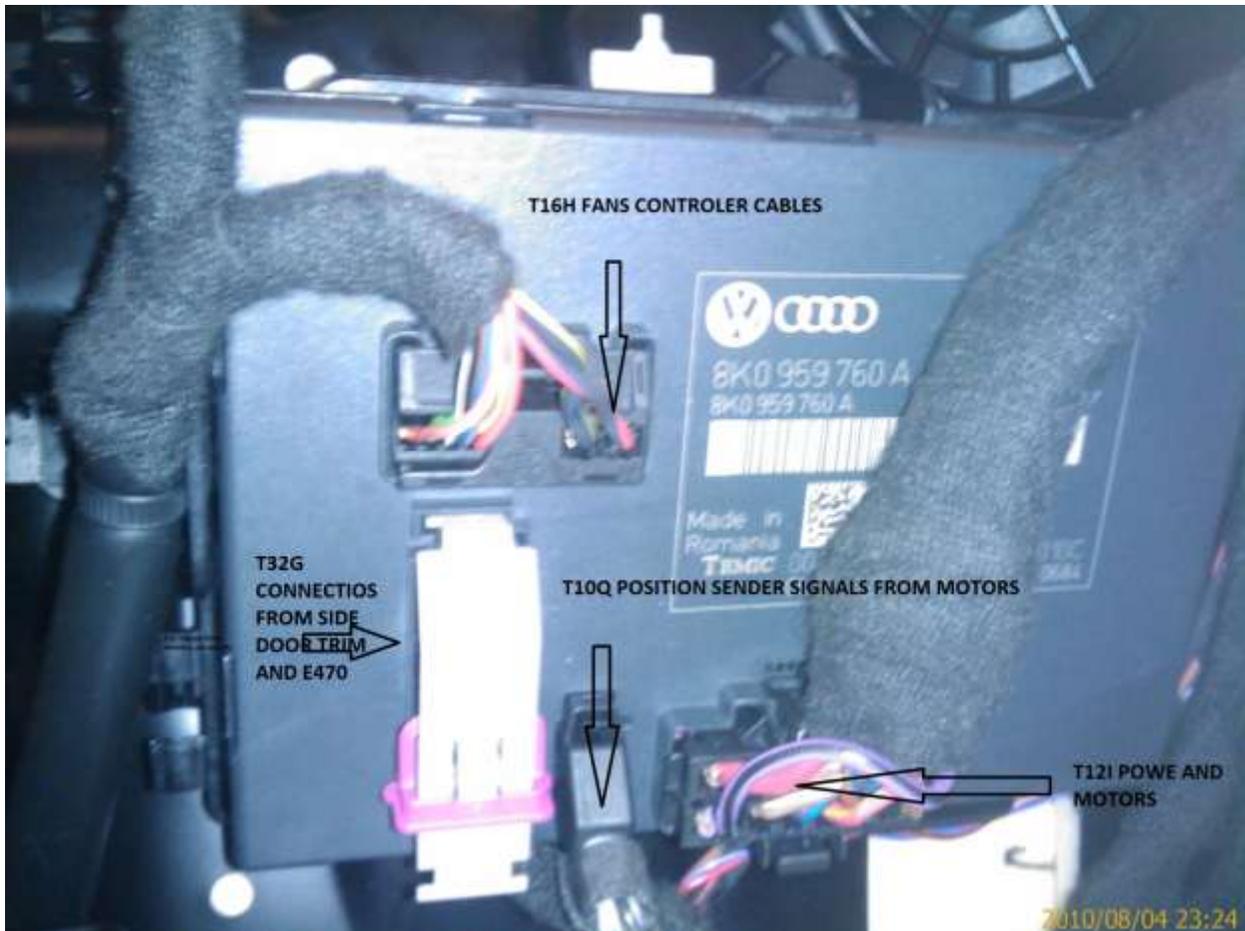
After i install the memory controller (using the same bracket that the j800 was in, i started connecting one by one all the corresponding wires. Please note that some basic electronic knowledge in schematic diagrams is required and you need to read and compare the 2 schematic diagrams of Elsa within the ventilation seat ,version page no 68 /1,5 and driver seat with memory function page 31/1,8 as well as the standard electric seat pin out configuration Elsa no 30/1 to 7.



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i Will not get into the pin configuration since this is a straight forward connection and all wire colour coding remains the same to both versions from one plug to the other. You have to purchase the correct plugs that fit into the memory module, i got them from an old harness i purchase second hand and i just striped the wire pins out of the old plugs and into the new one according with the schematic guide from Elsa.

What is important to remember is that the memory controller communicates via can bus FROM PLUG T32G /16,15 VIA PLUG T10P /6,7 to pillar A connection junction and connects to any convenience can bus line within the car.

However the comfort passenger seat j799 only uses a lin bus line (purple wire) that connects to the main diagnostic line of the car and switches on the system via the climatronic controller.(t18c/14 via t6k/6 to B549 main line.)I trace mine on the left side of the car under the trim by the door .Also for the comfort function only of the passenger seat ,you have to supply the separate power line from j799 pin 3 OF PLUG T18C VIA T6K /4 (GREEN PLUG) to ST3 SF2 FUSE on driver side fuse box.

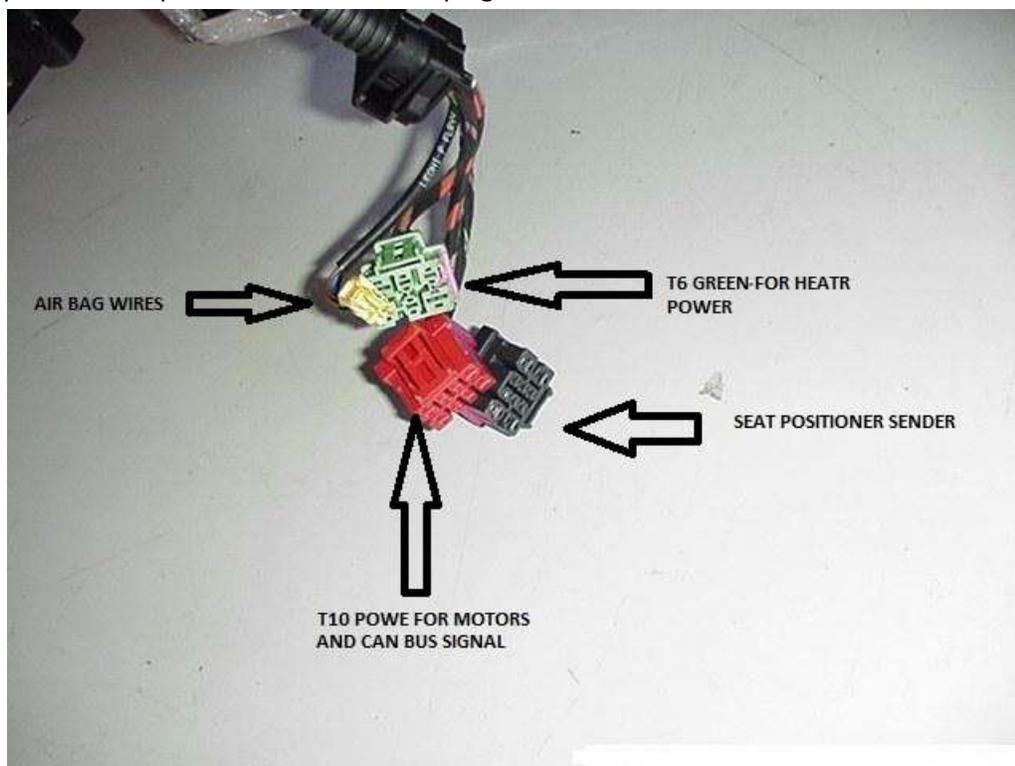


once i changed the side switch for the movement function i had to modify some wiring such as use only one red power cable to the memory controller input since there were more than 3 or 4 red power wires splitting from s44 into the non memory version function switch. I fold the others with tape so i do not cut any original version wires.(This way the modification is totally reversible)

Also note that the power supply j519 does not required to be changed to a version that support heated seats.

note that : 6 pin connector green (G) T6f is the connection from the green plug under the seat with comfort function only or heater only and NO memory. In that case in order to get the passenger seat comfort function to work without changing my J519 power supply module ,i bridged the red wires on G CONNECTOR for the passenger seat 12 volts red wire supply. That did the job.

Also in my case i bought comfort seats from a right hand side car so i had to also insert an occupation recognition sensor on the passenger seat since the driver seat does not have one !!(g554)bellow is a photo and explanation of the 4 main plugs under the seats :



More tips :

I located and purchased a complete drivers door trim panel with the memory function switch and complete wiring so all i had to do was to replace my trim and used the same driver door control unit.

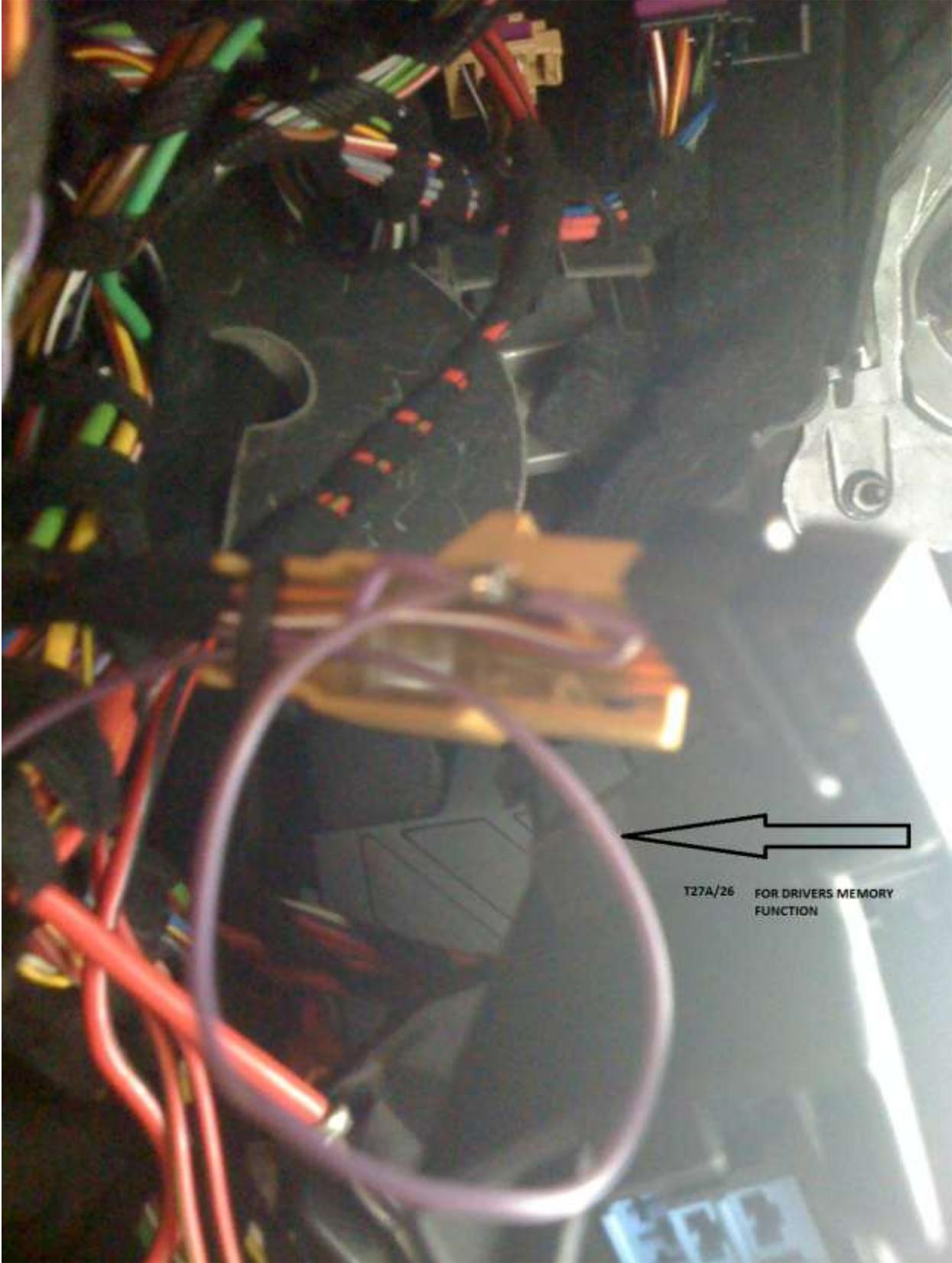


More trouble :mirror memory function

If you want to have memory mirror function a new mirror with motor part number 8T0959577 A (extension finishing in A ), had to be fitted and the required wire signal from the door hinge plug T27A to the memory module had to be inserted as it is missing .(from T10P/10 VIA T27A /26 TO J386 )



The cable is there only from j386 to T27A/26 but NOT from T27A/26 to T10P/10 and T32G/3)





T27 PLUS FOR MIRROR  
MEM FUNCTION WIRE  
TO J136 T325/3



ONCE this is done i had to change the climatronic controller to part : 8T1820043ad in my case my new comfort seats came with the climatronic but since it was from a right hand car the part number started with 8T2 AND NOT 8T1 however the only deference was the the housing facing oposite so i opened the covers and changed the main board.With the correct coding it was perfect!!



coding for clima. :66100002 ( 6 =LEFT HAND ,1=MMI ,2 = memory function with comfort)

Also you have to add the comfort function on passenger seat in the can gate way as well as memory function in driver seat

Remove protection component for climatronic and memory seat and it's all done.

Regards

ARIS DANIKAS

S. AFRICA /GREECE.