



# CMR Installation Guide For BMW E46

The only items you need to complete this installation are a flat-head screwdriver, a 15 & 20 torx bit, a trim pry tool (or a covered large flat head screwdriver) and a 10mm socket or wrench.

Note that this installation is done on an E46 M3. The installation is similar for other E46 vehicles.

For more information about this product, please see <http://www.bimmian.com/CMR>

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Please treat this as a guide only as we cannot be responsible for any loss or damage incurred as a result of your installation. Please always take adequate safety precautions and work slowly and carefully as not to damage your product or vehicle.

Before beginning, make sure car is off.

Approximate installation time, one and a half hours.



Carefully remove the airbag plastic logo. This plastic piece is set deep into the door so be sure to pry it with some force by inserting a small flathead screw driver just under the plastic piece and pushing it out.

You may want to wrap the screwdriver with a cloth just incase it slip, it may scratch your door leather.



Once removed, use a Torx 20 bit to remove the screw behind the plastic logo.



Remove the small plastic cover over the screw behind the door handle using your small flathead screwdriver .

Use a Torx 20 bit to remove the screw that revealed.



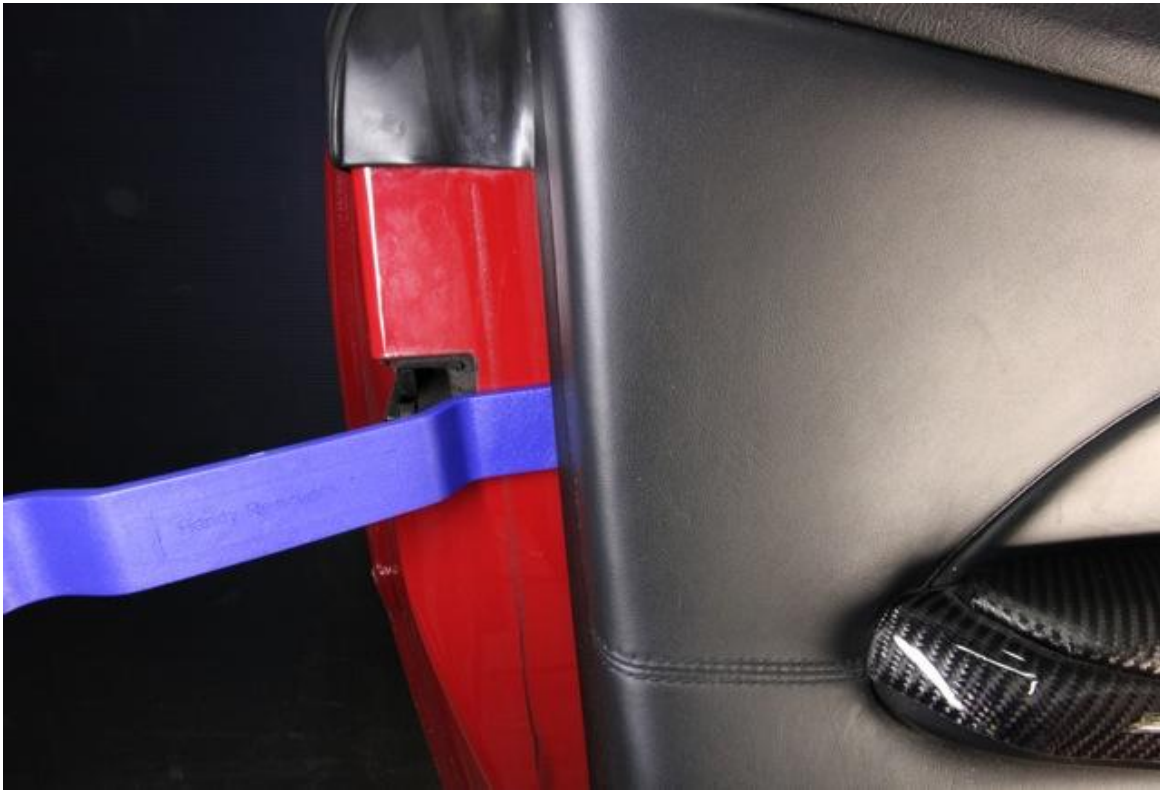
Remove the screw under the arm rest near the front using a Torx 20 bit.



Remove the screw under the arm rest near the middle using a Torx 20 bit.



Remove the screw under the arm rest near the rear using a Torx 20 bit.



Use a trim pry tool or a large flat head screw insert it between the metal door and door panel and pry the inner door away from the metal door. You will hear loud snapping noises. This is the door clips releasing. Make sure that the left, right and bottom of the door panel are completely release away from the metal door.



This photo shows the clips you are releasing. Be sure that all clips are accounted for before reinstalling door later.



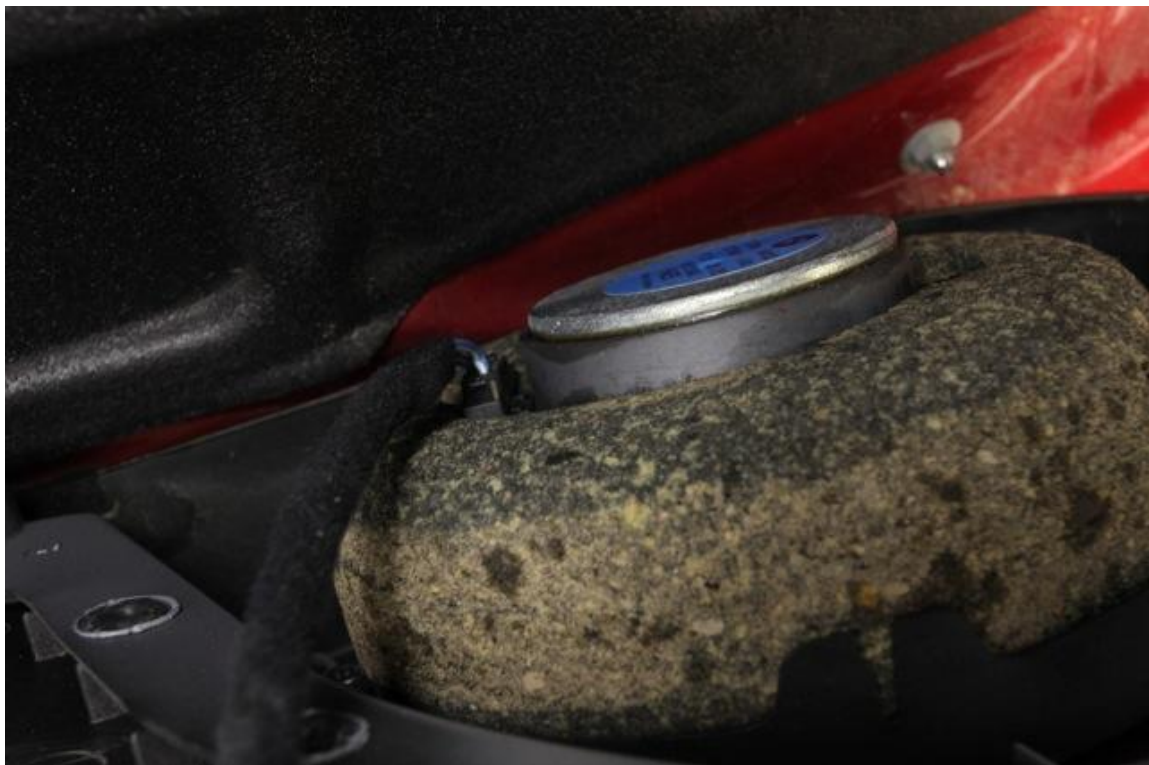
The top section of the door releases itself when pulled away from metal clips as shown. Pull on the door to remove it but not too strongly as there are wires still connected the door you need to release first.



Pull up and unclip the door handle attachment from the inside of the door panel.



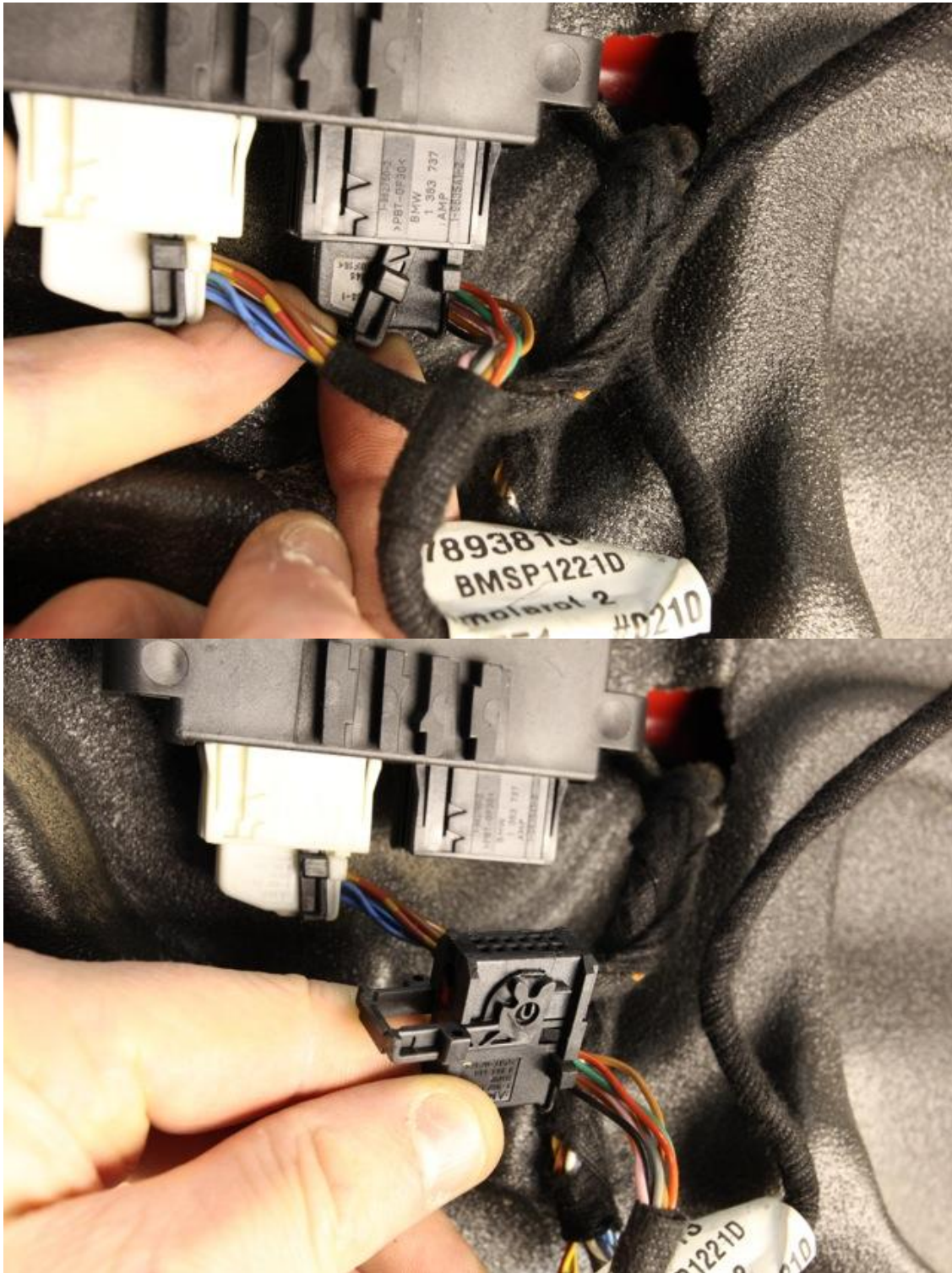
Release the upper speaker by compressing the blue clip and pulling out the connector.



Release the upper lower by compressing the black clip and pulling out the connector.



Release the mirror controls from the panel by using a small flat head screw driver and unclipping the blue connector.



Release the mirror plug from the control module on the door by pushing the black tab to the right (in top image) And releasing it from the connector. Do the reverse of this to reinstall making sure the tap is horizontal at first as shown in bottom image.



On the metal door panel remove the plastic triangle covering the mirror screws. Do this by pulling up and out.



Use a 10mm wrench or socket and remove 2 screws holding the mirror on.



Push the grommet holding the wires outward out of the car. This will release the mirror from the car.

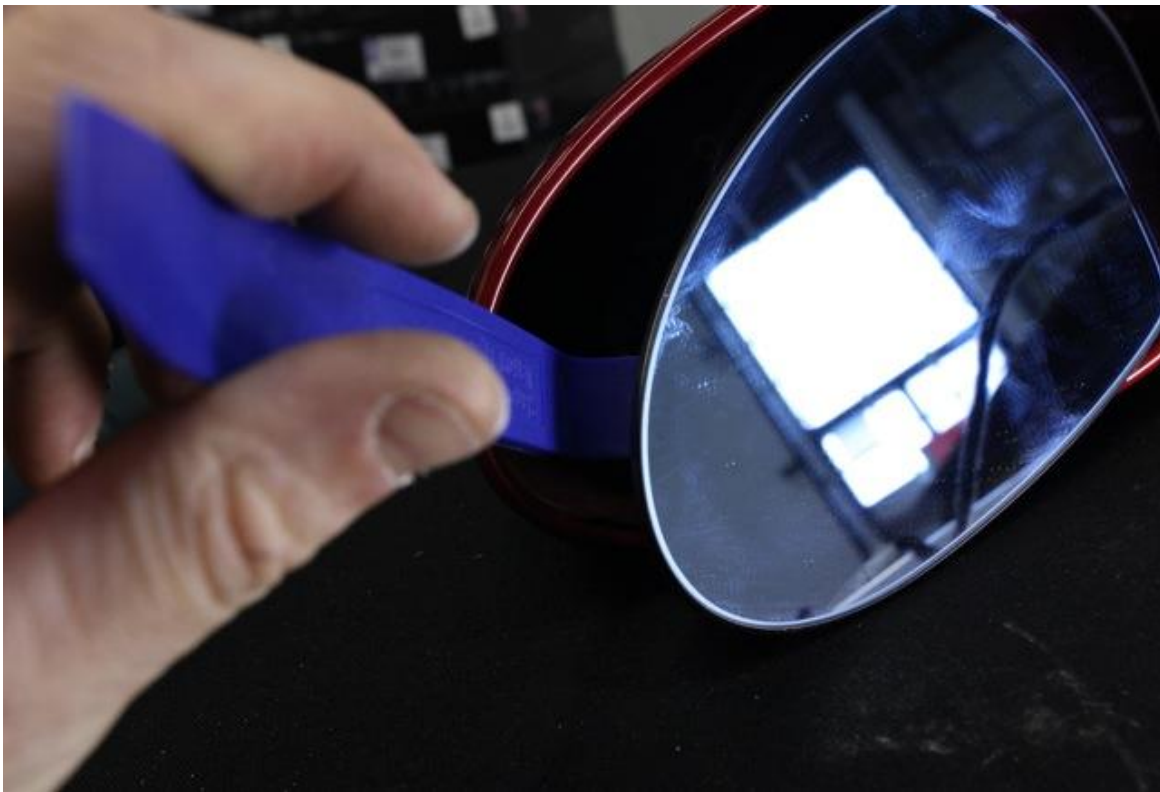


On a table, remove the foam gasket from around the mirror housing





Using a Torx 15 bit, remove the 4 screws around the cable holder.



Use a pry tool or some force to unclip the mirror surface from the cap assembly.



Unplug the heated mirror leads from the mirror surface and remember which cable goes where.



Using a Torx 20, remove the outer screw surrounding the mirror motor.



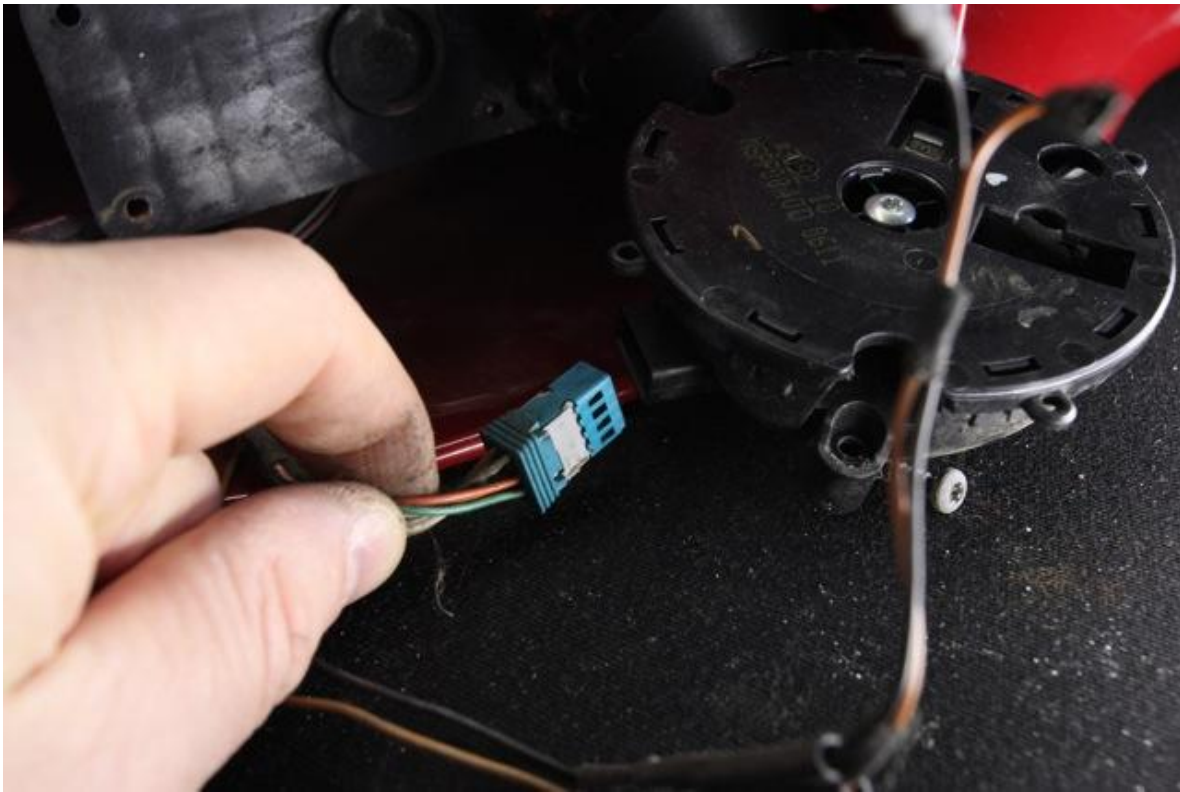
Using a Torx 20, remove the 3 outer screw of the mirror motor. Do not remove the center screw from the mirror as it is a tension screw and does not need to be removed.



Once the motor has been removed use a Torx 20 bit and remove the one revealed screw under where the motor was.  
Remove the plastic over from the cap assembly.



Remove screw that was revealed using a Torx 20.



Unplug wire from motor and pull out remaining wires and part from cap assembly and put cap aside.



Insert assembly in reverse order into your new Bimmian Carbon Mirror and reassembly mirror and door.



Test your mirror to make sure the motor is moving smoothly. If it is shaky in movement, pull off mirror surface and slightly unscrew the center screw of the mirror motor and retest. (this should only occur if center screw was removed or adjusted during disassembly/assembly).