

## **Ferrari 348 GTS Door Mirror Removal and Disassembly**

### **Removing the mirror**

Remove the triangular trim plate from inside the door (3 self-tappers). Be careful not to damage the rubber coating - this trim is expensive.

You now have access to the three retaining nuts on studs (10mm AF) which hold the entire mirror assembly onto the door. Unscrew them whilst supporting the mirror.

When the nuts are removed, the mirror can be withdrawn far enough to disconnect the electrical connector (just pull it apart). The external triangle trim and the rubber gasket at the mirror foot base will now be released - careful not to drop them!

The large rubber triangular gasket inside the external trim can be replaced - they are very inexpensive - part number F65209000.

### **Disassembling the mirror**

Unscrew the one self-tapper holding the plastic cover on the underside of the mirror arm. Unclip the cover. See pic for the arrangement of clips on the plastic to avoid breaking them off.



The next task requires insider knowledge which has been provided on different forum threads for the 348 and 355 both in the US and UK. Thanks go to these pioneers!

The mirror needs to be eased out into a position where you can just get an electrical screwdriver or similar implement onto the wire clips which retain the mirror onto the motor housing. With both these wire clips disengaged (see photos) you can then remove the mirror and carefully withdraw the electrical connectors for the mirror heating. Do not pull on the connectors without holding the mirror part of the connector firmly, otherwise you will pull the stubs off the printed circuit foil or worse.





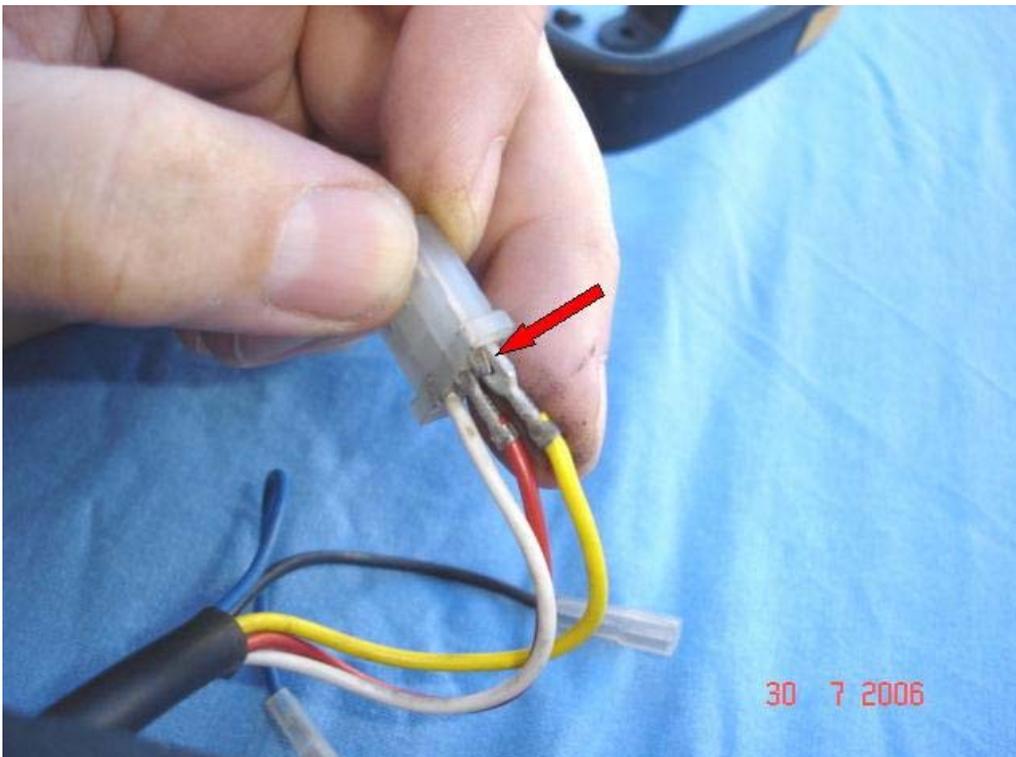
Put the mirror to one side - preferably in plenty of bubble-wrap!

Undo the 5 small self-tappers retaining the mirror plastic surround. Note that there are two different types of screw.



Pull the connector off the motor housing. To fully strip the mirror housing for a repaint job, this connector has to be removed from the wires. Note the positions of the wires for re-assembly. Then using a very small screwdriver or something else usually used to get stones out of horses' hooves,

depress the tang which holds the metal connector in the plastic plug and remove the connector. See photo. You can now bend the tang back up into its protruded position ready for reassembly. Repeat this for the remaining two connectors.



Undo the 3 small self-tappers holding the motor housing in place - two under the main mirror housing and one in the hinge area.



Undo the large nut holding the mirror hinge together (22mm AF). I found that a pipe wrench worked better here than a spanner.



The cable loom can now be carefully withdrawn and pulled out of the hinge spigot.

**Re-assembling the mirror**





Reassembly is a straight reversal of the above, except for the mirror itself. First engage the spring wires before pressing the mirror back onto its motor.

I found that some moistened washing up liquid on the engaging surfaces helped. Also, make sure the wire itself is free to move so that it can 'expand' to clip over the motor housing grooves. It takes quite a bit of juggling and force to clip the mirror back into place, and sometimes it feels it is clipped home when it is, however, not fully engaged.

Note on the photos that I made a mistake in the assembly sequence concerning the small triangular rubber pad, which can normally stay on the cable loom during the entire operation. Due to this error, I had to remove it from the loom for reassembly.

When screwing the nuts back onto the studs, be careful not to cross-thread them. Despite all caution, I managed to do this on two out of six! The stud thread is not very precise and accepts the nut at an incorrect angle.

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*(with acknowledgement to the different souls who have written up the mirror clip trick in the past)*