

Ferrari 208/308 Early Speedo Replacement Circuit Board Installation

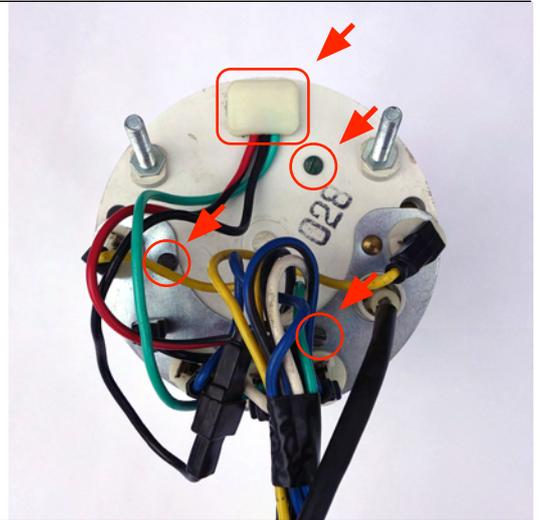
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This document describes replacing the internal circuit board of 208/308 type 1 Speedometers, as used in the the following Ferrari cars:

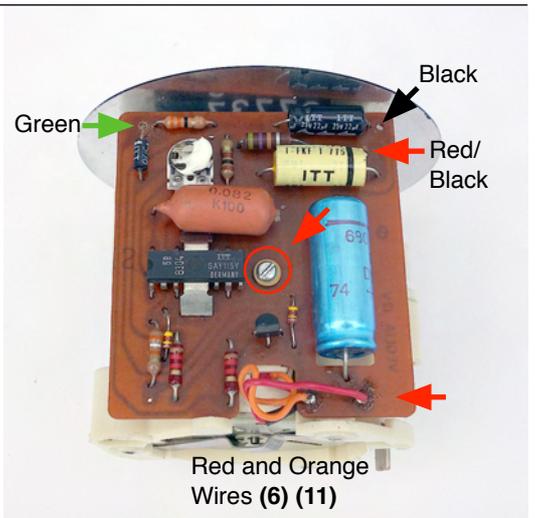
- 208/308 GT4 EU & US 74-80
- 208/308 GTB/GTS EU & US 76-80
- 308 GTSi/GTBi US 80-81
- 308 QV US 82

Circuit Board Installation

1. Remove Speedometer from dashboard
2. Gently remove the crimped Speedometers front chrome bezel by levering it off at the rear using a screwdriver with a bent and sharpened tip or similar tool. Remove the glass, glass holder and transparent plastic ring.
3. On the back of the Speedo, remove the three screws and the white plastic wire plug cover (picture)
4. Pull out the Speedo assembly from the front far enough to have access to the circuit board

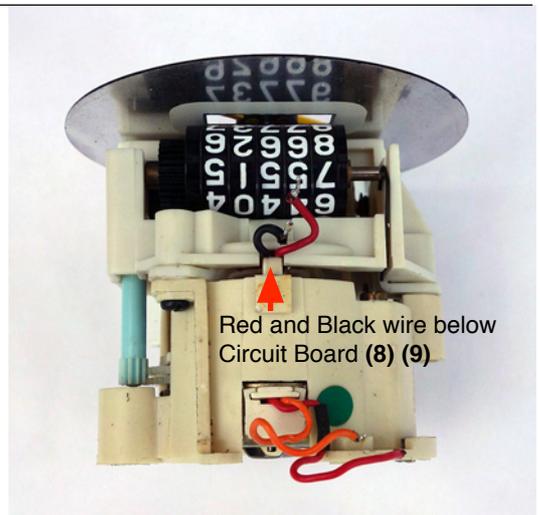


5. Desolder the three large wires (green, black, red/black)
6. Desolder the red and orange wire
7. Remove the screw (marked red) in the center of the circuit board



8. Gently lift the PCB board off the Speedo assembly and desolder the black and red wire below the board.

Remove old circuit board.



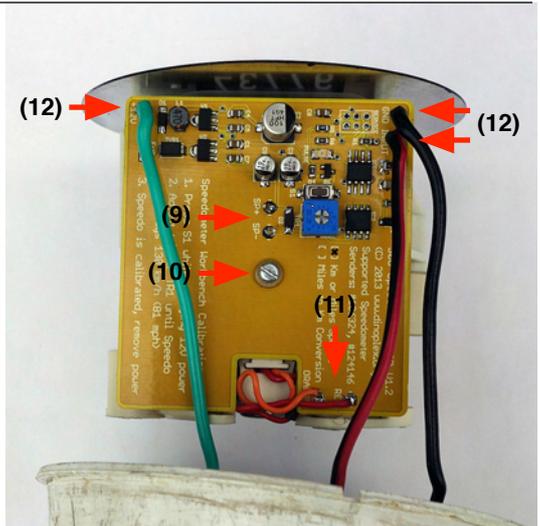
9. Solder the red and black wire to terminal SP+ (red) and SP- (black) from below of the new circuit board

10. Reinstall the screw in the center of the circuit board.

11. Solder the red and orange wires to terminal RED and ORANGE.

12. Solder the large green wire to terminal +12V, the large black wire to terminal GND and the large red/black wire to terminal INPUT.

The circuit board installation is now finished. Continue with the Speedo calibration in the next step.



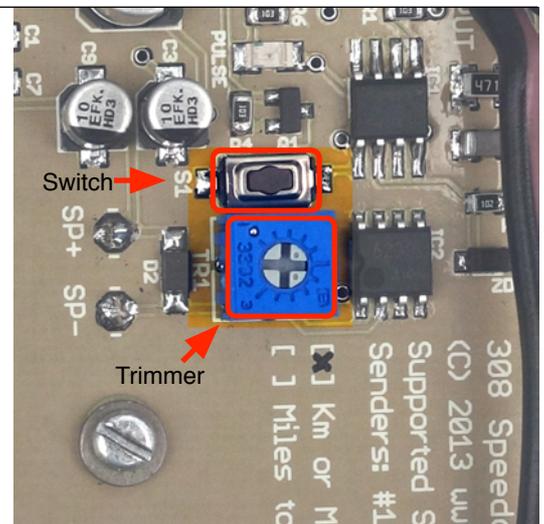
Speedo Calibration

1. Wire a +12V power source (car battery or power supply) to the green (+) and black (-) wire at the Speedo connector.

2. Press and hold switch SW1, then apply power. Release switch SW1. The Speedo needle should move slowly to the top position on the faceplate.

3. Slowly turn the trimmer TR1 screw until the Speedo needle aligns exactly with 81 mp/h (mp/h Speedo) or 130 km/h (km/h Speedo) on the faceplate.

The Speedo is now calibrated. Remove the power supply and reassemble the Speedo by applying steps 1-4 in reverse order.



(Optional) mp/h Speedo to km/h Speedo conversion

To convert an mp/h Speedo to a km/h Speedo you need a Speedo replacement board where the "Miles to Km Conversion" option box is ticked [X]. If you have ordered a "conversion" circuit board, you should already have received the correct circuit board type.

After step 4 in the Circuit Board Installation description above, remove the original mp/h faceplate and reinstall a km/h faceplate, then continue with all remaining steps.

The conversion circuit board will enable the ODO to correctly show the distance in kilometers instead of miles after the conversion.

Diagnose LED (Pulse)

A green LED on the circuit board marked "Pulse" blinks every time a sensor pulse comes in (it will also blink when doing a calibration). The LED can be used to diagnose if the gearbox sensor is functional. Note: the light output of the LED has been set to a very low value as to not mix with the Speedos backlight while driving at night.