

Apprentice job card example

Fred's Autos example

Customer name: Mr Stephens Date: 29/06/2017	Vehicle Make: Fiat Model: Punto Registration No: FD24FJW	Instructions to technician: Engine management light on dashboard illuminated, hard to start when cold.
--	--	---

Technician's report on work carried out:

I put down a floor mat and fitted a seat cover on the car before starting work on it.

On bringing the car in to the workshop, I confirmed the engine management light was illuminated on the dashboard, the vehicle was warm so had no problem starting.

I looked on Autodata where the 16 pin diagnostic plug was located; I then connected up the fault code reader, and checked for fault codes, it came up with the code P0118 open circuit coolant sensor. I recorded the code, and then tried to erase it but it was permanent, so the fault was present on the car.

I lifted the bonnet, and checked the sensor, for any breaks and loose connections; they all seemed to be okay. I checked on the live data on the code reader, for the sensor the reading was 110°C, which was incorrect because I used a Non-Contact Infrared Thermometer Digital Temperature Gun to confirm engine temperature.

My initial diagnosis was a faulty coolant sensor, to confirm my diagnosis I used a multimeter set to (Ohms) resistance, I calibrated the meter by touching together the positive and negative probes.

I used Autodata to find the location of the sensor which was in the engine block, by the water pump housing. I removed the connector and put the probes on the sensor terminals. The meter displayed an open circuit and this confirmed my diagnosis.

I contacted the Fiat dealership, they had one in stock then I contacted the customer with a price for carrying out the work.

To change the sensor, I gently removed the coolant pressure cap to release any pressure in the system with a tray under the sensor to catch any coolant. I removed the sensor using a spanner, checked it was correct and refitted the replacement. The multiplug connector was refitted.

I then topped up the coolant with the correct amount of fresh coolant. The engine was run until warm and the cooling fan started. The coolant level was rechecked and the code reader was then connected and the fault code removed. The engine management light went out and it did not come back on. I checked live data and the sensor was reading 77°C which was correct.

I cleaned up around the car and work area, disposed of the waste coolant correctly and passed the car on to my supervisor to road test. They confirmed the fault was rectified.

Additional work required:

No additional work required

Technician's name: An apprentice

Technician's signature: *An apprentice*

Date: 29/08/2018