

# VLT® AutomationDrive runs an Opel in Sarajevo

**Rudolf Bosnjak, Sarajevo, exchanged the engine in his Opel with a 3 phase AC motor with a torque of 49 Nm at zero speed - controlled by a VLT® AutomationDrive .**

The motor converts the energy stored in batteries in the back of the car via the frequency converter into mechanical rotation at different speed.s

The electric motor provides quick acceleration and while braking, the motor acts like a generator (regenerative braking) and recharges the batteries.

The power from the motor is transferred via a flywheel adapter to the gear box .

The VLT® AutomationDrive provides perfect speed control and optimum use of electric energy from the batteries.

On the Local Control Panel - remotely mounted in front of the steering wheel display information like RPM, HP, AC voltage, and kW.

The drive also maintains an electronic log of the vehicle performance, enables service personnel to run diagnostic checks on the car and to give service information on the car.

**Accelerator and potentiometer**

The accelerator is connected to a slide potentiometer that forms the input to the drive that determines the power provided to the AC motor.

**Batteries**

The energy comes from 47 12 V standard car lead acid batteries, providing a total of 564 Volts in serial connection.

“I have used old batteries which I had to test to find which ones were good for my first road test drive. I used a battery tester that indicates battery voltage, starting capability and charge.”

“I thank those of you who helped a lot by giving me the Danfoss VLT® AutomationDrive frequency converter for testing”.



*Spomenko Hulak, Danfoss, Zagreb, Hrvatska, provided the VLT® AutomationDrive for the electrocally driven Opel in Sarajevo*