

# How car manufacturers cheat at tests

Vehicle certification requires new car models to go for a 20-minute simulated drive on a "rolling road" while hooked up to test equipment. The car's computer optimises the engine to run cleanest during the test

## Electronic Control Module

ECM monitors and regulates air-fuel mixture, engine temperature, ignition and exhaust gas temperature.

***This controls emissions and fuel economy***

## Operating modes

ECM has **On Road** mode for normal driving and **Dyno** – test mode. ***ECM is calibrated by manufacturer for best results during test mode***

Screen displays drive cycle to be followed

Data acquisition cabinet

Speed-matched fan to simulate vehicle cooling

Dyno driver accelerates and brakes to match drive cycle

Chassis dynamometer

18cm

Flow meter measures fuel economy

Tailpipe emission measuring equipment

Rear wheels are locked

## Dynamometer test procedure

Vehicle placed on dynamometer with only its driving wheels rolling. ECM switches to Dyno mode, otherwise test procedure could be interpreted as dangerous driving situation