

HACK

### The Toyota Prius

A look under the hood and inside the battery of the world's best-selling gas-electric hybrid car  
By Daniel Turner



A)

#### The gas engine

Power:

Volume:

Number of cylinders:

#### The electric motor

Power:

Average gas consumption:

Acceleration:

What is used in town? And on the highway?

What can be surprising when you drive the Prius on a highway?

B)

Type of transmission: CVT (What does it stand for?)

Type of gear system in the CVT:

2 advantages of this gear system:

C)

Type of screen:

Information shown on screen:

What did the "CalCars" hackers want to do when they transformed a Prius?

What is specific about the Priuses in Europe?

D)

Compare the aerodynamics of a Prius with that of an average SUV:

Give 2 examples of details that improve the Prius' aerodynamics:

E)

Type of battery used:

What are the 2 types of dangers associated with this battery?

What protections have been found against these dangers?

Duration of guarantee:

Price of new battery:

F)

Specific role of the brakes on a Prius:

G)

Difference between the Prius and other vehicles in terms of emissions?

What is new about the engine coolant? Why is it beneficial in terms of gas emissions?