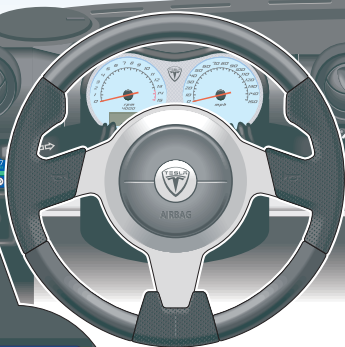


# Tesla sparks new breed of electric cars

An electric car – capable of a Ferrari-like zero to 60mph in four seconds – is set to change the face of motoring. Built by Lotus in Great Britain, the California-designed *Tesla Roadster* utilises lithium-ion batteries to give a range of 250 miles on a single charge and a top speed of over 130mph



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## 4 Power Electronics

**Module:** Translates driver's commands to motor. PEM data shown on display

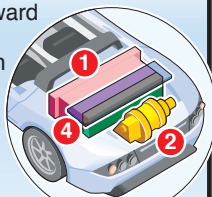
**5 Recharging:** Car connects to 240-volt circuit and charges batteries from dead in 3.5 hours

**Two-seat Roadster will sell for around \$90,000 from next spring**

**1 Battery pack:** Lithium-ion cells deliver four times power of other batteries. Same cells that run laptop computer they will last well over 100,000 miles

**2 Motor:** Delivers peak power from low rpm to beyond 13,000 rpm with 85-95% efficiency

**3 Transmission:** Two forward gears – no clutch required



Heated Seats

Wheelbase: 2,352mm