

## Electric car does 0 to 100kph in 2.8 seconds

21st July, 2015



[teslamotors.com/models/design](http://teslamotors.com/models/design)

A new, upgraded version of an electric car from Tesla Motors is capable of going from 0 to 100kph in just 2.8 seconds. The original 691

horsepower Tesla Model S P85D was already incredibly fast. It even had a function called Insane Mode, which meant the car could get from 0-100kph in 3.2 seconds. The upgrade is called Ludicrous Mode and will take the horsepower up to 762, thus providing the extra power to get to 100kph in less than three seconds. This is close to the acceleration of a Porsche 911 Turbo S supercar. That kind of horsepower means the car can accelerate at a force of 1.1G. This means the acceleration will make the driver feel that he or she is going faster than the speed of falling out of an airplane.

Tesla CEO Elon Musk explained that the new improvement in acceleration came from research into an advanced battery. Engineers were working on a new power train for its cars. A power train is the system that delivers the power from the engine to the wheels. The engineers managed to increase the battery power by ten per cent, resulting in the extra acceleration. Tesla said: "Unlike a gasoline internal combustion engine with hundreds of moving parts, Tesla electric motors have only one moving piece: the rotor. As a result, Model S acceleration is instantaneous, silent and smooth." The Tesla S P85D car is priced at \$87,500 as a basic model; the "ludicrous" upgrade will be an extra \$13,000.

Sources: *TechTimes / Mashable.com / Tesla Motors.com*

## Writing

Electric cars don't help the environment because they need electricity. Discuss.

## Chat

Talk about these words from the article.

*upgraded / capable / original / horsepower / function / insane / accelerate / driver / improvement / advanced / battery / power / gasoline / instantaneous / ludicrous*

## True / False

- The Tesla car is a brand new prototype of an electric car. T / F
- The latest upgrade to the Tesla is called "Insane Mode". T / F
- The acceleration of the Tesla is almost that of a Porsche 911 supercar. T / F
- The Tesla's acceleration is faster than that of falling from an airplane. T / F
- The increased speed is as a result of research into a new battery. T / F
- A power train delivers power from the wheels to the engine. T / F
- A gasoline internal combustion engine has hundreds of moving parts. T / F
- The car with the upgrade costs less than \$100,000. T / F

## Synonym Match

- |                  |                    |
|------------------|--------------------|
| 1. upgraded      | a. additional      |
| 2. incredibly    | b. supplying       |
| 3. providing     | c. immediate       |
| 4. extra         | d. amazingly       |
| 5. feel          | e. because of this |
| 6. improvement   | f. ridiculous      |
| 7. resulting in  | g. improved        |
| 8. as a result   | h. leading to      |
| 9. instantaneous | i. advance         |
| 10. ludicrous    | j. sense           |

## Discussion – Student A

- What did you think about what you read?
- How much would you like a Tesla Model S P85D?
- What are the benefits of electric cars?
- What are the downsides to electric cars?
- What do you think of the names 'Insane' and 'Ludicrous' mode?
- Do cars need to accelerate so fast?
- Why are people into fast cars?
- Will there ever be too fast for a car?

# BreakingNewsEnglish - The Mini Lesson

## Phrase Match

1. A new, upgraded version
  2. incredibly
  3. providing the extra power to
  4. the car can accelerate
  5. faster than the speed of
  6. the new improvement in
  7. research into an advanced
  8. delivers the power from the engine
  9. a gasoline internal
  10. acceleration is instantaneous,
- a. get to 100kph
  - b. to the wheels
  - c. falling out of an airplane
  - d. combustion engine
  - e. fast
  - f. battery
  - g. acceleration
  - h. of an electric car
  - i. silent and smooth
  - j. at a force of 1.1G

## Discussion – Student B

- a) What is your favourite car, and why?
- b) What will cars of the future be like?
- c) Would you prefer a Tesla Model S P85D or a Porsche 911 Turbo S?
- d) Are electric cars or conventional cars best?
- e) What do you know about the name Tesla?
- f) Is the Tesla Model S P85D good value for money?
- g) How will electric cars affect traffic accidents and road safety?
- h) What questions would you like to ask Tesla CEO Elon Musk?

## Spelling

1. A new, upgraded nirsvoe of an electric car
2. lpabeac of going from 0 to 100kph
3. eibydnlric fast
4. take the whropreoes up to 762
5. the rlnetaceiaoc of a Porsche 911
6. a ofrce of 1.1G
7. the new vetrimnpmoe
8. reseingne were working on a new power train
9. increase the yaebtrt power
10. a gasoline internal itmobounds engine
11. sintatunansoe, silent and smooth
12. the lcusiurd upgrade

### Answers – Synonym Match

1. g	2. d	3. b	4. a	5. j
6. i	7. h	8. e	9. c	10. f

## Role Play

### Role A – Speed

You think speed is the most important thing for a car to have. Tell the others three reasons why. Tell them why their things aren't so necessary. Also, tell the others which is the least important of these (and why): fuel efficiency, airbags or space.

### Role B – Fuel efficiency

You think fuel efficiency is the most important thing for a car to have. Tell the others three reasons why. Tell them why their things aren't so necessary. Also, tell the others which is the least important of these (and why): speed, airbags or space.

### Role C – Airbags

You think airbags are the most important things for a car to have. Tell the others three reasons why. Tell them why their things aren't so necessary. Also, tell the others which is the least important of these (and why): fuel efficiency, speed or space.

### Role D – Space

You think space is the most important thing for a car to have. Tell the others three reasons why. Tell them why their things aren't so necessary. Also, tell the others which is the least important of these (and why): fuel efficiency, airbags or speed.

## Speaking – My car

Rank these with your partner. Put the most important things your car must have at the top. Change partners often and share your rankings.

- speed
- fuel efficiency
- central locking
- space
- airbags
- GPS navigation
- sports wheels
- bluetooth connectivity

### Answers – True False

a	F	b	F	c	T	d	T	e	T	f	F	g	T	h	F
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Answers to Phrase Match and Spelling are in the text.