
From: Transport and Resources Committee
Subject: FW: PIN to Drive etc to reduce risk of car theft (and subsequent dangerous or criminal use of the vehicle)
Attachments: mobile app re Valet Mode and Speed Limit Mode notes.jpg; PIN to Drive.jpg

From: Vicki Laraine Batty [REDACTED]
Sent: Wednesday, 3 March 2021 5:23 PM
To: Kurwongbah Electorate Office <kurwongbah@parliament.qld.gov.au>
Subject: PIN to Drive etc to reduce risk of car theft (and subsequent dangerous or criminal use of the vehicle)

Dear Shane and team

At last night's meeting the topic of remote controls that could be used to "limit" what a car thief can do after they break into a vehicle or gain entry to a vehicle with a stolen key or fob etc.

Below are excerpts from the owners' manual for my car (which has a Telstra SIM card in it in an inaccessible spot).

Attached is photo of need to enter PIN to Drive that is required to turn the car on and take it out of Park and put it into gear.

Attached is screenshot of the mobile app that I can use to put the car into Speed Limit Mode or into Valet Mode

PIN to Drive

To increase security, you can prevent Model S from being driven until a 4-digit PIN (Personal Identification Number) is entered. To enable this setting, touch Controls > Safety & Security > PIN to Drive and follow the on-screen prompts to create a driving PIN.

NOTE: When enabled, in addition to entering the 4-digit driving PIN to drive, you must also use it to enter Valet mode for the first time and create the 4-digit valet PIN that you can use to enter and exit Valet mode.

When in Valet mode, Model S can be driven without the need for the valet to enter a driving PIN. In addition, the PIN to Drive setting is disabled whenever Valet mode is active. If you forget your driving PIN, or to disable PIN to Drive, return to this setting, touch the link to enter your Tesla login credentials, then follow the on-screen prompts.

NOTE: In the unlikely event that your touchscreen is unresponsive, you may be unable to enter the PIN. In this case, first try to restart the touchscreen (see Restarting the Touchscreen on page 44). If the touchscreen is still unresponsive, you can still bypass PIN to Drive by turning on Keyless Driving in the Tesla mobile app.

PIN to Drive is a good feature. After the car is unlocked (by key, fob, proximity card, etc) the car remains immobilised until the digit is entered. On Teslas the four digit PIN is entered via a touchscreen (which varies the position of the PIN pad each time so 'analysis of fingerprints on the screen' is useless), but any car could use a physical keypad connected to an immobiliser system.

Note that PIN to Drive is not reliant on the car having SIM card in the car, nor is it reliant on the car being in an area which has good mobile data signal coverage at the time.

Preventing a thief from being able to drive off in the vehicle is better than taking action after they have driven off in the vehicle.

Speed Limit Mode

Speed Limit Mode allows you to [limit the acceleration and maximum speed](#) – between 80 and 145 km/h – of your Model S. This feature is protected by a 4-digit PIN that you create when enabling it for the first time, and which must be entered whenever you want to disable and enable it.

If your Model S comes within approximately 5 km/h of the selected maximum speed, a chime sounds and text appears on the instrument panel above the driving speed. [Additionally, your mobile app sends you a notification.](#)

To enable Speed Limit Mode:

1. Ensure the vehicle is in Park.

2. Touch Controls > Safety & Security > Speed Limit Mode on the touchscreen or CONTROLS in your mobile app.

3. Select the maximum driving speed that you would like to limit the vehicle to.

4. Drag the slider to the ON position.

5. Enter the 4-digit PIN that you want to use to disable and enable Speed Limit Mode.

NOTE: If you forget the PIN, you can disable Speed Limit Mode by entering the login credentials for your Tesla Account.

NOTE: When Speed Limit Mode is enabled, the acceleration setting (Controls > Driving > Acceleration) is automatically set to Chill (see Acceleration Modes on page 67).

WARNING: Driving downhill can increase driving speed, causing the vehicle to exceed your chosen maximum speed.

WARNING: Speed Limit Mode is not a replacement for good judgment, driver training, and the need to closely monitor roadway speed limits and driving conditions. Accidents can occur at any speed.

Valet Mode

When Model S is in Valet mode, the following restrictions apply:

- Speed is limited to 113 km/h.
- Maximum acceleration and power are limited.
- Front trunk and glovebox are locked.
- Home and Work locations are not available in the navigation system.
- Voice commands are disabled.
- Autopilot convenience features are disabled.
- Most status bar functions are disabled.
- The Mobile Access setting is disabled.
- HomeLink (if applicable in your market region) is not accessible.
- Driver Profiles are not accessible.
- Wi-Fi and Bluetooth are disabled. When Model S is in Valet mode, you cannot pair new Bluetooth devices or view or delete existing paired devices.

NOTE: If a Bluetooth paired device or a known Wi-Fi network is within operating range (approximately 9 meters) of Model S in Valet mode, Model S will connect to it.

Starting Valet Mode With Model S in Park, touch the driver profile icon on the top of the touchscreen, then touch Valet Mode.

=> The first time you enter Valet mode, you will be prompted to create a 4-digit PIN that you will use to cancel Valet mode. When Valet mode is active, the instrument panel displays the word Valet above the driving speed and the Valet mode driver profile displays on the touchscreen.

=> **You can also use the mobile app to start and cancel Valet mode (provided Model S is in Park).** When using the mobile app, you do not need to enter a PIN because you are already required to log into the app using your Tesla Account credentials.

So you can see that while the above two restrictive modes can be turned on remotely, both modes need the car to be stopped at the time. If the thief stopped in traffic, at traffic lights, at a stop sign or for any other reason then someone following the car's progress (using the mobile app) could then turn one of these modes on. If they didn't stop at all then all the mobile app does is let you follow the car's location (and speed).

Obviously the "car has to be stationary" aspect is because of safety – which Shane alluded to last night (don't want to suddenly turn car off in the middle of traffic or on the highway etc).

Something else that could make the roads safer would be to capitalise on the fact that drivers' licences have a smart chip in them these days. Have a slot in the car that the driver's licence has to be inserted into before the car will start. If there is a currently a way

for a suspended driver to still have possession of licence car with chip during their suspension period, this would be a weakness of such a system. But overseas visitors renting cars in Australia would not be a problem as there could be a smart chip card that is part of the car rental/hire package.



Lock or Unlock all doors

Valet Mode”
* limit the acceleration
* limit the power
* maximum speed is limited to 113 km/h
* mobile access is disabled
* personal things are disabled, Home & Work locations, driver profiles, garage door opener, WiFi communication, Bluetooth communication, Voice commands, etc

Speed Limit Mode:
* limit the acceleration
* limit maximum speed (between 80 and 145 km/h)

Easy Entry

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Enter PIN to Drive

Enter 4-Digit PIN ←

1	2	3
4	5	6
7	8	9
	0	

ALLOW

Forgot PIN? Start the vehicle with the Mobile App,
or [Enter your Tesla credentials](#)