TESLA 1614280 Security Controller Instructions

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Contents

Vehicle opening and closing

Three Types of Keys

- **Authenticated phone -** You can set up your personal smartphone to communicate with your vehicle using Bluetooth. Supports automatic locking and unlocking as well as several other functions using the Tesla mobile app. An authenticated phone is the preferred key because you never need to remove it from your pocket or purse.
- **Key card -** Tesla provides a key card that communicates with your vehicle using short range radio-frequency identification (RFID) signals. The key card is used to “authenticate” your phone to work with your vehicle and to add or remove other key cards, phones, or key fobs. In situations where your authenticated phone has a dead battery, or is lost or stolen, use your key card to unlock, drive, and lock your vehicle
- **Key fob -** An accessory sold separately, similar to a traditional key fob, that allows you to press buttons to open the front and rear trunks, and unlock, lock, and drive your vehicle. Your vehicle also have UWB function for passive entry function. The door handle will present when you approaching your vehicle while you carrying your keyfob.

  Your vehicle supports a total of 19 keys, which can include authenticated phones, key cards, and up to four key fobs.

  Caution: Remember to bring a key with you when you drive. Although you can drive your vehicle away from its key, you will be unable to power it back on after it powers off.

Authenticated Phone

Using your phone is the most convenient way to access your vehicle. As you approach, your phone’s Bluetooth signal is detected and doors unlock when you press a door handle. Likewise, when you exit and walk away with the phone, doors automatically lock Before you can use a phone to access your vehicle, follow these steps to authenticate it:

1. Download the Tesla mobile app to your phone.
2. Log into the Tesla mobile app using your Tesla Account user name and password. Note: You must remain logged in to your Tesla Account to use your phone to access your vehicle.
3. Ensure that your phone's Bluetooth setting is turned on. Note: Your vehicle communicates with your phone using Bluetooth. To authenticate your phone or use it as a key, the phone must be powered on and Bluetooth must be enabled. Keep in mind that your phone must have enough battery power to run Bluetooth and that many phones disable Bluetooth when the battery is low.
4. Ensure that Allow Mobile Access (Controls > Safety & Security > Allow Mobile Access) is enabled.
5. In the Tesla mobile app, touch PHONE KEY then touch START to search for your vehicle. When your vehicle is detected, the mobile app asks you to tap your key card.
6. Tap the key card against the your vehicle card reader on the door pillar or center console. When your vehicle detects your key card, the mobile app confirms that your phone has been successfully authenticated. Touch DONE. If the key card is not successfully scanned within approximately 30 seconds, the mobile app displays an error message. Touch PHONE KEY on the app again to retry. To view a list of keys that can currently access your vehicle, or to remove a phone, touch Controls > Locks. Note: Authenticating your phone allows you to use it as a key to access your vehicle. To use the phone hands-free, access your phone's contacts, play media from it, etc., you must also pair and connect to it using the Bluetooth settings. Note: Your vehicle can connect to three phones simultaneously. Therefore, if more than one phone is detected and you want to use, or authenticate, a different phone, move the other connected phone(s) out of range or turn off its Bluetooth setting. Note: Unlike the mobile app, once a phone has been authenticated, it no longer requires an internet connection to communicate with your vehicle. Authenticated phones communicate with your vehicle using Bluetooth.

Note: Although Bluetooth typically communicates over distances of up to approximately 9 meters, performance can vary based on the phone you are using, environmental interference, etc. Note: If multiple vehicles are linked to the Tesla Account, you must switch the mobile app to the vehicle that you want to access before you can use the phone as a key.

Key fob

If you have purchased the key fob accessory (available for purchase from Tesla stores or online at www.tesla.com/shop), you can quickly familiarize yourself with this key by thinking of it as a miniature version of your vehicle, with the Tesla badge representing the front. The key has three buttons that feel like softer areas on the surface.

1. Front trunk – Double-click to open the front trunk.
2. Lock/Unlock All – Single-click to lock doors and trunks (all doors and trunks must be closed). Double-click to unlock doors and trunks.
3. Trunk – Double-click to open the rear trunk. Hold down for one to two seconds to open the charge port door. Once inside, power up your vehicle by pressing the brake pedal within two minutes of pressing the unlock button on the key fob (see Starting and Powering Off on page 46). If you wait longer than two minutes, you must press the unlock button again, or place the key fob near the card reader located behind the cup holders on the center console. When your key fob is detected, the two minute authentication period restarts. When approaching or leaving your vehicle carrying the key fob, you do not need to point the key fob at your vehicle as you press a button, but you must be within operating range. Radio equipment on a similar frequency can affect the key. If this happens, move the key at least 30 cm away from other electronic devices (phone, laptop, etc). If

the key fob does not work (for example, its battery is dead), you can touch it's flat side against the card reader on the driver's side door pillar (like the key card). Instructions for changing the battery are provided below. Note: Walk-Away Door Lock operates only when using an authenticated phone. When you walk away from your vehicle carrying your key fob, your vehicle does not automatically unlock/lock, even if this feature is turned on (see Walk-Away Door Lock on page 13).

Note: You can use the same key fob with multiple vehicles provided you authenticate it (see Managing Keys on page 10). However, key fob works with only one vehicle at a time. Therefore, to use a key fob for a different vehicle, touch its flat side against the card reader on the driver's side door pillar. Note: A vehicle supports up to four different key fobs. Caution: Protect the key from impact, high temperatures, and damage from liquids. Avoid contact with solvents, waxes and abrasive cleaners. Replacing the Key Fob Battery Under normal use, the key fob battery lasts for approximately five years. When the battery is low, a message displays on the touchscreen. To replace the key fob battery:

1. With the key fob placed button side down on a soft surface, release the bottom cover.
2. Remove the battery by lifting it away from the retaining clips.
3. While avoiding touching the battery's flat surfaces, insert the new battery (type CR2032) with the `+' side facing up. Note: CR2032 batteries can be purchased through online retailers, local supermarkets, and drug stores.
4. Holding the bottom cover at an angle, align the tabs on the cover with the corresponding slots on the key fob, then press the cover firmly onto the key fob until it snaps into place.

ALL REGIONS – FCC and IC Certification

Component	Manufacturer	Model	OperatingFrequency(MHz)	FCC ID	IC ID
B Pillar Endpoint	Tesla	1614291	13.56 2400-2483.5 6500-8000	2AEIM-1614291	20098-1614291
Security Controller	Tesla	1614280	2400-2483.5	2AEIM-1614280	20098-1614280
Fascia Endpoint	Tesla	1613851	2400-2483.5 6500-8000	2AEIM-1613851	20098-1613851
Key fob	Tesla	1614283	2400-2483.5 6500-8000	2AEIM-1614283	20098-1614283
TPMS	Tesla	1472547	2400-2483.5	2AEIM-1472547	20098-1472547
Radar					
Homelink					
CarPC	Tesla				
Wireless Charger	Tesla	WC4	127.72KHz 13.56 2400-2483.5	2AEIM-WC4	20098-WC4

The devices listed above comply with Part 15 of the FCC rules and Industry Canada's license-exempt RSS Standard(s) and EU Directive 2014/53/EU.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference; and
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by Tesla could void your authority to operate the equipment.

ALL REGIONS - Radio Frequency Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, try to correct the interference by one or more of the following measures:

- Reorient or relocate the receivingantenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician to help.

The user's manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

NORTH AMERICA ONLY – Canada

CAN ICES-3 (B)/NMB-3(B)
Radiation Exposure Statement:
The product complies with RF exposure IC for wireless power transfer of low power consumers. The RF exposure limit set for an uncontrolled environment is safe for intended operation as described in this manual. Additional RF exposure compliance has been demonstrated to 20cm and over separation from the user's body or putting the device at lower power output if such a function is available.

⚠ **CAUTION:** This equipment and its antennas must not be co-located or operated with another antenna or transmitter.

ALL REGIONS - RF Modules

The devices described below have been evaluated against the essential requirements of the 2014/53/EU and 2011/65/EU Directive.

Description	Frequency Band	Power Level	Antenna Location

Security Controller	2.4 GHz	3mW output	PCB Antenna, in center console
Security Controller	11.56 MHz	n/a(magneticfield)	PCB Antenna, in center console
Rear Fascia Endpoint	2.4 GHz	3mW output	PCB Antenna, behind rear fascia
Pillar Endpoint	2.4 GHz	3mW output	PCBAntenna,behindtheB-pillarglass
Pillar Endpoint	13.56 MHz	n/a(magneticfield)	PCBAntenna,behindtheB-pillarglass
TPMS Sensor	2042-2480 MHz	2.5 mW	Each wheel
FM	76-108 MHz	n/a (receive only)	Rear Window
DAB	174-241 MHz	n/a (receive only)	Rear Window
Homelink	433.9 MHz	10 mW	Above front bumper beam
Bluetooth	2402-2480 MHz	2.5 mW max.	B-header Left hand side
GSM 900		2 W	
	885-915 930-960 MHz		Transmit and receive - B-header Righ t hand side, also used for eCall
GSM 1800	1710-1785	1 W	Receive - B-header Left hand side
	1805-1880 MHz		B-header (MIMO)
WCDMA (Band 8)	909-915	250 mW	Wireless Connectivity
	954-960 MHz		

WCDMA (Band 1/3)		250 mW	
	1920-1980		
	2110-2170 MHz		
LTE (band 7/8)		200 mW	
	2500-2570, 909-915 MHz		
	2620-2690,954-960MHz		
LTE (band 20/28)		200 mW	
	832-862,703-748 MHz		
	791-821, 758-803 MHz		
LTE (band 1/3)		200 mW	
	1940-1965, 1735-1765 MHz		
	2130-2155, 1830-1860 MHz		
Wi-Fi	2400-2483.5 MHz 5470-5725 MHz, 5725-5850 MHz	100 mW	B-header Left hand side B- header Right hand side, Wireless Connectivity
GNSS	1563-1587 MHz, 1593-1610 MHz	n/a (receive only)	Between windshield and rear view mirror
Charge port antenna	RKE 433.9 MHz	n/a (receive only)	Charge port

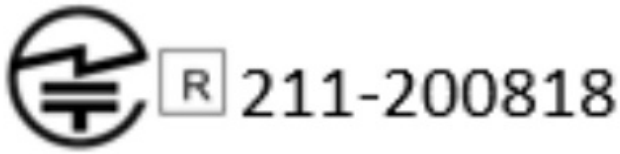
MEXICO ONLY - Mexico

IFT-008-SCFI-2015 / NOM-208-SCFI-2016

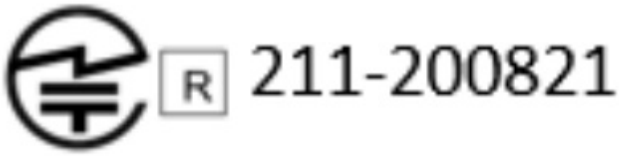
JAPAN ONLY - Japan

The operating range for all equipment listed above (including 1614291, 1614283, 1613851 and 1614280) are -40°C to 85°C.

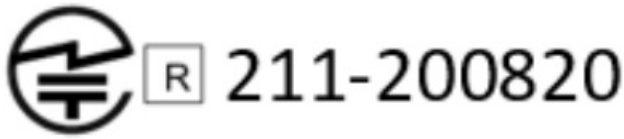
Key fob:



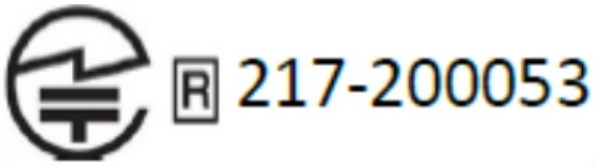
Security Controller:



Fascia Endpoint:

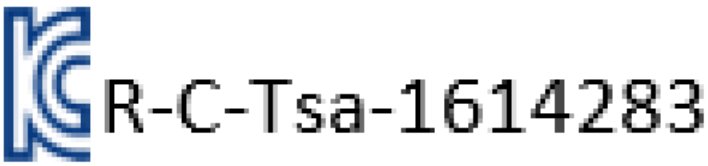


TPMS:

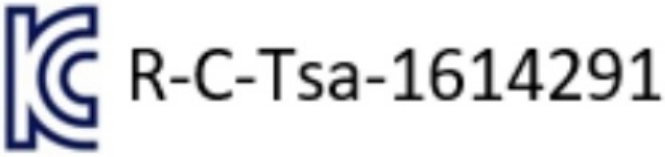


KOREA ONLY – Korea

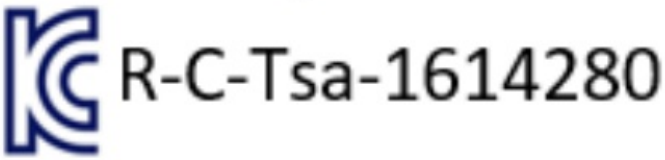
Key fob:



B Pillar Endpoint:



Seurity Controller:



Fascia Endpoint:

R-C-Tsa-1613851

Singapore ONLY – Singapore

Complies with IMDA Standards DB107406

Note: The IMDA label size need to be 17mm by 9mm

Vehicle Interior Air Quality

The Ministry of Land, Infrastructure, and Transport (MOLIT) ensures that new vehicles conform to recommended Vehicle Interior Air Quality (VIAQ) standards. Tesla performs tests on the interior air quality of your Your vehicle to ensure that the quality conforms to VIAQ standards.
When you purchase your new Your vehicle, Tesla recommends that you ventilate the cabin before you drive. For details on ventilating the cabin, refer to the Owner's Manual.

CHINA ONLY - China

CMIIT IDs:
HomeLink: 2016DJ6564
Key Fob: XXXXXXXXXX

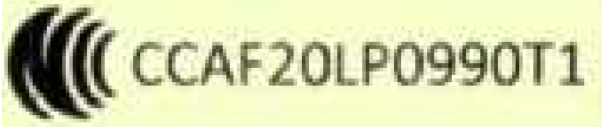
UAE ONLY - UAE

Key Fob:
TRA REGISTERER No: ERXXXXXXXX
DEALER No: ER62616/18

TAIWAN ONLY - Device Approval - Taiwan

Key Fob:

TPMS:



ALL REGIONS EXCEPT NORTH AMERICA AN CHINA - EU

The devices described previously have been evaluated against the essential requirements of the 2014/53/EU and 2011/65/EU Directive.

Documents / Resources

	TESLA 1614280 Security Controller [pdf] Instructions 1614280, 2AEIM-1614280, 2AEIM1614280, 1614280 Security Controller, 1614280, Security Controller