Installation guide of **Pandora** security-service and remote start system for **Toyota Yaris Hybrid IV 2020 - ...** 

### Push-to-Start button

Hybrid transmission

Model code: 2149





WARNING! This installation manual has the status of recommendation. This system MUST BE installed by a certified technician.

#### Connect the wires only when the base unit is disconnected.

It's prohibited to place the wires near sharp elements and moving parts of a car. Wiring through the holes should be passed using special rubber bushings.

The car's electrical scheme and wire colors may differs from the information shown in this guide, so suggested connection points MUST BE checked before installation.

#### **Document structure:**

- Commands and statuses / components location
- <u>System settings</u>
- Wiring diagram
- Learning procedure

It's necessary to install special software before starting the installation of the security system to the car. Base unit settings can be configured by:

- 1. «Alarm Studio» program:
- Download the latest version of Alarm Studio: <u>https://pandorainfo.com/alarmstudio-firmware/(program</u> is archived, **ZIP** file is password protected);
- Unpack the archive > run the program > connect the base unit to PC;
- Switch the base unit to program mode by entering «service PIN-code» using Valet button (1-1-1-1 by default);
- Update the firmware of the base unit, then update Bluetooth firmware using «Pandora Specialist» app, choose the vehicle model and adjust the settings of security system in accordance with the <u>«System</u> <u>settings</u>» table.
- 2. Using «Pandora Specialist» application:
- Download the app from Play Market/App Store, create an account, log in;
- Connect the base unit to mobile device via **Bluetooth** or using **USB-OTG** cable, following the tips in the application;
- Update the firmware of the base unit and Bluetooth modem;
- Download the configuration for selected vehicle, if it available, from «Quick installation» section or change the settings of security system using «Advanced mounting» menu.



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#### COMMANDS AND STATUSES

Bus	Statuses											Commands																							
Model code <b>2149</b>	Driver door	Passenger door	Rear left door	Rear right door	Ноод	Trunk	Ignition	Brake pedal	Parking lights	Parking brake	Neutral status	Tachometer	Slave mode	Slave by trunk	Slave by OE remote start	OE alarm status	Vehicle speed	Fuel level 1	Engine temperature	Outside temperature	Interior temperature	Central lock status	Mileage	Valet button	Validator buttons	Central lock control	Windows closing at arming	Parking lights control 2	Arm OE alarm	Disarm OE alarm 3	Trunk release	Additional function via CAN	Pre-heater control	Blocking via CAN	Keyless entry blocking
CAN 1	•	•	•	•	-	•	•	•	•	•	•	•	•	•	-	-	-	L	-	-	-	-	-	-	-	•	•	н	-	-	-	-	-	-	•
Bus	RS features					Advanced parameters *					Advanced parameters for electric, hybrid and plug- in hybrid vehicles						* Security systems that support advanced parameters: - Smart Pro V3, Smart V3																		
	Algorithmic immobiliser bypass	Takeover 4	Remote start from car's key	ACC\Autolights OFF via CAN	Remote start via CAN	Distance to empty	Washer fluid level	Window glass position	Tires pressure (TPMS)	OBD II diagnostic trouble codes	Battery charger connector status	Fast charging	Slow charging	Remaining distance on HV battery	«Ready» status	Battery state of health (SOH)	Battery state of charge (SOC)	HV battery temperature	1 - 2 - 3 - the con to vel 4 - set	Fue Haz For fac tro char hicle Cho cting	l leve ard l the tory l, see nge t e sec pose js of	el is light vehi alan e «w the s urity «Sto the	disp s; cles m b iring setti / sys p er alar	equ y us dia ng « tem ngin m sy	ing a grar Secu usir e wh sten	liter ed w anal m» se urity ng de nen c n.	rs; og « ectic con eale disar	DE al Unic on. li h <b>troi</b> r (or rmin	larm ock» n thi wit s sim g» p	n. It's wire is ca: h me ilar) parar	; pos e of c se, it echa scar mete	sible centr 's ne nisn n too er in f	e to o ral lo ccess n ke i; the	disa ock sary y» o	rm f
CAN 1	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-																	
IMO/IMI	•																																		

#### COMPONENTS LOCATION



All connection points are located at Hybrid Vehicle ECU and BCM module, to the left of steering column (for LHD cars).

#### SECURITY SYSTEM SETTINGS

	Name	ltem	Setting	Note				
	Setting of the warning level of the shock sensor	1.1.1	30					
	Setting of the alarm level of the shock sensor	1.1.2	25	Test the sensitivity after				
z	Setting of the alarm level of the motion sensor	1.1.3	25	necessary				
MAI	Setting of the alarm level of the tilt sensor	1.1.4	25					
	Algorithm of processing data from accelerometer	1.1.12	Algorithm F					
	Radio tag RSSI level	1.8(9).5	120% (max)					
	Radio tag hysteresis	1.8(9).6	5%					
C START	Transmission type	2.1.2	Automatic					
ЛАТІ	Stop engine when disarming	2.1.14	Enable					
TON	Car with START/STOP button	2.2.1	Disable					
. AU	Enable bypass when engine is running	2.3.1	Enable					
=	Keyless bypass option	2.3.3	Toyota imo_imi v3					
OUTPUTS	Inputs settings	3.1	Assign the inputs according to the wiring diagram. All other inputs should be DISABLED.					
III. NPUTS / (	Outputs settings	3.2	Assign the outputs according to wiring diagram and selected channels. All other outputs should be DISABLED.					
	Valet button	5.2.9	Disable					
	Central lock control	5.3.1	Enable					
z	Turn lights control	5.3.3	Enable					
CA.	Control over vehicle security system	5.3.5	Disable					
>	Slave mode when arming factory alarm	5.4.1	Enable					
	Slave mode when disarming factory alarm	5.4.2	Enable					
	Slave mode when the trunk is opening	5.4.3	Enable					
VII. GPS	GPS anchor	7.1.3	Disable					

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### **B** Pandora

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\*All described steps can be perfomed manually or in automated mode using «Pandora Specialist» application