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INSTALL GUIDE

2018 TOYOTA TUNDRA STD KEY AUTOMATIC

DOCUMENT NUMBER

A87C853

REVISION DATE

20240213 222235

FIRMWARE

RSA-TL9

HARDWARE

CMHCXA0

ACCESSORIES

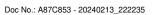
ATTENTION: TO COMPLETE THIS INSTALLATION SOME ACCESSORIES MAY BE REQUIRED. VISIT OUR WEBSITE TO SEE ALL THE REQUIRED ACCESSORIES FOR YOUR VEHICLE.

TERMS OF USE

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THE ART OF START™







REMOTE START	Supported				
Data Immobilizer Bypass (no key required)	✓				
Key Required for Immobilizer Bypass					
Takeover Available	✓				
No Takeover Available (shutdown on unlock or door open)					
3x Lock Start from 0EM Remotes	✓				
Data / MUX Parking Light Control - Constant	✓				
Data / MUX / Hazard Parking Light Control - Flashing					
Tach Monitoring	✓				
Hood Status	✓				
Brake Status	✓				
E-Brake Status	✓				
Glow Plug Status					
RAP Shutdown					

KEYLESS ENTRY	Supported		
OEM Remotes Functional during RS			
OEM RFID Entry Sensors Functional during RS			
Door Lock	✓		
Door Unlock	✓		
Driver Door Priority Unlock	✓		
Trunk/Hatch Release			
Power Liftgate			
Power Sliding Door (L)			
Power Sliding Door (R)			

SECURITY SYSTEM	Supported		
Arm 0EM Alarm	✓		
Disarm 0EM Alarm	✓		
Aftermarket Alarm Control from OEM Remotes	1		
Aftermarket Alarm Control from OEM RFID Entry Sensors			
Door Status	✓		
Trunk/Hatch Status			

COMFORT	Supported
Rear Defrost Activation	
Heated Mirror Activation	
Heated Seat Activation	
Cooled Seat Activation	
Heated Steering Wheel Activation	

CONNECTOR PINOUT

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MODULE CONNECTORS

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FIRST GENERATION HCx [HCX-192] 01 ORANGE - ACCESSORY (+)-02 RED - POWER (30A) M1 - 8 PIN BLACK -03 PURPLE - STARTER (+) 04 PINK/WHITE - PROG. RELAY #4 - IGNITION 2 (+) (DEFAULT) 05 PINK - IGNITION (+) 06 WHITE - PROG. RELAY #5 (10A) - PARKING LIGHTS (+) (DEFAULT) = AUTOMATIC 07 RED - POWER (30A) -**TRANSMISSION** 08 BLACK - GROUND -**CUT LOOP** M2 ■ 01 GREEN • BLACK DOT - LOCK (-) OUTPUT -02 BLUE • BLACK DOT - UNLOCK (-) OUTPUT -M2 - 12 PIN BLACK 03 RED/WHITE BLACK DOT - TRUNK RELEASE (-) OUTPUT M5 - 6 PIN BLUE 04 GREEN/WHITE•BLACK DOT - ARM (-) OUTPUT -05 GREEN/BLACK BLACK DOT - DISARM (-) OUTPUT -M3 - 10 PIN WHITE -06 BLUE/WHITE • BLACK DOT - GWR (-) OUTPUT M4 - 20 PIN BLACK TELEMATIC 1 - 4 PIN BLUE -08 WHITE/PURPLE • BLACK DOT - POC 1 - 2ND UNLOCK OTHER DOORS (-) OUTPUT 3 PIN BLACK - TEMP. SENSOR 09 PURPLE/BLACK BLACK DOT - POC 2 - RAP SHUTDOWN (-) OUTPUT -SMARTSTART - 4 PIN RED -10 WHITE/BLACK BLACK DOT - POC 3 - HORN (-) OUTPUT= PROGRAMMING BUTTON NC - 4 PIN RED _ 11 BROWN/BLACK BLACK DOT - POC 4 - STARTER KILL (-) OUTPUT 12 WHITE BLACK DOT - PARKING LIGHTS (-) OUTPUT = LED 2 (RS) LED 1 (BYPASS) M3 01 BROWN SILVER DOT - BRAKE (+) INPUT-02 BLACK/WHITE SILVER DOT - E-BRAKE (-) INPUT RF PORT/WEBLINK PORT - 4 PIN BLACK USB 03 PURPLE SILVER DOT - DOOR (+) INPUT 04 GREEN+SILVER DOT - DOOR (-) INPUT 05 PURPLE/WHITE SILVER DOT - TACH (-) INPUT = 06 WHITE/BLUE SILVER DOT - X-TRIGGER (-) INPUT: 07 GRAY SILVER DOT - HOOD (-) INPUT-08 BLUE • SILVER DOT - TRUNK (-) INPUT 09 GRAY/BLACK • SILVER DOT - GLOW PLUG (+) INPUT 10 EMPTY **SECOND GENERATION HCx [HCA-320]** M1 - 8 PIN BLACK -MΔ FUNCTIONS DEFINED BY FIRMWARE M2 - 12 PIN BLACK -18 17 M5 - 6 PIN BLUE M3 - 10 PIN WHITE -

M4 - 20 PIN BLACK

LED 1 (BYPASS)

IISR

PROGRAMMING BUTTON

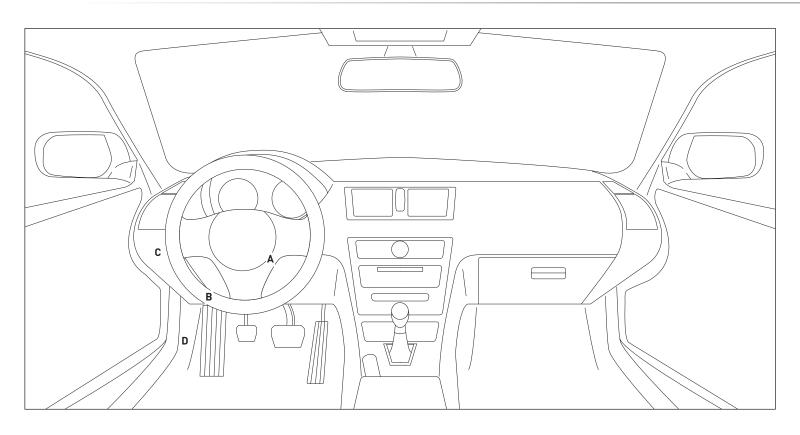
TELEMATIC 1 - 4 PIN BLUE

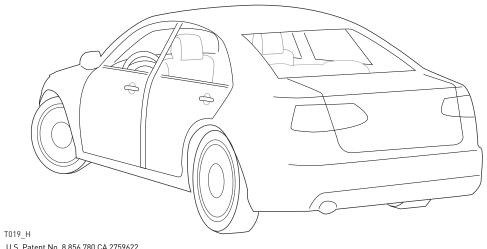
LED 2 (RS)

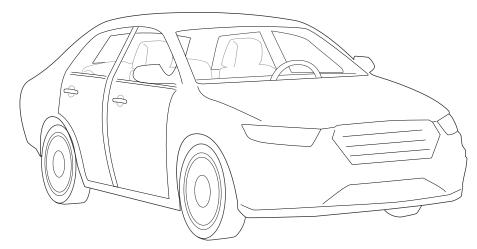
RF PORT/WEBLINK PORT - 4 PIN BLACK -

FUNCTIONS DEFINED BY FIRMWARE



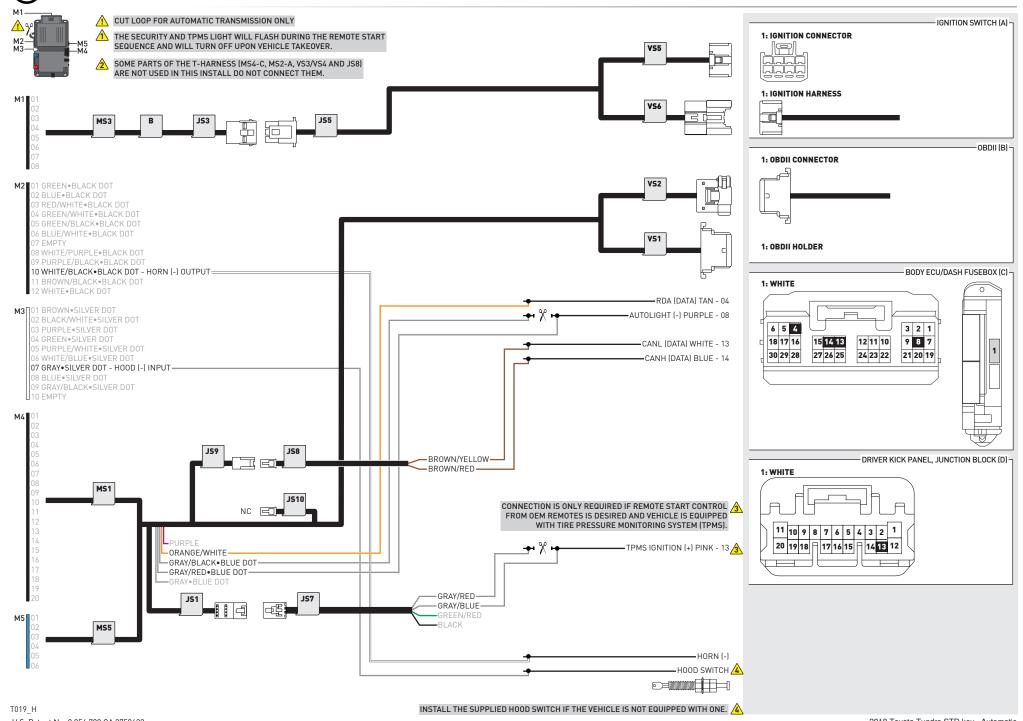




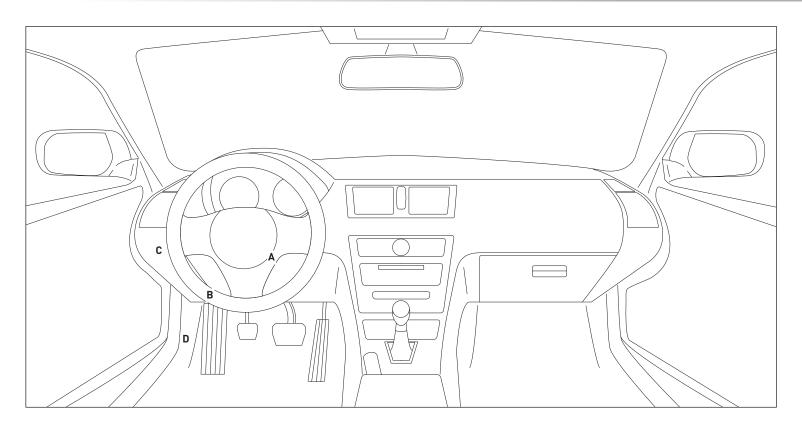


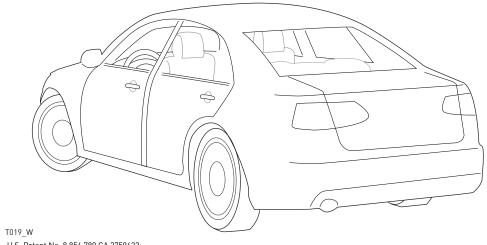
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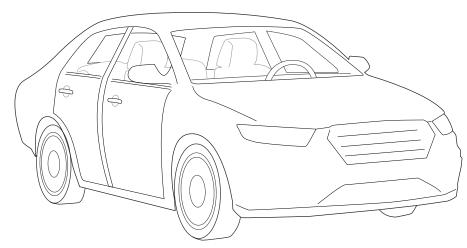




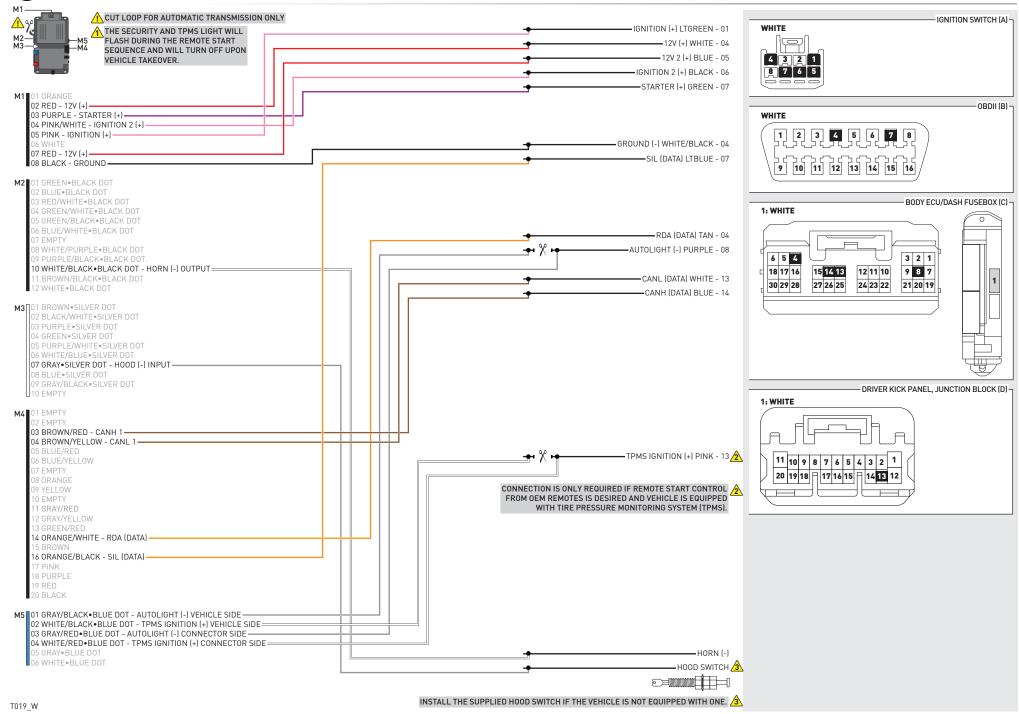


















IMPORTANT: The hood must be closed.



Use the BLACK key only. DO NOT use the GRAY valet key.





Turn key to ON position.



03



LED 1 will turn solid RED.



Wait, LED 1 will turn solid GREEN for 2 seconds.



Turn key to OFF position.

06



START vehicle for 15 seconds.



Press and hold the brake pedal.

08



Press and release the module's programming button.



Release the brake pedal.



Wait, LED 2 will flash GREEN.



Module Programming Procedure completed.







All vehicle doors must be closed and locked prior to remote start sequence.



Failure to follow procedure will result in vehicle engine shutdown.





Press unlock on OEM or aftermarket remote.





Insert key into ignition.





Turn key to ON position.





Press and release BRAKE pedal.

05



Take over procedure completed.



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Plug the antenna into the RF/Weblink port of the module (4 pin black).

WARNING: Complete the module programming procedure and tach programming procedure before programming the remotes. A maximum of four [4x] aftermarket remotes per system.

02



Set ignition to ON position.

03



Press and release the antenna button, then press and hold the antenna button. The antenna's LEDs will turn ON solid.

04



Parking Light will flash once [1x].

05



Press once [1x] on the LOCK button of each aftermarket remote.

06



The antenna's LEDs will flash once [1x] for each successful pairing.

07



Release the antenna button. The antenna's LEDs will turn OFF.

08



Set ignition to OFF position.

09



Remote Programming Procedure completed.

>>



To program an additional aftermarket remote as second vehicle mode: Follow steps 1 to 4. Press twice [2x] on the "F" button then press once [1x] on the LOCK button of the aftermarket remote. Follow steps 6 to 9.

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Please visit www.idataguides.com to see all of our remote user manuals



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REMOTE STARTER ERROR CODES: NOTES	PARKING LIGHT FLASHES	DIAGNOSTIC
I WARNING: The following applies only when the parking lights are	3 + 1	Tach is not programmed OR engine is already running.
connected and supported by the system.	3 + 2	Key is in ignition ON position.
	3 + 3	Door is open.
II After a remote starter failure, the parking lights will flash three [3x]	3 + 4	Trunk is open.
times followed by the error code. See table.	3 + 5	Foot brake is ON.
	3 + 6	Hood is open.
	3 + 7	Loop is not cut.
	3 + 8	Vehicle failed to remote start.
	3 + 9	Vehicle movement detected (VSS).
	3 + 10	System is in Valet Mode.
	3 + 11	CAN communication failure
	3 + 12	RS not synchronized. Start vehicle with OEM key for 15 sec before trying a new RS sequence.
	3 + 13	Bypass problem.
	3 + 14	Idle mode or takeover is not available on this vehicle.
	3 + 15	Overheat protection.

REMOTE STARTER SHUTDOWN ERROR CODES: NOTES	PARKING LIGHT FLASHES	DIAGNOSTIC
I WARNING: The following applies only when the parking lights are	4 + 1	Engine tach signal was lost.
connected and supported by the system.	4 + 2	Emergency brake signal was lost.
	4 + 3	Foot brake ON detected.
II If the engine shuts down after a remote starter sequence	4 + 4	Hood open detected.
use the query command from a compatible aftermarket	4 + 5	Tach over rev detected.
remote to display the shutdown error code. The parking lights will flash four [4x] times followed by the error code. See table.	4 + 6	Glow plug timeout error.
rtash rour [4x] times rottowed by the error code. See table.	4 + 7	Vehicle movement detected (VSS).
	4 + 8	Check engine light ON.
	4 + 9	Low fuel level.
	4 + 10	Open door detected.
	4 + 11	CAN communication failure during RS sequence.
	4 + 12	RS not synchronized. Start vehicle with OEM key for 15 sec before trying a new RS sequence.
	4 + 13	Bypass problem.
	4 + 14	Idle mode or takeover is not available on this vehicle.
	4 + 15	Overheat protection.



MODULE STATUS DURING:	LED 2*	LED 1**	LED STATUS	DIAGNOSTIC
		•	Flashing RED	Missing/wrong information from firmware or vehicle. See firmware specific diagnostics, or contact technical support.
		•	Solid RED	Module waiting for more vehicle information. Programming incomplete.
		•	Flashing GREEN	Additional steps required to complete programming. Refer to install guide.
MODULE PROGRAMMING		•	Solid GREEN then OFF	Module programming completed successfully.
Σ		0	OFF	No activity or module already programmed.
3RA	•		1 RED flash	No firmware on module. Connect to Weblink and flash device.
ROC	•		2 ORANGE flashes	Contact technical support.
Ш	•		3 ORANGE flashes	Module programming not completed.
	•		4 ORANGE flashes	Contact technical support.
MOL	•		7 ORANGE flashes	Contact technical support.
	•		8 ORANGE flashes	Loop not cut. Ensure loop is cut for automatic transmission. Reset and re-learn.
	•		9 ORANGE flashes	Loop not cut. Ensure loop is cut for automatic transmission. Reset and re-learn.
	•		10 ORANGE flashes	Boot loader update failed. Contact technical support.
	•		11 ORANGE flashes	T-harness detection does not match install type selection in Weblink.
9	•		Solid RED	Tach learn in progress.
TACH PROGRAMMING	•		1 GREEN flash	Tach signal programmed in analog.
A A M	•		2 GREEN flashes	Tach signal programmed in data.
190	•		3 RED flashes	No tach signal detected
A H	•		4 RED flashes	System is in valet mode. Turn off valet mode to program tach.
S	•		6 RED flashes	Engine sensing set for 'assumed start'. No tach programming required.
1	•		7 ORANGE flashes	Engine sensing not configured properly. Contact technical support.

^{*} LED 2 (RS) displays generic diagnostic codes specific to the remote start module. Orange LED flashes may appear red.

^{**} LED 1 (Bypass) displays diagnostic codes specific to the firmware loaded on the module. Visit the programming diagnostics page for more information.





MODULE STATUS DURING:	LED 2*	LED 1**	LED STATUS	DIAGNOSTIC
ш	•		Flashing rapid RED	Remote start shutdown sequence.
SC	•		Flashing slow RED	Remote start shutdown error code. Contact technical support.
SEQUENCE	•		Solid RED	Remote start crank delay.
SE	•		Flashing rapid GREEN	Remote start cycle in progress. Working correctly.
START	•		1 GREEN flash	Remote start initiated successfully.
ST/	•		3 GREEN flashes	Idle mode cycle in progress.
REMOTE	•		4 GREEN flashes	Turbo mode cycle in progress.
EM		•	Flashing GREEN	Remote start cycle in progress. Displays vehicle platform during runtime.
~		•	Rapid GREEN flashing	Secure takeover initiated. Waiting to complete takeover after brake press.
9	•		Solid RED	Remote programming in progress, waiting for remote pairing.
Z	•		1 GREEN flash	Remote programmed.
PROGRAMMING	•		4 RED flashes	Shutdown remote starter before attempting remote programming.
GR.	•		5 RED flashes	Engine must be off before attempting remote programming.
280	•		6 RED flashes	System must be unlocked/disarmed before attempting remote programming.
TRANSMITTER	•		7 RED flashes	Module must be learned to the vehicle before attempting remote programming.

^{*} LED 2 (RS) displays generic diagnostic codes specific to the remote start module. Orange LED flashes may appear red.

^{**} LED 1 (Bypass) displays diagnostic codes specific to the firmware loaded on the module. Visit the programming diagnostics page for more information.

