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INSTALL GUIDE

2021 JEEP WRANGLER JL PTS PLUG-IN HYBRID AUTOMATIC

DOCUMENT NUMBER

A4828E0

REVISION DATE

20211123 142130

FIRMWARE

RSA-CH12

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

Automotive Data Solutions Inc. ("ADS") products are strictly intended for installation by Certified Technicians who are employed by a registered business specialized in the installation of automotive aftermarket electronics products. Prior to beginning installation of an ADS product in a vehicle, it is the Certified Technician's responsibility to review the most current Product Guide, Install Guide and vehicle-specific notes available in Weblink®. ADS is not responsible for any damages whatsoever, including but not limited to any consequential damages, incidental damages, damages for loss of time, loss of earnings, loss of profit, commercial loss, loss of economic opportunity and the like that may or may not have resulted from the use, misuse, improper installation or operation of its products. ADS reserves itself the right to suspend any Weblink® account without notice and decline to offer technical support to non-Certified Technicians, noncompliant Certified Technicians or end users.





FEATURE LIST - 1 OF 1



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	1				
Hood Status	✓				
Brake Status	✓				
E-Brake Status	1				
Glow Plug Status					
RAP Shutdown	1				

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)		

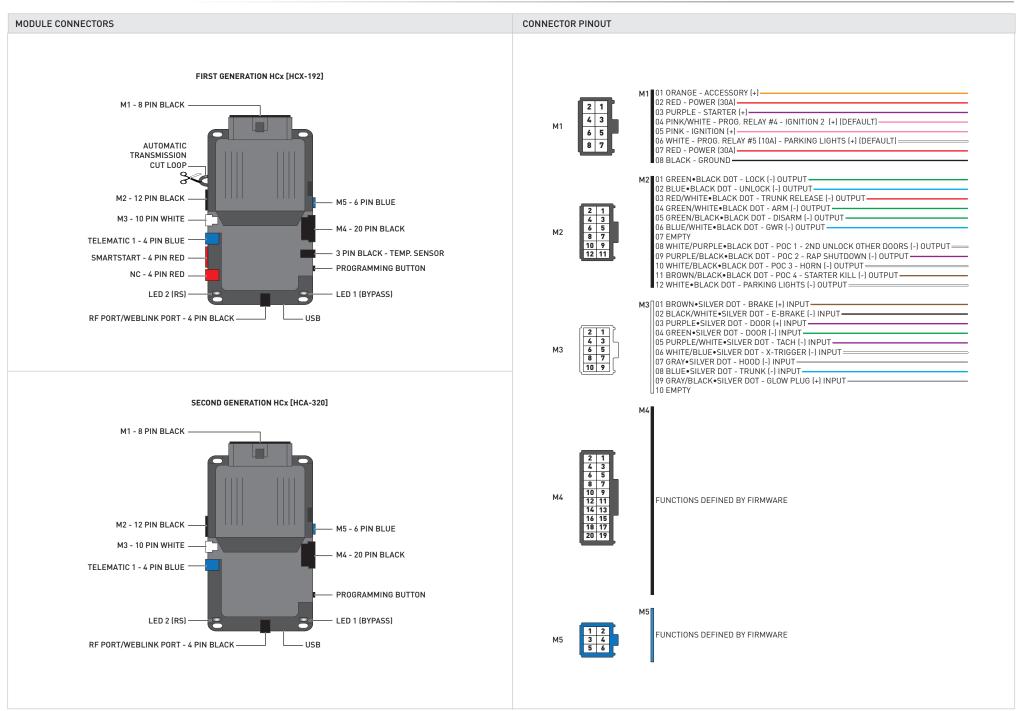
SECURITY SYSTEM	Supported
Arm 0EM Alarm	✓
Disarm 0EM Alarm	1
Aftermarket Alarm Control from OEM Remotes	✓
Aftermarket Alarm Control from OEM RFID Entry Sensors	✓
Door Status	1
Trunk/Hatch Status	✓

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

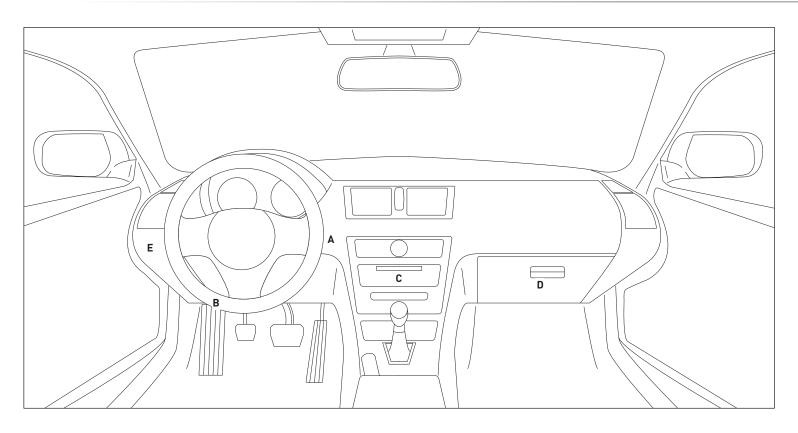
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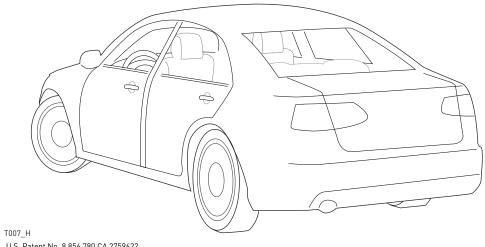
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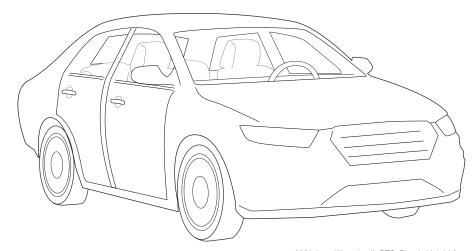




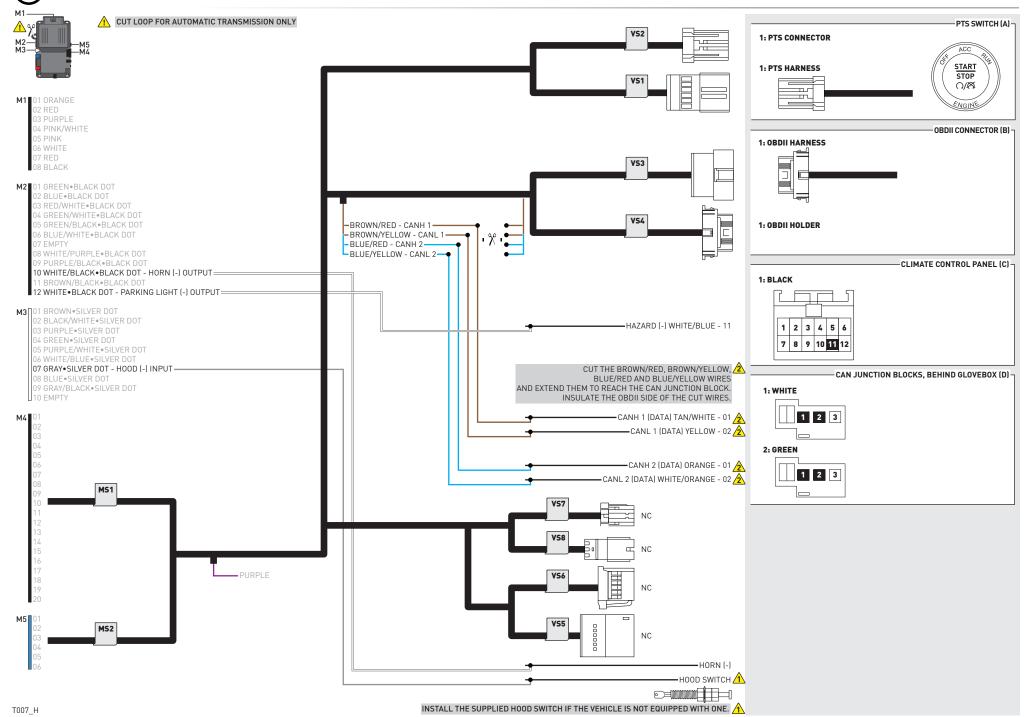




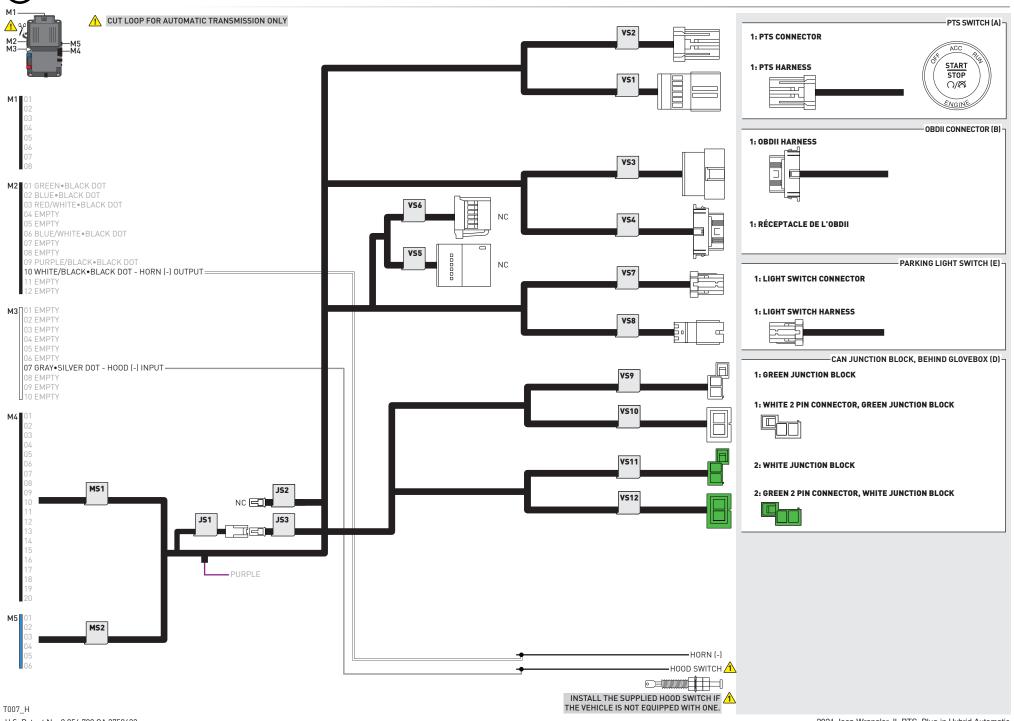




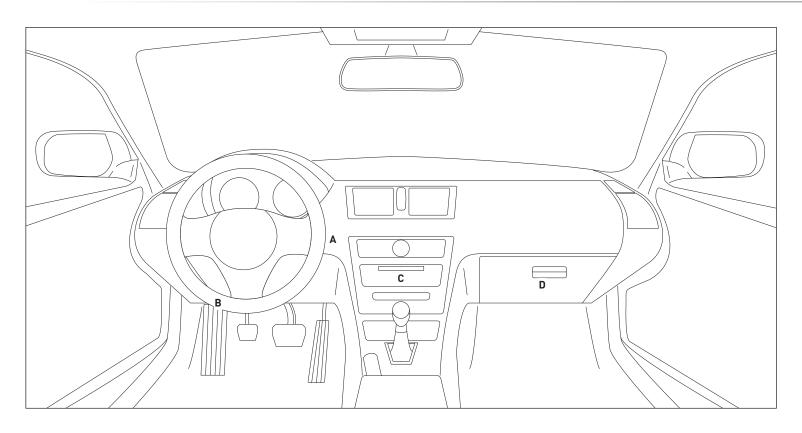


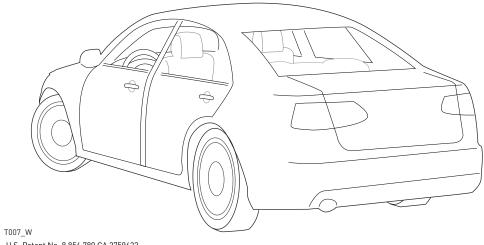


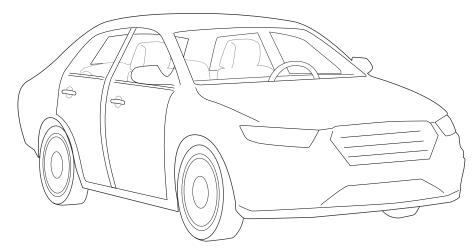


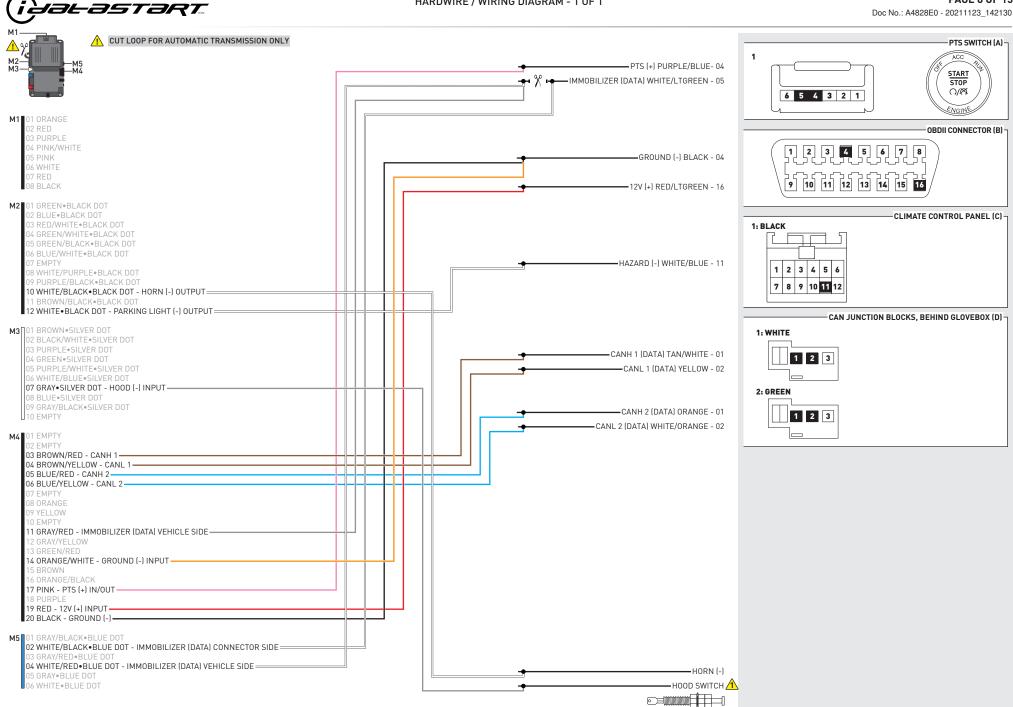












INSTALL THE SUPPLIED HOOD SWITCH IF 1 THE VEHICLE IS NOT EQUIPPED WITH ONE.





IMPORTANT: The hood must be closed.



Close driver door. Re-open driver door to wake up data bus.



02 Press Unlock on OEM remote. If the vehicle is not equipped with an OEM remote, press and hold the module programming button until the LED flashes GREEN/RED (this takes

approximately 10 seconds).



Wait, LED 1 will flash GREEN once [1x]. If LED 1 does not flash GREEN, repeat step 2.



Set ignition to ON position.



Wait, if LED 1 turns solid RED proceed to step 6. If LED 1 flashes GREEN rapidly, proceed to step 10.





Set ignition to OFF position.



Repeat steps 4 to 6, eight times [8x].



Set ignition to ON position.



Wait, LED 1 will flash GREEN rapidly.



Set ignition to OFF position.



11

WARNING: Disconnect power last. Disconnect module from vehicle.





Connect module to computer and proceed with extended programming.



WARNING: DO NOT press programming button. Connect power first. Connect module to vehicle.



Set ignition to ON position.



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



Set ignition to OFF position.



START vehicle for 15 seconds.



18



Press and hold the brake pedal.

19



Press and release the module's programming button.

20



Release the brake pedal.

71



Wait, LED 2 will flash GREEN.

22



Module Programming Procedure completed.







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





Time restriction. Complete steps 2 to 5 within 45 seconds.



Press unlock on OEM or aftermarket remote.



Open driver door and enter vehicle.



Close driver door.



Press and release BRAKE pedal.



Take over procedure completed.



Failure to follow procedure will result in vehicle engine shutdown.



01



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

04



Parking Light will flash once [1x].

05



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

UO



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

07



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

US



Set ignition to OFF position.

09



Remote Programming Procedure completed.

>>



To program an additional 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 remote. Follow steps 6 to 9.

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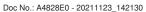


Please visit www.idataguides.com to see all of our remote user manuals



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	No tach detected.
	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.
rtasir rour [4x] times rottowed by the error code. See taste.	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 0EM 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.
NG		•	Solid GREEN then OFF	Module programming completed successfully.
MODULE PROGRAMMING		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.
Σ	•		1 GREEN flash	Tach signal programmed in analog.
TACH PROGRAMMING	•		2 GREEN flashes	Tach signal programmed in data.
	•		3 RED flashes	No tach signal detected
	•		4 RED flashes	System is in valet mode. Turn off valet mode to program tach.
CH	•		6 RED flashes	Engine sensing set for 'assumed start'. No tach programming required.
ΤĀ	•		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.
NC NC	•		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.
OTE	•		4 GREEN flashes	Turbo mode cycle in progress.
REMOTE		•	Flashing GREEN	Remote start cycle in progress. Displays vehicle platform during runtime.
22		•	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.
Δ	•		4 RED flashes	Shutdown remote starter before attempting remote programming.
JGR,	•		5 RED flashes	Engine must be off before attempting remote programming.
PRC	•		6 RED flashes	System must be unlocked/disarmed before attempting remote programming.
TRANSMITTER PROGRAMMING	•		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.

