



INSTALL GUIDE

2022 AUDI A4 PTS AUTOMATIC

DOCUMENT NUMBER

A5EB220

REVISION DATE

20220819_094230

FIRMWARE

RSD-AUD1

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

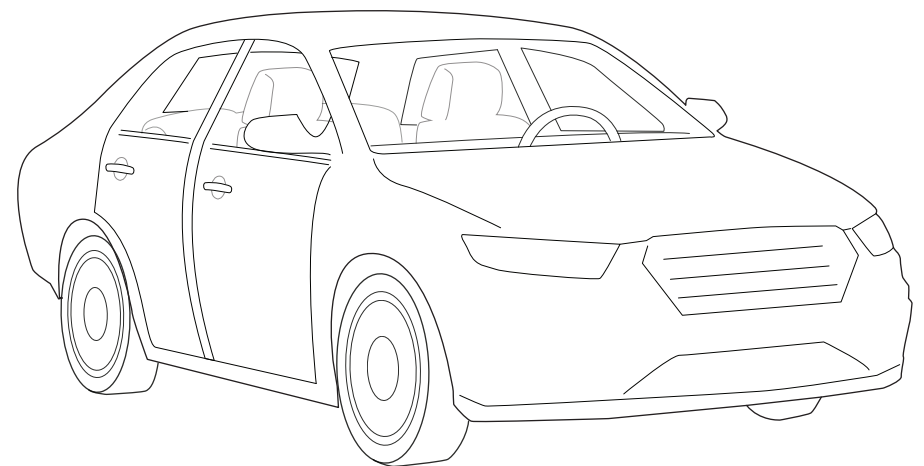
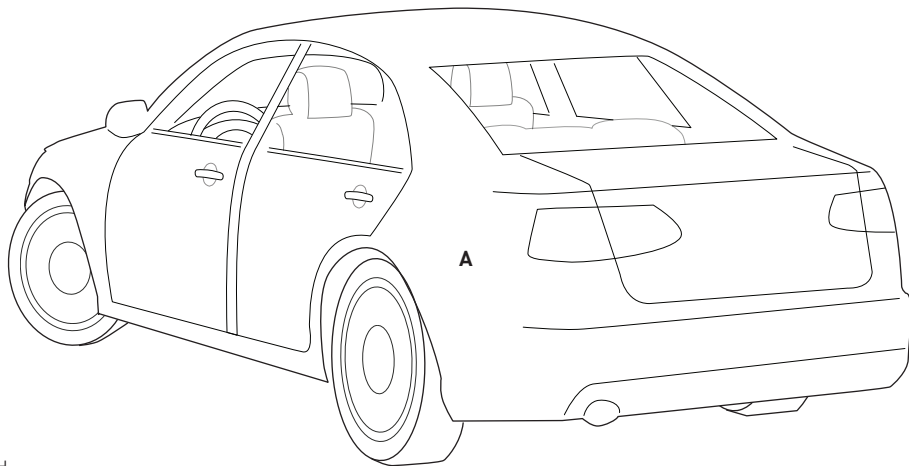
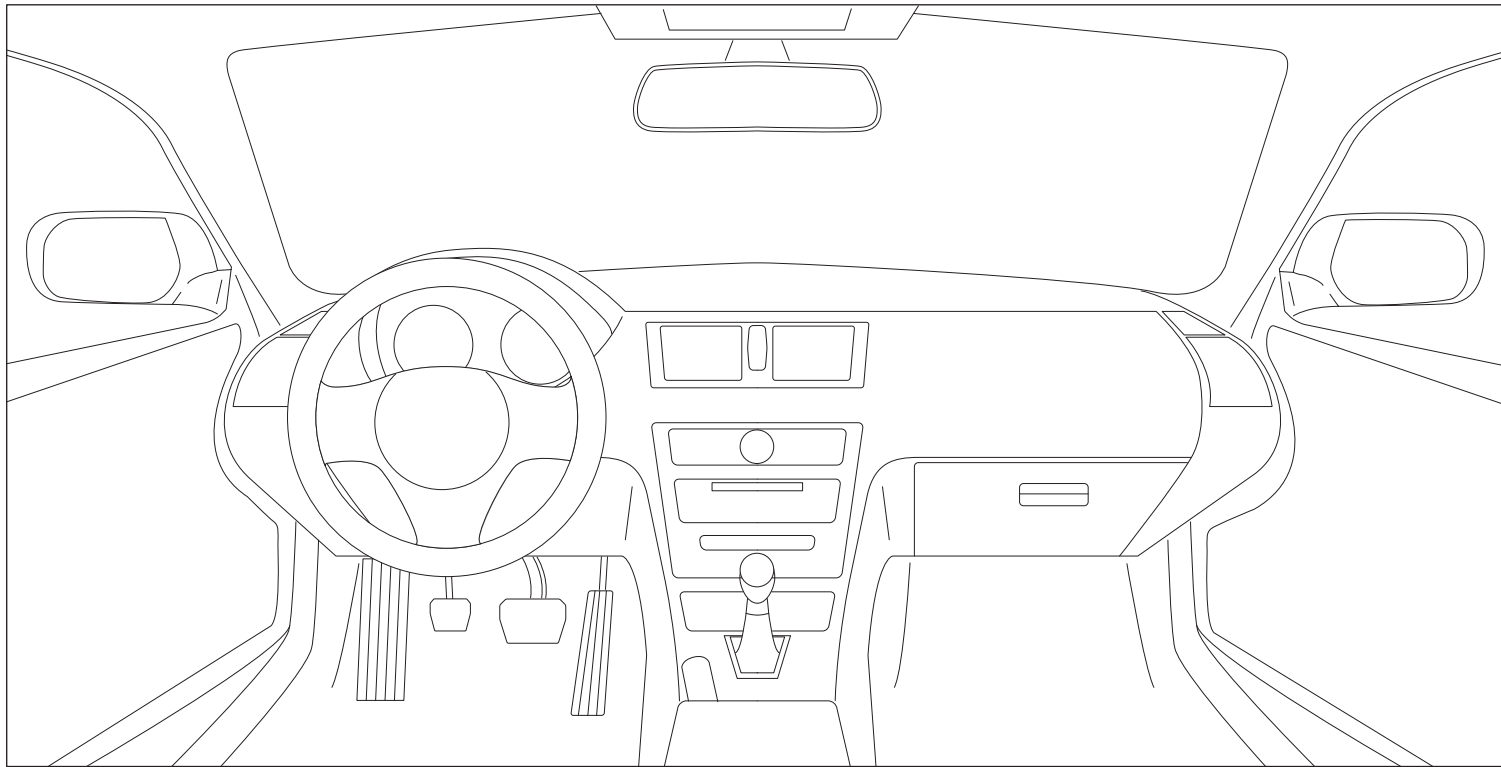
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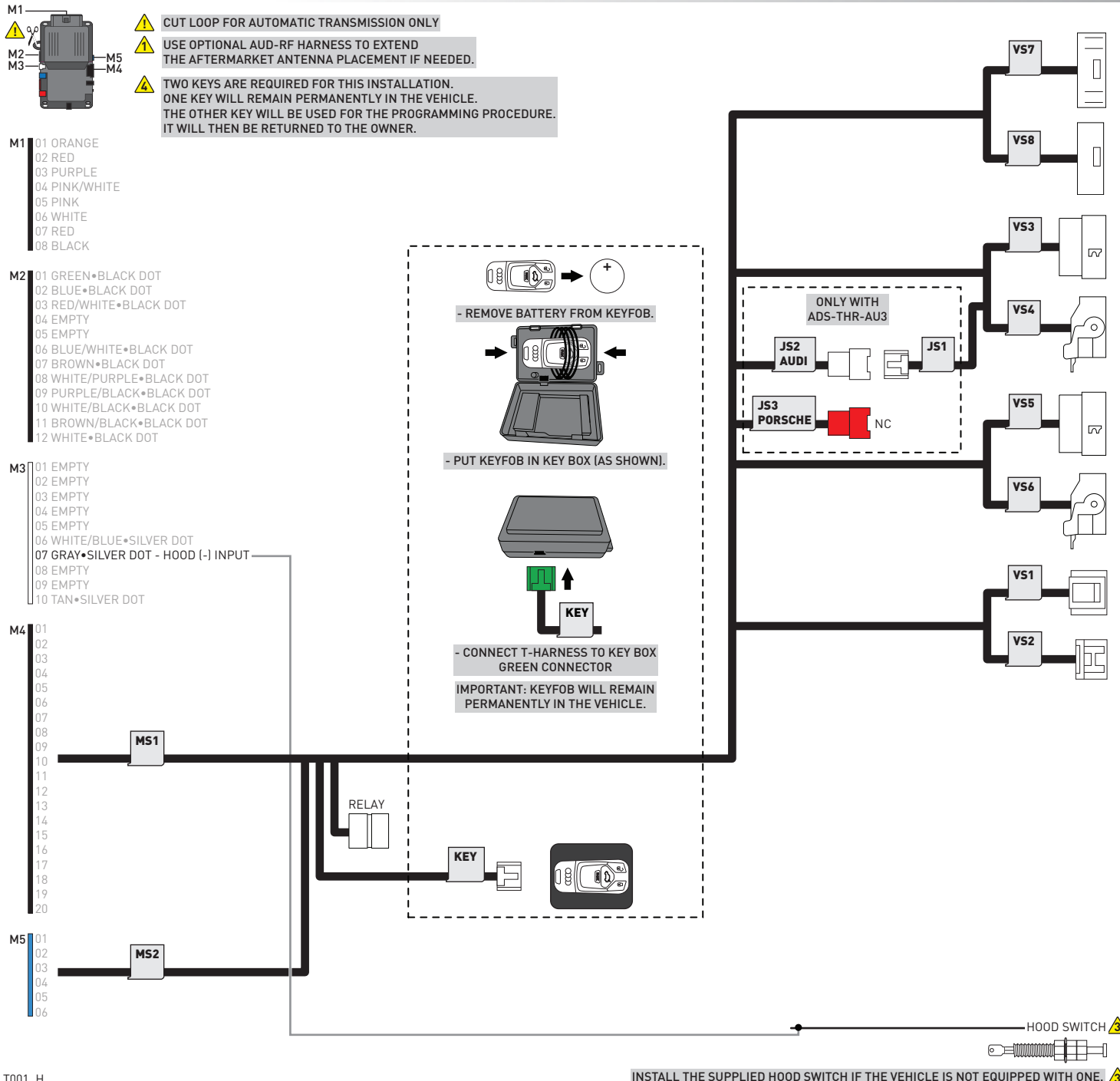
REMOTE START	Supported
Data Immobilizer Bypass (no key required)	
Key Required for Immobilizer Bypass	✓
Takeover Available	✓
No Takeover Available (shutdown on unlock or door open)	
3x Lock Start from OEM Remotes	✓
Data / MUX Parking Light Control - Constant	
Data / MUX / Hazard Parking Light Control - 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 OEM Alarm	✓
Disarm OEM Alarm	✓
Aftermarket Alarm Control from OEM Remotes	✓
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	





BCM, LEFT SIDE OF TRUNK (A)

1: BLACK CONNECTOR 20 PIN

20	19	18	17	16	15	14	13	12	11	10
9	8	7	6	5	4	3	2	1		

1: BCM

2: BLUE CONNECTOR 32 PIN



2: BCM

3: BLACK CONNECTOR 32 PIN

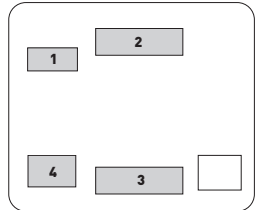


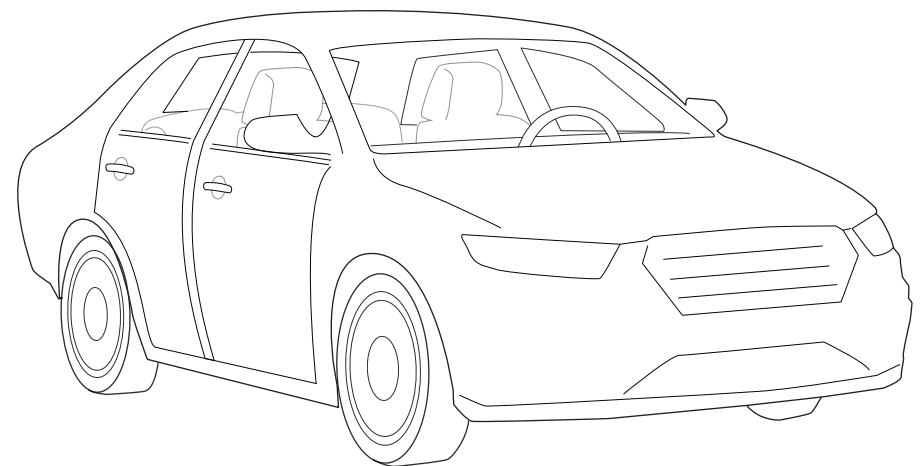
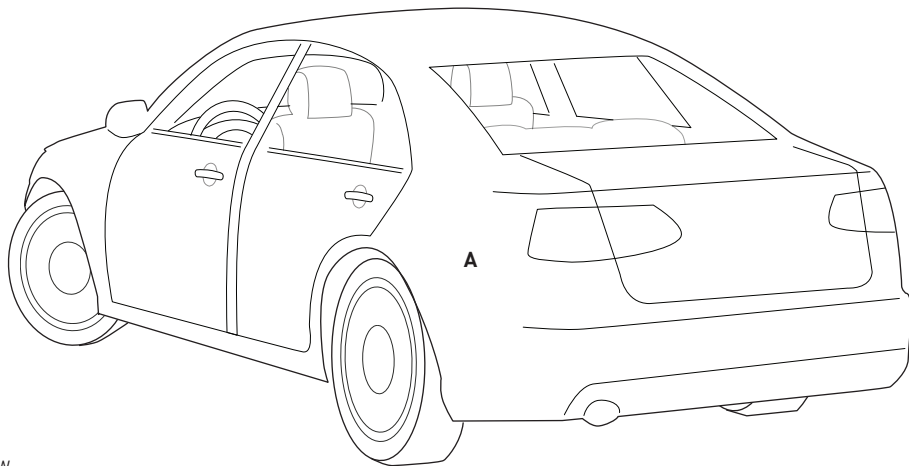
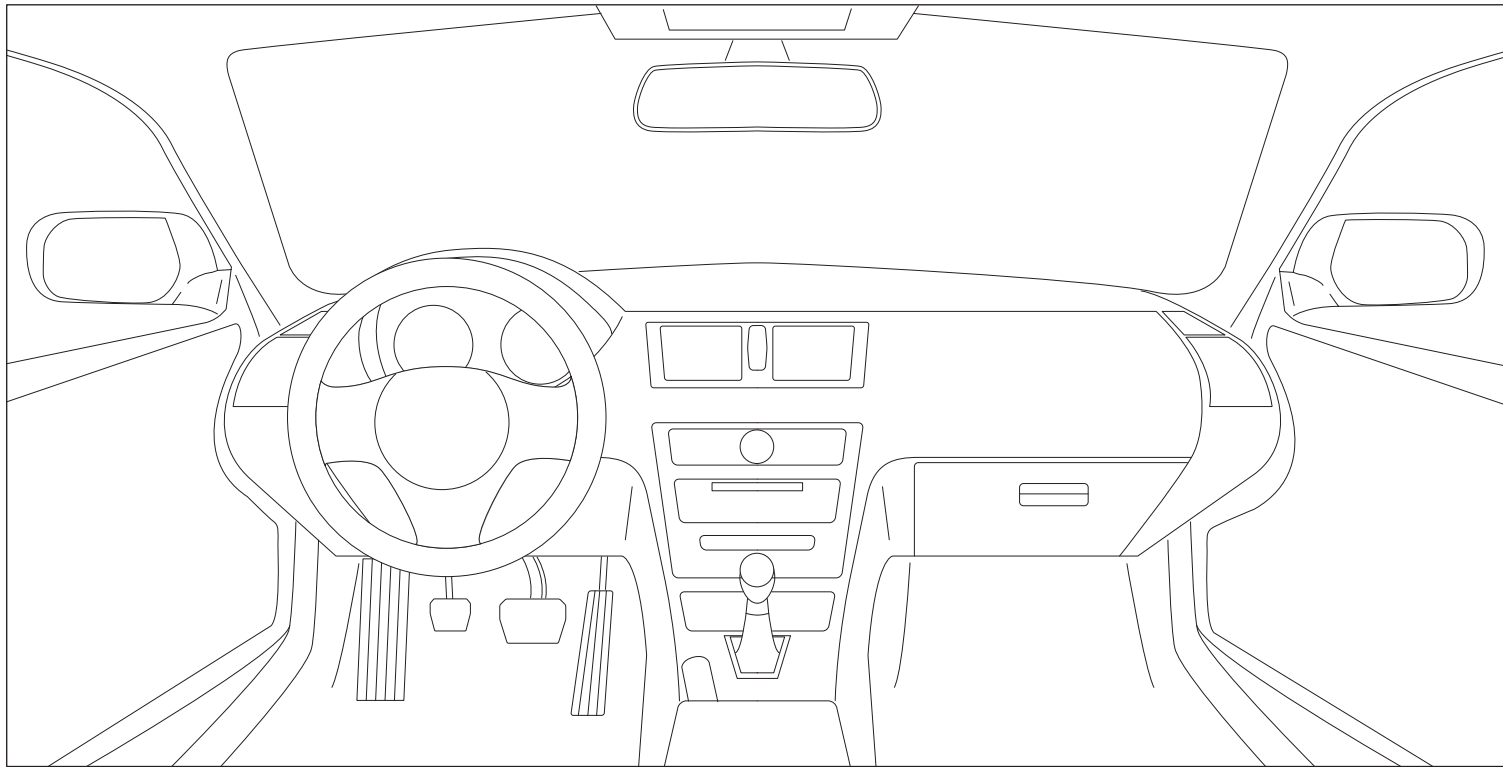
3: BCM

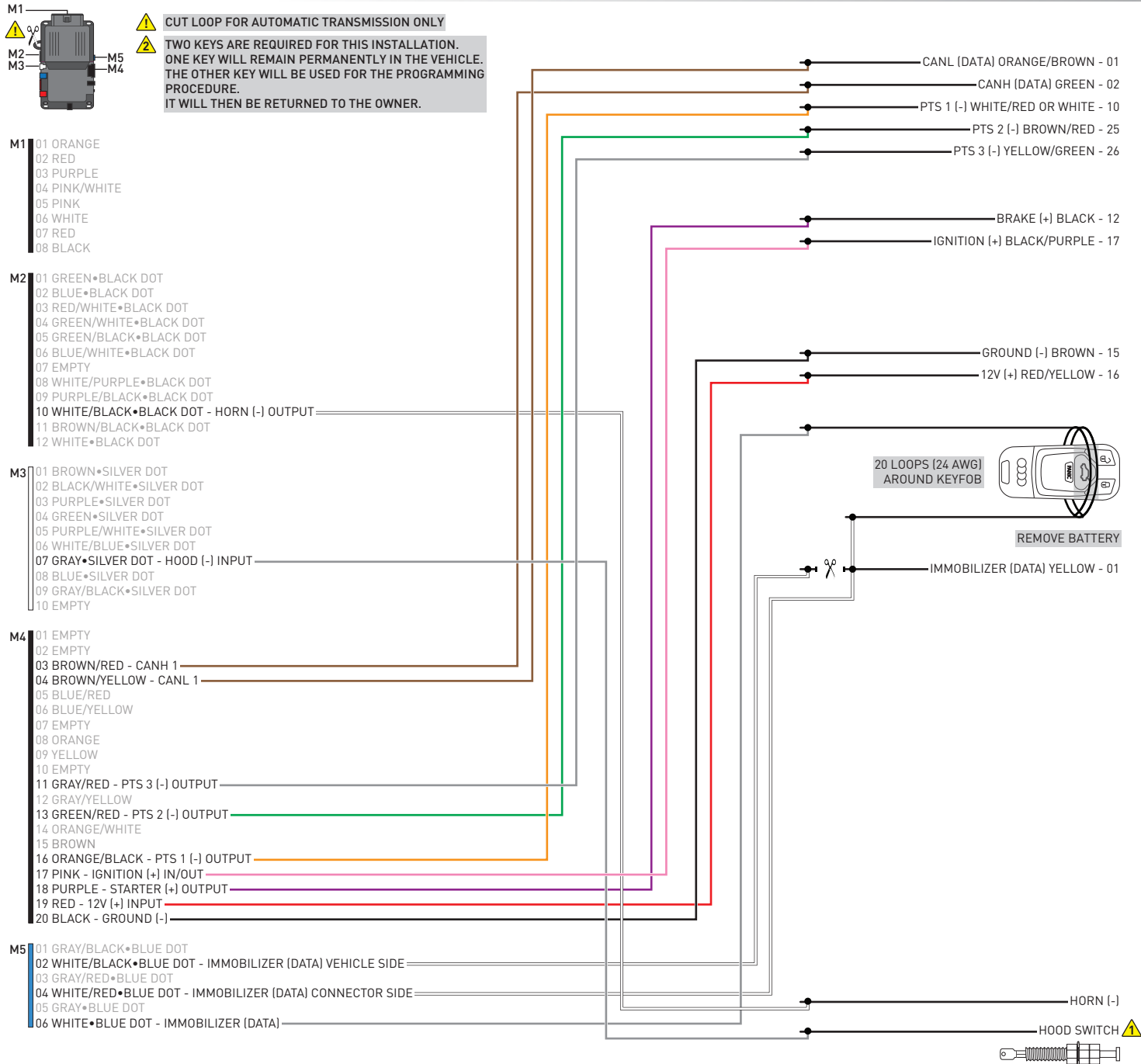
4: BROWN CONNECTOR 17 PIN



4: BCM







REAR BCM, LEFT SIDE OF TRUNK (A)

1: T32H - LTBLUE/WHITE

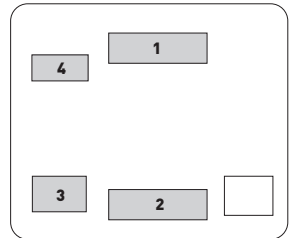
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17
16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1

2: T32G - BLACK/WHITE

32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17
16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1

3: T17N TAN

14	13	12	11	10	9	8
17	16	15				
7	6	5	4	3	2	1



4: T20N BLACK

20	19	18	17	16	15	14	13	12	11	10
9	8	7	6	5	4	3	2	1		

01



Set ignition to ON position.

02



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

03



Set ignition to OFF position.

04



START vehicle for 15 seconds, then deactivate the emergency brake.

05



Press and hold the brake pedal.

06



Press the lock button of OEM keyfob 1 three times [3x].

07



Release the brake pedal.

08



Wait, the hazard lights will flash twice [2x].

09



Module Programming Procedure completed.

>>



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

01



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

02



Press unlock on OEM or aftermarket remote.

03



Open driver door and enter vehicle.

04



Close driver door.

05



Press and release BRAKE pedal.

06



Take over procedure completed.

>>

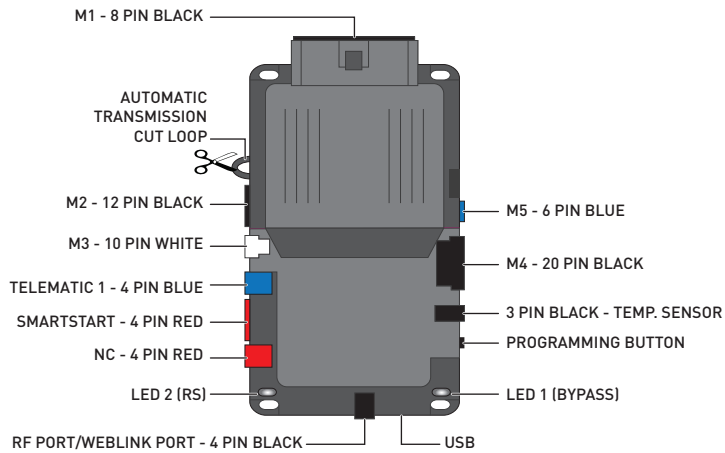


Failure to follow procedure will result in vehicle engine shutdown.

MODULE CONNECTORS

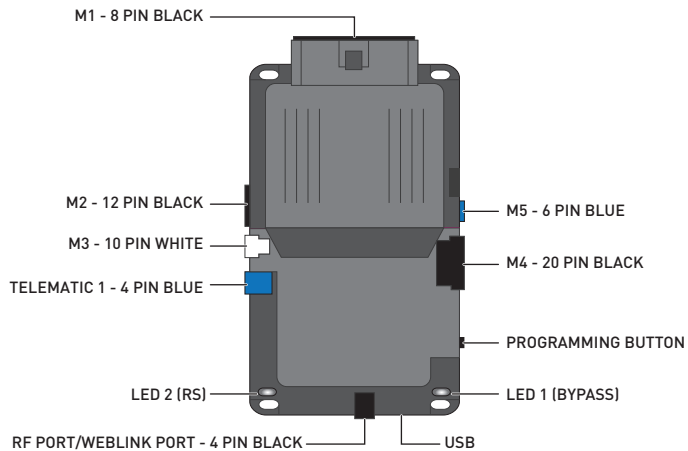
CONNECTOR PINOUT

FIRST GENERATION HCx [HCX-192]




M1		M1	01 ORANGE - ACCESSORY (+)
			02 RED - POWER (30A)
			03 PURPLE - STARTER (+)
			04 PINK/WHITE - PROG. RELAY #4 - IGNITION 2 (+) (DEFAULT)
			05 PINK - IGNITION (+)
			06 WHITE - PROG. RELAY #5 (10A) - PARKING LIGHTS (+) (DEFAULT)
			07 RED - POWER (30A)
			08 BLACK - GROUND
M2		M2	01 GREEN•BLACK DOT - LOCK (-) OUTPUT
			02 BLUE•BLACK DOT - UNLOCK (-) OUTPUT
			03 RED/WHITE•BLACK DOT - TRUNK RELEASE (-) OUTPUT
			04 GREEN/WHITE•BLACK DOT - ARM (-) OUTPUT
			05 GREEN/BLACK•BLACK DOT - DISARM (-) OUTPUT
			06 BLUE/WHITE•BLACK DOT - GWR (-) OUTPUT
			07 EMPTY
			08 WHITE/PURPLE•BLACK DOT - POC 1 - 2ND UNLOCK OTHER DOORS (-) OUTPUT
			09 PURPLE/BLACK•BLACK DOT - POC 2 - RAP SHUTDOWN (-) OUTPUT
			10 WHITE/BLACK•BLACK DOT - POC 3 - HORN (-) OUTPUT
			11 BROWN/BLACK•BLACK DOT - POC 4 - STARTER KILL (-) OUTPUT
			12 WHITE•BLACK DOT - PARKING LIGHTS (-) OUTPUT
M3		M3	01 BROWN•SILVER DOT - BRAKE (+) INPUT
			02 BLACK/WHITE•SILVER DOT - E-BRAKE (-) INPUT
			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]




M4		M4	FUNCTIONS DEFINED BY FIRMWARE
M5		M5	FUNCTIONS DEFINED BY FIRMWARE


01  [4x] **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 remote.


06  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.

08  Set ignition to OFF position.

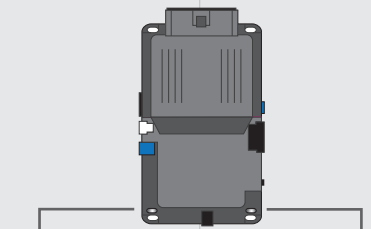





















09  Remote Programming Procedure completed.

>>  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.

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

REMOTE STARTER ERROR CODES: NOTES	PARKING LIGHT FLASHES	DIAGNOSTIC
<p>I WARNING: The following applies only when the parking lights are connected and supported by the system.</p> <p>II After a remote starter failure, the parking lights will flash three [3x] times followed by the error code. See table.</p>	3 + 1	Tach is not programmed OR engine is already running.
	3 + 2	Key is in ignition ON position.
	3 + 3	Door is open.
	3 + 4	Trunk is open.
	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
<p>I WARNING: The following applies only when the parking lights are connected and supported by the system.</p> <p>II If the engine shuts down after a remote starter sequence use the query command from a compatible aftermarket remote to display the shutdown error code. The parking lights will flash four [4x] times followed by the error code. See table.</p>	4 + 1	Engine tach signal was lost.
	4 + 2	Emergency brake signal was lost.
	4 + 3	Foot brake ON detected.
	4 + 4	Hood open detected.
	4 + 5	Tach over rev detected.
	4 + 6	Glow plug timeout error.
	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.

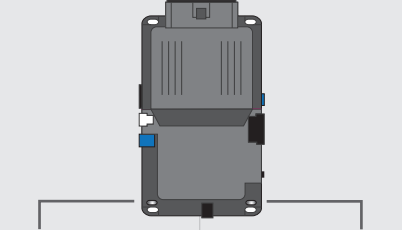
MODULE STATUS DURING:			LED STATUS	DIAGNOSTIC
	LED 2*	LED 1**		
MODULE PROGRAMMING			Flashing RED	Missing/wrong information from firmware or vehicle. See firmware specific diagnostics, or contact technical support.
			Solid RED	Module waiting for more vehicle information. Programming incomplete.
			Flashing GREEN	Additional steps required to complete programming. Refer to install guide.
			Solid GREEN then OFF	Module programming completed successfully.
			OFF	No activity or module already programmed.
			1 RED flash	No firmware on module. Connect to Weblink and flash device.
			2 ORANGE flashes	Contact technical support.
			3 ORANGE flashes	Module programming not completed.
			4 ORANGE flashes	Contact technical support.
			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.
TACH PROGRAMMING			Solid RED	Tach learn in progress.
			1 GREEN flash	Tach signal programmed in analog.
			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.
			6 RED flashes	Engine sensing set for 'assumed start'. No tach programming required.
			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 STATUS	DIAGNOSTIC
	LED 2*	LED 1**		
REMOTE START SEQUENCE	●		Flashing rapid RED	Remote start shutdown sequence.
	●		Flashing slow RED	Remote start shutdown error code. Contact technical support.
	●		Solid RED	Remote start crank delay.
	●		Flashing rapid GREEN	Remote start cycle in progress. Working correctly.
	●		1 GREEN flash	Remote start initiated successfully.
	●		3 GREEN flashes	Idle mode cycle in progress.
	●		4 GREEN flashes	Turbo mode cycle in progress.
		●	Flashing GREEN	Remote start cycle in progress. Displays vehicle platform during runtime.
TRANSMITTER PROGRAMMING		●	Rapid GREEN flashing	Secure takeover initiated. Waiting to complete takeover after brake press.
	●		Solid RED	Remote programming in progress, waiting for remote pairing.
	●		1 GREEN flash	Remote programmed.
	●		4 RED flashes	Shutdown remote starter before attempting remote programming.
	●		5 RED flashes	Engine must be off before attempting remote programming.
	●		6 RED flashes	System must be unlocked/disarmed before attempting remote 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.

