



# INSTALL GUIDE

## 2007 CHEVROLET TAHOE STD KEY AUTOMATIC



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**DOCUMENT NUMBER**

ADAF2AE

**REVISION DATE**

20250719\_140101

**FIRMWARE**

RSA-GM10

**HARDWARE**

CMHCXG0

**ACCESSORIES**

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

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**TERMS OF USE**

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*THE ART OF START™*

FEATURES NOT RETAINED	Supported
Rear Seat Entertainment Not Retained	
HSV EDI Not Retained	

HD CAMERA NOT RETAINED	Supported
360 Camera Not Retained	
HD Camera Not Retained (Orange Plug)	

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	✓
Start from OEM remotes (available ONLY with L,U,L)	

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)	

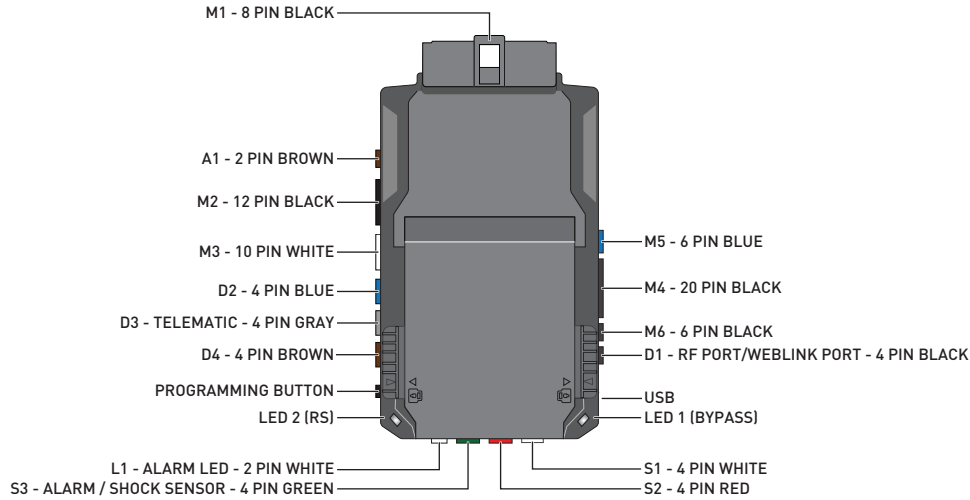
SECURITY SYSTEM	Supported
Arm OEM Alarm	✓
Disarm OEM Alarm	✓
Aftermarket Alarm Control from OEM Remotes	✓
Aftermarket Alarm Control from OEM RFID Entry Sensors	
Door Status	✓
Trunk/Hatch Status	✓

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

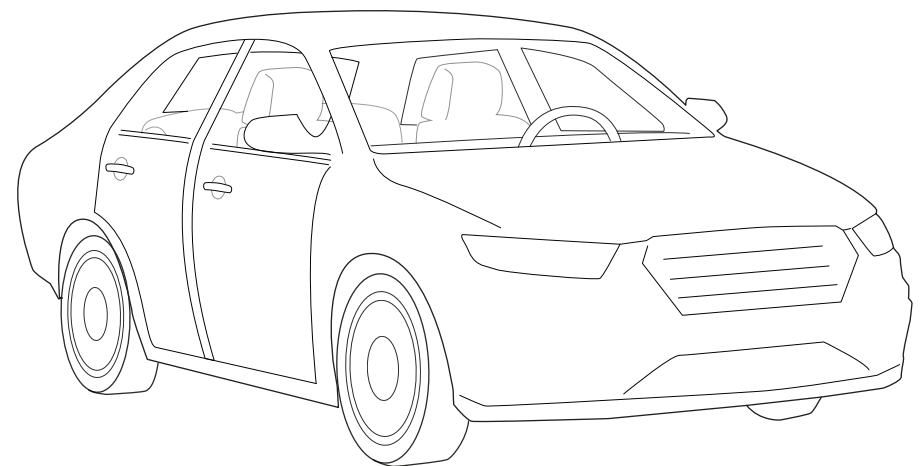
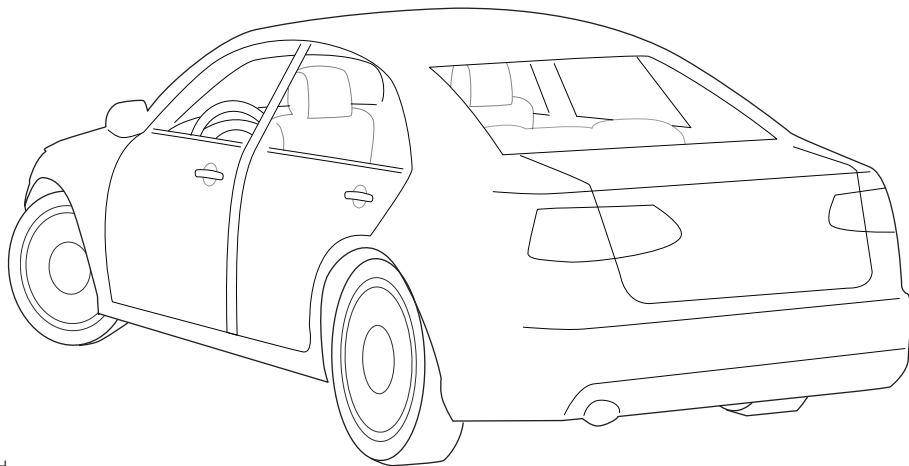
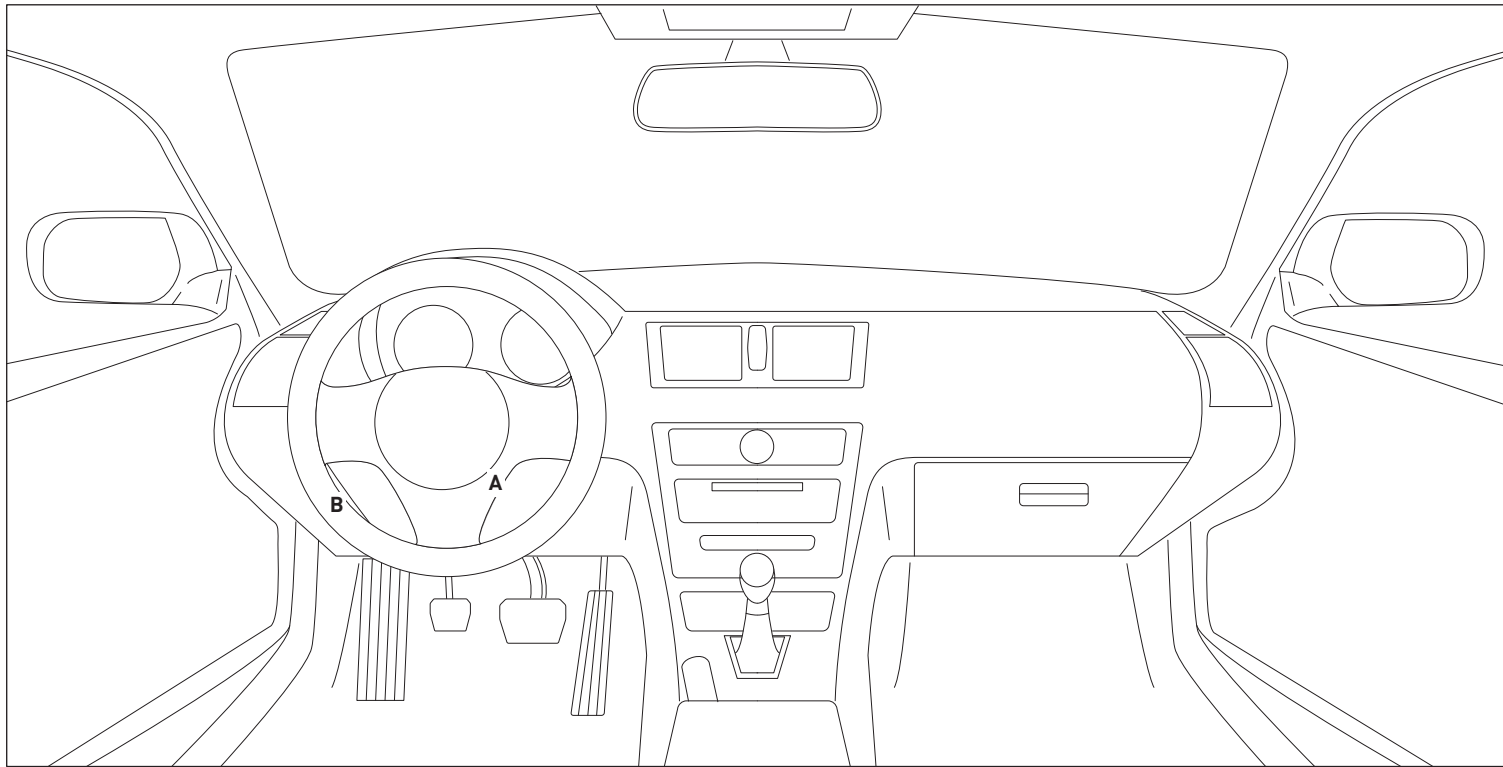
MODULE CONNECTORS

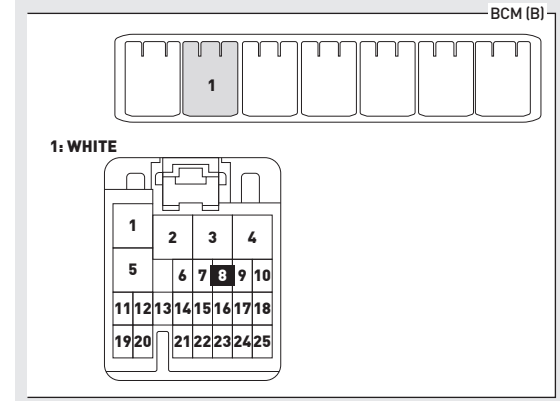
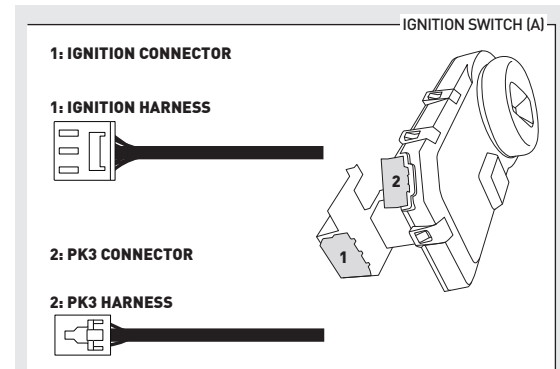
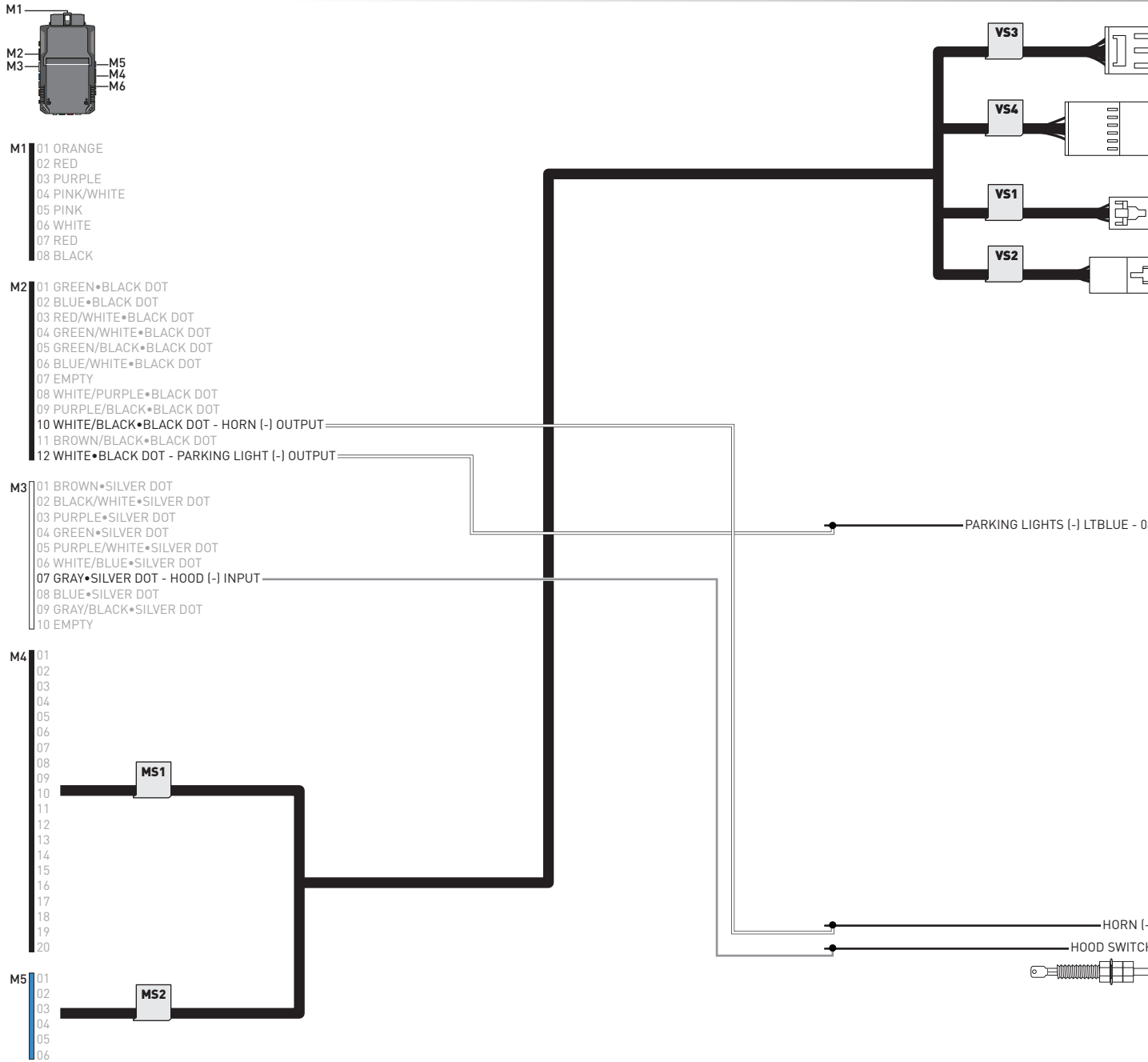
CONNECTOR PINOUT

MODULE

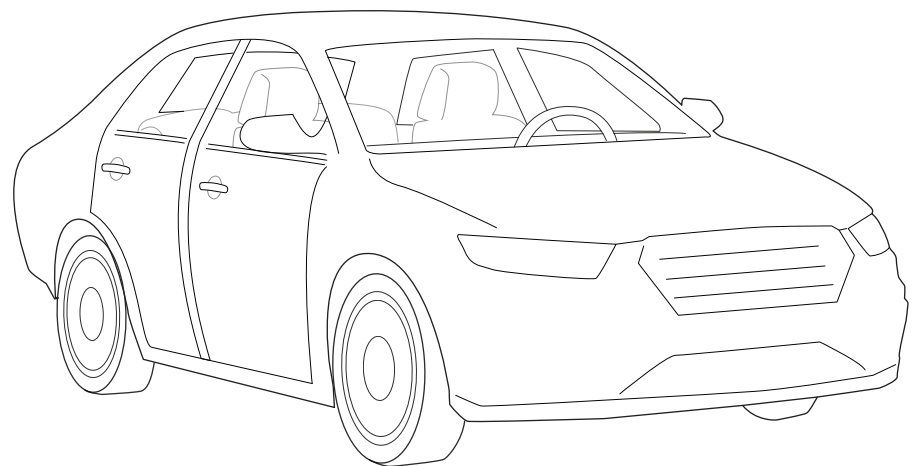
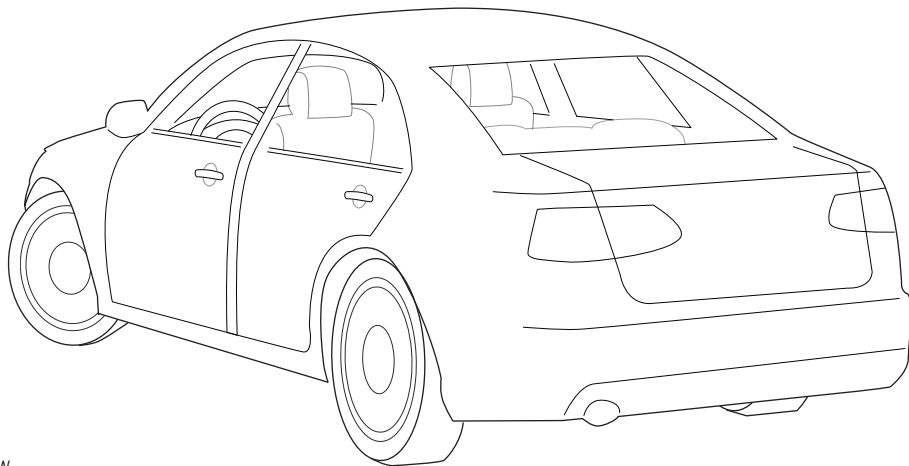
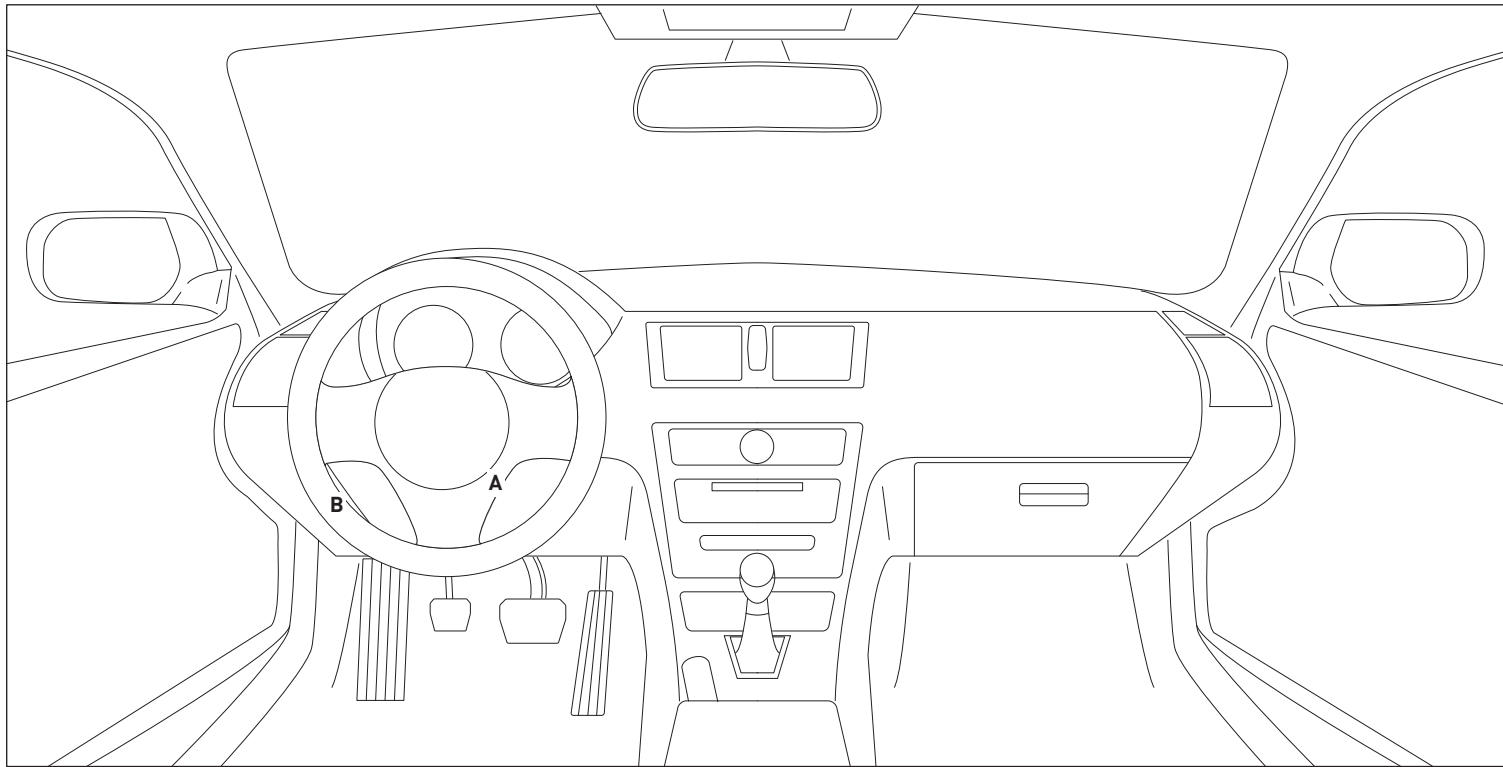


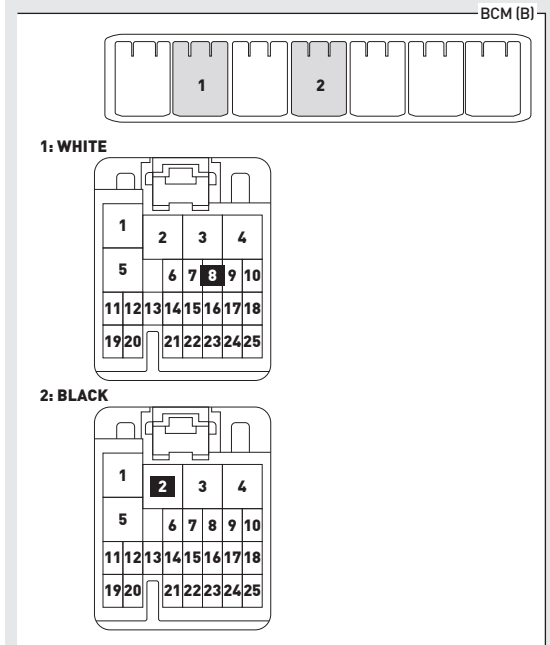
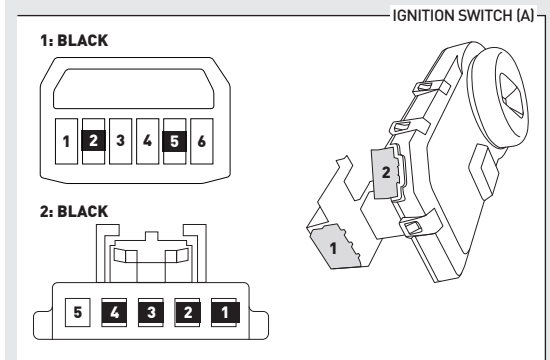
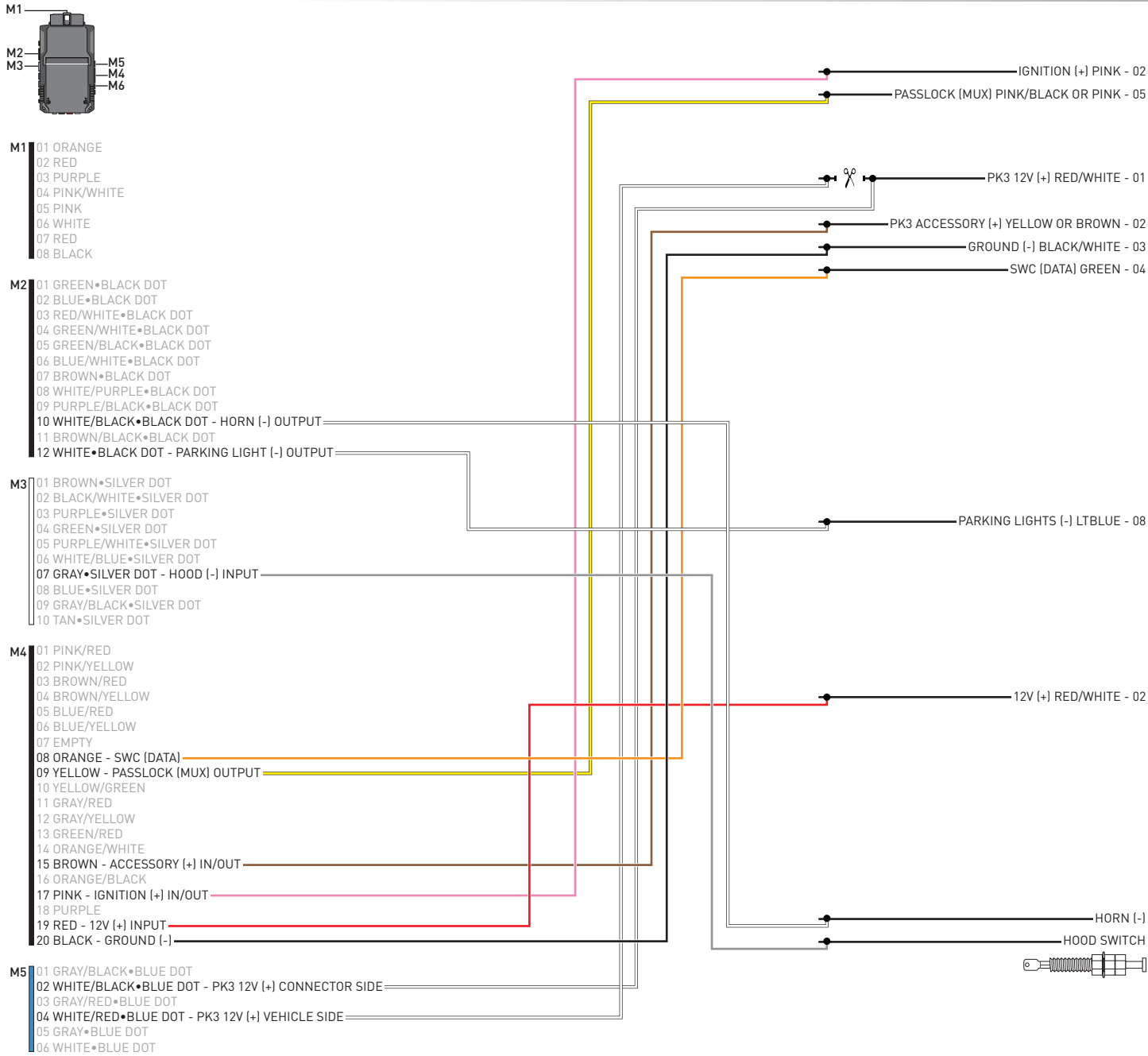
Connector	Pinout	Function
M1	2	01 ORANGE - ACCESSORY (+)
	1	02 RED - POWER [30A]
	3	03 PURPLE - STARTER (+)
	4	04 PINK/WHITE - PROG. RELAY #4 - IGNITION 2 (+) (DEFAULT)
	5	05 PINK - IGNITION (+)
	6	06 WHITE - PROG. RELAY #5 [10A] - PARKING LIGHTS (+) (DEFAULT)
	7	07 RED - POWER [30A]
	8	08 BLACK - GROUND
M2	2	01 GREEN•BLACK DOT - LOCK (-) OUTPUT
	1	02 BLUE•BLACK DOT - UNLOCK (-) OUTPUT
	3	03 RED/WHITE•BLACK DOT - TRUNK RELEASE (-) OUTPUT
	4	04 GREEN/WHITE•BLACK DOT - ARM (-) OUTPUT
	5	05 GREEN/BLACK•BLACK DOT - DISARM (-) OUTPUT
	6	06 BLUE/WHITE•BLACK DOT - GWR (-) OUTPUT
	7	07 BROWN•BLACK DOT - SIREN (+) OUTPUT
	8	08 WHITE/PURPLE•BLACK DOT - POC 1 - 2ND UNLOCK OTHER DOORS (-) OUTPUT
	9	09 PURPLE/BLACK•BLACK DOT - POC 2 - RAP SHUTDOWN (-) OUTPUT
	10	10 WHITE/BLACK•BLACK DOT - POC 3 - HORN (-) OUTPUT
	11	11 BROWN/BLACK•BLACK DOT - POC 4 - STARTER KILL (-) OUTPUT
	12	12 WHITE•BLACK DOT - PARKING LIGHTS (-) OUTPUT
M3	2	01 BROWN•SILVER DOT - BRAKE (+) INPUT
	1	02 BLACK/WHITE•SILVER DOT - E-BRAKE (-) INPUT
	3	03 PURPLE•SILVER DOT - DOOR (+) INPUT
	4	04 GREEN•SILVER DOT - DOOR (-) INPUT
	5	05 PURPLE/WHITE•SILVER DOT - TACH (-) INPUT
	6	06 WHITE/BLUE•SILVER DOT - X-TRIGGER (-) INPUT
	7	07 GRAY•SILVER DOT - HOOD (-) INPUT
	8	08 BLUE•SILVER DOT - TRUNK (-) INPUT
	9	09 GRAY/BLACK•SILVER DOT - GLOW PLUG (+) INPUT
	10	10 TAN•SILVER DOT - EXT ALARM SENSOR (-) INPUT
M4	FUNCTIONS DEFINED BY FIRMWARE	
	FUNCTIONS DEFINED BY FIRMWARE	
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M5	FUNCTIONS DEFINED BY FIRMWARE	
	FUNCTIONS DEFINED BY FIRMWARE	
	FUNCTIONS DEFINED BY FIRMWARE	
	FUNCTIONS DEFINED BY FIRMWARE	
M6	FUNCTIONS DEFINED BY FIRMWARE	
	FUNCTIONS DEFINED BY FIRMWARE	
	FUNCTIONS DEFINED BY FIRMWARE	
	FUNCTIONS DEFINED BY FIRMWARE	





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





01 Close driver door.



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



03 Insert key into ignition.



04 Turn key to ACC position.



05 Wait, LED 1 will turn solid RED.



06 Turn key to ON position.



07 Wait, LED 1 will turn solid GREEN for 2 seconds. (This may take up to 1 minute.)



08 Turn key to OFF position.



09 START vehicle for 15 seconds.



10 Press and hold the brake pedal.



11 Press and release the module's programming button.



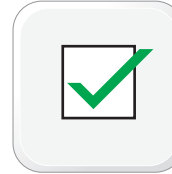
12 Release the brake pedal.



13 Wait, LED 2 will flash GREEN.



14 Module Programming Procedure completed.



>>



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

01



Press unlock on OEM or aftermarket remote or request switch.

02



DO NOT PRESS BRAKE PEDAL. Set ignition to ON position. Wait 2 seconds for key validation.

03



Press and release BRAKE pedal.

04



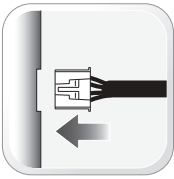
Take over procedure completed.

>>



Failure to follow procedure will result in vehicle engine shutdown.

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



01 **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].



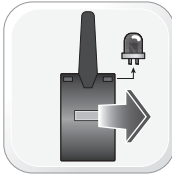
05 Press once [1x] on the LOCK button of each aftermarket remote.



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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>> Dock the smart antenna/expansion pack into the module.



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



02 Time restriction. Complete next step within 7 seconds.



03 Turn ignition ON, OFF, ON, leaving it ON the second time.



04 Press and release the BRAKE pedal three times [3x].



05 Parking Light will flash once [1x].



06 Time restriction. Complete next step within 5 seconds from previous step.



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



08 Parking Light will flash once [1x].



>> To program additional aftermarket remotes: repeat steps 5 to 7 using each additional aftermarket remote.



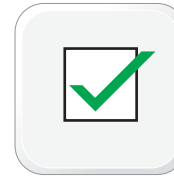
09 Wait, Parking Light will flash twice [2x].



10 Turn ignition to OFF position.



11 Aftermarket Remote Programming Procedure completed.



>> To program an additional aftermarket remote as second vehicle mode: Follow steps 1 to 5. Press twice [2x] on the "F" button then press once [1x] on the LOCK button of the aftermarket remote. Follow steps 8 to 11.



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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	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
<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.

ALARM ERROR CODES: NOTES	PARKING LIGHT FLASHES	ANTENNA LED FLASHES	DIAGNOSTIC
I WARNING: The following applies only when the parking lights are connected and supported by the system.	5 + 1	1	Shock sensor triggered
	5 + 2	2	Door open
	5 + 3	3	Trunk open
II If the alarm has been triggered, the parking lights will flash five [5x] times followed by the alarm activation event.	5 + 4	4	Hood open
	5 + 5	5	Zone 2 input triggered
	5 + 6	6	Foot brake ON
III The alarm event code is also displayed in a repeating pattern on the antenna's LED when the alarm is triggered, until unlock is received.	5 + 7	7	Ignition ON
	5 + 8	8	Motion detected
	5 + 9	9	Tilt detected
	5 + 10	10	Warn away input triggered
	5 + 11	11	Glass break detected
	5 + 12	12	Radar - Interior
	5 + 13	13	Radar - Exterior
	5 + 14	14	Voltage sensing

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	Contact technical support.
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.
TRANSMITTER PROGRAMMING		●	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.
	●		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.

