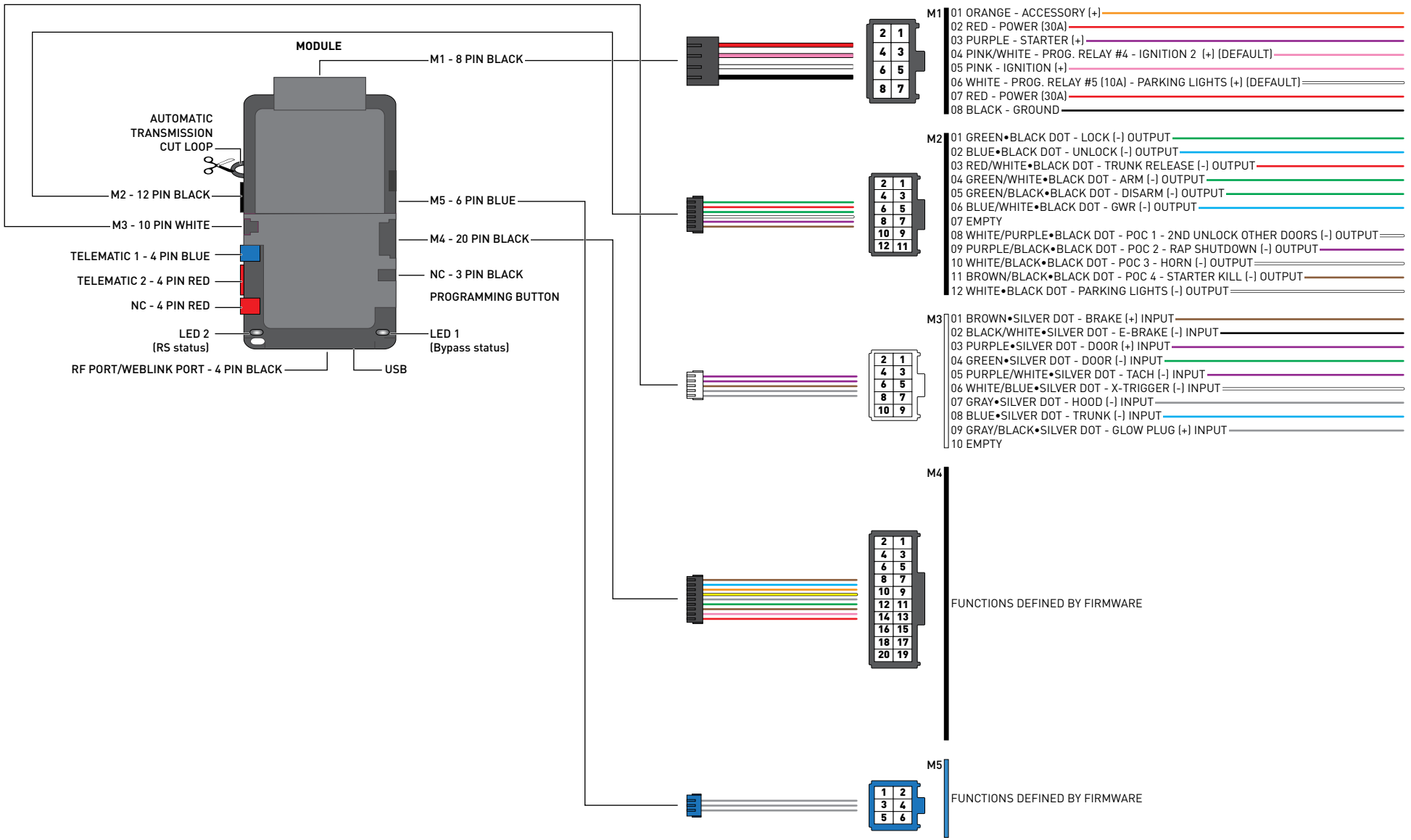
Wiring diagram



Wiring Descriptions

Connector M1, 8-Pin Black

Pin 1 **ORANGE** - Accessory 12V positive (+) output. This wire must be connected to the vehicle accessory / HVAC blower motor wire. The proper wire will test 0V with the key in the off position, (+) 12V while key is in the on position, 0V while cranking and back to (+) 12V when the key is returned to the on position.

Pin 2 **RED** - Constant 12V positive (+) power input. This wire must be connected as it provides power for the starter (PURPLE), Accessory (ORANGE), and the module's microprocessor. The proper wire will test (+) 12V at all times, even when the key is in the off position, on position, and during crank.

Pin 3 **PURPLE -** Starter 12V positive (+) output. This wire must be connected for remote start. The proper wire will test 0V with the key in the off position, 0V while the key is in the on position and (+) 12V during crank.

Pin 4 **PINK/WHITE (Programmable Output) -** Positive 12V (+) output that powers up during remote start. The default setting for this wire is (+) 2nd ignition. To change this setting, go to menu option 1-4

Pin 5 **PINK -** Ignition 12V positive (+) output and input. This wire must be connected to the vehicle's ignition for remote start and valet / remote programming. The proper wire will test 0V with the key in the off position, 12 V (+) while the key is in the on position and 12V (+) during crank.

Pin 6 **WHITE (Programmable Output) -** This positive (+) parking light wire triggers when you lock, unlock, remote start, or during troubleshooting diagnostics. To change this setting, go to menu option 1-5.

Pin 7 **RED** - Constant 12V positive (+) power input. This wire must be connected as it provides power for the ignition (PINK) and 2nd ignition (PINK/WHITE) outputs. The proper vehicle wire will test (+) 12V at all times - while the key is in the off position, the on position and during crank.

Pin 8 **BLACK -** Ground negative (-) input. This wire must be connected to the vehicle's chassis ground. Make sure no paint or rust is on the mounting surface. We recommend connecting this wire before the others.

Wiring Descriptions cont...

Connector M2, 12-Pin Black

Pin 1 **GREEN•BLACK DOT** - Lock 250mA (-) negative output: This is an output that will provide a (-) pulse for locking doors. System will lock doors and arm alarm.

Pin 2 **BLUE•BLACK DOT** - Unlock 250mA negative (-) output: This is an output that will provide a (-) pulse for unlocking doors. System will unlock doors and disarm alarm.

Pin 3 **RED/WHITE•BLACK DOT** - Trunk release 250mA negative (-) output: This is an optional output that will release the trunk. Use M1, Pin 4 if the vehicle is equipped with a (+) trunk release.

Pin 4 **GREEN/WHITE•BLACK DOT** - Factory Alarm Arm (FAA) 250mA negative (-) output: This is an optional output that will provide a (-) pulse during lock, after crank and again after the ignition shuts down. The FAA output can be configured using menu option 2-15

Pin 5 **GREEN/BLACK•BLACK DOT** - Factory Alarm Disarm (FAD) 250mA negative (-) output: This output
will provide a (-) pulse during unlock and every time prior to the GWR (ground when running) turning on during the remote start sequence. It is typically used to disarm factory security systems.

Pin 6 **BLUE/WHITE•BLACK DOT** - Ground while running (GWR) 250mA negative (-) output: This is an optional output that will provide a negative (-) output 250mS before the ignition turns on, stays on throughout the remote start duration and will be the last to shut off.

Pin 7 **EMPTY**

Pin 8 **WHITE/PURPLE•BLACK DOT** - (POC1) Programmable output. Default setting is 'Unlock other doors' 250mA negative (-) output. The output control is based on feature 5-01 option setting.
Note: There are 21 additional POC setting options for this POC.

Pin 9 **PURPLE/BLACK•BLACK DOT** - (POC2) Programmable output. Default setting is 'RAP shutdown' 250mA negative (-) output. The output control is based on feature 5-02 option setting.
Note: There are 21 additional POC setting options for this POC.

Pin 10 **WHITE/BLACK•BLACK DOT** - (POC3) Programmable output. Default setting is 'HORN' 250mA negative (-) output. The output control is based on feature 5-03 option setting.
Note: There are 21 additional POC setting options for this POC.

Pin 11 **BROWN/BLACK•BLACK DOT** - (POC4) Programmable output. Default setting is 'Starter-Kill' 250mA negative (-) output. The output control is based on feature 5-04 option setting.
Note: There are 21 additional POC setting options for this POC.

Pin 12 **WHITE•BLACK DOT** - Parking light 250mA negative (-) output. This will provide output whenever the parking lights are activated for lock, unlock, remote start, diagnostics, and programming. The proper wire in the vehicle will test (-) when the parking light switch is in the on.

Wiring Descriptions cont...

Connector M3, 10-Pin White

Pin 1 **BROWN•SILVER DOT** - Brake 12V positive (+) input: This wire must be connected as it provides a shut down for the remote start. It is also required for various programming options. The proper wire will test (+) 12V while the foot brake is pressed.

Pin 2 **BLACK/WHITE•SILVER DOT** - Parking / Emergency brake negative (-) input: This input is required for manual transmission/reservation and Turbo Timer mode. The proper e-brake wire will provide a (-) trigger when parking / emergency brake is set and the key is in the ignition or "on" position. This wire or input is required for manual transmission and turbo timer mode.

Pin 3 **PURPLE•SILVER DOT** - Door zone input (+). This wire monitors positive (+) trigger door-pins. The proper wire will provide a (+) trigger only when the doors are opened. You will need to test the wire for proper polarity. IMPORTANT: A doorpin connection is required for manual transmission remote starts.

Pin 4 **GREEN•SILVER DOT** - Door zone input (-). This wire monitors negative (-) trigger door-pins. The proper wire will provide a (-) trigger only when the doors are opened. You will need to test the wire for proper polarity. IMPORTANT: A doorpin connection is required for manual transmission remote starts.

Pin 5 **PURPLE/WHITE•SILVER DOT** - Engine sensing input (A/C): This wire is connected to the vehicle's Tach wire and is required when using the tach sense setting.
IMPORTANT: To change engine-sensing modes, you must change Option 1-02; Default option is set for tach input.

Pin 6 **WHITE/BLUE•SILVER DOT** - External RS trigger input (-) programmable input. This is an input (-) that can be used to activate the start sequence when triggered 1, 2, or 3 times based on option selected on feature 1-16. This can be done with a door lock motor output being operated by a factory keyless entry or another external source; Default option is 'disabled'.

Pin 7 **GRAY•SILVER DOT** - Hood Pin negative (-) input: This input is a safety shut down and alarm trigger. It prevents the vehicle from remote starting while the hood is open and triggers the alarm if the hood is opened while the alarm is armed. You can connect this wire to the hood pin supplied with this kit, or to a wire in the vehicle that shows (-) only while the hood is open.

Pin 8 **BLUE•SILVER DOT** - Trunk zone input (-): This is an optional input that will monitor when the vehicle's trunk has been opened. The proper wire will provide a (-) trigger while the trunk is open.

Pin 9 **GRAY/BLACK•SILVER DOT** - Glow plug input (+): Reads any positive input as a glow plug or wait to start input. This is recommended for diesel vehicles that may have a positive analog glow plug output available.

Pin 10 **EMPTY**

Wiring Descriptions cont...

Connector M4, 20-Pin Black
This connector is reserved for use with vehicle specific applications. If any connections to M4 are required, they will be indicated in the vehicle specific install diagram after flashing the HC.

Connector M5, 6-Pin Blue
This connector is reserved for use with vehicle specific applications. If any connections to M5 are required, they will be indicated in the vehicle specific install diagram after flashing the HC.

RF / Weblink Port, 4-Pin Black
Used for programming and configuration of features and options. Connect the WEBLINK-USB programmer to interface with a compatible PC (not included). Also used to connect WEBLINK MOBILE RS programmers for Android or iOS (not included). This is also the port used to connect an iDatastart RF antenna for use with long-range remotes.

Telematic 1 Port, 4-Pin Blue
Used for pairing with most supported telematic devices. Supported devices will appear during the flash/configuration procedure.
Pin 1 (B+) - Constant 12V positive (+) output
Pin 2 (B-) - Ground (-) output
Pin 3 (RX) - Input, this wire receives data
Pin 4 (TX) - Output, this wire transmits data

Telematic 2 Port, 4-Pin Red
Used for pairing with specific supported Telematic devices. Supported devices will appear during the flash/configuration procedure.

ACC Port, 4-Pin Red
Used for application specific devices such as the ACC-MTDS1 sensor for manual transmission installations.

Temp sensor, 3-pin Black
The HC has a built-in temperature sensor that supports all temperature related features such as cold start mode, defrost/heated seats (if supported) and temperature reporting to telematic devices. For improved accuracy, an external temperature sensor (ACC-TEMP) can be added to the HC.

Automatic transmission loop, Black
By default, the units come in MANUAL transmission mode. You will need to cut the black loop on the side of the control module if you are installing the unit in a AUTOMATIC transmission.

Programming Button, Black
Used for activating various programming features such as tach learn and performing system reset.