



INSTALL GUIDE

OL-AL(RS)-CH5-[ADS-ALCA]-EN

DOCUMENT NUMBER
83517

REVISION DATE
20231124

FIRMWARE
OL-AL(RS)-CH5-[ADS-ALCA]

HARDWARE
ADS-ALCA

ACCESSORIES
ADS-USB (REQUIRED)
ADS-HRN-CH5 (REQUIRED)
RF-10/30/50-EDP (OPTIONAL)

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, non-compliant Certified Technicians or end users.



BEFORE INSTALLATION

- 1- Connect module to computer
- 2- Login to Weblink account
- 3- Flash firmware to module (module is not preloaded with firmware)
- 4- Use accessories accordingly (accessories are sold separately)

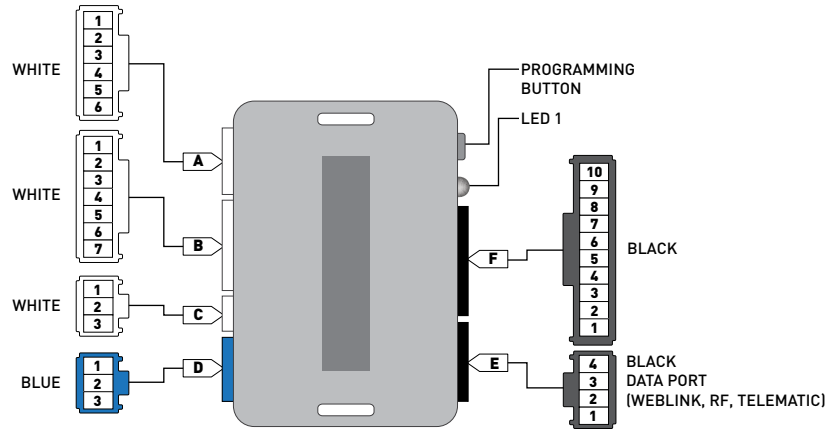
MAKE	MODEL	YEAR	INSTALL TYPE	FEATURES									
				DATA IMMOBILIZER BYPASS	3X LOCK START/STANDALONE MOD.	PRIORITY UNLOCK	DOOR LOCK	DOOR UNLOCK	ARM OEM ALARM	DISARM OEM ALARM	TRUNK/HATCH RELEASE	DATA/MUX STARTER CTRL	RAP SHUTDOWN CTRL
CHRYSLER	200	11-14	2 or 3	•	•	•	•	•	•	•	•	•	•
	300 / 300C	05-07	1	•	•	•	•	•	•	•	•	•	•
	Aspen	07-10	2 or 3	•	•	•	•	•	•	•	•	•	•
	PT Cruiser	06-10	1	•	•	•	•	•	•	•	•	•	•
	Sebring	07-10	2 or 3	•	•	•	•	•	•	•	•	•	•
DODGE	Avenger	08-14	2 or 3	•	•	•	•	•	•	•	•	•	•
	Caliber (with start wire)	07	1	•	•	•	•	•	•	•	•	•	•
	Caliber	07-12	2 or 3	•	•	•	•	•	•	•	•	•	•
	Charger	06-07	1	•	•	•	•	•	•	•	•	•	•
	Durango	07-10	2 or 3	•	•	•	•	•	•	•	•	•	•
	Magnum	05-07	1	•	•	•	•	•	•	•	•	•	•
	Nitro	07-11	2 or 3	•	•	•	•	•	•	•	•	•	•
	Ram 1500	07-08	2 or 3	•	•	•	•	•	•	•	•	•	•
	Ram 2500	07-09	2 or 3	•	•	•	•	•	•	•	•	•	•
	Ram 3500	07-09	2 or 3	•	•	•	•	•	•	•	•	•	•
	Ram 3500 chassis cab	07-09	2 or 3	•	•	•	•	•	•	•	•	•	•
	Ram 4500 chassis cab	08-10	2 or 3	•	•	•	•	•	•	•	•	•	•
	Ram 5500 chassis cab	08-10	2 or 3	•	•	•	•	•	•	•	•	•	•
	Commander	06-07	1	•	•	•	•	•	•	•	•	•	•
JEEP	Compass	07-17	2 or 3	•	•	•	•	•	•	•	•	•	•
	Grand Cherokee	05-07	1	•	•	•	•	•	•	•	•	•	•
	Liberty	08-12	2 or 3	•	•	•	•	•	•	•	•	•	•
	Patriot	07-17	2 or 3	•	•	•	•	•	•	•	•	•	•
	Wrangler JK STD Key AT	07-18	2 or 3	•	•	•	•	•	•	•	•	•	•
RAM	4500 chassis cab	10	2 or 3	•	•	•	•	•	•	•	•	•	•
	5500 chassis cab	10	2 or 3	•	•	•	•	•	•	•	•	•	•

WARNING

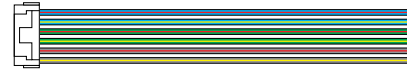
I Install type 1 & 3 require a T-Harness (sold separately).
 Install type 2 doesn't require a T-Harness.

BOX CONTENTS

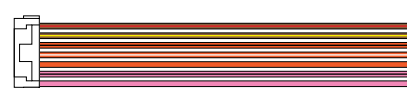
MODULE



6 PIN WHITE CONNECTOR



7 PIN WHITE CONNECTOR



3 PIN WHITE CONNECTOR



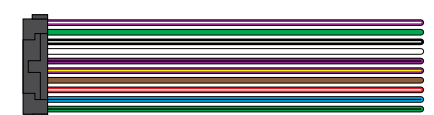
3 PIN BLUE CONNECTOR



4 PIN BLACK CONNECTOR



10 PIN BLACK CONNECTOR



DATA CABLE 1



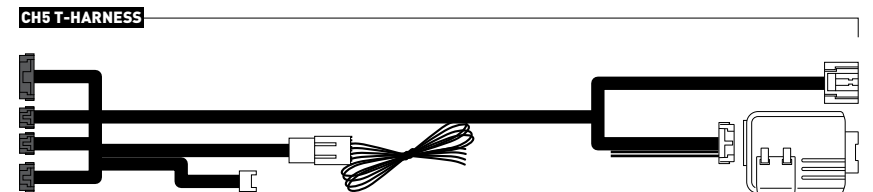
DATA CABLE 2



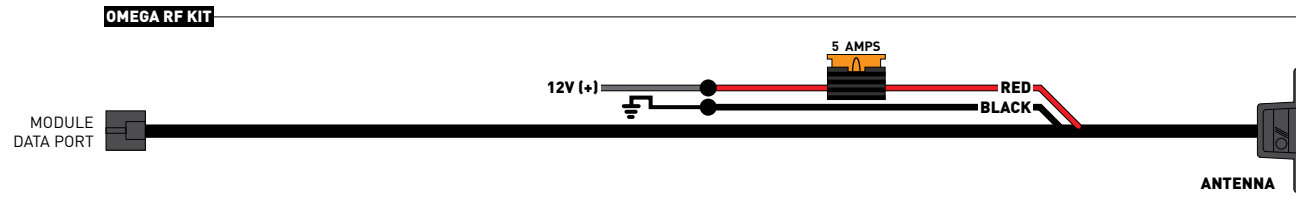
WEBLINK CABLE (required accessory sold separately)



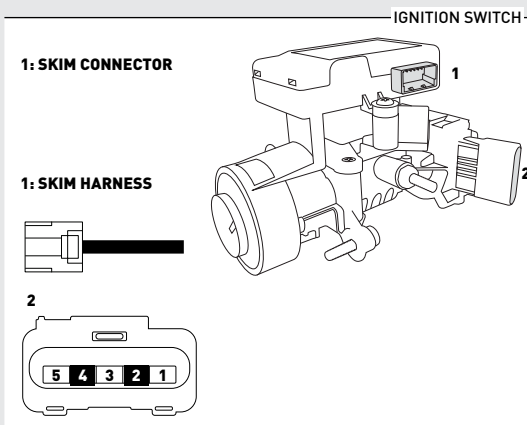
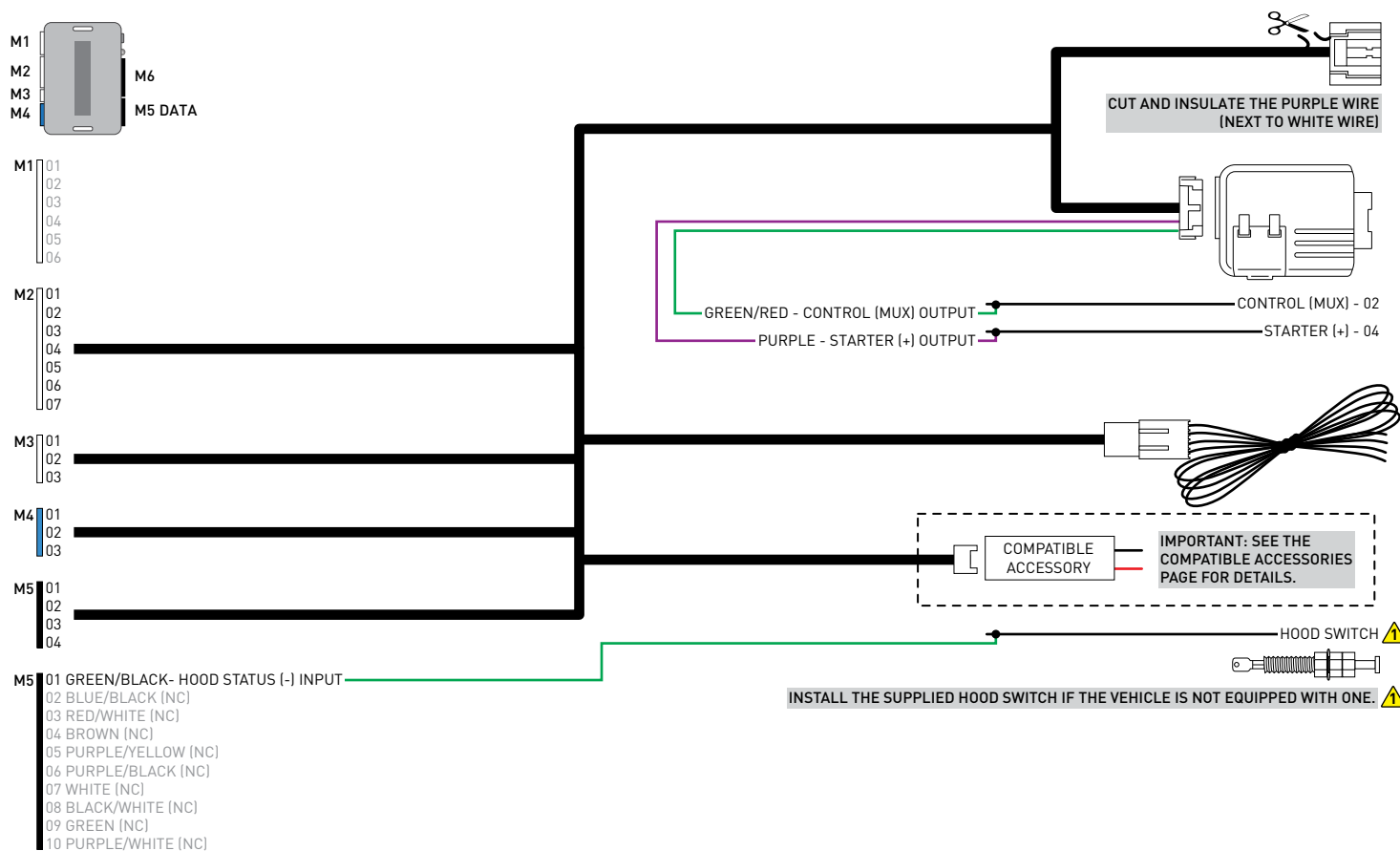
CH5 T-HARNESS (optional accessory sold separately)



RF KIT (accessories sold separately)

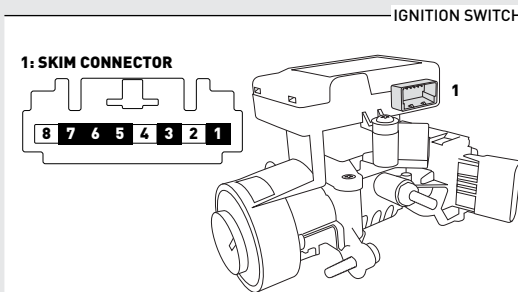
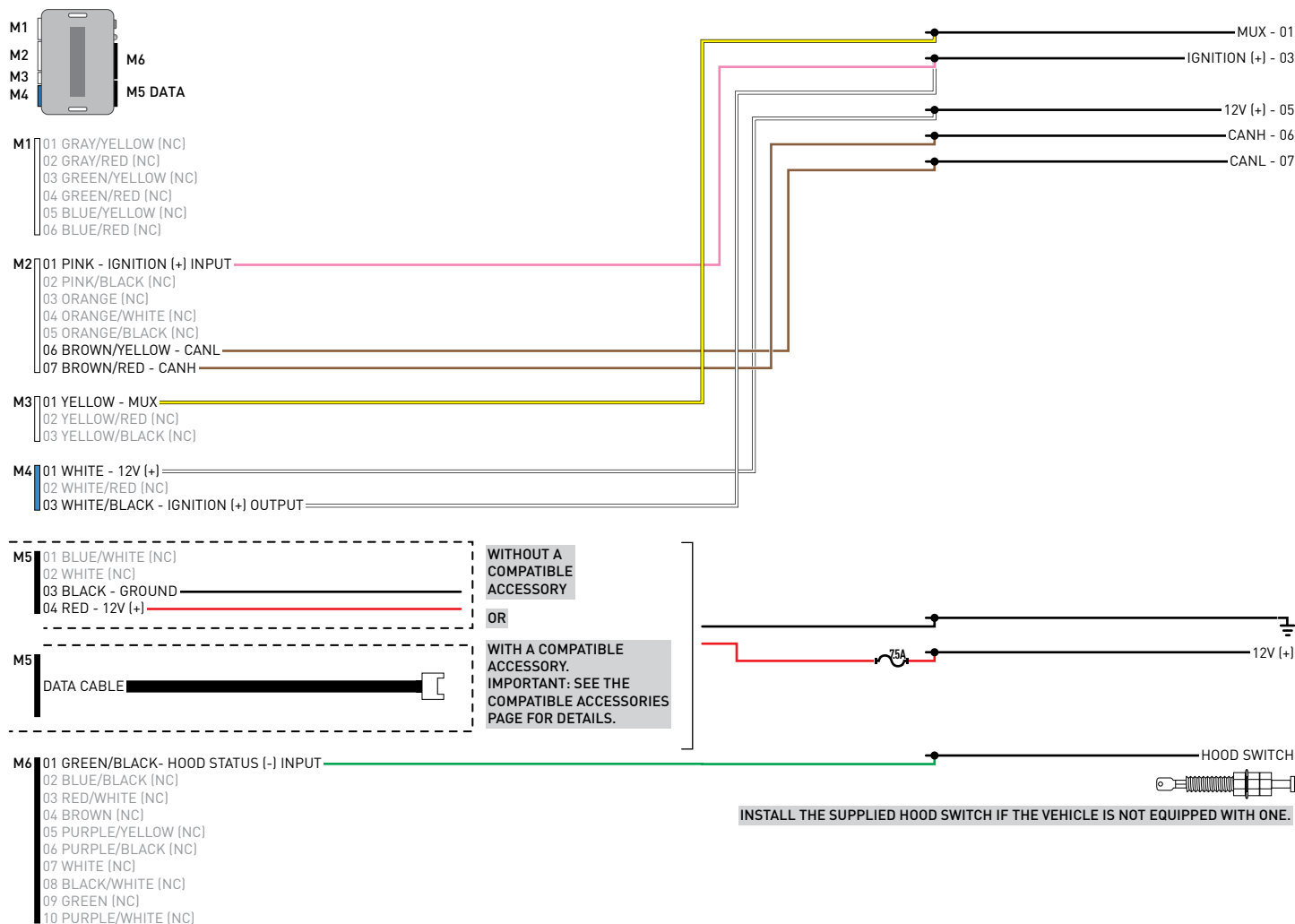


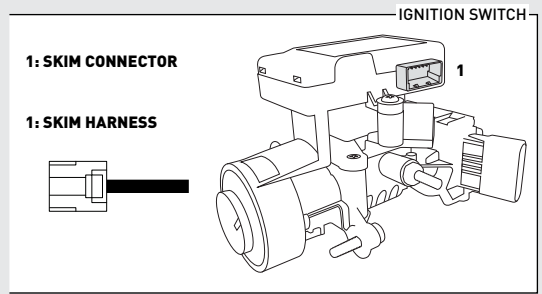
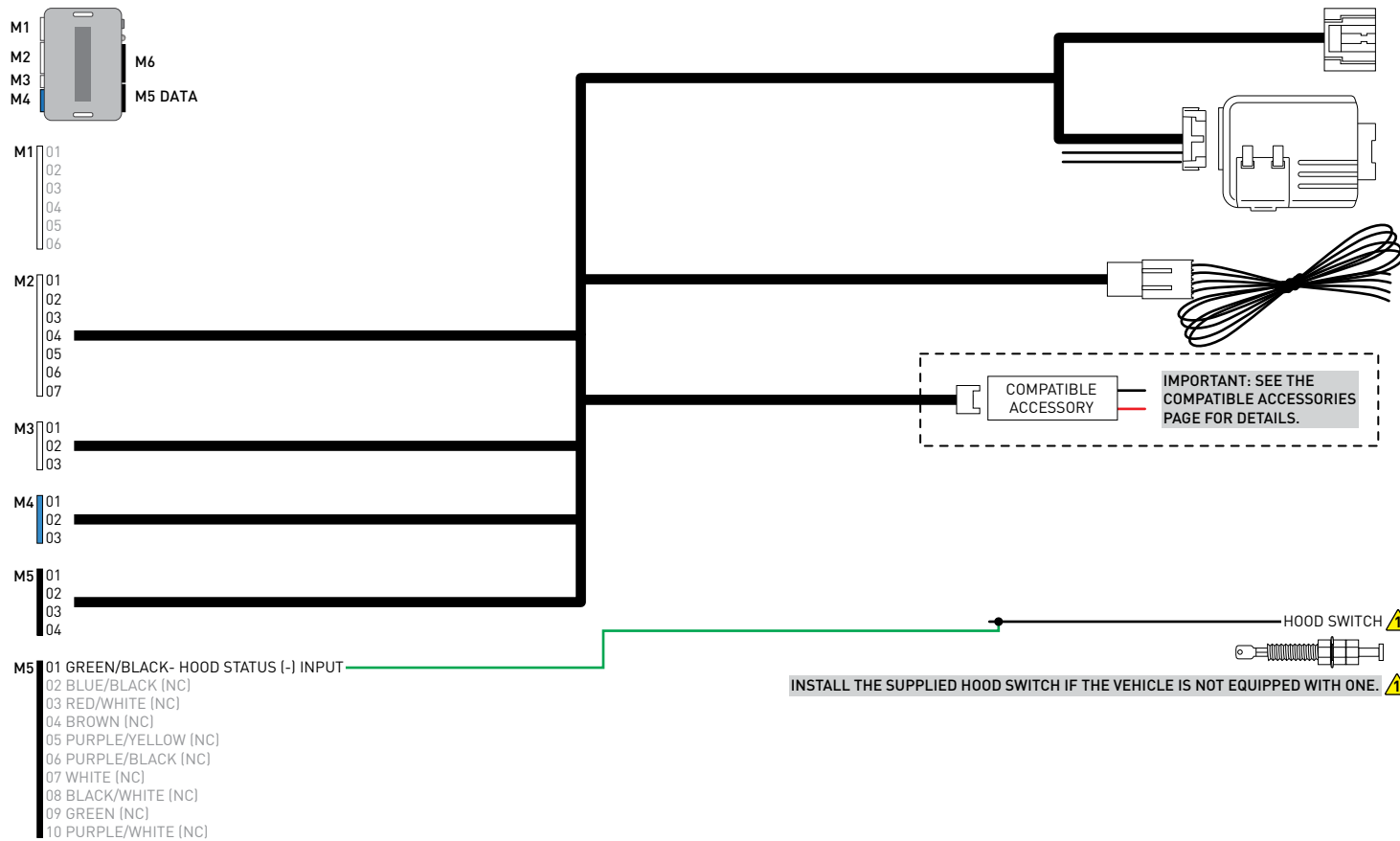
MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
CHRYSLER	300	05-07	Mux	C1	Black	5 pin	2	Purple/Brown	(MUX)	Ignition switch	~
			Starter	C1	Black	5 pin	4	Pink/DkGreen	(+)	Ignition switch	~
	PT Cruiser	06-10	Mux	C1	Black	5 pin	2	Purple/Brown	(MUX)	Ignition switch	~
			Starter	C1	Black	5 pin	4	Pink/LtBlue	(+)	Ignition switch	~
DODGE	Caliber with start wire	07	Mux	C1	Black	5 pin	2	Purple/Brown	(MUX)	Ignition switch	~
			Starter	C1	Black	5 pin	4	Pink/DkGreen	(+)	Ignition switch	~
	Charger	06-07	Mux	C1	Black	5 pin	2	Purple/Brown	(MUX)	Ignition switch	~
			Starter	C1	Black	5 pin	4	Pink/DkGreen	(+)	Ignition switch	~
	Magnum	05-07	Mux	C1	Black	5 pin	2	Purple/Brown	(MUX)	Ignition switch	~
			Starter	C1	Black	5 pin	4	Pink/DkGreen	(+)	Ignition switch	~
JEEP	Commander	06-07	Mux	C1	Black	5 pin	2	Purple/Brown	(MUX)	Ignition switch	~
			Starter	C1	Black	5 pin	4	Pink/Orange	(+)	Ignition switch	~
	Grand Cherokee	05-07	Mux	C1	Black	5 pin	2	Purple/Brown	(MUX)	Ignition switch	~
			Starter	C1	Black	5 pin	4	Pink/Orange	(+)	Ignition switch	~

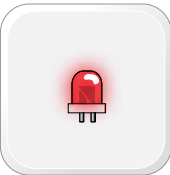


MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
CHRYSLER	200	11-14	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(MUX)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Red	(+)	Ignition switch	~
	Aspen	07-10	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(MUX)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink/Gray	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Red	(+)	Ignition switch	~
	Sebring	07-10	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(MUX)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Red	(+)	Ignition switch	~
DODGE	Avenger	08-14	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(MUX)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Red	(+)	Ignition switch	~
	Caliber	07-12	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White/Pink	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(MUX)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink/White	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Red/LtBlue	(+)	Ignition switch	~
	Durango	07-10	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White/LtBlue	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(MUX)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink/Gray	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Red	(+)	Ignition switch	~
	Nitro	07-11	CanH	~	~	8 pin	6	White/LtGreen	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(MUX)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink/White	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Red	(+)	Ignition switch	~

MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
DODGE	Ram Pickup	07-10	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(MUX)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink/White	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Gray/Red	(+)	Ignition switch	~
JEEP	Compass	07-17	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White/Pink	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(MUX)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink/White	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Red/LtGreen	(+)	Ignition switch	~
	Liberty	08-12	CanH	~	~	8 pin	6	White/Black	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White/Blue	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(MUX)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink/White	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Red	(+)	Ignition switch	~
	Patriot	07-17	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White/Pink	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(MUX)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink/White	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Red/LtGreen	(+)	Ignition switch	~
	Wrangler JK STD Key AT	07-18	CanH	~	~	8 pin	6	White/Black	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White/LtBlue	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(MUX)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink/White	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Red	(+)	Ignition switch	~
RAM	Pickup	10	CanH	~	~	8 pin	6	White/Orange	(DATA)	Ignition switch	~
			CanL	~	~	8 pin	7	White	(DATA)	Ignition switch	~
			Mux	~	~	8 pin	1	Purple/Brown	(MUX)	Ignition switch	~
			Ignition	~	~	8 pin	3	Pink/White	(+)	Ignition switch	~
			12V	~	~	8 pin	5	Gray/Red	(+)	Ignition switch	~





- 01  Close driver door.
- 02  Re-open driver door to wake up data bus.
- 03  Insert key into ignition.
- 04  Turn key to ON position.
- 05  LED will turn solid RED.
- 06  Within 5 seconds, LED will flash GREEN rapidly.

- 07  Turn key to OFF position.
- 08  Remove key.
- 09  Press UNLOCK on the OEM remote. If vehicle is not equipped with OEM remote, press module programming button.
- 10  Wait, LED will turn solid GREEN for 2 seconds.
- 11  Module Programming Procedure completed.

>>



NOTE: In Valet Mode, the Remote starter is not functional. Keyless entry, Lock and Unlock will remain functional. See RF kit user manual for alternate valet mode programming.

01



Time restriction. Complete next step within 7 seconds.

02



Cycle ignition ON five times [5x OFF/ON] rapidly.

03



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

04



Set ignition to OFF position.

05



Valet Mode Programming Procedure completed.

>>

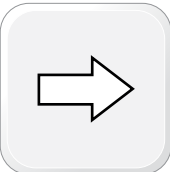


To exit valet mode: repeat steps 1 to 5.

AFTERMARKET REMOTE PROGRAMMING: NOTES	
I All aftermarket remotes must be programmed to the RF-Kit. Refer to the RF-Kit user guide for aftermarket remote features and programming procedures.	

>>  It is mandatory to exit the Module Navigation at the end of this procedure. Failure to exit the Module Navigation will drain vehicle battery. To exit the Module Navigation at any time: Follow STEP 13.

>>  Module must be programmed to the vehicle.

>>  Use the Module Navigation Chart on the next page.

01  Set ignition to OFF position.

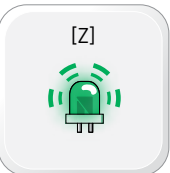
02  TO ACCESS THE MENUS: Press and hold programming button until LED 1 turns solid GREEN.

03  IN THE MENUS: Press the programming button as many times as the menu number indicates. LED 1 will flash GREEN an equal amount of times continuously.

04  TO ACCESS THE OPTIONS: Press and hold programming button until LED 1 turns solid RED.

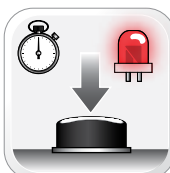
05  IN THE OPTIONS: Press the programming button as many times as the option number indicates. LED 1 will flash RED an equal amount of times continuously.

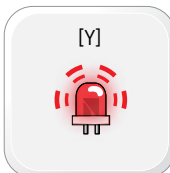
06  TO ACCESS THE SETTINGS: Press and hold programming button until LED 1 turns solid GREEN.

07  LED 1 will flash GREEN as many times as the current (or default) setting number, continuously.

08  IN THE SETTINGS: Press the programming button as many times as necessary to access your setting. LED 1 will flash GREEN an equal amount of times continuously.

09  To return to the MENUS: exit the Module Navigation and redo the Module Navigation Procedure.

10  To save and return to the OPTIONS: Press and hold programming button until LED 1 turns solid RED.

11  LED 1 will flash RED as many times as the current option number continuously.

12  Configure every other setting and proceed to step 13.

13  MANDATORY: EXIT MODULE NAVIGATION. Press and hold programming button for 7 seconds. LED 1 will flash RED rapidly. Release programming button. LED 1 will turn OFF.

14  Module navigation completed.

>>  Failure to exit the Module Navigation will drain vehicle battery.

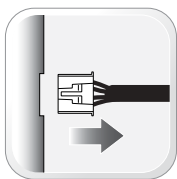
MODULE NAVIGATION CHART: NOTES	[X] MENUS	[Y] OPTIONS	[Z] SETTINGS
I Default settings are listed in bold. II Make sure the option is covered on the vehicle before attempting to change the setting.	01	CONFIGURATION	01 DISARM/UNLOCK BEFORE START
			02 ON
			01 RELOCK AFTER START
			02 ON
			01 RELOCK AFTER SHUTDOWN
			02 ON
			01 FORCE UNLOCK ALL ON FIRST PRESS
			02 ON
			01 TAKEOVER
			02 DISABLE*
			01 45 SEC
			02 90 SEC
			03 03 MIN
			04 04 MIN
			01 FACTORY KEYLESS RS SEQUENCE
			02 N/A
			03 LOCK + UNLOCK + LOCK
			04 LOCK + LOCK + LOCK
			01 03 MIN
			02 05 MIN
			03 10 MIN
			04 15 MIN
			05 25 MIN
			06 30 MIN
			07 35 MIN
			08 15 MIN
			01 02 SEC
			02 05 SEC
			03 08 SEC
			04 10 SEC
			05 15 SEC
			06 20 SEC
			07 25 SEC
			08 30 SEC
		10-12 N/A	01 N/A
	02-07	Technical Support only	01 N/A

*Vehicle will shutdown when a door is opened.

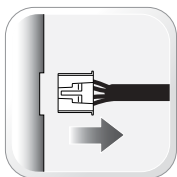
REMOTE STARTER ERROR CODES: NOTES	PARKING LIGHT FLASHES	DIAGNOSTIC
I WARNING: The following applies only when the parking lights are connected and supported by the system. II After a remote starter failure, the parking lights will flash [X] number times to indicate an error code. See table.	03	Foot brake is ON.
	04	Hood is open.
	05	Vehicle failed to remote start.
	06	System is in Valet Mode.
	07	Vehicle movement detected (VSS).
	08	Glow plug timeout error.
	09	RS not synchronized. Start vehicle with OEM key for 15 sec before trying a new RS sequence.
	10	Low fuel level.
	11	Emergency brake signal was lost.
	12	Door is open.
	13	Trunk is open.
	14	Vehicle movement detected (VSS).
	15	Key is in ignition ON position.
	16	CAN communication failure during RS sequence.

TEST MODULE		LED 1 STATUS	DIAGNOSTIC
I	DURING PROGRAMMING	Flashing RED	Missing/wrong information from firmware or vehicle.
		Solid RED	Module waiting for more vehicle information.
		Flashing GREEN	Additional steps required to complete module programming.
		Solid GREEN then OFF	Module correctly programmed.
		OFF	No activity or module already programmed.
II	DURING REMOTE START	Flashing RED	Module incorrectly programmed.
		Solid RED	Module incorrectly programmed.
		Flashing GREEN	Module correctly programmed and operational.
		Solid GREEN then OFF	Reset in progress.
		OFF	Invalid ground when running status from remote starter.
III	WITH IGNITION OFF	Flashing RED	Module incorrectly programmed or connected.
		Solid RED	Module not programmed. Waiting for more vehicle information.
		Flashing GREEN	False ground when running status from remote starter.
		Solid GREEN then OFF	Reset in progress.
		OFF	Module at rest and ready for a remote start sequence.

- 01** Disconnect all connectors from module except the BLACK 4-PIN connector.



- 02** Disconnect the BLACK 4-PIN connector.



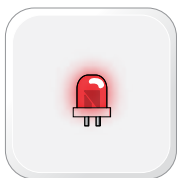
- 03** PRESS AND HOLD programming button while connecting the BLACK 4-PIN connector.



- 04** Wait, LED 1 will flash RED. RELEASE programming button.



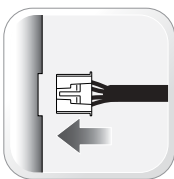
- 05** LED 1 will turn RED for 2 seconds.



- 06** Module RESET completed.



- 07** Reconnect all connectors.



- 08** Repeat programming procedure.



- >>** Failure to follow procedure may result with a DTC or a CHECK ENGINE error message.



>>



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

>>



Failure to follow procedure will result in vehicle engine shutdown.

01



Press unlock on OEM or aftermarket remote.

02



Insert key into ignition.

03



Turn key to ON position.

04



Press and release BRAKE pedal.

05



Take over procedure completed.

CHECKLIST

1	WARNING: Vehicle engine will start many times. Test in a well ventilated area.	9	Press the START/STOP button once [1x] on the aftermarket keyfob to shut down vehicle.
2	Close all vehicle doors, hood and trunk.		Question 7: Does the vehicle shut down?
3	Press the LOCK button once [1x] on the aftermarket keyfob.	☐	YES: Go to next step.
	Question 1: Do the doors lock?	☐	NO: Repeat step. If problem persists, press the brake pedal once [1x] to shut down the vehicle and call technical support.
☐	YES: Go to next step.	10	RAP and auto light shutdown test
	NO: Verify the remote programming, the RF connections and the wired door lock/unlock connections as illustrated in the wiring diagram, if applicable. Repeat the test and call technical support, if the problem persists.		Question 8: Did the radio, interior controls and headlights turn off within 60 seconds after remote start shutdown?
4	Press the UNLOCK button once [1x] on the aftermarket keyfob.	☐	YES: Go to next step.
	Question 2: Do the doors unlock?	☐	NO: Verify the RAP SHUTDOWN connections as illustrated in the wiring diagram. Repeat the test and call technical support if the problem persists.
☐	YES: Go to next step.	11	Open hood.
	NO: Verify the remote programming, the RF connections and the wired door lock/unlock connections as illustrated in the wiring diagram, if applicable. Repeat the test and call technical support, if the problem persists.	12	If not already installed, affix the mandatory orange warning sticker under the hood and proceed to next step.
5	Press the TRUNK release button once [1x] on the aftermarket keyfob if supported.	13	Press the START/STOP button once [1x] on the aftermarket keyfob to remote start vehicle.
	Question 3: Does the trunk or hatch open/unlock?		Question 9: Does the vehicle remote start?
☐	YES: Close trunk or hatch and go to next step.	☐	YES: The vehicle is not equipped with a factory hood pin. Install a mandatory aftermarket hood switch, then repeat the test.
	NO: Verify the remote programming, the RF connections and the wired trunk/hatch connections as illustrated in the wiring diagram, if applicable. Repeat the test and call technical support, if the problem persists.	☐	NO: Go to next step.
6	Press the AUX 1 button once [1x] on the aftermarket keyfob if supported.	14	Close hood.
	Question 4: Does the driver side sliding door open?	15	Enter vehicle and close the doors.
☐	YES: Press the AUX 1 button once [1x] to close the driver sliding door and go to next step.	16	Press the START/STOP button once [1x] on the aftermarket keyfob to remote start vehicle.
	NO: Verify the remote programming and the RF connections. Repeat the test and call technical support, if the problem persists.	17	Wait for the vehicle to start.
7	Press the AUX 2 button once [1x] on the aftermarket keyfob if supported.	18	Press brake pedal.
	Question 5: Does the passenger side sliding door open?		Question 10: Does the vehicle shut down?
☐	YES: Press the AUX 2 button once [1x] to close the passenger sliding door and go to next step.	☐	YES: Go to next step.
	NO: Verify the remote programming and the RF connections. Repeat the test and call technical support, if the problem persists.	☐	NO: The module does NOT detect the brake pedal signal. Press the START/STOP button once [1x] on the aftermarket keyfob to shut down vehicle, check connection as illustrated in the wiring diagram, if applicable, and call technical support.
8	Press the START/STOP button once [1x] on the aftermarket keyfob to remote start vehicle.	19	Exit vehicle.
	Question 6: Does the vehicle remote start?	20	Installation checklist completed.
☐	YES: Go to next step.		
	NO: Verify the remote programming, the RF connections and check the remote start error codes. Repeat the test and call technical support, if the problem persists.		