



# INSTALL GUIDE

## FLC-CH(RS)-CH8-[FLRSCH7]-EN

**DOCUMENT NUMBER**  
45145

**REVISION DATE**  
20171018

**FIRMWARE**  
FLC-CH(RS)-CH8-[FLRSCH7]

**HARDWARE**  
FLRSCH7

**ACCESSORIES**  
FLPROG (REQUIRED)  
FLRF1/2/4 (OPTIONAL)  
CARLINK ASCL2 (OPTIONAL)



**NOTICE** The manufacturer will accept no responsibility for any electrical damage resulting from improper installation of this product, be that either damage to the vehicle itself or to the installed device. This device must be installed by a certified technician. Please review the Installation Guide carefully before beginning any work.



### BEFORE INSTALLATION

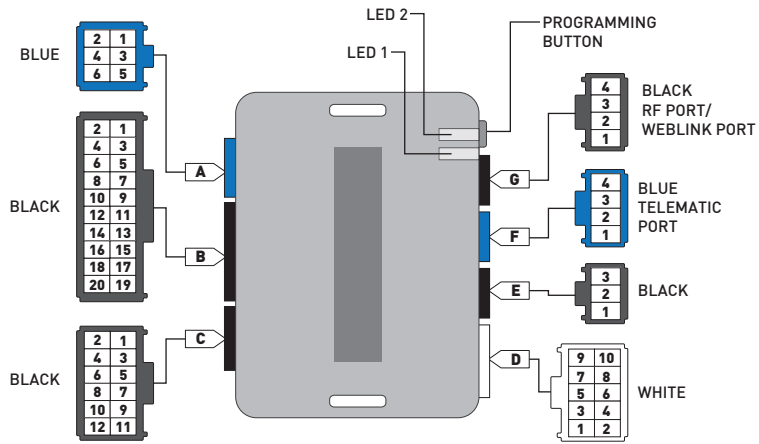
- 1- Connect module to computer
- 2- Login to Weblink account
- 3- Flash firmware to module (module is not preloaded with firmware)
- 4- Use accessories accordingly (accessories are sold separately)

MAKE	MODEL	YEAR	INSTALL TYPE	FEATURES													
				DATA IMMOBILIZER BYPASS	3X LOCK START/STANDALONE MOD.	DOOR LOCK	DOOR UNLOCK	ARM OEM ALARM	DISARM OEM ALARM	TRUNK/HATCH RELEASE	DOOR STATUS OUTPUT	TRUNK STATUS OUTPUT	BRAKE PEDAL STATUS OUTPUT	TACHOMETER OUTPUT	SECURE TAKEOVER	GLOW PLUGS STATUS	RAP SHUTDOWN CTRL
DODGE	Dart STD key (Tip-Start) AT	13-16	1	•		•	•	•	•	•	•	•	•	•	•	•	•
	1500 STD key (Tip-Start) AT	13-17	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•
RAM	1500 Diesel STD key (Tip-Start) AT	14-17	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	2500 / 3500 STD key (Tip-Start) AT	13-17	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	2500 / 3500 Diesel STD key (Tip-Start) AT	14-17	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•

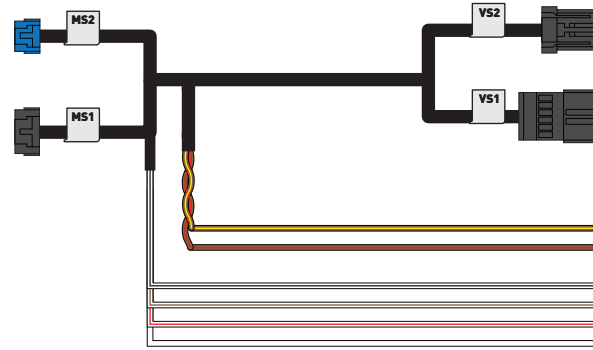
**NOTE**  
I WARNING: All vehicle doors must be closed and locked prior to remote start sequence.

**BOX CONTENTS**

**MODULE**



**T-HARNESS 1**



**10 PIN CONNECTOR**



**12 PIN CONNECTOR**



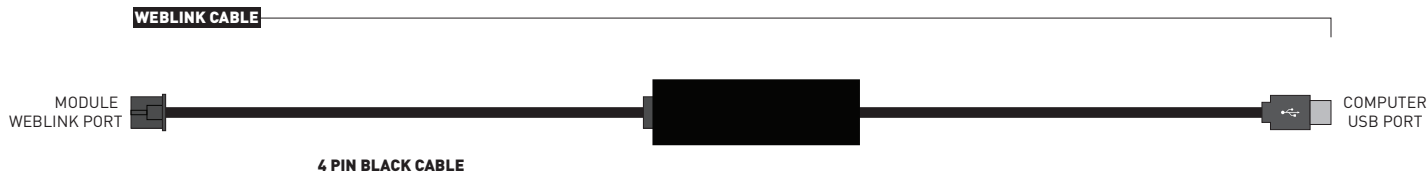
**AFTERMARKET HOOD SWITCH AND CABLE**



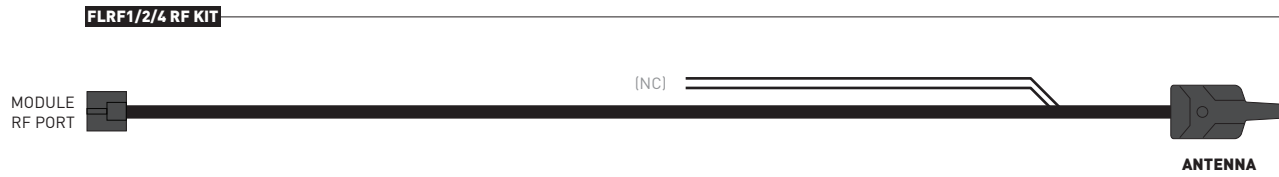
**WARNING STICKER**



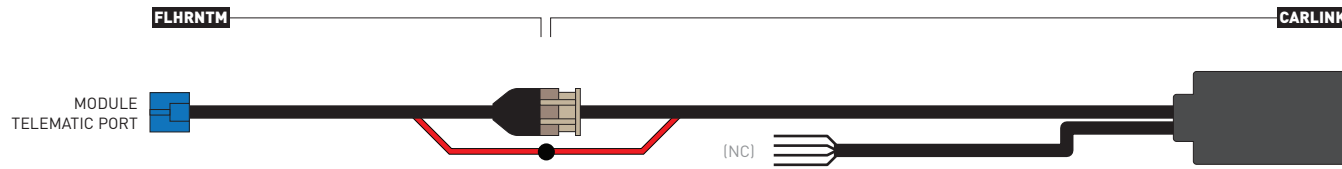
**WEBLINK CABLE (required accessory sold separately)**



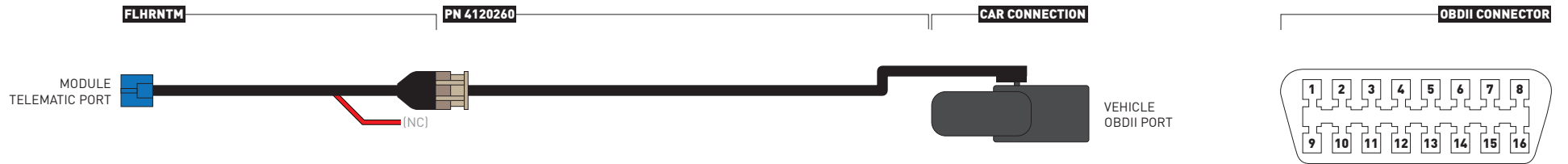
**RF KIT (accessories sold separately)**



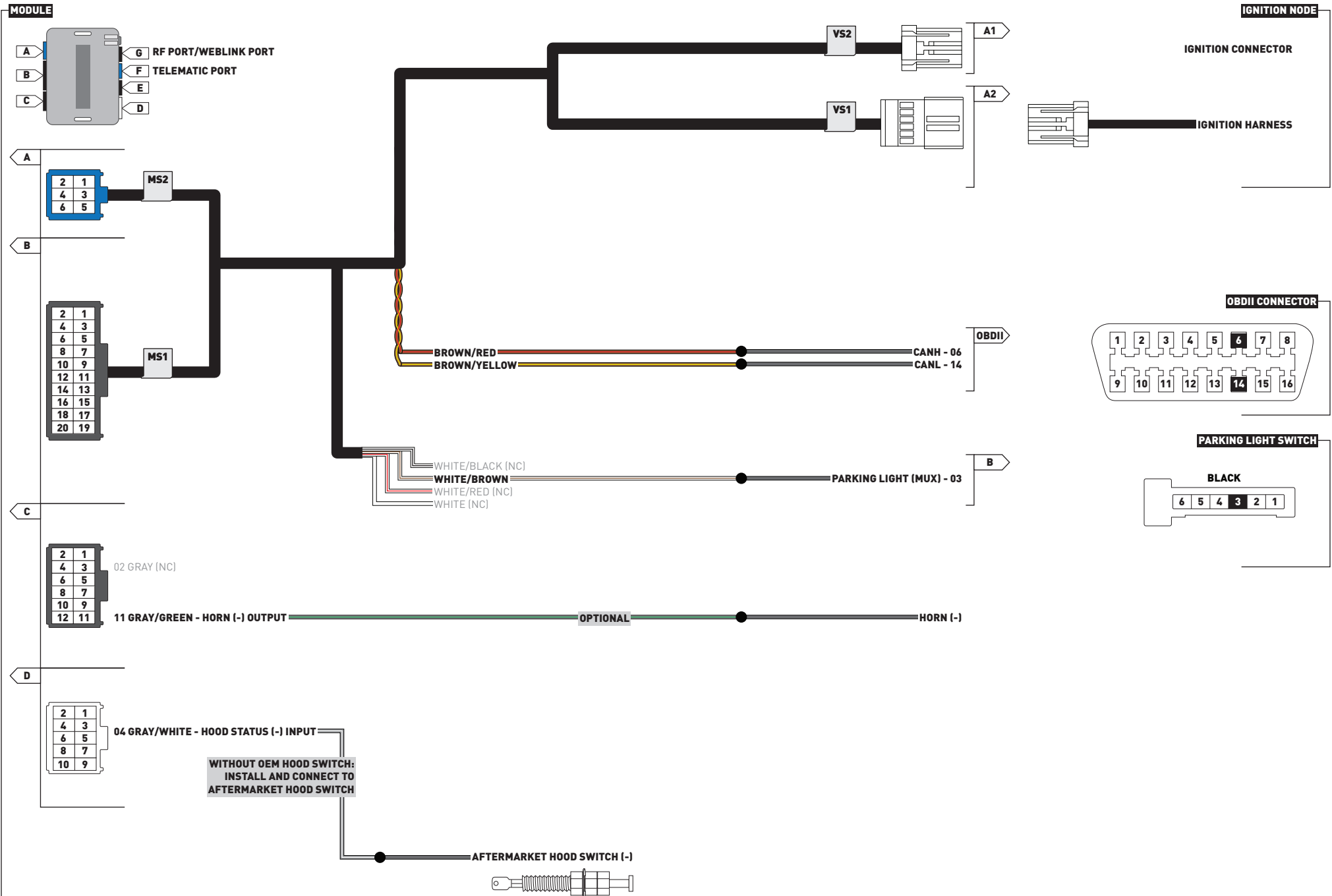
**TELEMATIC KIT (accessories sold separately)**



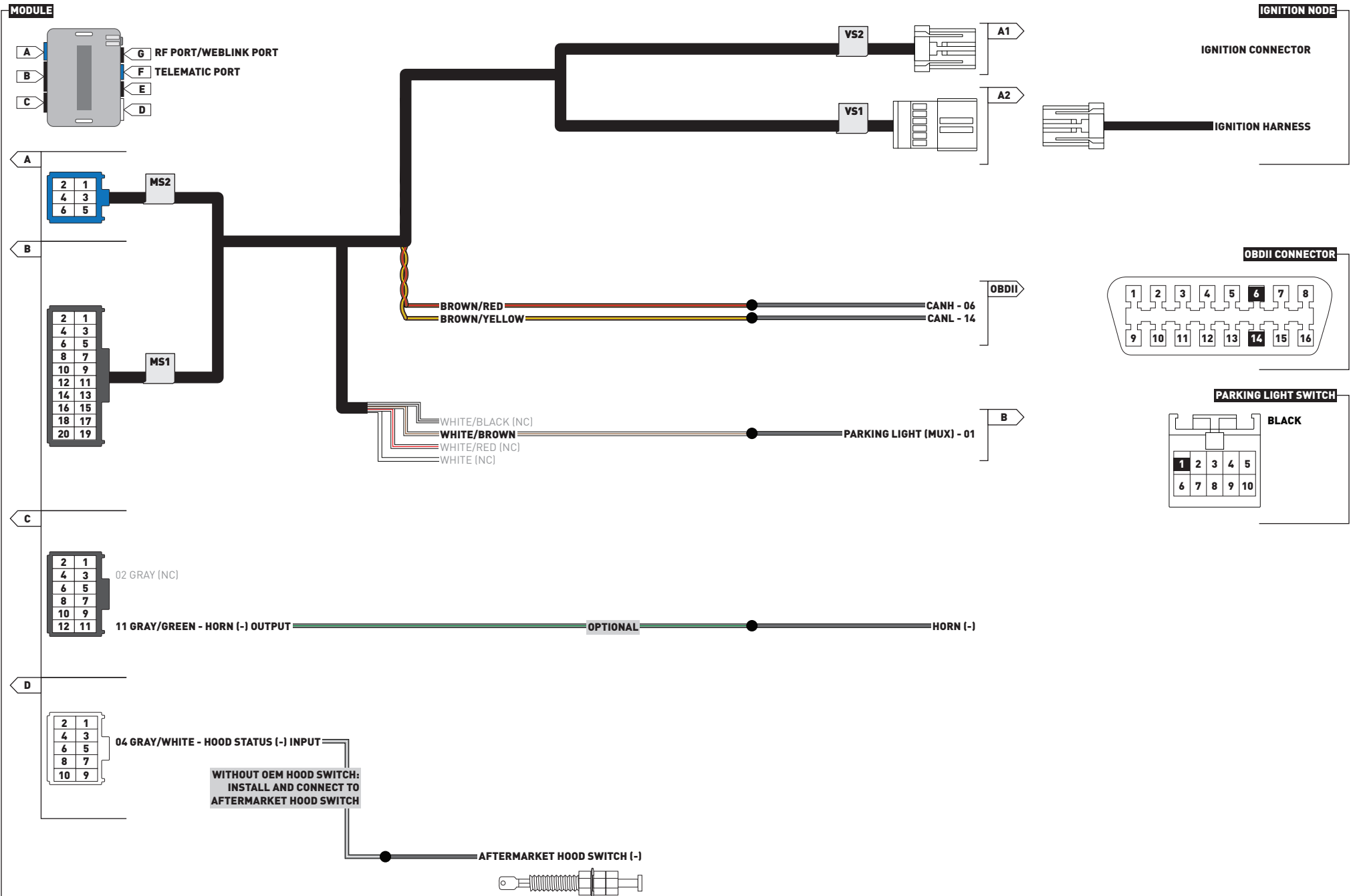
**TELEMATIC KIT (accessories sold separately)**




MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
DODGE	Dart STD key AT	13-16	CanH	~	Black	16 pin	06	Gray/White	(DATA)	OBDDII connector	~
			CanL	~	Black	16 pin	14	Yellow	(DATA)	OBDDII connector	~
			Parking Light	~	Black	06 pin	03	White/Brown	(MUX)	Parking light switch	A





MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
RAM	1500 / 1500 Diesel STD key	13-17	CanH	D7405A	Black	16 pin	06	Gray/White	(DATA)	OBDII connector	~
			CanL	D7405A	Black	16 pin	14	Yellow	(DATA)	OBDII connector	~
			Parking Light	D2242A	Black	10 pin	01	White/Brown	(MUX)	Parking light switch	A
	2500 / 2500 Diesel / 3500 /	13-17	CanH	D7405A	Black	16 pin	06	Gray/White	(DATA)	OBDII connector	~
			CanL	D7405A	Black	16 pin	14	Yellow	(DATA)	OBDII connector	~
			Parking Light	D2242A	Black	10 pin	01	White/Brown	(MUX)	Parking light switch	A





**01**  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 the module programming button.

**03**  Wait, LED will flash GREEN once [1x]. If LED does not flash GREEN, press Unlock on OEM remote again.


**04**  Turn key to ON position.


**05**  Wait, LED will turn solid RED.

**06**  Turn key to OFF position.

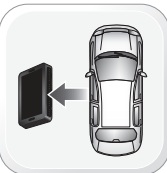
**07**  Remove key.


**08**  Insert key into ignition.

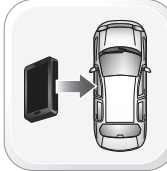
**09**  Turn key to ON position.

**10**  Wait, LED will flash GREEN.


**11**  Turn key to OFF position.

**12**  **WARNING:** Disconnect power last. Disconnect module from vehicle.

**13**  Connect module to computer and proceed with extended programming.

**14**  **WARNING:** Do not press module programming button. Connect power first. Connect module to vehicle.

**15**  Turn key to ON position.

**16**  Wait, LED will turn solid GREEN for 2 seconds.

**17**  Turn key to OFF position.

**18**  Turn key to START position.

19



Turn key to OFF position.

20



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.


>>

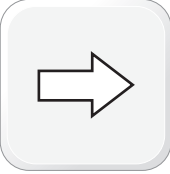


To exit valet mode: repeat steps 1 to 5.


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


>>  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.

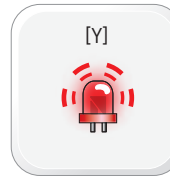
06  TO ACCESS THE SETTINGS: Press and hold programming button until LED 1 turns solid GREEN.


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		
		01 DISARM/UNLOCK BEFORE START	01 <b>OFF</b>
			02 ON
		02 RELOCK AFTER START	01 <b>OFF</b>
			02 ON
		03 RELOCK AFTER SHUTDOWN	01 <b>OFF</b>
			02 ON
		04 FORCE UNLOCK ALL ON FIRST PRESS	01 <b>OFF</b>
			02 ON
		05 TAKEOVER	01 <b>ENABLE</b>
			02 <b>DISABLE*</b>
		06 N/A	01 N/A
		07 N/A	01 N/A
08 MODULE RUN TIME	01 03 MIN		
	02 05 MIN		
	03 10 MIN		
	04 15 MIN		
	05 25 MIN		
	06 30 MIN		
	07 35 MIN		
	08 <b>15 MIN</b>		
09 WAIT TO START DELAY	01 <b>02 SEC</b>		
	02 05 SEC		
	03 08 SEC		
	04 10 SEC		
	05 15 SEC		
	06 20 SEC		
	07 25 SEC		
	08 30 SEC		
10 N/A	01 N/A		
11 N/A	01 N/A		
12 N/A	01 N/A		
13 N/A	01 N/A		

\*Vehicle will shutdown when a door is opened.

MODULE NAVIGATION CHART: NOTES	[X] MENUS	[Y] OPTIONS	[Z] SETTINGS
	01 CONFIGURATION	14 HORN EVENT TRIGGER	<b>01 DOUBLE LOCK</b> 02 LOCK + UNLOCK 03 LOCK + UNLOCK + START 04 DOUBLE LOCK + START
		15 HORN CHIRPS WIDTH	<b>01 30 mSEC</b> 02 15 mSec 03 60 mSec
	02-07 Technical Support only	01 N/A	01 N/A

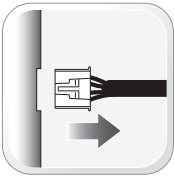
\*Vehicle will shutdown when a door is opened.

REMOTE STARTER ERROR CODES: NOTES	[X] NUMBER OF PARKING LIGHT FLASHES	DIAGNOSTIC
I WARNING: The following applies only when the parking lights are connected and supported by the system.	03	Foot brake is ON.
	04	Hood is open.
II After a remote starter failure, the parking lights will flash [X] number times to indicate an error code. See table.	05	Engine tach signal is lost.
	06	System is in Valet Mode.
	07	Vehicle is moving (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	N/A
	11	N/A
	12	N/A
	13	N/A
	14	N/A
	15	N/A
	16	CAN communication failure during RS sequence.

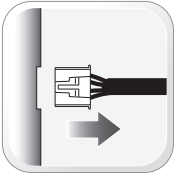


TEST MODULE		LED 1 STATUS	DIAGNOSTIC
I	DURING PROGRAMMING	Flashing RED	Missing/wrong information from firmware or vehicle.
		Solid RED	Module waiting for more vehicle information.
		Flashing GREEN	Additional steps required to complete module programming.
		Solid GREEN then OFF	Module correctly programmed.
		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 20-PIN connector.



**02** Disconnect the BLACK 20-PIN connector.



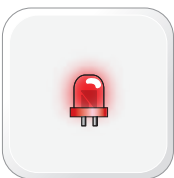
**03** PRESS AND HOLD the module's programming button while connecting the BLACK 20-PIN connector.



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



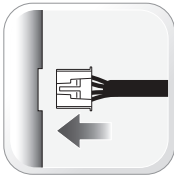
**05** LED 1 will turn RED for 2 seconds.



**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.

01



Time restriction. Complete steps 2 to 6 within 45 seconds.

02



Press unlock on OEM or aftermarket remote.

03



Open driver door and enter vehicle.

04



Close driver door.

05



Turn key to ON position.

06



Press and release BRAKE pedal.

07



Take over procedure completed.

>>



Failure to follow procedure will result in vehicle engine shutdown.

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