



INSTALL GUIDE

DIR-CH(RS)-CH8-[FLRSCH10]-EN

DOCUMENT NUMBER
54197

REVISION DATE
20180918

FIRMWARE
DIR-CH(RS)-CH8-[FLRSCH10]

HARDWARE
FLRSCH10

ACCESSORIES
FLPROG (REQUIRED)
DIRECTED XL-202 RF-KIT & ADS-HRN(RS)-XL02 (OPTIONAL)
DIRECTED SMARTSTART & ADS-HRN(RS)-SM01 (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

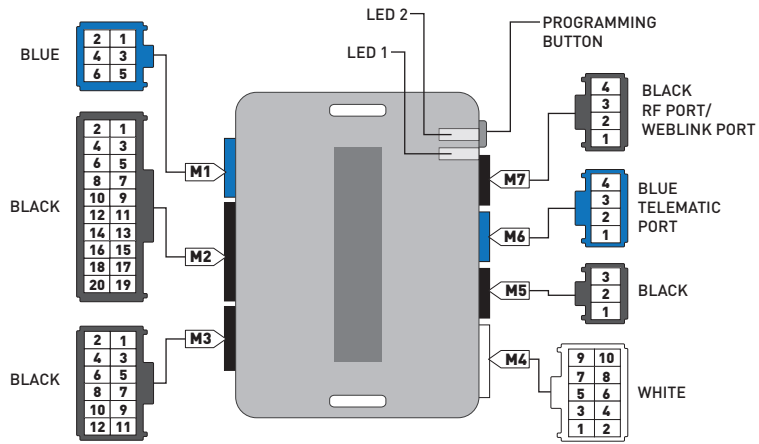
- 1- Connect module to computer
- 2- Login to Weblink account
- 3- Flash firmware to module (module is not preloaded with firmware)
- 4- Use accessories accordingly (accessories are sold separately)

MAKE	MODEL	YEAR	INSTALL TYPE	FEATURES													
				DATA IMMOBILIZER BYPASS	3X LOCK START/STANDALONE MOD.	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 / 2500 / 3500 STD key (Tip-Start) AT	13-17	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•
RAM	1500 / 2500 / 3500 STD key (Tip-Start) AT	18	3	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	1500 / 2500 / 3500 Diesel STD key (Tip-Start) AT	14-17	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	1500 / 2500 / 3500 Diesel STD key (Tip-Start) AT	18	3	•	•	•	•	•	•	•	•	•	•	•	•	•	•

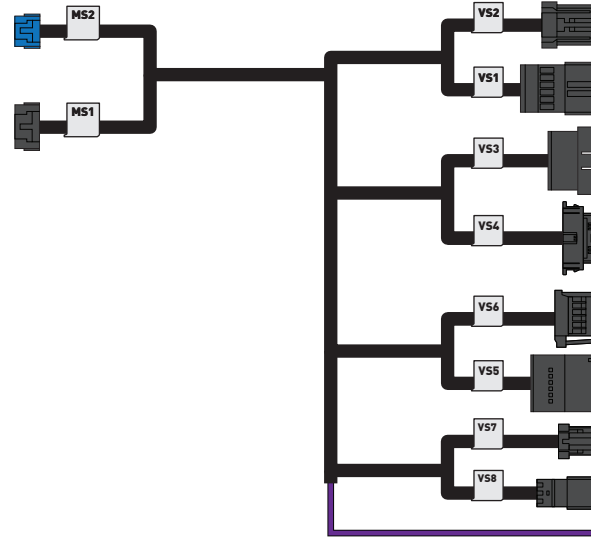
NOTE
I WARNING: All vehicle doors must be closed and locked prior to remote start sequence.

BOX CONTENTS

MODULE



T-HARNESS 1



10 PIN CONNECTOR



12 PIN CONNECTOR



AFTERMARKET HOOD SWITCH AND CABLE



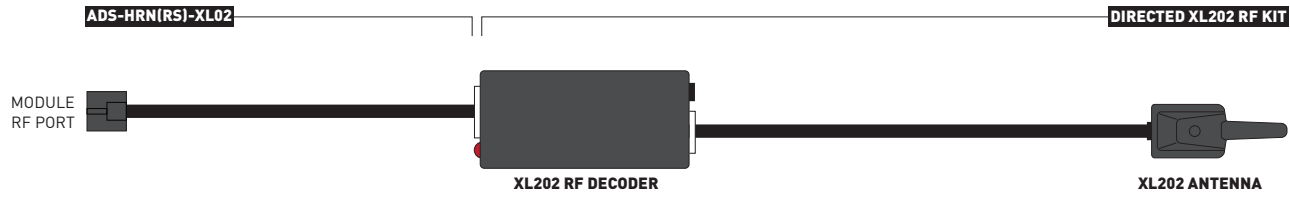
WARNING STICKER



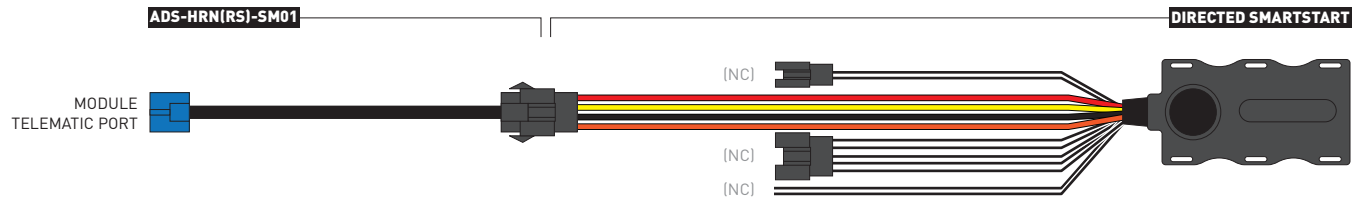
WEBLINK CABLE (required accessory sold separately)



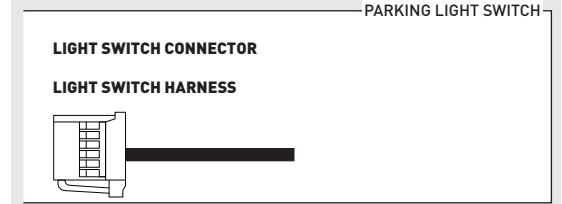
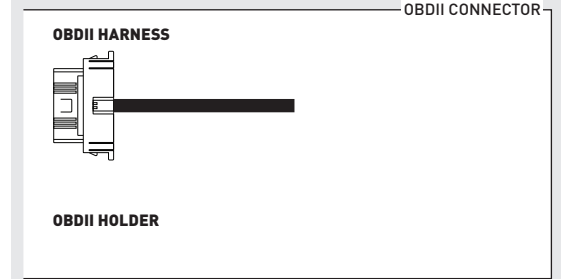
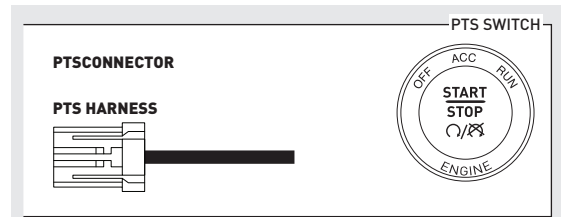
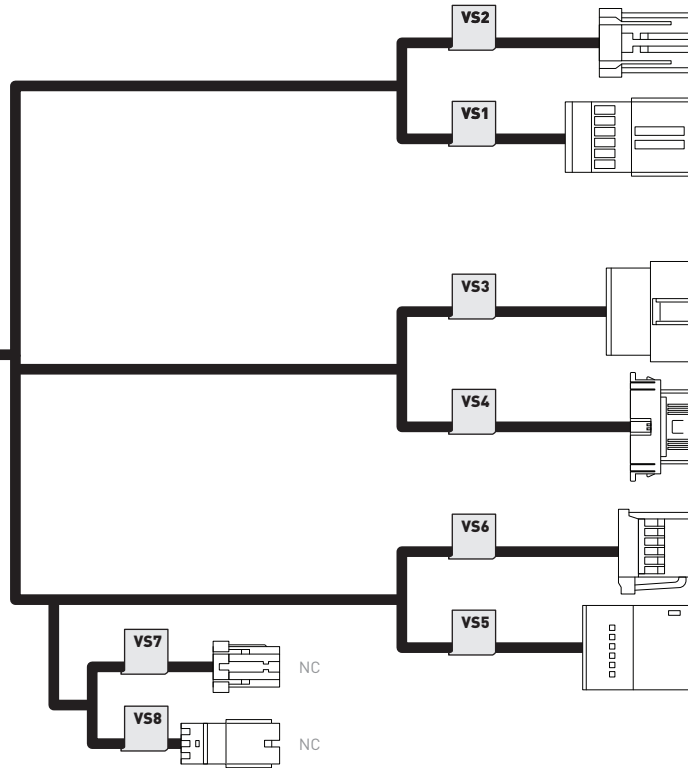
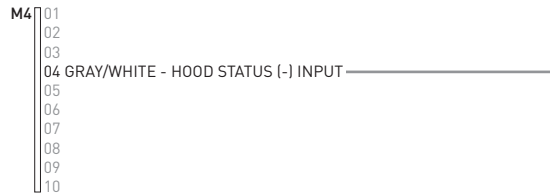
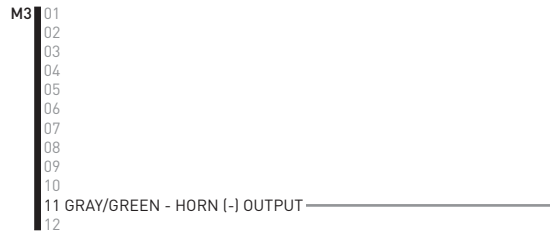
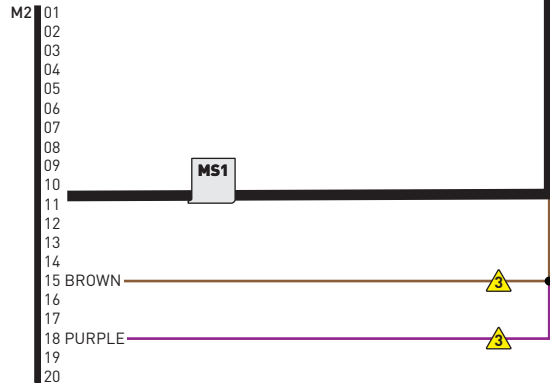
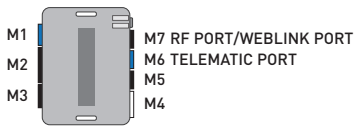
RF KIT (accessories sold separately)



TELEMATIC KIT (accessories sold separately)



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)	OBDII connector	~
			CanL	~	Black	16 pin	14	Yellow	(DATA)	OBDII connector	~
			Parking Light	~	Black	06 pin	03	White/Brown	(MUX)	Parking light switch	A



HORN (-) ⚠
OPTIONAL ⚠

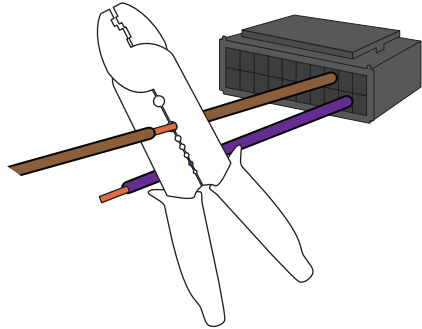
HOOD SWITCH ⚠

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

NOTE 1

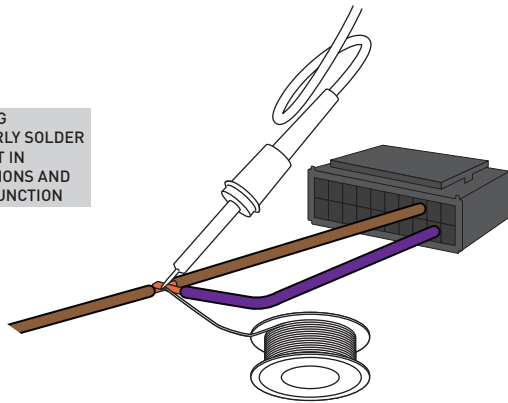
ONLY FOR
ADS-HRN(RS)-CHR10
VER1.20

- STEP 1:
- IDENTIFY THE PURPLE (PIN 18) AND BROWN (PIN 15) WIRES FROM THE 20 PIN BLACK CONNECTOR OF THE T-HARNESS.
 - CUT THE PURPLE WIRE.
 - CAREFULLY STRIP THE BROWN WIRE USING A WIRE STRIPPER.

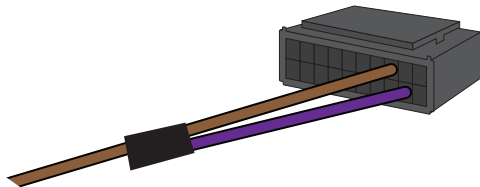


- STEP 2:
- CONNECT AND SOLDER THE PURPLE WIRE TO THE BROWN WIRE.

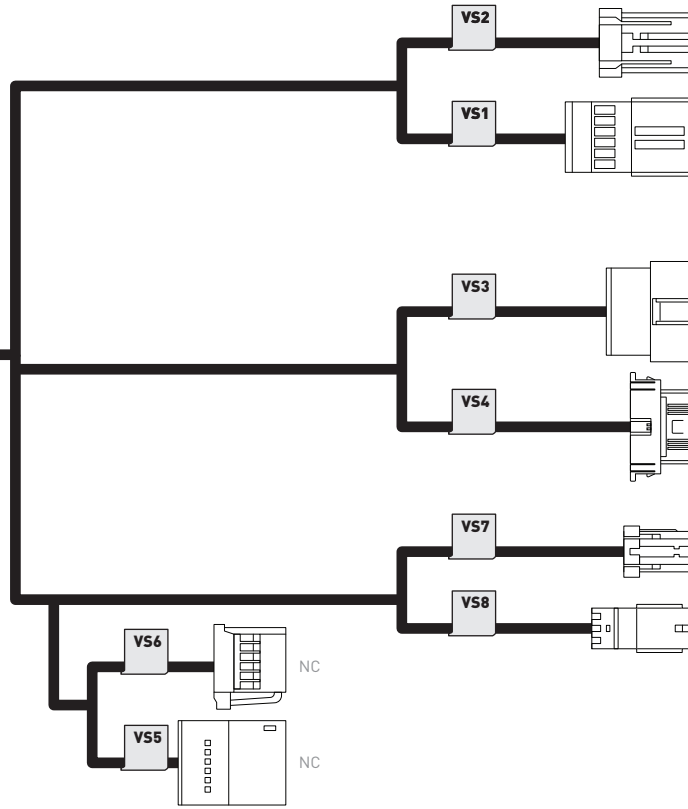
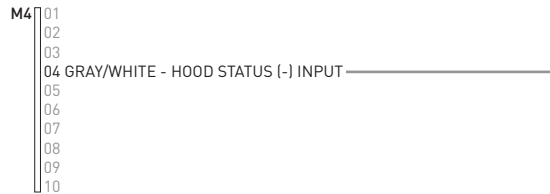
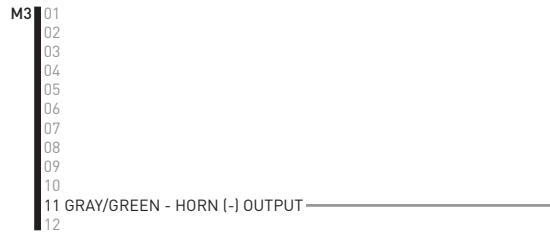
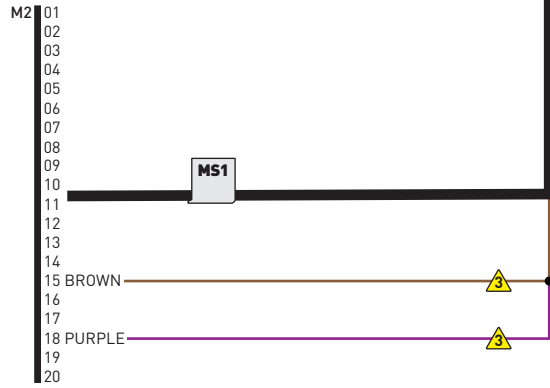
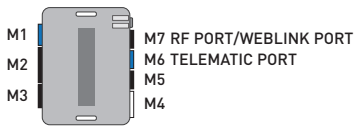
WARNING
FAILURE TO PROPERLY SOLDER
CAN RESULT IN
FAULTY CONNECTIONS AND
PRODUCT MALFUNCTION



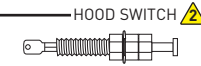
- STEP 3:
- INSULATE THE CONNECTIONS WITH ELECTRICAL TAPE.



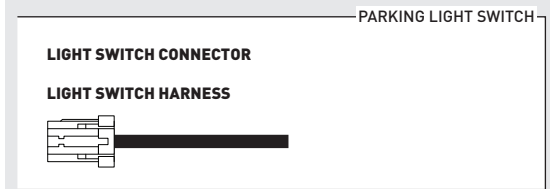
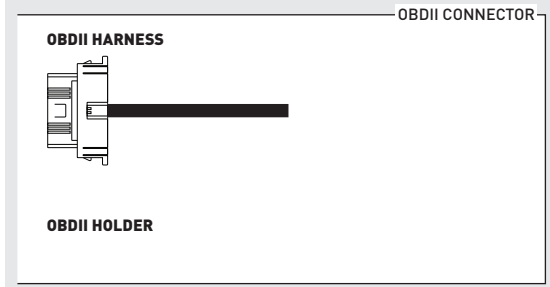
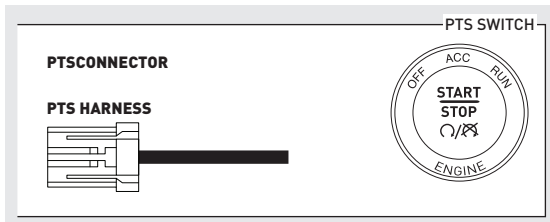
MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
RAM	1500 / 1500 Diesel STD key	13-17	CanH	D7405A	Black	16 pin	06	Gray/White	(DATA)	OBDII connector	~
			CanL	D7405A	Black	16 pin	14	Yellow	(DATA)	OBDII connector	~
			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



HORN (-) ⚠
OPTIONAL ⚠



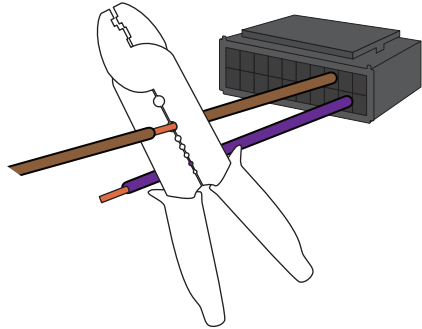
INSTALL THE SUPPLIED HOOD SWITCH IF THE VEHICLE IS NOT EQUIPPED WITH ONE. ⚠



NOTE 1

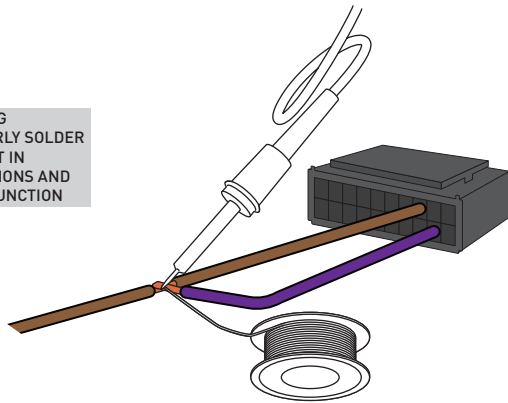
ONLY FOR
ADS-HRN(RS)-CHR10
VER1.20

- STEP 1:
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 - CUT THE PURPLE WIRE.
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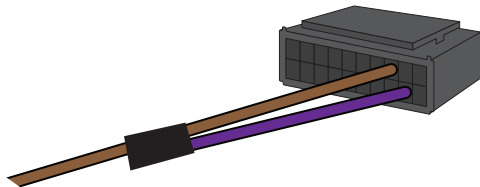


- STEP 2:
- CONNECT AND SOLDER THE PURPLE WIRE TO THE BROWN WIRE.

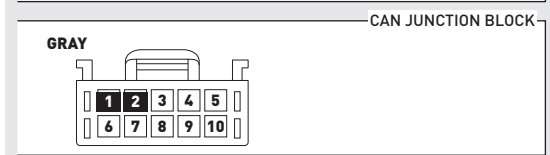
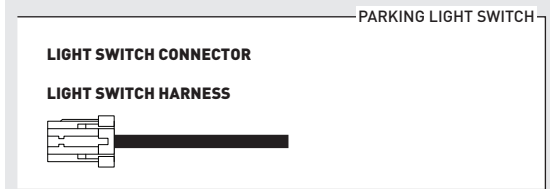
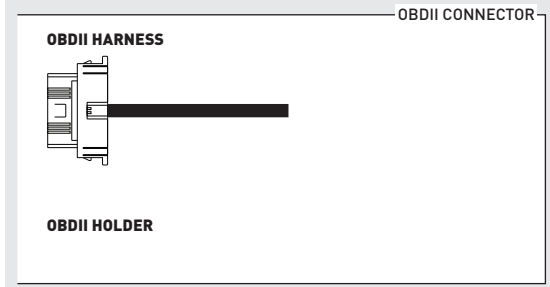
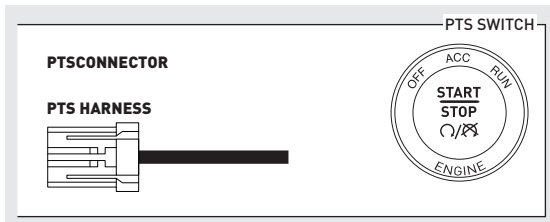
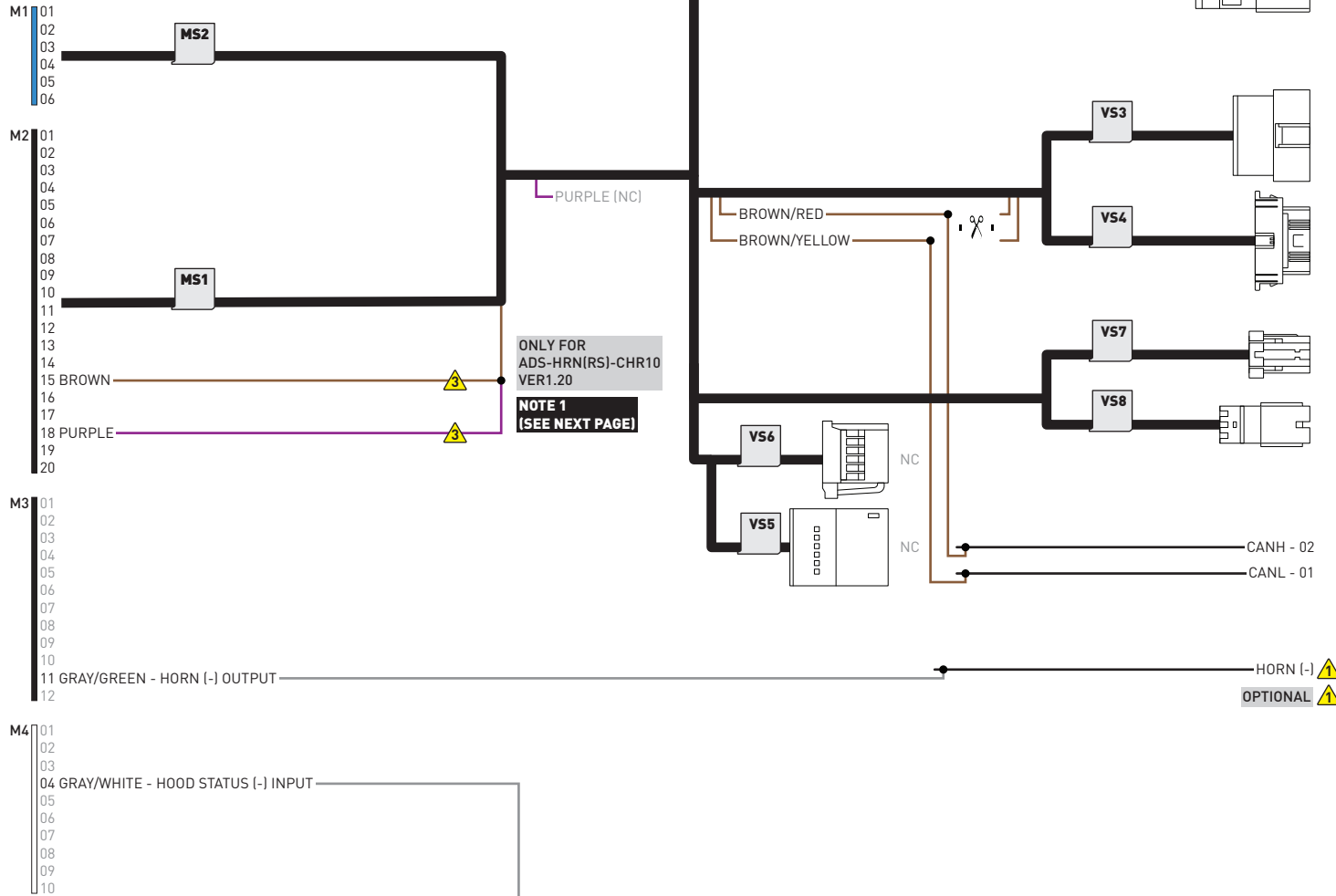
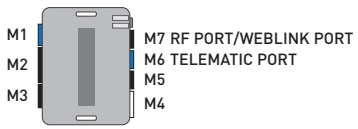
WARNING
FAILURE TO PROPERLY SOLDER
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- STEP 3:
- INSULATE THE CONNECTIONS WITH ELECTRICAL TAPE.



MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
RAM	1500 / 2500 / 3500 STD key AT	18	CanH	~	Gray	10 pin	02	Orange	(DATA)	Trailer module, right of steering column	~
			CanL	~	Gray	10 pin	01	Yellow	(DATA)	Trailer module, right of steering column	~
	1500 Diesel / 2500 Diesel / 3500 Diesel STD key AT	18	CanH	~	Gray	10 pin	02	Orange	(DATA)	Trailer module, right of steering column	~
			CanL	~	Gray	10 pin	01	Yellow	(DATA)	Trailer module, right of steering column	~



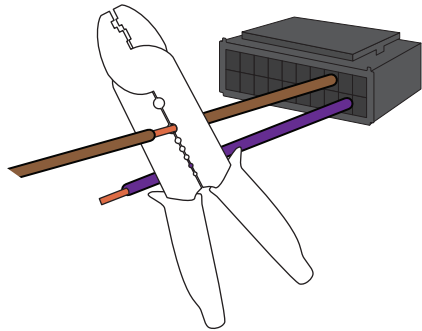
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NOTE 1

ONLY FOR
ADS-HRN(RS)-CHR10
VER1.20

STEP 1:

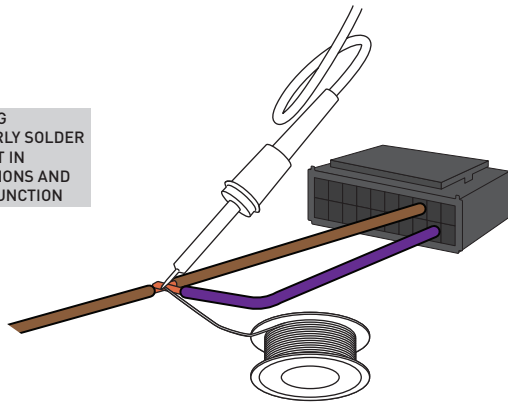
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STEP 2:

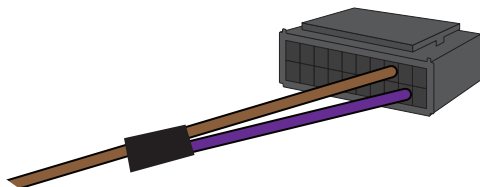
- CONNECT AND SOLDER THE PURPLE WIRE TO THE BROWN WIRE.


WARNING
FAILURE TO PROPERLY SOLDER
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STEP 3:

- INSULATE THE CONNECTIONS WITH ELECTRICAL TAPE.



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.

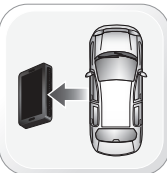
07  Remove key.


08  Insert key into ignition.

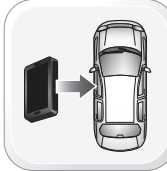
09  Turn key to ON position.

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.


>>

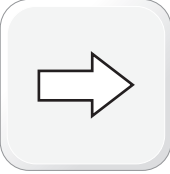


To exit valet mode: repeat steps 1 to 5.


AFTERMARKET REMOTE PROGRAMMING: NOTES	
<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.

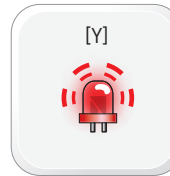
06  TO ACCESS THE SETTINGS: Press and hold programming button until LED 1 turns solid GREEN.


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 CONFIGURATION	01 DISARM/UNLOCK BEFORE START	01 OFF 02 ON
		02 RELOCK AFTER START	01 OFF 02 ON
		03 RELOCK AFTER SHUTDOWN	01 OFF 02 ON
		04 FORCE UNLOCK ALL ON FIRST PRESS	01 OFF 02 ON
		05 TAKEOVER	01 ENABLE 02 DISABLE*
		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 15 MIN
		09 WAIT TO START DELAY	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 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.

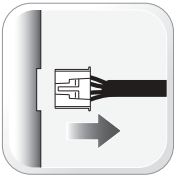
MODULE NAVIGATION CHART: NOTES	[X] MENUS	[Y] OPTIONS	[Z] SETTINGS								
	01 CONFIGURATION	14 HORN EVENT TRIGGER	<table border="1"> <tr><td>01</td><td>DOUBLE LOCK</td></tr> <tr><td>02</td><td>LOCK + UNLOCK</td></tr> <tr><td>03</td><td>LOCK + UNLOCK + START</td></tr> <tr><td>04</td><td>DOUBLE LOCK + START</td></tr> </table>	01	DOUBLE LOCK	02	LOCK + UNLOCK	03	LOCK + UNLOCK + START	04	DOUBLE LOCK + START
01	DOUBLE LOCK										
02	LOCK + UNLOCK										
03	LOCK + UNLOCK + START										
04	DOUBLE LOCK + START										
		15 HORN CHIRPS WIDTH	<table border="1"> <tr><td>01</td><td>30 mSEC</td></tr> <tr><td>02</td><td>15 mSec</td></tr> <tr><td>03</td><td>60 mSec</td></tr> </table>	01	30 mSEC	02	15 mSec	03	60 mSec		
01	30 mSEC										
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.

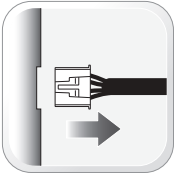
REMOTE STARTER ERROR CODES: NOTES	[X] NUMBER OF PARKING LIGHT FLASHES	DIAGNOSTIC
I WARNING: The following applies only when the parking lights are connected and supported by the system.	03	Foot brake is ON.
	04	Hood is open.
II After a remote starter failure, the parking lights will flash [X] number 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.



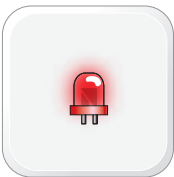
03 PRESS AND HOLD the module's programming button while connecting the BLACK 20-PIN connector.



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



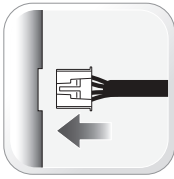
05 LED 1 will turn RED for 2 seconds.



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.
	Question 1: 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.
	Question 2: 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.
	Question 3: 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.
	Question 4: 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.
	Question 5: 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.
	Question 6: 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.
	Question 7: 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
	Question 8: 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.
	Question 9: 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.
	Question 10: 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.