FLASHLOGIC™
Powered by ADS

INSTALL GUIDE
OEM-CH(RS)-CH8-[FLRSCH10]-EN

DOCUMENT NUMBER
58012

REVISION DATE
20190114

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

HARDWARE
FLRSCH10

ACCESSORIES
FLPROG (REQUIRED)

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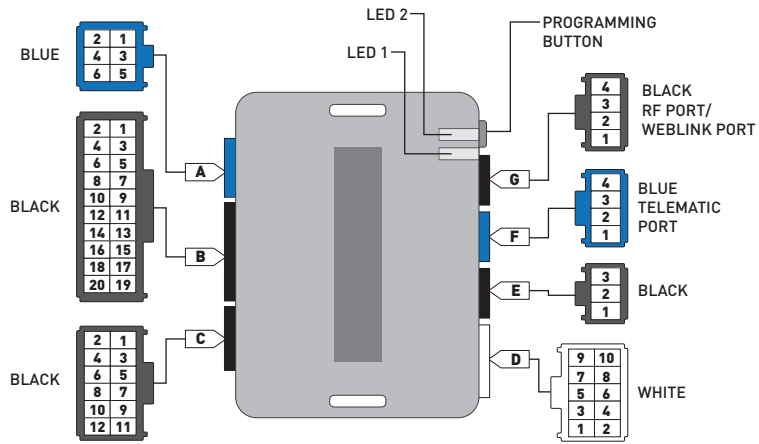1- Connect module to computer
2- Login to Weblink account
3- Flash firmware to module (module is not preloaded with firmware)
4- Use accessories accordingly (accessories are sold separately)

ADS
AUTOMOTIVE DATA SOLUTIONS

NOTE

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

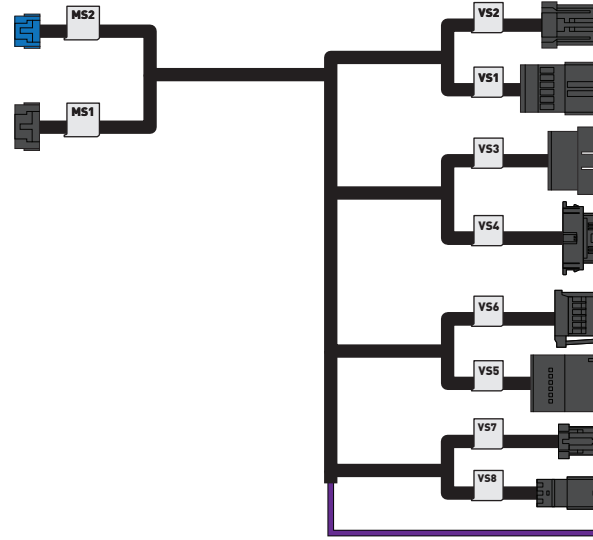| MAKE	MODEL	YEAR	INSTALL TYPE	DATA IMMOBILIZER BYPASS	3X LOCK START/STANDALONE MOD.	DOOR LOCK	DOOR UNLOCK	ARM OEM ALARM	DISARM OEM ALARM	TRUNK/HATCH RELEASE	DOOR STATUS OUTPUT	TRUNK STATUS OUTPUT	BRAKE PEDAL STATUS OUTPUT	TACHOMETER OUTPUT	SECURE TAKEOVER	GLOW PLUGS STATUS	RAP SHUTDOWN CTRL
DODGE	Dart STD key (Tip-Start) AT	13-16	1	•		•	•	•	•	•	•	•	•	•	•		•
RAM	1500 / 2500 / 3500 STD key (Tip-Start) AT	13-17	2	•	•	•	•	•	•		•		•	•	•		•
RAM	1500 / 2500 / 3500 STD key (Tip-Start) AT	18	3	•	•	•	•	•	•		•		•	•	•		•
RAM	1500 / 2500 / 3500 Diesel STD key (Tip-Start) AT	14-17	2	•	•	•	•	•	•		•		•	•	•	•	•
RAM	1500 / 2500 / 3500 Diesel STD key (Tip-Start) AT	18	3	•	•	•	•	•	•		•		•	•	•	•	•

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BOX CONTENTS

MODULE

BLUE

2	1
4	3
6	5

BLACK

2	1
4	3
6	5
8	7
10	9
12	11
14	13
16	15
18	17
20	19

A

B

BLACK

2	1
4	3
6	5
8	7
10	9
12	11

C

LED 2
LED 1
PROGRAMMING BUTTON

4
3
2
1

BLACK RF PORT/ WEBLINK PORT

G

4
3
2
1

BLUE TELEMATIC PORT

F

3
2
1

BLACK

E

D

9	10
7	8
5	6
3	4
1	2

WHITE

T-HARNESS 1
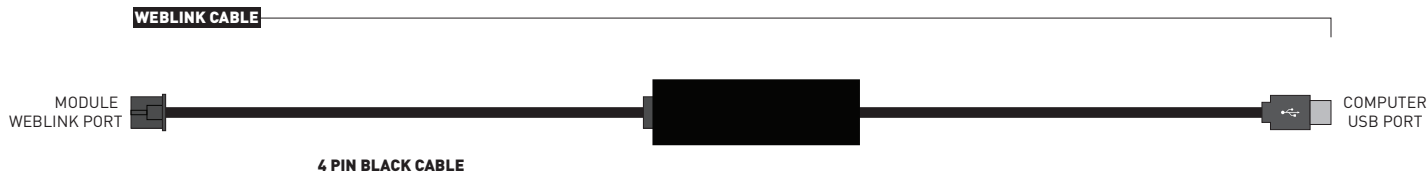
MS2
MS1

VS2
VS1
VS3
VS4
VS6
VS5
VS7
VS8

10 PIN CONNECTOR

12 PIN CONNECTOR

AFTERMARKET HOOD SWITCH AND CABLE

WARNING STICKER

WARNING!
THIS VEHICLE IS EQUIPPED WITH A REMOTE STARTER
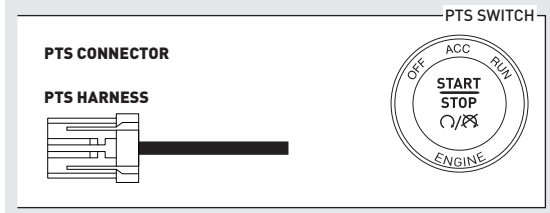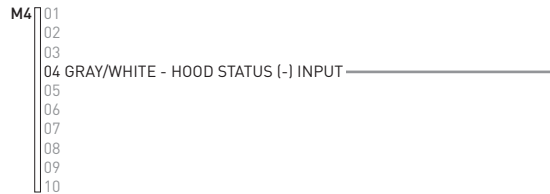DISABLE PRIOR TO VEHICLE MAINTENANCE

WEBLINK CABLE (required accessory sold separately)

WEBLINK CABLE

MODULE WEBLINK PORT

COMPUTER USB PORT

4 PIN BLACK CABLE

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

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TYPE 1 - WIRING DIAGRAM - 1 OF 2
(ADS-THR-CH10)

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M1
M2
M3

M7 RF PORT/WEBLINK PORT
M6 TELEMATIC PORT
M5
M4

M1
01
02
03 — MS2
04
05
06

M2
01
02
03
04
05
06
07
08
09
10 — MS1
11
12
13
14
15 BROWN
16
17
18 PURPLE
19
20

PURPLE (NC)

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

⚠3

NOTE 1
(SEE NEXT PAGE)

⚠3

VS2
VS1

VS3
VS4

VS6
VS5

VS7 NC
VS8 NC

M3
01
02
03
04
05
06
07
08
09
10
11 GRAY/GREEN - HORN (-) OUTPUT ———————————— HORN (-) ⚠1
12   OPTIONAL ⚠1

M4
01
02
03
04 GRAY/WHITE - HOOD STATUS (-) INPUT
05
06
07
08
09
10

HOOD SWITCH ⚠2

INSTALL THE SUPPLIED HOOD SWITCH IF THE VEHICLE IS NOT EQUIPPED WITH ONE. ⚠2

PTS SWITCH

PTS CONNECTOR

PTS HARNESS

OFF ACC RUN
START
STOP
⟳/✗
ENGINE

OBDII CONNECTOR

OBDII HARNESS

OBDII HOLDER

PARKING LIGHT SWITCH
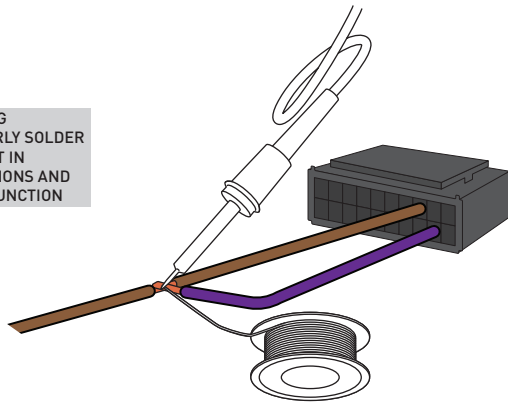
LIGHT SWITCH CONNECTOR

LIGHT SWITCH HARNESS

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.
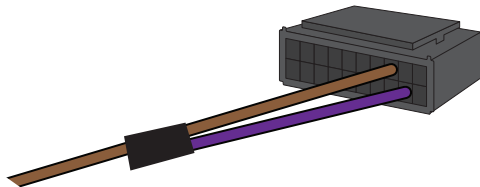-CAREFULLY STRIP THE BROWN WIRE USING A WIRE STRIPPER.
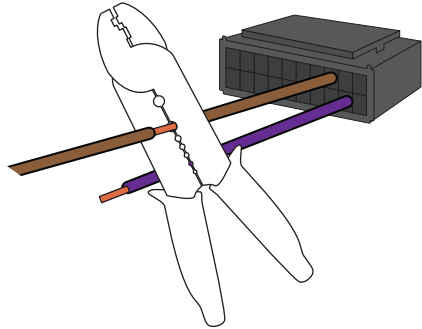
STEP 2:
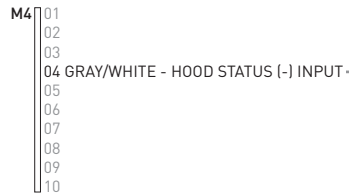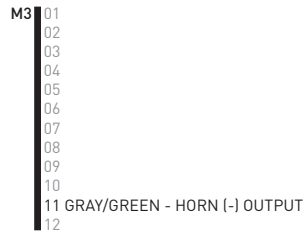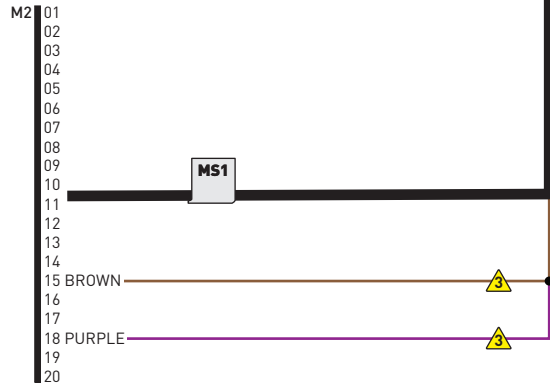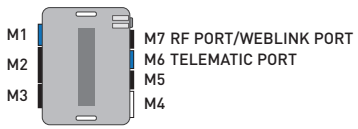-CONNECT AND SOLDER THE PURPLE WIRE TO THE BROWN WIRE.

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

STEP 3:
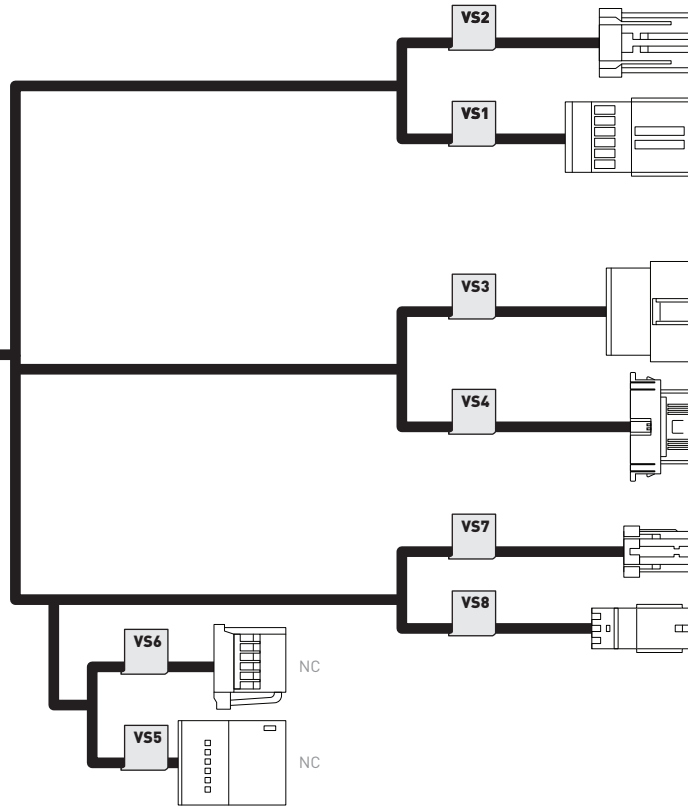-INSULATE THE CONNECTIONS WITH ELECTRICAL TAPE.

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

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TYPE 2 - WIRING DIAGRAM - 1 OF 2
(ADS-THR-CH10)

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M1 M7 RF PORT/WEBLINK PORT
M2 M6 TELEMATIC PORT
M3 M5
     M4

M1
01
02
03 MS2
04
05
06

M2
01
02
03
04
05
06
07
08
09
10 MS1
11
12
13
14
15 BROWN
16
17
18 PURPLE
19
20

PURPLE (NC)

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

NOTE 1
(SEE NEXT PAGE)

M3
01
02
03
04
05
06
07
08
09
10
11 GRAY/GREEN - HORN (-) OUTPUT
12

HORN (-) ⚠1
OPTIONAL ⚠1

M4
01
02
03
04 GRAY/WHITE - HOOD STATUS (-) INPUT
05
06
07
08
09
10

VS2
VS1

VS3
VS4

VS7
VS8

VS6 NC
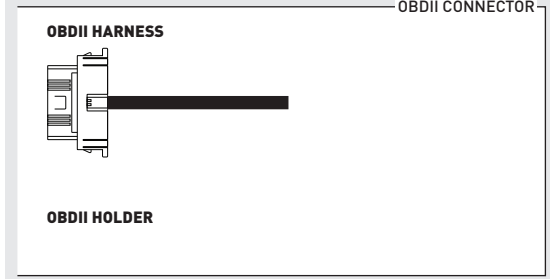VS5 NC

HOOD SWITCH ⚠2

INSTALL THE SUPPLIED HOOD SWITCH IF THE VEHICLE IS NOT EQUIPPED WITH ONE. ⚠2

PTS SWITCH

PTS CONNECTOR

PTS HARNESS

OFF ACC RUN
START STOP
ENGINE

OBDII CONNECTOR

OBDII HARNESS

OBDII HOLDER

PARKING LIGHT SWITCH

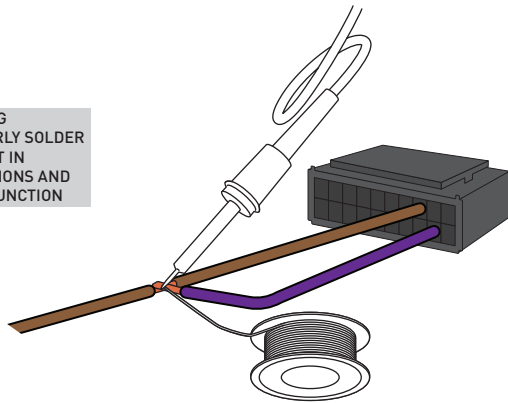**LIGHT SWITCH CONNECTOR**

LIGHT SWITCH HARNESS

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.
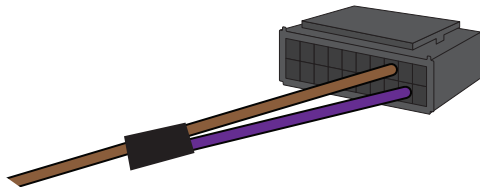-CAREFULLY STRIP THE BROWN WIRE USING A WIRE STRIPPER.

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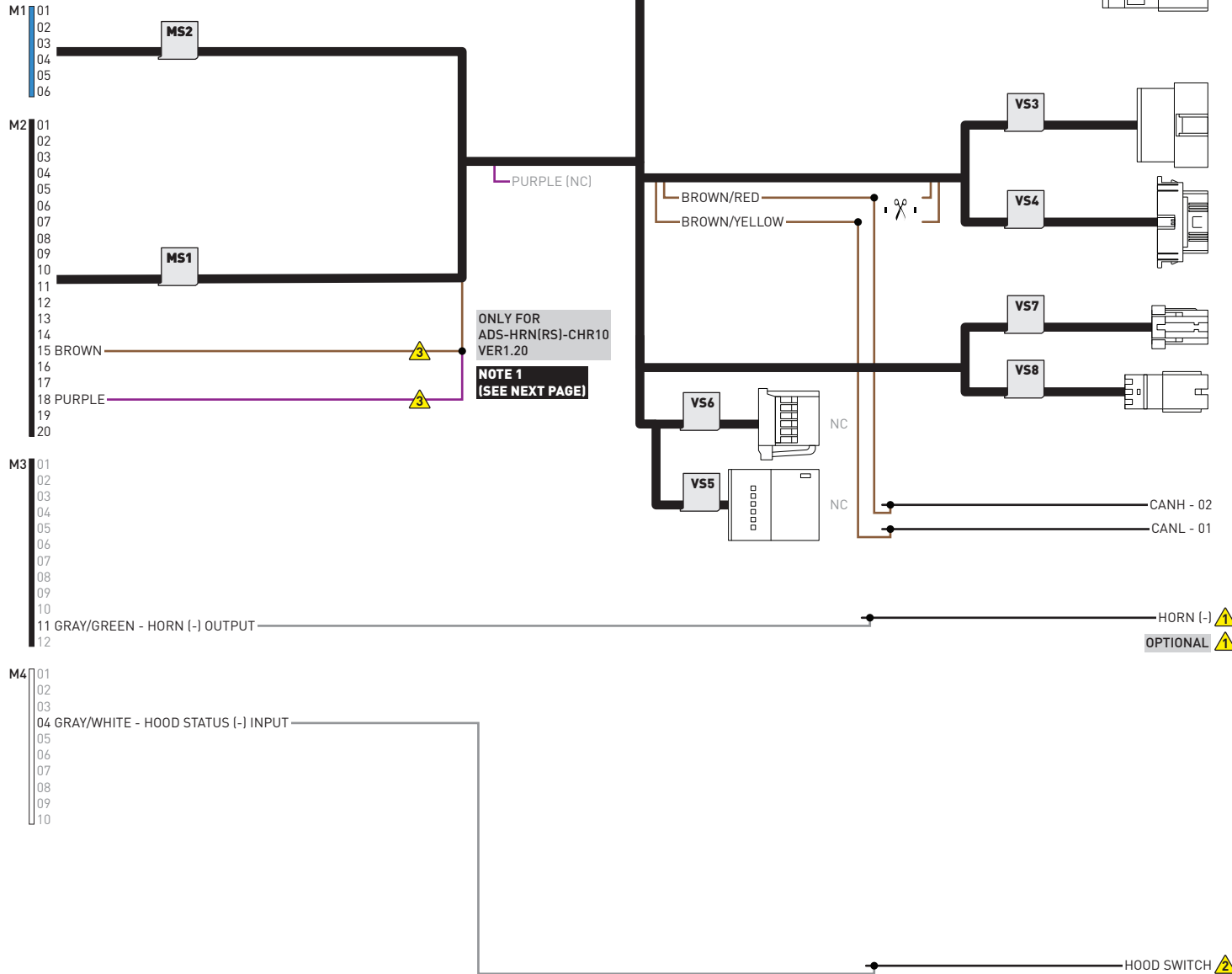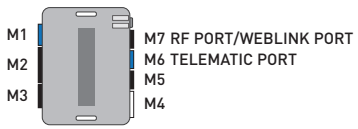-CONNECT AND SOLDER THE PURPLE WIRE TO THE BROWN WIRE.

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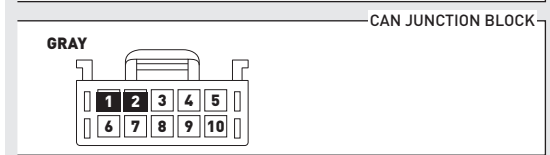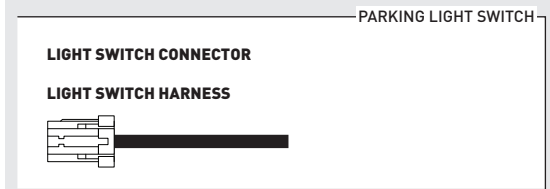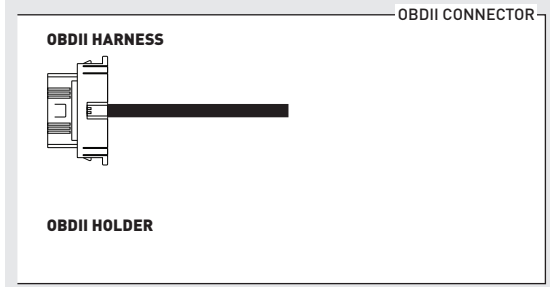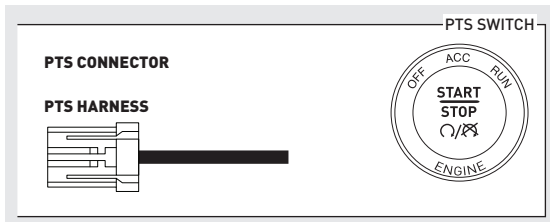CAN RESULT IN
FAULTY CONNECTIONS AND
PRODUCT MALFUNCTION

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 / 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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TYPE 3 - WIRING DIAGRAM - 1 OF 2
(ADS-THR-CH10)

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M1
M2
M3

M7 RF PORT/WEBLINK PORT
M6 TELEMATIC PORT
M5
M4

M1
01
02
03
04
05
06

MS2

M2
01
02
03
04
05
06
07
08
09
10
11
12
13
14
15 BROWN
16
17
18 PURPLE
19
20

MS1

PURPLE (NC)

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

NOTE 1
(SEE NEXT PAGE)

M3
01
02
03
04
05
06
07
08
09
10
11 GRAY/GREEN - HORN (-) OUTPUT
12

M4
01
02
03
04 GRAY/WHITE - HOOD STATUS (-) INPUT
05
06
07
08
09
10

VS2
VS1

VS3
VS4

BROWN/RED
BROWN/YELLOW

VS7
VS8

VS6
NC

VS5
NC

CANH - 02
CANL - 01

HORN (-) ⚠1
OPTIONAL ⚠1

HOOD SWITCH ⚠2

INSTALL THE SUPPLIED HOOD SWITCH IF THE VEHICLE IS NOT EQUIPPED WITH ONE. ⚠2

PTS SWITCH

PTS CONNECTOR

PTS HARNESS

OFF / ACC / RUN
START
STOP
⏻ / 🚫
ENGINE

OBDII CONNECTOR

OBDII HARNESS

OBDII HOLDER

PARKING LIGHT SWITCH

LIGHT SWITCH CONNECTOR

LIGHT SWITCH HARNESS

CAN JUNCTION BLOCK

GRAY
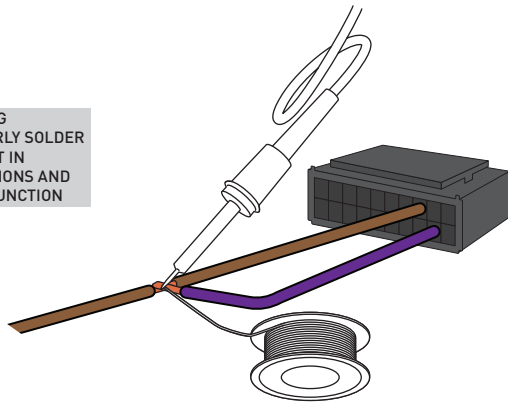
| 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 |

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.
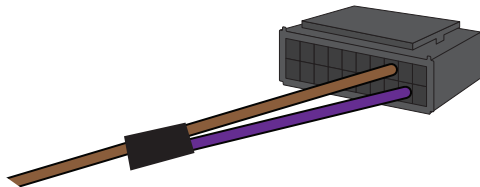-CAREFULLY STRIP THE BROWN WIRE USING A WIRE STRIPPER.

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.

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.

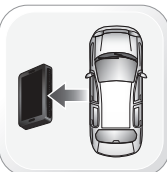**05** Wait, LED will turn solid RED.

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.

>> To exit valet mode: repeat steps 1 to 5.

01 Time restriction. Complete next step within 7 seconds.

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

OFF   ACC   ON   START

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

04 Set ignition to OFF position.

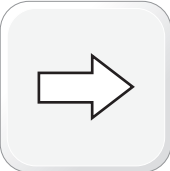OFF   ACC   ON   START

05 Valet Mode Programming Procedure completed.

>> 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.
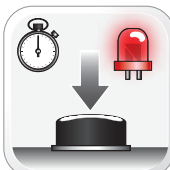
>> Module must be programmed to the vehicle.

>> Use the Module Navigation Chart on the next page.
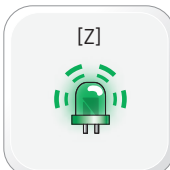
01 Set ignition to OFF position.

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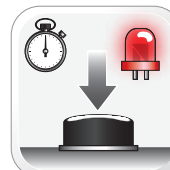
05 IN THE OPTIONS: Press the programming button as many times as the option number indicates. LED 1 will flash RED an equal amount of times continuously.

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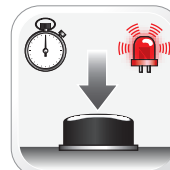
08 IN THE SETTINGS: Press the programming button as many times as necessary to access your setting. LED 1 will flash GREEN an equal amount of times continuously.

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.			01	DISARM/UNLOCK BEFORE START	**01**	**OFF**
II Make sure the option is covered on the vehicle before attempting to change the setting.					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
	01	CONFIGURATION	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	**01**	**DOUBLE LOCK**
					02	LOCK + UNLOCK
					03	LOCK + UNLOCK + START
					04	DOUBLE LOCK + START
			15	HORN CHIRPS WIDTH	**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. 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	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.
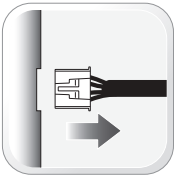
02 Disconnect the BLACK 20-PIN connector.
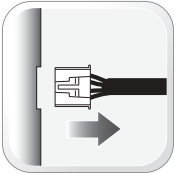
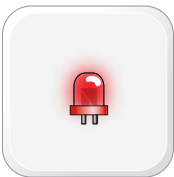**03** PRESS AND HOLD the module's programming button while connecting the BLACK 20-PIN connector.

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.
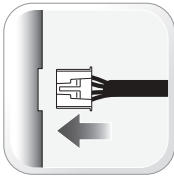
08 Repeat programming procedure.

>> 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 LOCK button three times [3x] rapidly on the OEM keyfob to remote start vehicle.
	Question 1: Does the vehicle remote start?
☐	YES: Go to next step.
☐	NO: The module doesn't detect OEM remote lock button from the vehicle communication network. Check all connections, repeat the test and call technical support, if the problem persists.
4	Press LOCK button three times [3x] rapidly on the OEM keyfob to shut down vehicle.
	Question 2: Does the vehicle shut down?
☐	YES: Go to next step.
☐	NO: Repeat step. If the problem persists, press on the brake pedal once [1x] to shut down the vehicle and call technical support.
5	RAP Shutdown test
	Question 3: Did the radio, interior controls, and headlights turn off within 60 seconds after remote start shutdown?
☐	YES: Go to next step.
☐	NO: Verify the RAP SHUTDOWN connections as illustrated in the wiring diagram. Repeat the test and call technical support, if the problem persists.
6	Open hood.
7	If not already installed, affix the mandatory orange warning sticker under the hood and proceed to next step.
8	Press LOCK button three times [3x] rapidly on the OEM keyfob to remote start vehicle.
	Question 4: Does the vehicle remote start?
☐	YES: The vehicle is not equipped with a factory hood pin. Install a mandatory aftermarket hood switch, then repeat the test.
☐	NO: Go to next step.
9	Close hood.
10	Enter vehicle and close the doors.
11	Press LOCK button three times [3x] rapidly on the OEM keyfob to remote start vehicle.
12	Wait for the vehicle to start.
13	Press brake pedal.
	Question 5: Does the vehicle shut down?
☐	YES: Go to next step.
☐	NO: The module does NOT detect the brake pedal signal. Press LOCK button three times [3x] rapidly on the OEM keyfob to shut down, check the brake connection as illustrated in the wiring diagram, if applicable, and call technical support.
14	Exit vehicle.
15	Installation checklist completed.