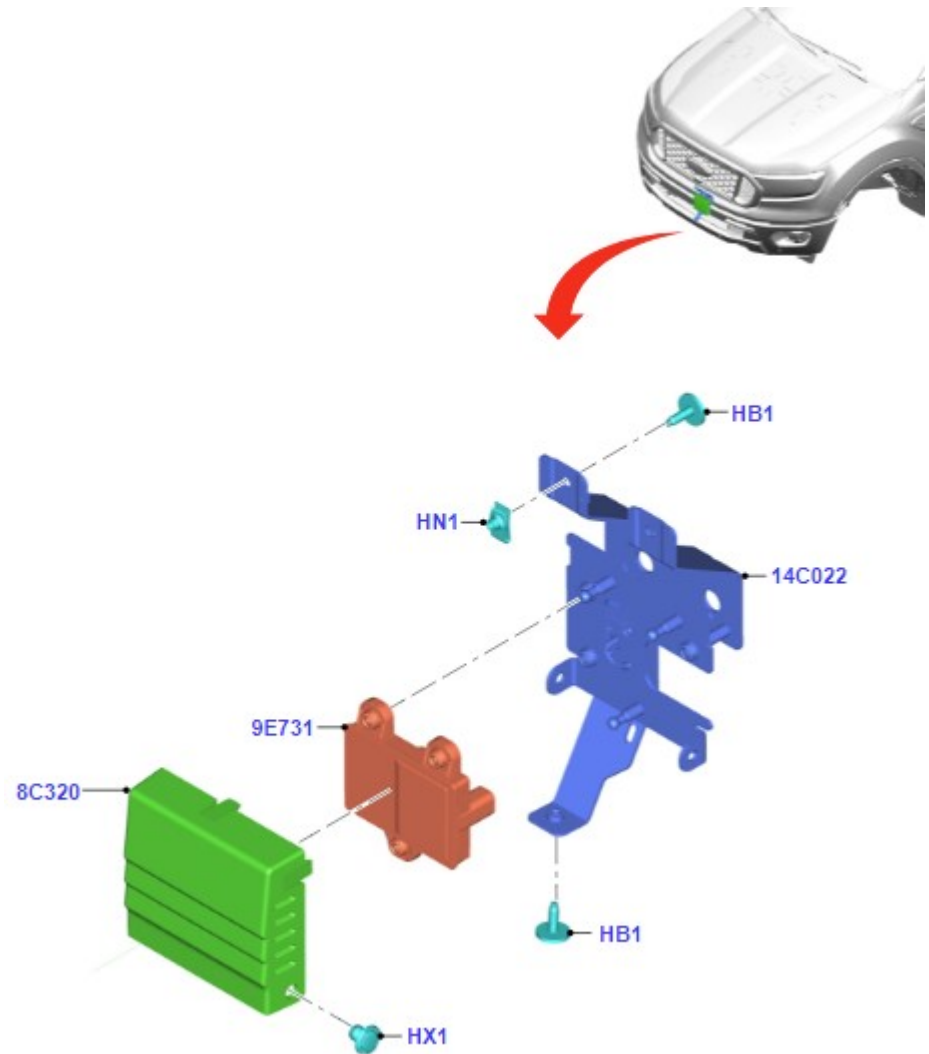
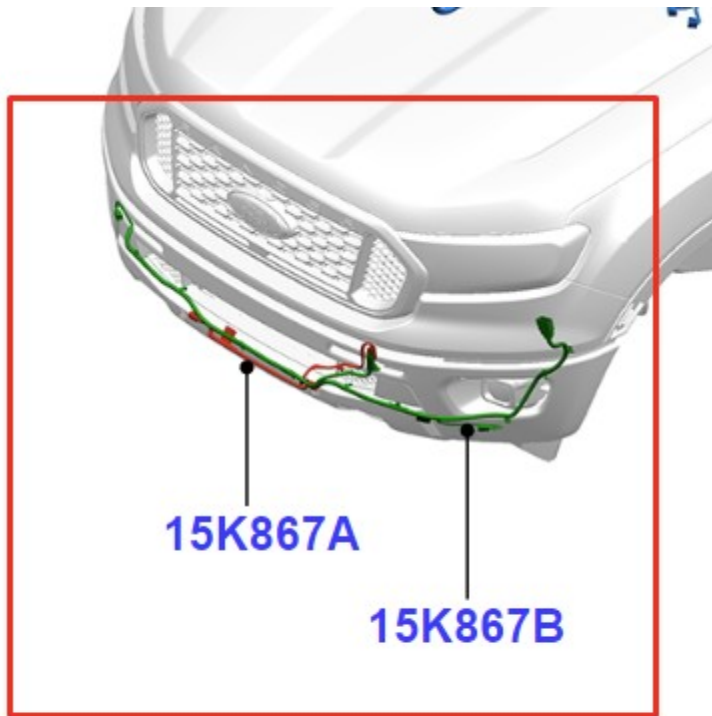


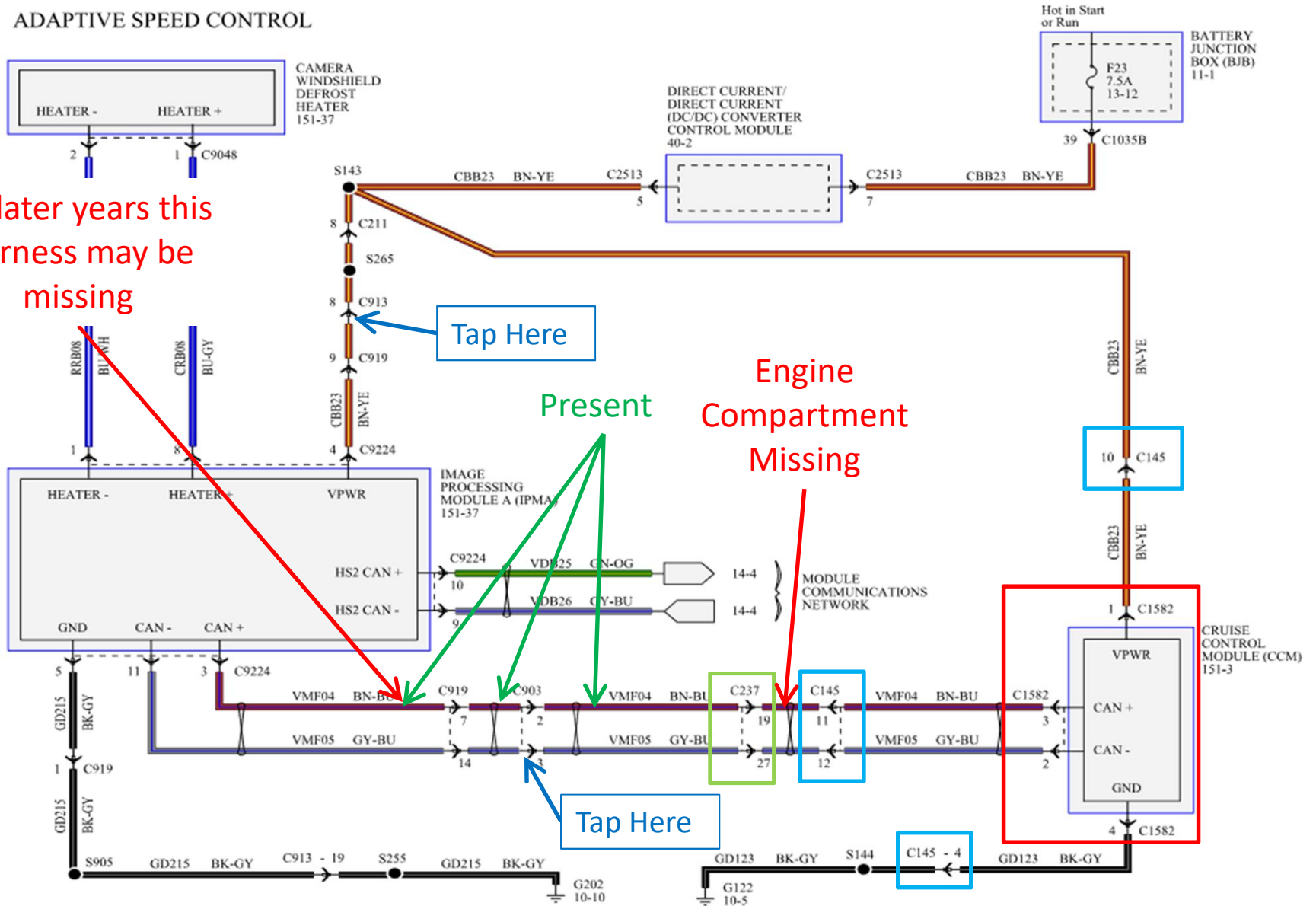
Adding Adaptive Cruise

CCM Module and Wiring Installation

CCM Module, Mount and Harness



ADAPTIVE SPEED CONTROL



On later years this harness may be missing

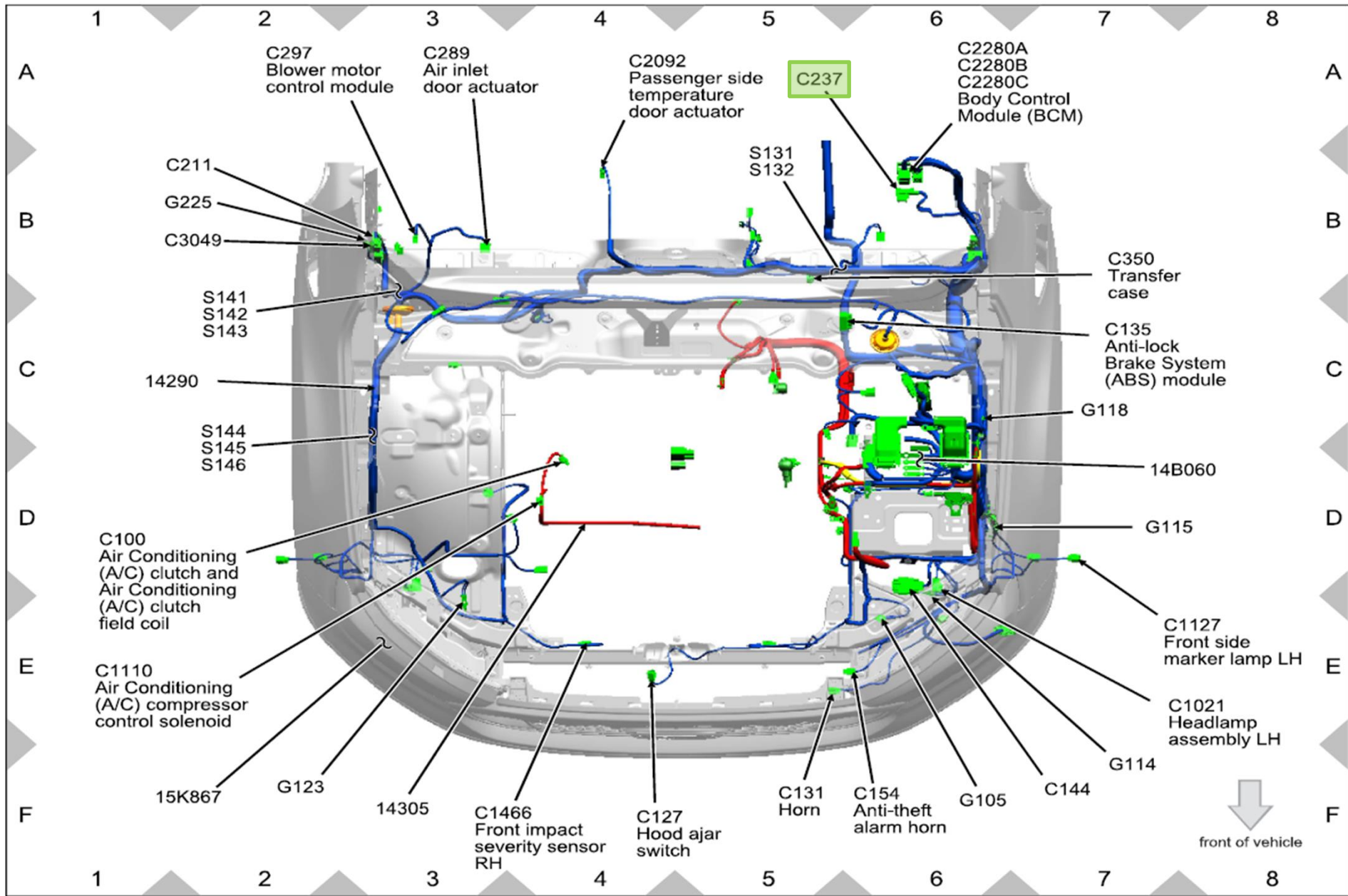
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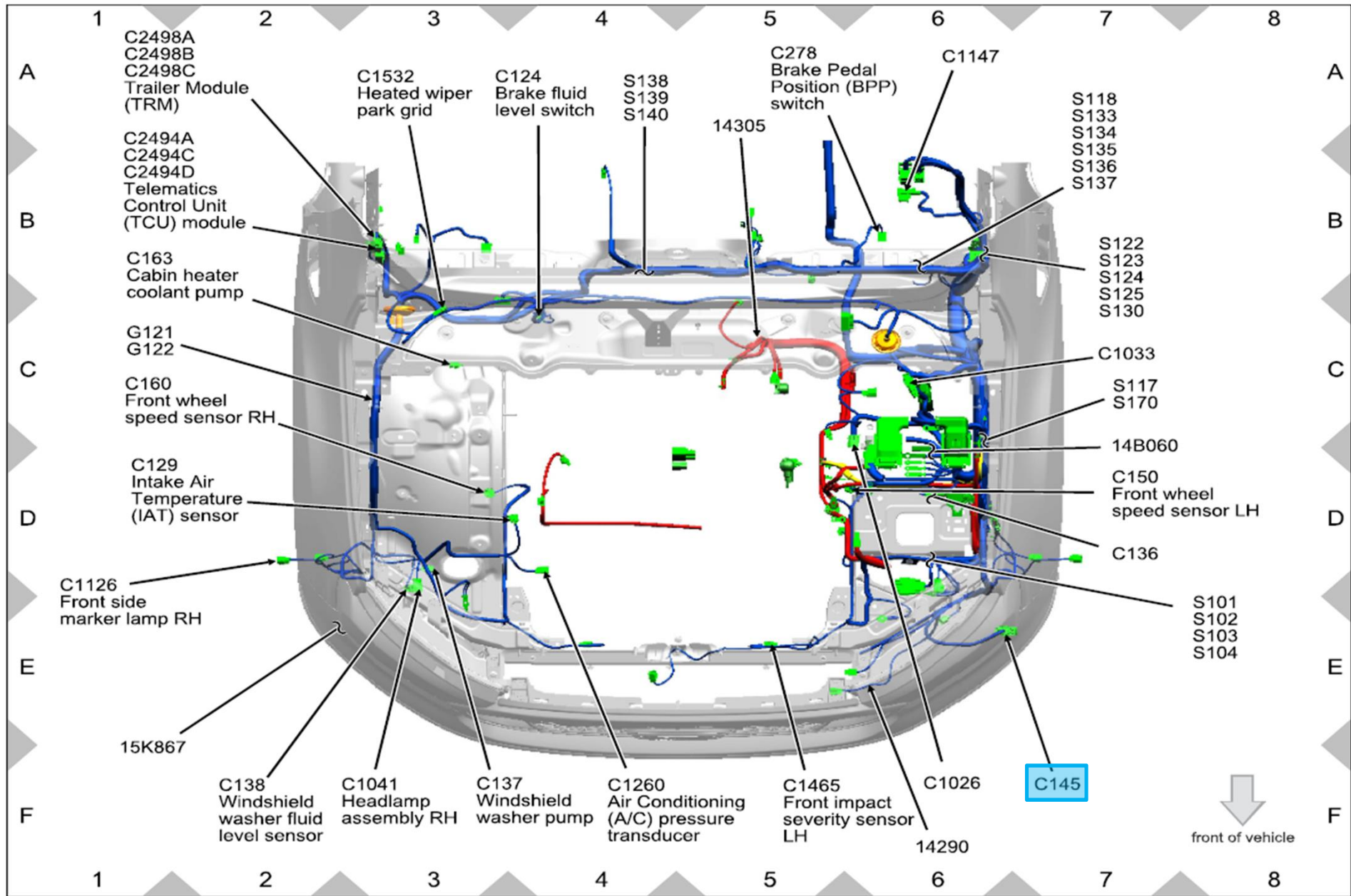
Tap Here

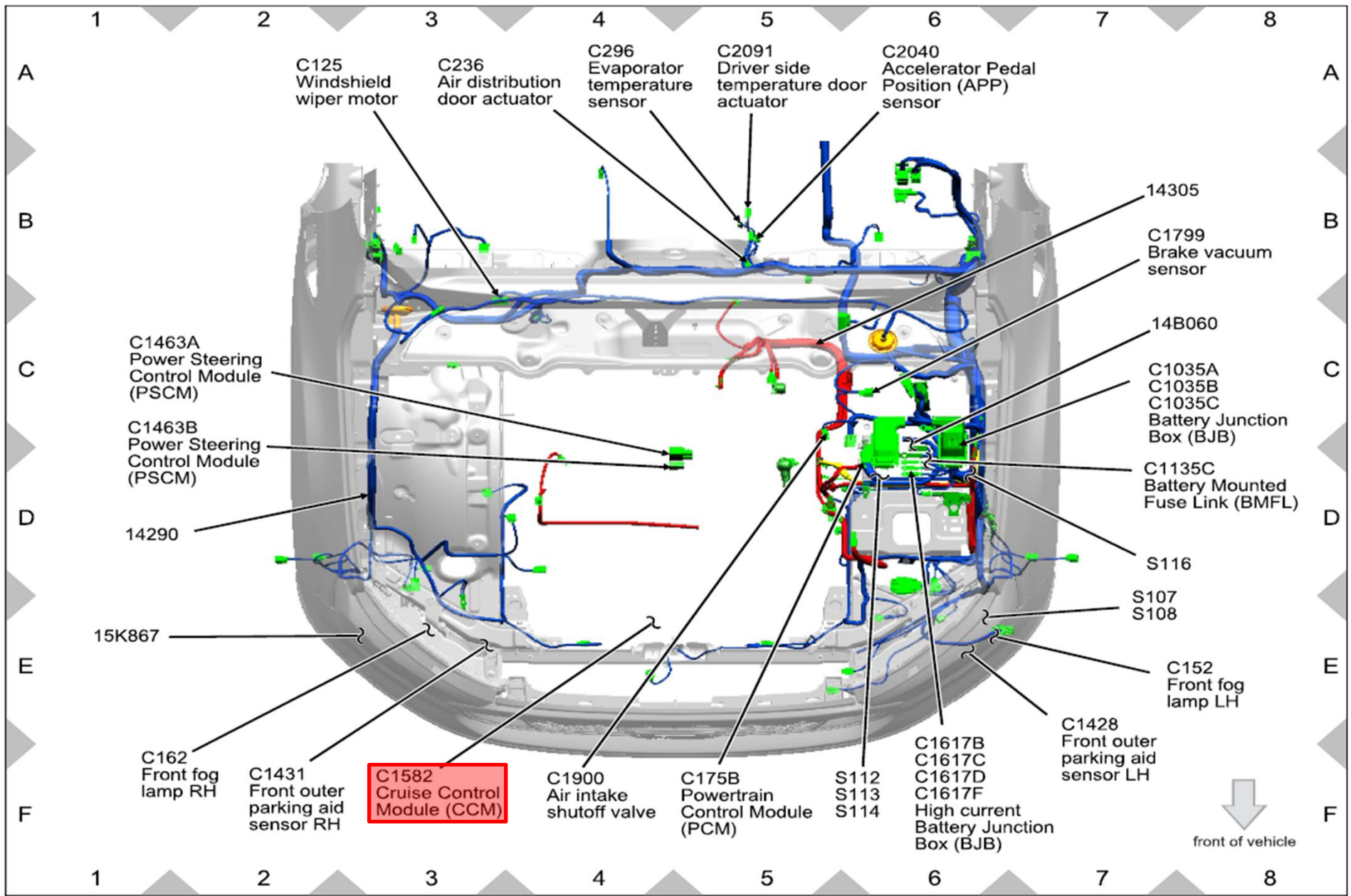
Present

Engine Compartment Missing

Tap Here





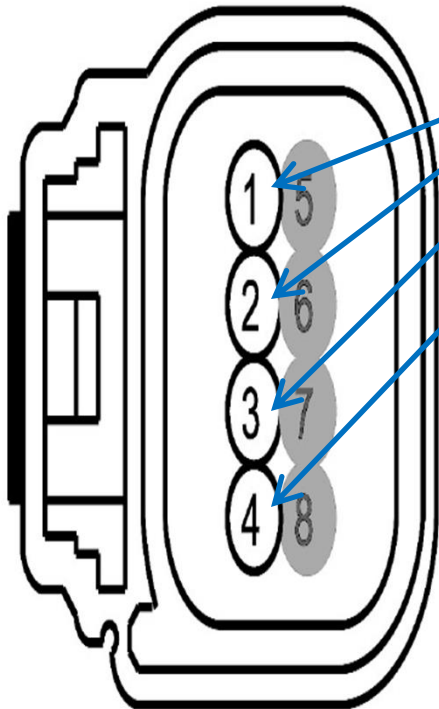


C1582 CCM Connector

Connector: C1582	Description CRUISE CONTROL MODULE (CCM)	Color BK	Harness 15K867	Base Part # part# N/A	Service Pigtail See Below
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[Check for Terminal Part Numbers](#)

Pin	Circuit	Gauge	Circuit Function	Qualifier
1	CBB23 (BN-YE)	18	FUSE - 23 OR CIRCUIT BREAKER	
2	VMF05 (GY-BU)	20	CTRL MOD. - FORWARD SENSING # FORWARD LOOKING RADAR CAN BUS LOW	
3	VMF04 (BN-BU)	20	CTRL MOD. - FORWARD SENSING # FORWARD LOOKING RADAR CAN BUS HIGH	
4	GD123 (BK-GY)	20	GROUND - FENDER FRONT RIGHT	
5	*	*	Not Used	
6	*	*	Not Used	
7	*	*	Not Used	
8	*	*	Not Used	



You MUST have this Connector to make the harness
Details [HERE](#)

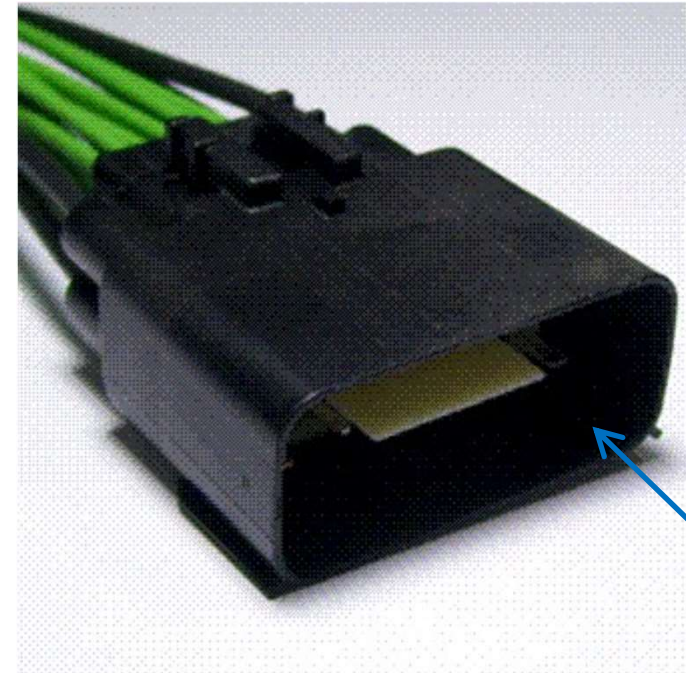
This can be sourced thru [Amazon](#) or [DigiKey](#)

If you go DigiKey [HERE](#) is the connector assy instructions

C145 Bumper Harness

Inline	Description	Color	Base Part #	Service Pigtail
C145	INLINE			See Below

MALE Harness 15K867				FEMALE Harness 14290			
Pin	Circuit	Gauge	Qualifier	Pin	Circuit	Gauge	Qualifier
1	*	*		1	*	*	
2	LMP06 (VT-GY)	20		2	LMP06 (VT-GY)	20	
3	VMP11 (BU-GN)	20		3	VMP11 (BU-GN)	20	
4	GD123 (BK-GY)	20		4	GD123 (BK-GY)	20	
5	VMP10 (WH-BU)	20		5	VMP10 (WH-BU)	20	
6	VMP12 (BU-GY)	20		6	VMP12 (BU-GY)	20	
7	VMP13 (BU-OG)	20		7	VMP13 (BU-OG)	20	
8	GD121 (BK-YE)	18		8	GD121 (BK-YE)	18	
9	GD123 (BK-GY)	18		9	GD123 (BK-GY)	18	
10	CBB23 (BN-YE)	18		10	CBB23 (BN-YE)	18	
11	VMF04 (BN-BU)	20		11	VMF04 (BN-BU)	20	
12	VMF05 (GY-BU)	20		12	VMF05 (GY-BU)	20	
13	RMP06 (YE-OG)	20		13	RMP06 (YE-OG)	20	
14	CLF29 (BN)	16		14	CLF29 (BN)	16	
15	CLF34 (YE-OG)	16		15	CLF34 (YE-OG)	16	
16	*	*		16	*	*	



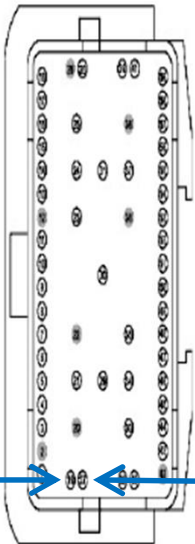
1

This is a dead-end as the wires are not present from the bumper to the cab

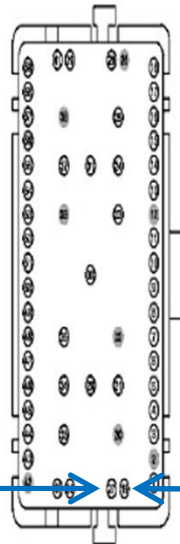
C237 Firewall Connector

Inline C237	Description INLINE	Color BK	Base Part #	Service Pigtail Not Available
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MALE
Harness 14401



FEMALE
Harness 14290

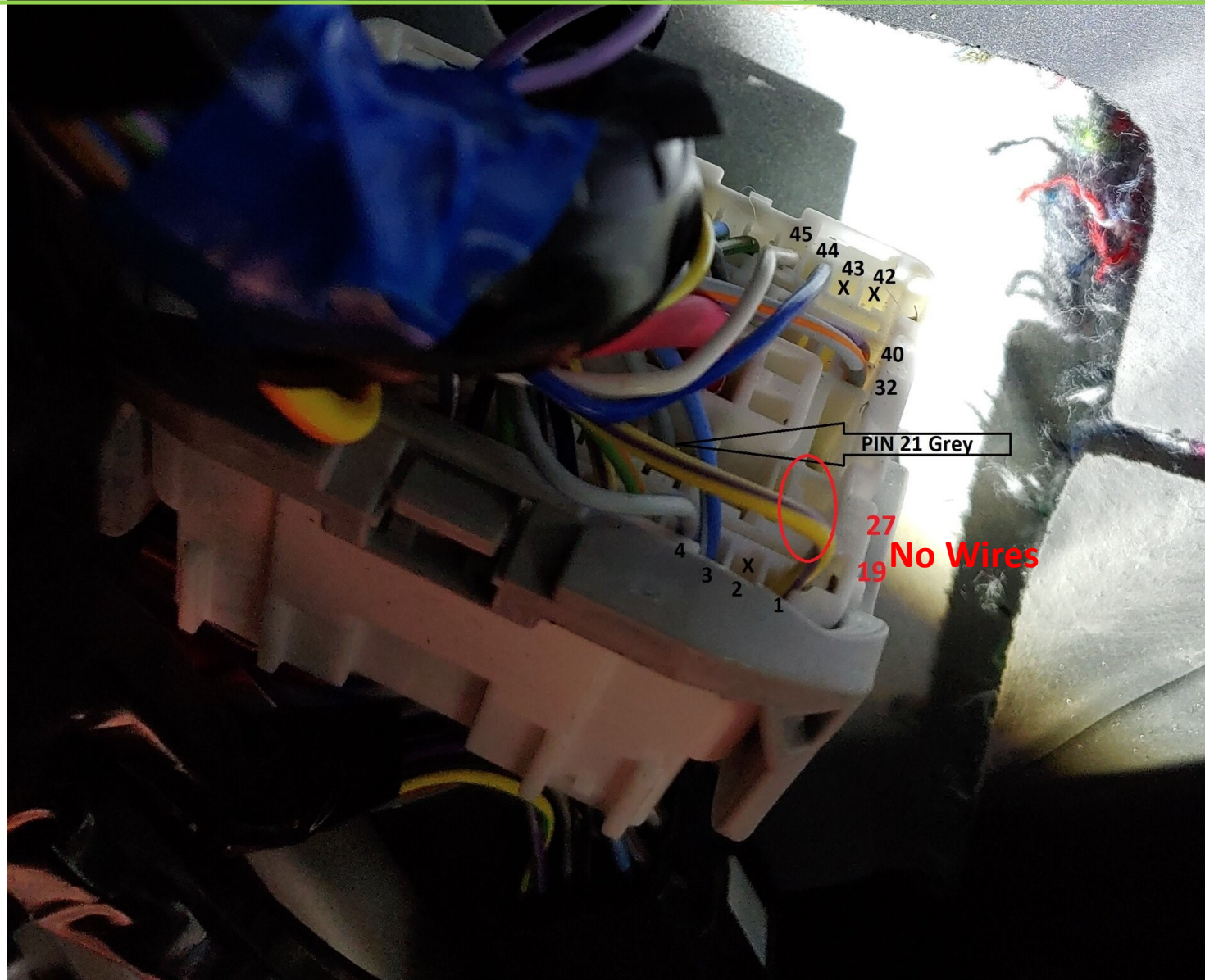


Check for Terminal Part Numbers

Pin	Circuit	Gauge	Qualifier
19	VMF04 (BN-BU)	22	
20	*	*	
21	CRD17 (GY)	20	
22	*	*	
23	SBB65 (RD)	14	
24	SBB80 (VT-RD)	14	
25	CDC35 (BU-WH)	20	
26	*	*	
27	VMF05 (GY-BU)	22	
28	CRB02 (BU-BN)	22	

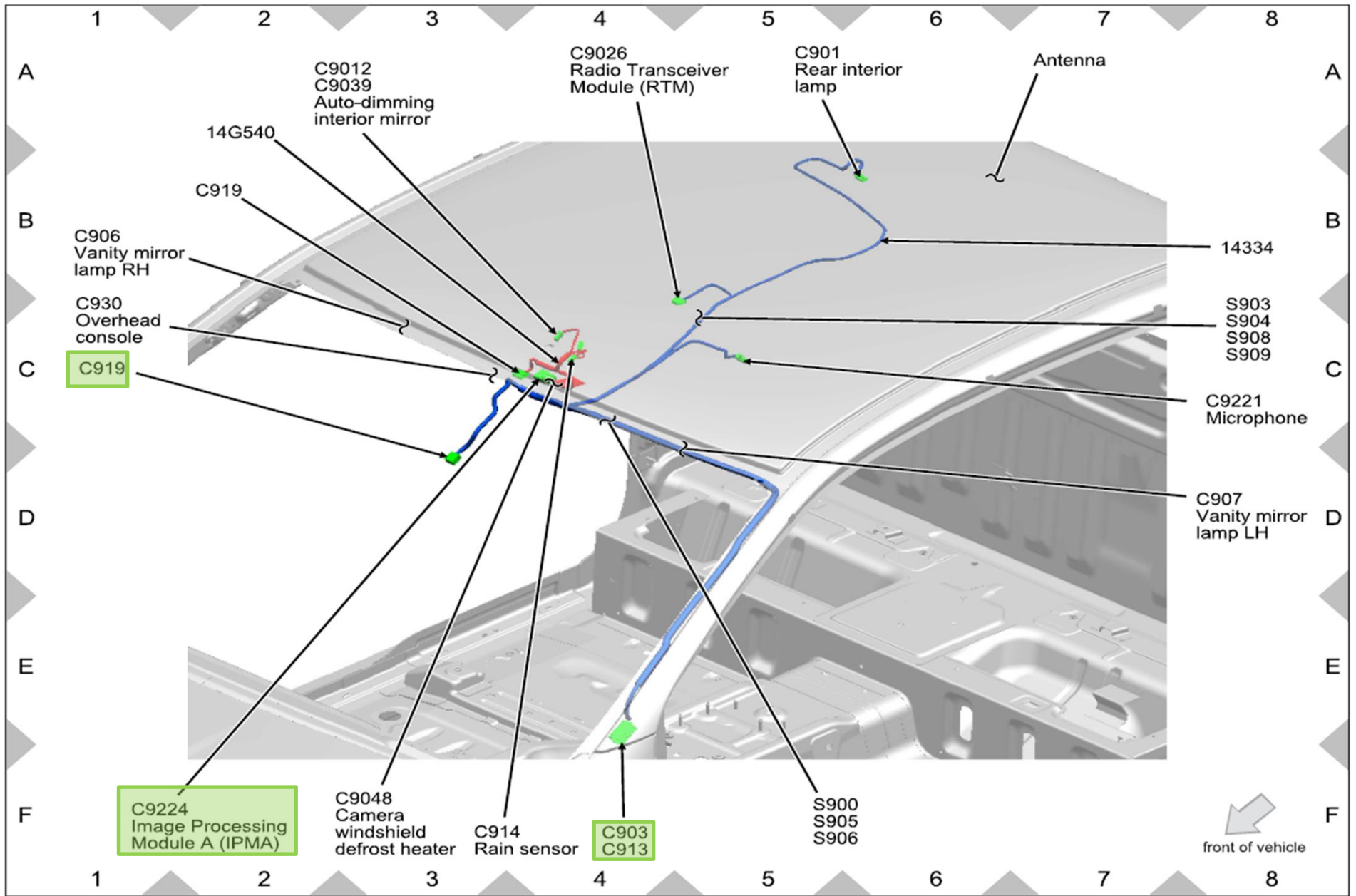
Pin	Circuit	Gauge	Qualifier
19	VMF04 (BN-BU)	20	
20	*	*	
21	CRD17 (GY)	20	
22	*	*	
23	SBB65 (RD)	14	
24	SBB80 (VT-RD)	14	
25	CDC35 (BU-WH)	20	
26	*	*	
27	VMF05 (GY-BU)	20	
28	CRB02 (BU-BN)	20	

C237 Firewall Connector

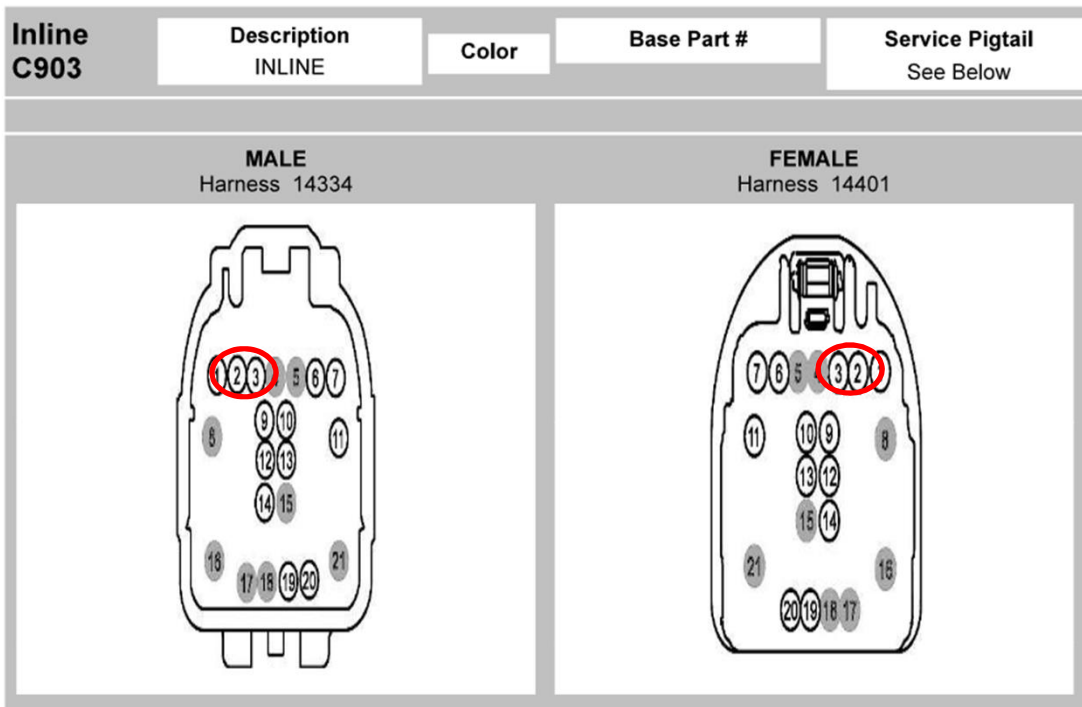


Tap location for CCM Hook up

- You will need to make and run a harness from the CCM to the A-Pillar
- A Gnd point can be picked up in the engine compartment
- Can Bus and power will tap at the A-Pillar into C903 and C913



C903 Can Bus Connection



Check for Terminal Part Numbers

Pin	Circuit	Gauge	Qualifier
1	VLN04 (VT-GY)	22	
2	VMF04 (BN-BU)	22	
3	VMF05 (GY-BU)	22	
4	*	*	
5	*	*	
6	VMM23 (GY-BN)	22	

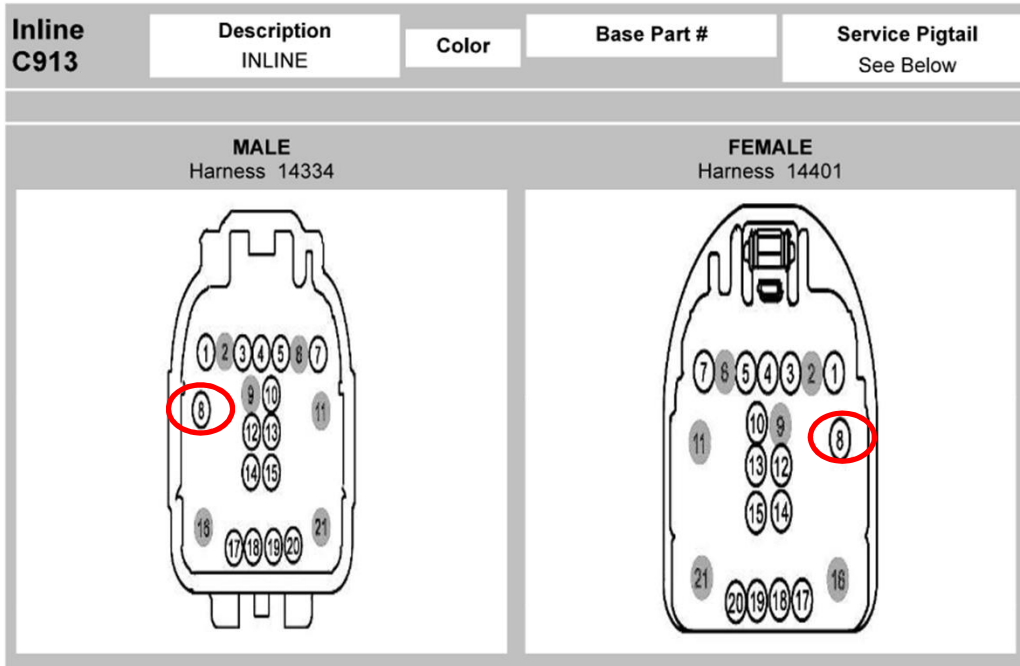
Pin	Circuit	Gauge	Qualifier
1	VLN04 (VT-GY)	22	
2	VMF04 (BN-BU)	22	
3	VMF05 (GY-BU)	22	
4	*	*	
5	*	*	
6	VME99 (VT-OG)	22	

Locate the wires (Brown-Blue and Grey-Blue) and either solder or use Posi-Taps to make the connection

DO NOT USE AUTO TAPS

Be sure to keep the polarity correct from the CCM

C913 Power Connection



Locate the Brown-Yellow wire and either solder or use Posi-Taps to make the connection
DO NOT USE AUTO TAPS

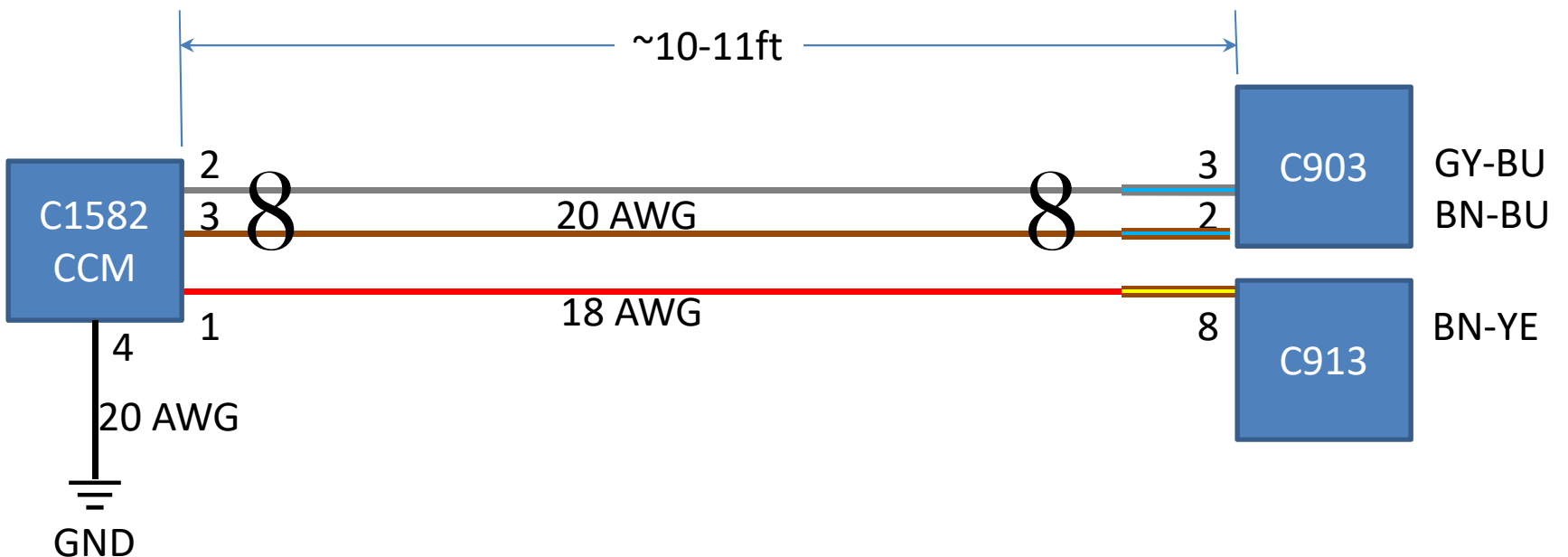
[Check for Terminal Part Numbers](#)

Pin	Circuit	Gauge	Qualifier	Pin	Circuit	Gauge	Qualifier
1	CRW13 (GN)	18		1	CRW13 (GN)	18	
2	*	*		2	*	*	
3	VLN33 (GY-VT)	22		3	VLN33 (GY-VT)	22	
4	CBP32 (GN-VT)	20		4	CBP32 (GN-VT)	20	
5	CLN09 (YE-GN)	20		5	CLN09 (YE-GN)	20	
6	*	*		6	*	*	
7	CBP36 (BU-BN)	20		7	CBP36 (BU-BN)	20	
8	CBB23 (BN-YE)	18		8	CBB23 (BN-YE)	18	
9	*	*		9	*	*	
10	VPL56 (BU-GY)	22		10	VPL56 (BU-GY)	22	

C903/913 A-Pillar



CCM Harness



- Start by making a twisted pair from your Can Bus. This can be easily done with a tie point and a drill
- Use your favorite wire loom and run the harness from the CCM thru the firewall up to the A-pillar. It's easiest to go thru the fire wall where the main harness does using tools of your choice.

Stock Bracket Install

- The following slides detail how to add the stock bracket.
- For the relocation style bracket follow the mfgs directions

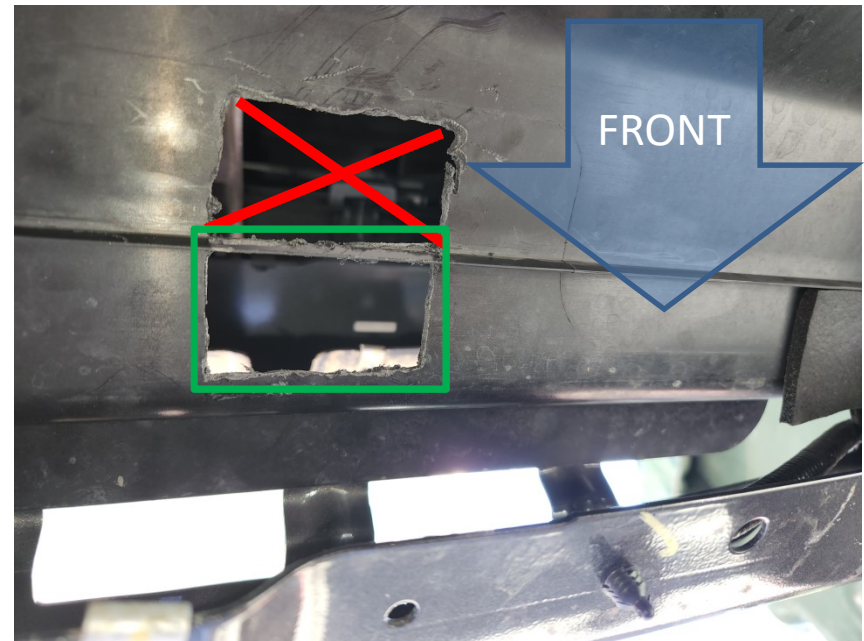
Stock Bracket Install

- Remove Lower Bumper Valance



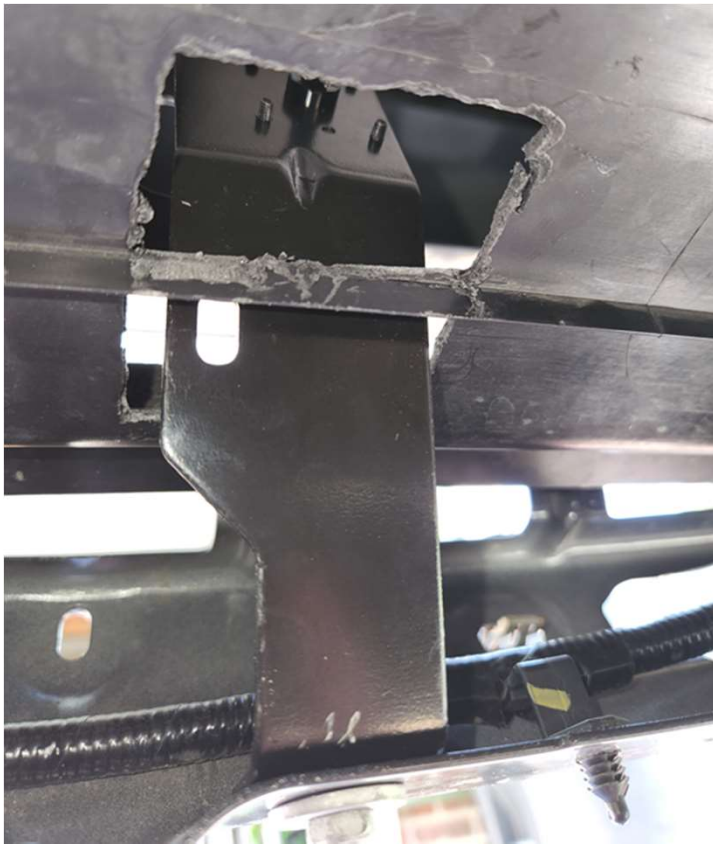
Stock Bracket Install

- Cut a hole in the plastic air baffle
 - In front of the rib!



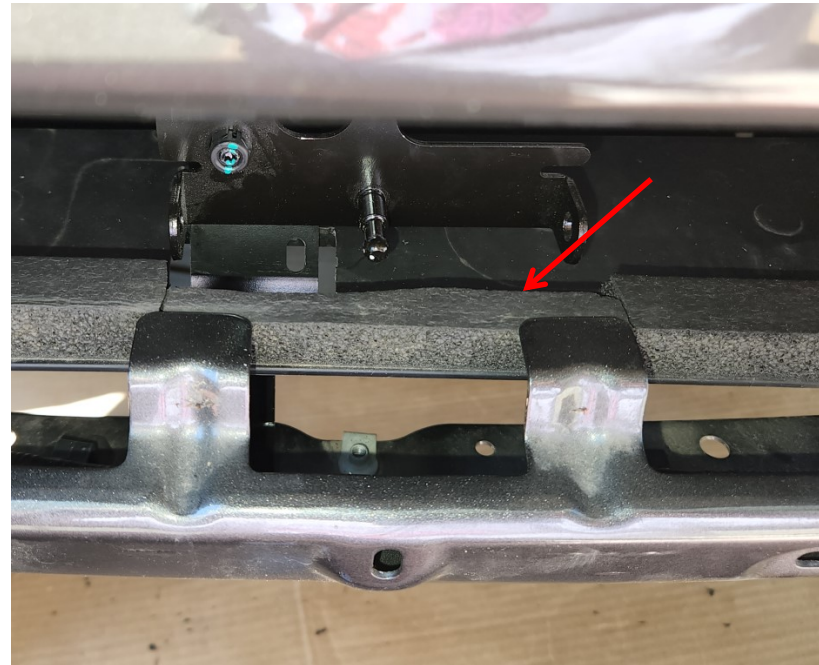
Stock Bracket Install

- Installed



Stock Bracket Install

- Cut foam gasket
 - Not sure this is required
- Install the CCM and preform the level procedure



Stock Bracket Install

- Complete



Stock Bracket Install

- Complete



Harness Routing

- Run Harness down to the existing harness running along the inside of the bumper
- Then up by the battery and on to the Firewall



Harness Routing

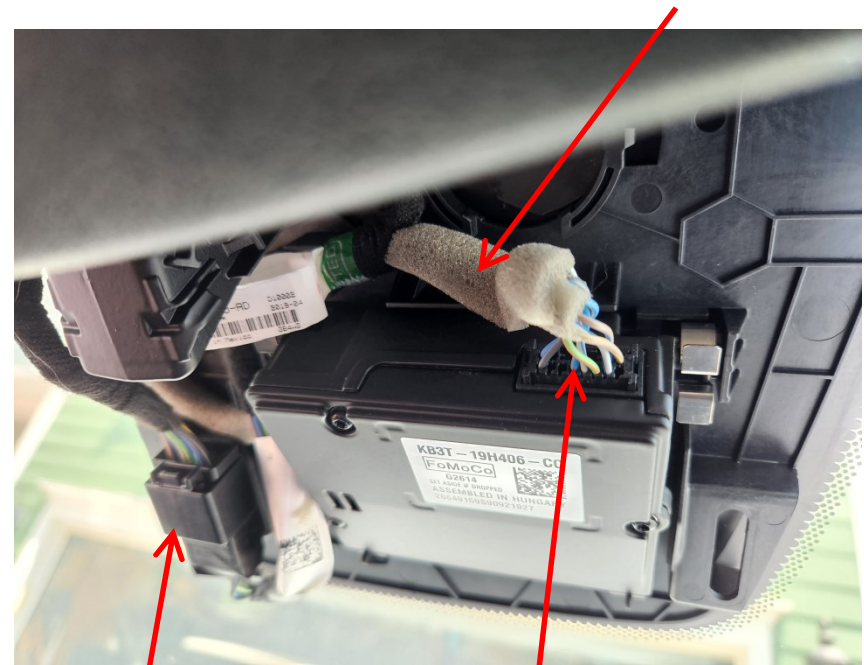
- Route thru the same location as the main harness – penetrating the outer portion away from the main harness
- [This tool](#) works GREAT
- Form here route straight up to the A-pillar



Harness Routing

- An issue was discovered where the can bus wires are not present by the IPMA on later model years (my 2019 had them).
- There is a short harness between the IPMA and connector C919. Jumpers can be run or take a trip to a junk yard

Short Harness with possible missing Can bus wires



C919

IPMA Connector