

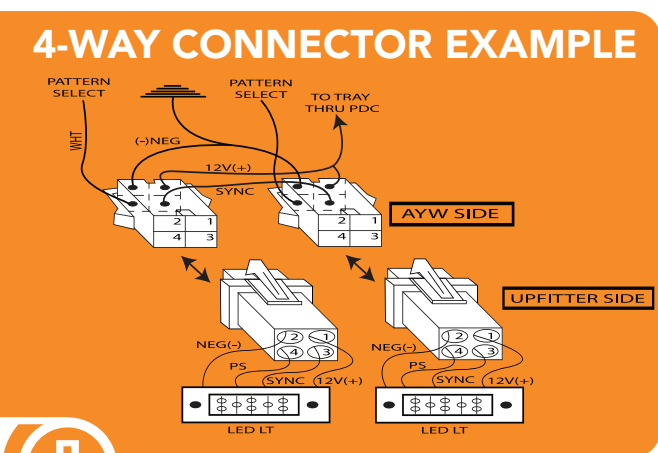
\*DETERMINE IF VEHICLE CONTAINS MOPAR SALES CODE AYE OR AYW. AYW IS BASE HARNESS AND PDC ONLY. AYE INCLUDES BASE HARNESS, PDC, TRUNK TRAY, MOUNTED UNDER HOOD SPEAKER, AND DECK FAN. WHERE NOTED IN GUIDE THERE ARE SLIGHT DIFFERENCES \*

### 4-WAY WHITE CONNECTOR (AYE/AYW SIDE)

LED LIST: GRILLE, CORNER, MIRROR, B-PILLAR, DECK AND TAIL

PIN	FUNCTION	COLOR	AWG
1	(+) SW SOURCE	SEE DIAGRAM CONN.	18
2	(-) GROUND	BLK	18
3	SYNC BETWEEN PAIRS	SEE DIAGRAM CONN.	18
4	PATTERN SELECT	WHT	18

□ - EMPTY CONNECTION SQUARE REPRESENTS NO PIN



### AYE 2-WAY BLK SPEAKER CONNECTOR

PIN	FUNCTION	COLOR	AWG
A	SIREN HI	BLK	18
B	SIREN LO	GRN/WHT	18

### AYE/AYW 4-WAY BLACK CONNECTOR

PIN	FUNCTION	COLOR	AWG
A	GRILLE LED (+)	BLK/ORG	18
B	GRILLE LED (-)	BLK	18
C	CORNER LED (+)	BLK/GRN	18
D	CORNER LED (-)	BLK	18

### 12-WAY GRAY VSIM MALE CONNECTOR (BODY SIDE)

\*UNDERHOOD PDC

PIN	FUNCTION	COLOR	AWG	CAV
1	BATTERY (+) 20A	RED/VIO	16	*23
2	BATTERY (+) 20A	VIO/RED	16	*22
3	BATTERY (+) 20A	WHT/RED	16	*21
4	AYW IGN (+) SENSE	PNK	16	*7
5	IGNITION (+) 20A	PNK/GRY	16	*8
6	IGNITION (+) 20A	PNK/DKBLU	16	*24
7	SIREN HI	BLK	16	N/A
8	SIREN LO	GRN/WHT	16	N/A
9	GRILLE LED (+)	BRN/ORG	18	N/A
10	CORNER LED (+)	BRN/WHT	18	N/A
11	SPARE 1	ORG	18	N/A
12	SPARE 2	ORG/BLK	18	N/A

### CHARGER PURSUIT FACTORY UNDERHOOD BLUNT CUTS

PIN	FUNCTION	COLOR	AWG
1	SPARE 1	ORG	18
2	SPARE 2	ORG/BLK	18
3	SIREN HI	BLK	18
4	SIREN LO	GRN/WHT	18
5	GRILLE LED (+)	BLK/ORG	18
6	CORNER LED (+)	BLK/GRN	18

### 12-WAY GRAY VSIM FEMALE CONNECTOR (AYE/AYW SIDE)

PIN	FUNCTION	COLOR	AWG
1	BATTERY (+) 20A	RED/WHT PIGTAIL	16
2	BATTERY (+) 20A	VIO/RED PIGTAIL	16
3	BATTERY (+) 20A	WHT/RED PIGTAIL	16
4	IGNITION (+) SENSE	PNK/VIO	16
5	IGNITION (+) 20A	VIO/PNK PIGTAIL	16
6	IGNITION (+) 20A	WHT/PNK PIGTAIL	16
7	SIREN HI	BLK/TAN	16
8	SIREN LO	BLK/WHT	16
9	GRILLE LED (+)	BLK/ORG	18
10	CORNER LED (+)	BLK/GRN	18
11	SPARE 1	BLK/RED	18
12	SPARE 2	BLK/BLU	18

### 24-WAY WHITE VSIM FEMALE CONNECTOR (BODY SIDE)

PIN	FUNCTION	COLOR	AWG
1	FRONT WIG WAG	BRN/ORG	18
2	REAR WIG WAG	BRN/VIO	18
5	HORN SENSE	BRN/GRY	18
6	PARK SENSE	YEL/BLU	20
7	ALARM SENSE	VIO/BLU	18
8	HEADLIGHT SENSE	BRN/DK BLU	18
15	DR. DOOR SENSE	BRN/GRY	18
20	HORN MUTE	GRY/DK BLU	18

### AYE/AYW HARNESS CONSOLE BLUNT CUTS

FUNCTION	COLOR	AWG	FUS#	AMP
FT. RADIO IGN (+)	YEL	20	F34	5
FT. RADIO B (+)	RED	10	F25	20
RADAR B (+)	BRN	16	F27	10
PRINTER B (+) (TIMER OPT.)	GRY	16	F39	5
AUX	WHT	14	N/A	N/A
GUNLOCK	BLU	16	F17	5

### 24-WAY WHITE VSIM MALE CONNECTOR (AYE/AYW SIDE)

PIN	FUNCTION	COLOR	AWG
1	FRONT WIG WAG	BRN/ORG	22
2	REAR WIG WAG	BRN/VIO	22
5	HORN SENSE	BRN/GRY	22
6	PARK SENSE	BRN	20
7	ALARM SENSE	BRN/BLU	20
8	HEADLIGHT SENSE	BRN/DK BLU	20
15	DR. DOOR SENSE	BRN/GRY	20
20	HORN MUTE	BRN/YEL	22

### AYE/AYW HARNESS LIGHTBAR BLUNT CUTS (PASS C-PILLAR)

FUNCTION	COLOR	AWG	FUS#	AMP
LIGHTBAR B (+)	RED	10	F28	30
LIGHTBAR (-)	BLK	10	N/A	N/A
LIGHTBAR FRONT	YLW/BRN	18	F12	2
LIGHTBAR REAR	GRN/VIO	18	F13	2
LEFT ALLEY	RED/GRN	18	F11	2
RIGHT ALLEY	BLU/ORG	18	F10	2
TAKEDOWN	BLK/YLW	18	F9	2

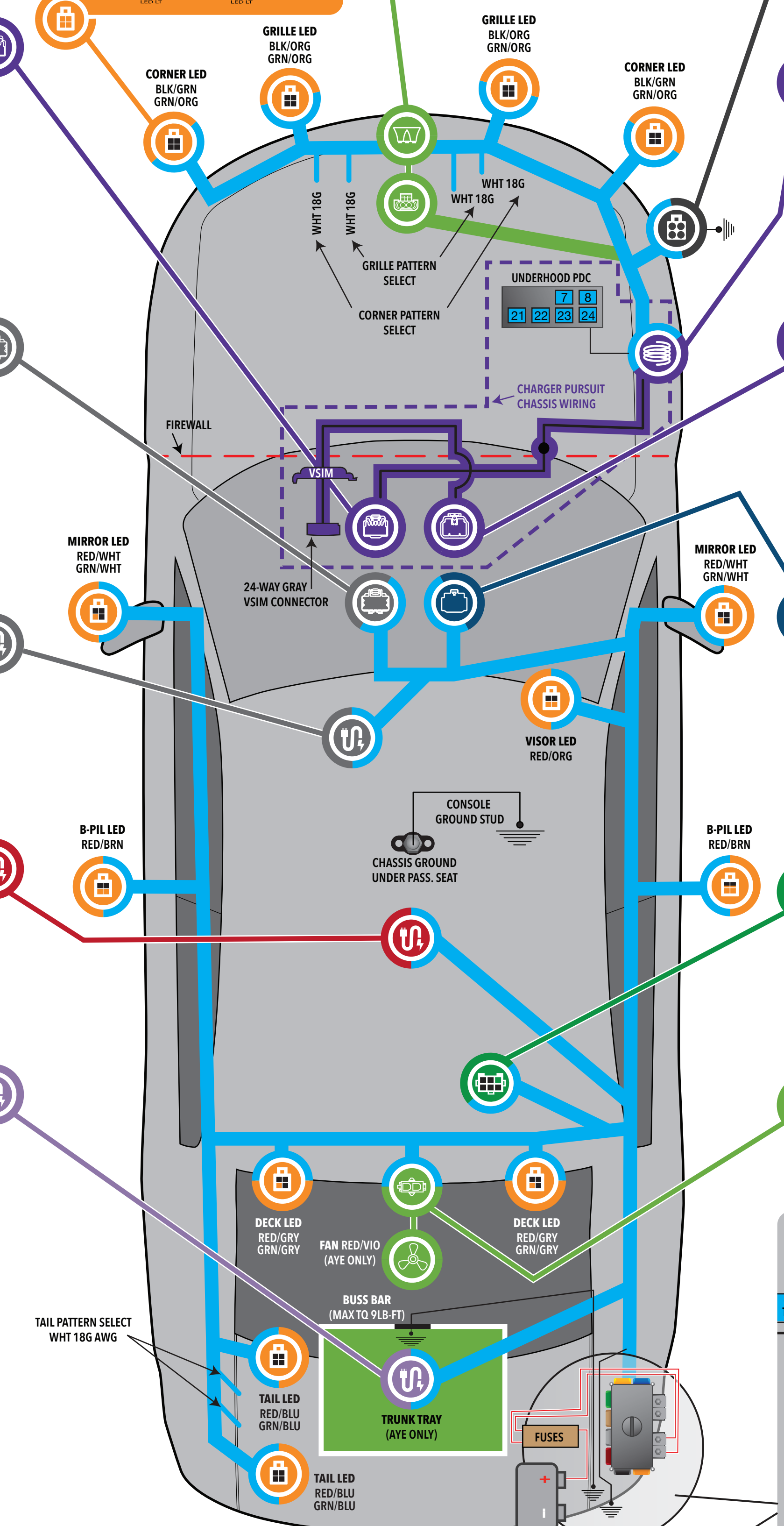
### AYE/AYW 6-WAY TRAFFIC ADVISOR CONNECTOR (PASS C PILLAR)

PIN	FUNCTION	COLOR	AWG	FUS#	AMP
1	T/A POWER B (+)	WHT/BLU	16	F29	15
2	T/A GROUND	BLK	16	N/A	N/A
3	T/A FLASH	BLU/WHT	16	F20	2
4	T/A LEFT	WHT/BLK	16	F18	2
5	T/A RIGHT	ORG	16	F19	2

□ - EMPTY CONNECTION SQUARE REPRESENTS NO PIN

### AYE/AYW HARNESS TRUNK TRAY BLUNT CUTS

FUNCTION	COLOR	AWG	FUS#	AMP
<b>LIGHTING/SIREN</b>				
CORNER LEDS	BLK/GRN	18	F1	5
GRILLE LEDS	BLK/ORG	18	F2	5
MIRROR LEDS	RED/WHT	18	F3	5
VISOR TRIGGER	RED/ORG	18	F4	5
B PILLAR LEDS	RED/BRN	18	F7	5
DECK LEDS	RED/GRY	18	F8	5
TAKE DOWN	BLK/YLW	18	F9	2
RIGHT ALLEY	BLU/ORG	18	F10	2
LEFT ALLEY	RED/GRN	18	F11	2
LIGHTBAR FRONT	YLW/BRN	18	F12	2
LIGHTBAR REAR	GRN/VIO	18	F13	2
REAR WIG WAG	BRN/VIO	18	F14	2
FRONT WIG WAG	BRN/ORG	18	F15	2
TAIL LEDS	RED/BLU	18	F16	5
GUNLOCK	BLU	16	F17	5
T/A LEFT	WHT/BLK	18	F18	2
T/A RIGHT	ORG	18	F19	2
T/A FLASH	BLU/WHT	18	F20	2
SIREN HI	BLK/TAN	16	N/A	N/A
SIREN LO	BLK/WHT	16	N/A	N/A
<b>BATTERY (+) OUTPUTS</b>				
SIREN 1A	RED	10	F21	20
SIREN 1B	RED	10	F22	20
SIREN 2A	RED	12	F23	20
SIREN 2B	RED	12	F24	20
REAR RADIO	RED	12	F26	20
COMPUTER (TIMER OPT.)	DK GRN	12	F36	15
CAMERA (TIMER OPT.)	GRY/BLU	12	F37	10
<b>IGNITION (+) OUTPUTS</b>				
SIREN CONTROLLER	RED	12	F31	20
REAR RADIO IGN+	GRY/VIO	18	F32	5
AUX IGN+	ORG/VIO	18	F34	5
MODEM (TIMER OPT.)	WHT/VIO	18	F38	10
<b>VEHICLE SIGNAL WIRES</b>				
HDLT SENSE	BRN/DK BLU	18	N/A	N/A
PARK SENSE	BRN	18	N/A	N/A
HORN SENSE	BRN/GRY	18	N/A	N/A
HORN MUTE	BRN/YLW	18	N/A	N/A
ALARM SENSE	BRN/LT BLU	18	N/A	N/A
DRV DOOR AJAR	BRN/GRY	18	N/A	N/A
<b>SPARE LEADS</b>				
AUX	WHT	14	N/A	N/A
SPARE 1	BLK/RED	18	N/A	N/A
SPARE 2	BLK/BLU	18	N/A	N/A



### TIMER CIRCUIT

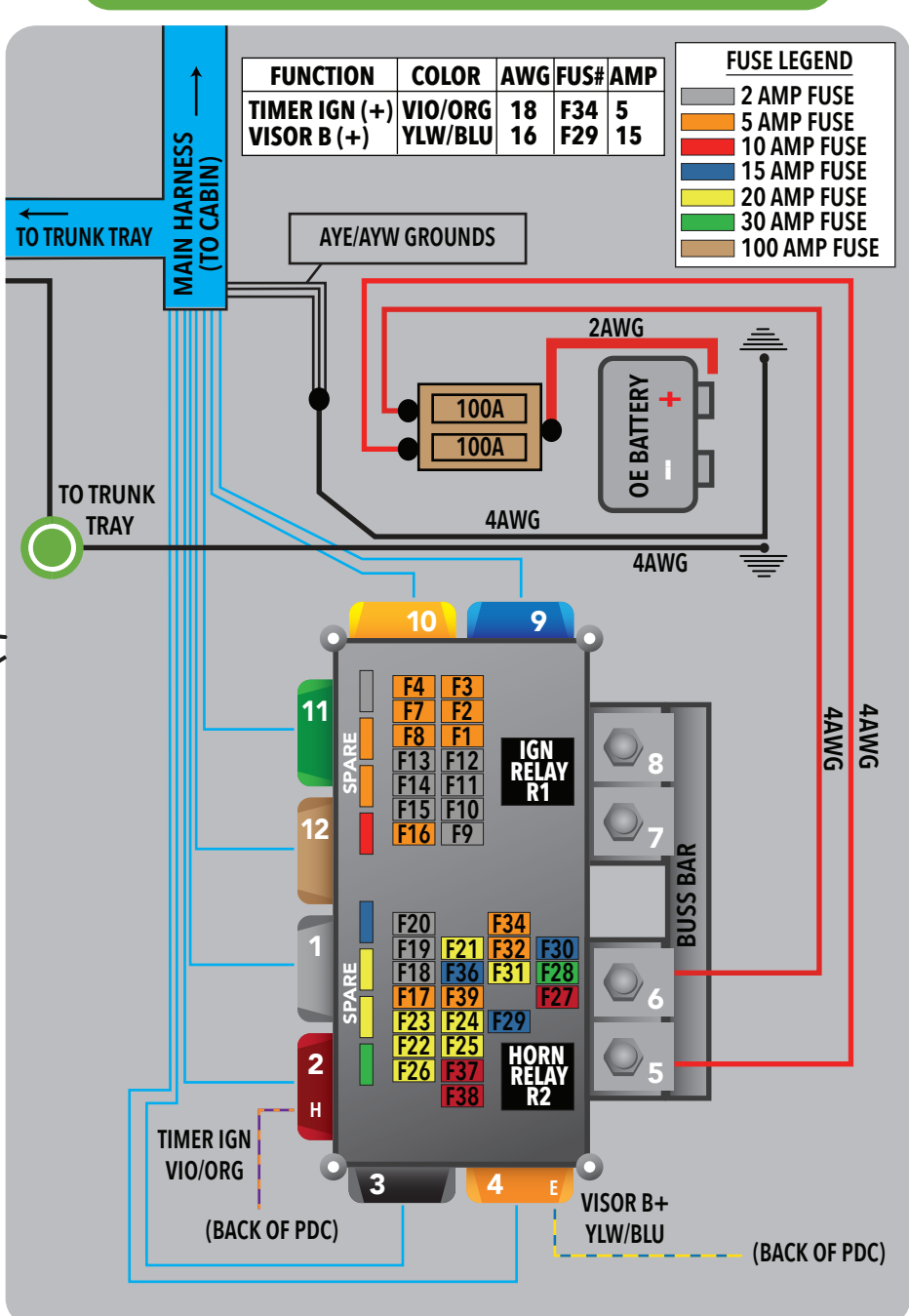
- REMOVE BOTH 100 AMP FUSES BETWEEN OE BATTERY AND AYW PDC.
- REMOVE THE BUSS BAR THAT IS ON POSTS 5-8 OF PDC. CUT THE BUSS BAR IN HALF. REINSTALL HALF THE BUSS BAR ON STUDS 7&8. TRANSFER THE (TWO) 4 AWG RED WIRES FROM S&6, TO STUD 7&8, AND REINSTALL HARDWARE.
- AN AFTERMARKET TIMER WILL NEED TO BE PROVIDED, AND INSTALLED PER MFG'S INSTRUCTIONS. TIMER (IGN+) ACTIVATION CAN BE FOUND AT THE PDC, RED PLUG (#2), PIN "H", VIO/ORG WIRE.
- PLACE 2ND HALF OF BUSS BAR ON PDC STUDS 5&6, AND CONNECT THE OUTPUT OF AFTERMARKET TIMER TO STUD 6. REINSTALL HARDWARE REMOVED IN STEP 2.
- REINSTALL BOTH 100A FUSES FROM STEP 1. TORQUE TO 18 LB-FT EACH.
- "COMPUTER", "CAMERA", "MODEM", AND "PRINTER" ARE NOW ALL CONTROLLED VIA THE AFTERMARKET TIMER SETTINGS.

### GROUNDING

- ALL LIGHTING CIRCUITS ARE GROUNDED THROUGH 4-WAY CONNECTORS VIA AYW HARNESS TO CHASSIS.
- IF AYE EQUIPPED, THE TRAY HAS A BUSS BAR THAT IS GROUNDED VIA 4 AWG TO THE CHASSIS.
- THE CONSOLE AREA ALSO CONTAINS A GROUND STUD (3/8") THAT IS GROUNDED TO CHASSIS UNDER PASSENGER SEAT VIA 8 AWG.
- THE (AYE/AYW) PDC RELAYS ARE GROUNDED THROUGH MAIN HARNESS TO CHASSIS VIA THE "DVEC" WIRE.

### AYE/AYW GROUND (≡) TABLE

FUNCTION	COLOR	AWG
DRV MIRROR LED	BLK	18
PASS MIRROR LED	BLK	18
DRV B PILLAR LED	BLK	18
PASS B PILLAR LED	BLK	18
DRV DECK LED	BLK	18
PASS DECK LED	BLK	18
DRV & PASS TAIL LED	BLK	18
VISOR	BLK	18
FAN	BLK	18
LIGHT BAR	BLK	10
DVEC	BLK	14
TRAFFIC ADVISOR	BLK	18



### LEGEND

AWG - WIRE GAUGE	PASS - PASSENGER		2-WAY BLK SPEAKER		GROUND		12-WAY GRAY VSIM FEMALE		12-WAY VSIM MALE		24-WAY WHITE VSIM MALE		24-WAY WHITE VSIM FEMALE
CAV - CAVITY	PDC - POWER DISTRIBUTION CENTER		4-WAY WHITE		FAN CONNECTOR		4-WAY BLACK		T/A CONNECTOR		CHASSIS GROUND UNDER PASS. SEAT		ONLY INCLUDED WITH AYE
DR. - DRIVER	SW - SWITCH (ED)		4-WAY HARNESS		FACTORY UNDERHOOD BLUNT CUTS		ONLY INCLUDED WITH AYE		FACTORY UNDERHOOD BLUNT CUTS		ONLY INCLUDED WITH AYE		ONLY INCLUDED WITH AYE
FUS - FUSE AMPERAGE	VSIM - VEHICLE SYSTEMS INTERFACE MODULE		CHASSIS GROUND UNDER PASS. SEAT		ONLY INCLUDED WITH AYE		ONLY INCLUDED WITH AYE		ONLY INCLUDED WITH AYE		ONLY INCLUDED WITH AYE		ONLY INCLUDED WITH AYE
FT - FRONT	- AYW HARNESS		ONLY INCLUDED WITH AYE		ONLY INCLUDED WITH AYE		ONLY INCLUDED WITH AYE		ONLY INCLUDED WITH AYE		ONLY INCLUDED WITH AYE		ONLY INCLUDED WITH AYE
IGN - IGNITION +	- TRUNK TRAY INCLUDED WITH AYE		ONLY INCLUDED WITH AYE		ONLY INCLUDED WITH AYE		ONLY INCLUDED WITH AYE		ONLY INCLUDED WITH AYE		ONLY INCLUDED WITH AYE		ONLY INCLUDED WITH AYE
PS - PATTERN SELECT	- CHARGER PURSUIT CHASSIS WIRING		ONLY INCLUDED WITH AYE		ONLY INCLUDED WITH AYE		ONLY INCLUDED WITH AYE		ONLY INCLUDED WITH AYE		ONLY INCLUDED WITH AYE		ONLY INCLUDED WITH AYE

DISCLAIMER: Please thoroughly read and understand this guide before beginning work. Also, please reference the Dodge Charger Pursuit owners manual and 2011-2018 Dodge Charger Pursuit upfitter guide for more detailed information on standard and optional equipment, technical specifications, critical areas of vehicle, and installation procedures. Content is for reference only and is subject to change without notice. CONNECTOR BAG IN GLOVE BOX: Is included with the purchase of AYE/AYW, is a supplied parts kit to mate aftermarket lighting. The connections included are for the 4-way white and 6-way traffic advisor connectors. The kit includes all seals, pins, and connectors and is located in the passenger glove box.