



# AYE/AYW CHARGER REFERENCE GUIDE

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DETERMINE IF VEHICLE CONTAINS MOPAR SALES CODE AYE OR AYW. AYW IS BASE HARNESS AND PDC ONLY. AYE INCLUDES BASE HARNESS, PDC, GRILLE SPEAKER, TRUNK TRAY AND EQUIPMENT FAN.

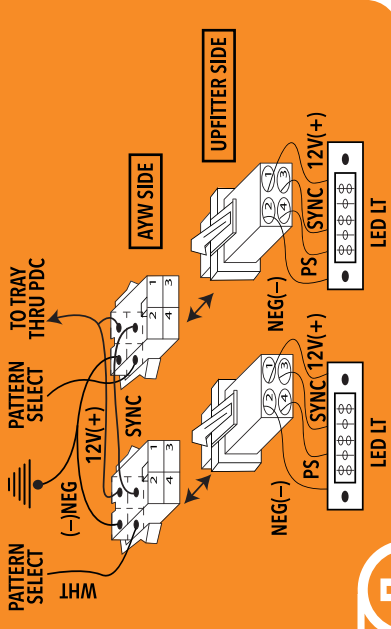
## 4-WAY WHITE CONNECTOR (AYE/AYW SIDE)

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

## 4-WAY CONNECTOR EXAMPLE



## 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)

PIN	FUNCTION	COLOR	AWG	CAV
1	BATTERY (+) 20A	RED/W/O	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

## 12-WAY GRAY 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 2-WAY BLK SPEAKER CONNECTOR

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

## CHARGER PURSUIT FACTORY UNDER HOOD BLUNT CUTS

FUNCTION	COLOR	AWG
SPARE 1	ORG	18
SPARE 2	ORG/BLK	18
SIREN HI	BLK	18
SIREN LO	GRN/WHT	18
GRILLE LED (+)	BLK/ORG	18
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	E39	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	YLV/BRN	18	F12	2
LIGHTBAR REAR	GRN/VIO	18	F13	2
LEFT ALLEY	RED/ORG	18	F11	2
RIGHT ALLEY	BLU/ORG	18	F10	2
TAKEDOWN	BLK/YLV	18	F9	2

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

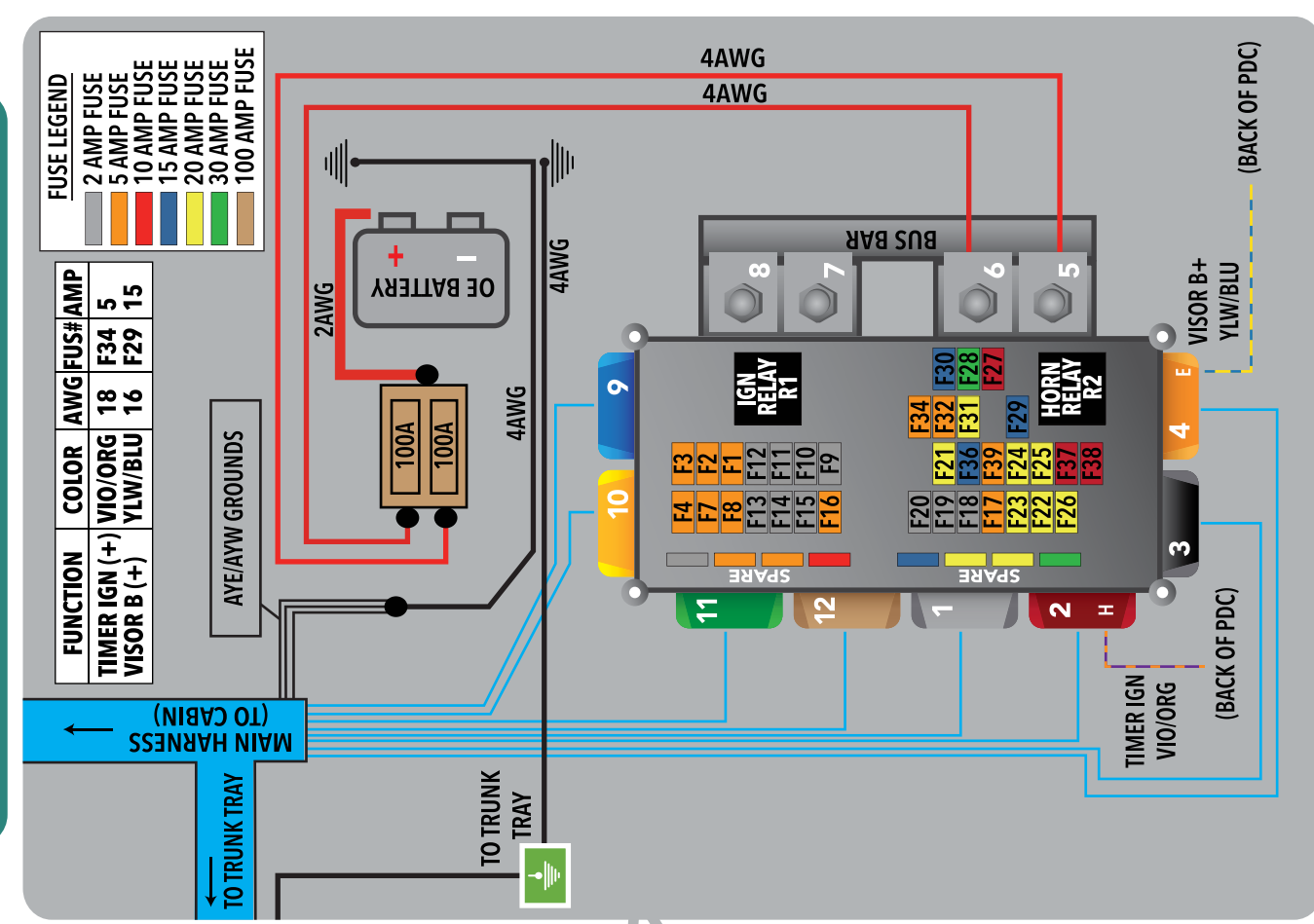
PIN	FUNCTION	COLOR	AWG	FUS#	AMP
1	T/A POWER B (+)	WHT/BLU	16	F30	15
2	T/A GROUND	BLK	N/A	N/A	N/A
3	T/A FLASH	BLU/WHT	16	F20	2
4	T/A LEFT	WHT/BLK	16	F18	2
5	T/A RIGHT	ORG	16	F19	2

## AYE/AYW HARNESS TRUNK TRAY BLUNT CUTS

FUNCTION	COLOR	AWG	FUS#	AMP
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/YLV	18	F9	2
RIGHT ALLEY	BLU/ORG	18	F10	2
LEFT ALLEY	RED/ORG	18	F11	2
LIGHTBAR FRONT	YLV/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

## AYE/AYW FAN 2-WAY CONNECTOR

PIN	COLOR	FUS#	AMP
1	RED/VIO	E34	5A
2	BLK	N/A	N/A



### AYE/AYW GROUND TABLE

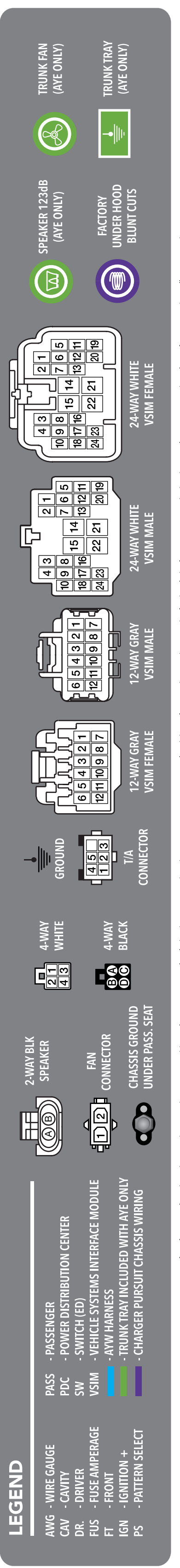
FUNCTION	COLOR	AWG
DRV MIRROR LED	BLK	18
PASS MIRROR LED	BLK	18
DRV B PILLAR LED	BLK	18
PASS B PILLAR LED	BLK	18
DRV DECK LED	BLK	18
PASS DECK LED	BLK	18
DRV & PASS TAIL LED	BLK	18
VISOR	BLK	18
FAN	BLK	18
LIGHT BAR	BLK	10
DIVEC	BLK	14
TRAFFIC ADVISOR	BLK	18

### GROUNDING

- ALL LIGHTING CIRCUITS ARE GROUNDED THROUGH 4-WAY CONNECTORS VIA AYW HARNESS TO CHASSIS.
- IF AVE EQUIPPED, THE TRAY HAS A BUS 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 "DVCC" WIRE.

### TIMER CIRCUIT

- REMOVE BOTH 100 AMP FUSES BETWEEN OE BATTERY AND AYW PDC.
- REMOVE THE BUS BAR THAT IS ON POSTS 5-8 OF PDC. CUT THE BUS BAR IN HALF. REINSTALL HALF THE BUS BAR ON STUDS 7 & 8. TRANSFER THE (TWO) 4 AWG RED WIRES FROM 5 & 6, TO STUD 7 & 8, AND REINSTALL HARDWARE.
- AN AFTERMARKET TIMER WILL NEED TO BE PROVIDED, AND INSTALLED PER MEG'S INSTRUCTIONS. TIMER (IGN+) ACTIVATION CAN BE FOUND AT THE PDC. RED PLUG (#2), PIN "H", VIO/ORG WIRE.
- PLACE 2ND HALF OF BUS 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.



READ AND UNDERSTAND THIS REFERENCE GUIDE BEFORE BEGINNING WORK. Content is for reference only and is subject to change without notice. Additional resource material includes the current Dodge Charger Pursuit Owner's Manual and the Uplifter Guide. Use these guides for detailed information on standard and optional equipment, technical specifications, and installation procedures. WITH EVERY AYE/AYW PURCHASE - Look for a Parts Kit in the glove box for aftermarket lighting. Each kit contains seals, pins and connectors for the 4-way white and 6-way traffic connectors. Contact GFX Law for full details on enhanced vehicle options and aftermarket equipment installers.