

# DODGE CHARGER PURSUIT

## OWNER'S MANUAL



## CONTACT US

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Mopar Police Equipment Manual



## Sections

1.0	Wire Harness & Power Distribution Center . . . . .	2
2.0	Power . . . . .	2 - 4
3.0	Timed Controlled Power Circuits . . . . .	4
4.0	Trunk Tray . . . . .	5
5.0	Grounding . . . . .	5
6.0	Vehicle Systems . . . . .	6
7.0	Lighting . . . . .	6 - 9
8.0	Power Distribution . . . . .	9
9.0	Other Equipment . . . . .	10 - 11
10.0	Contact Information . . . . .	12



This manual will assist in guiding you through the features and possible uses of the Mopar Police Equipment installed on your vehicle. Your vehicle may not be equipped with all of the equipment described in this manual.

Sales Codes **AYE-Base Prep Package** and **AYW-Wire Harness Prep** install the Mopar Wire Harness and Power Distribution Center (PDC). This emergency equipment wiring system supplies power, ground and pre-wired light locations throughout the vehicle, which can be used with most communications, either voice, data or video systems and emergency warning systems in use or on the market today.

Additionally, Mopar offers a wide variety of options that provide officer safety, convenience of equipment installation and appearance.

Prior to installing your emergency equipment familiarize yourself with the options and their placement in the vehicle. Plan your work so that un-necessary disassembly is eliminated. Consult the 2006-2010 and the 2011-2014 and the 2015 Police Upfitters Guide available at [www.fleet.chrysler.com](http://www.fleet.chrysler.com) for additional information on proper handling of electrical circuitry in the Dodge Charger Pursuit/Enforcer.

## 1.0 Wire Harness & Power Distribution Center

Sales Codes AYE-Base Prep and AYW-Wire Harness Prep both install the Mopar Wire Harness and Power Distribution Center (PDC). These two components can be broken down into five (5) areas:

1. Power
2. Lighting
3. Vehicle Systems
4. Grounding
5. Distribution

Fig. 1.0



## 2.0 Power

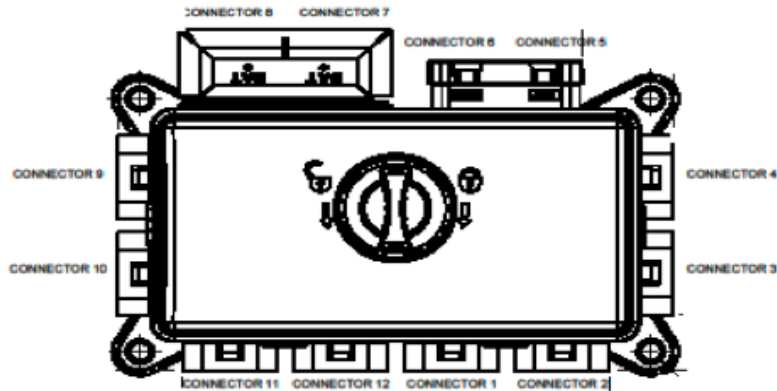
There are 20 power circuits that can be configured to supply the appropriate type power either battery or ignition and amperage sufficient for the component being powered. See accompanying Chart for (Fig 2.0) for name of circuit, type of circuit, pickup location, amperage, length of lead, color and fuse cavity.

Fig. 2.0

Power	B+/Ign/Timed	Pick Up Location	Amps	Length	Color	Fuse Cavity
Visor	B+	PDC	15	1 ft	Ylw/Blu	F29
Traffic Adv.	B+	Trunk	15	6 ft	Wh/Blu	F30
Radar	B+	Console	10	6 ft	Brown	F27
Lightbar	B+	B-Pillar	30	6 ft	Red	F28
Siren 1a	B+	Trunk	20	4 ft	Red	F21
Siren 1b	B+	Trunk	20	4 ft	Red	F22
Siren 2a	B+	Trunk	20	17 ft	Red	F23
Siren 2b	B+	Trunk	20	17 ft	Red	F24
Rear Radio	B+	Trunk	20	6 ft	Red	F25
Front Radio	B+	Console	20	17 ft	Red	F26
Computer	B+/Timed	Trunk	15	17 ft	Green	F36
Camera	B+/Timed	Trunk	10	17 ft	Gray/Blu	F37
Modem	Ign/Timed	Trunk	10	17 ft	Wh/Vi	F38
Printer	B+/Timed	Console	5	4 ft	Gray	F39
Siren	Ign	Trunk	20	4 ft	Red	F31
Rear Radio Ign	Ign	Trunk	5	4 ft	Gry/Vio	F32
Aux Ign	Ign	Trunk	5	4 ft	Org/Vio	F34
Frt Radio Ign	Ign	Console	5	4 ft	Yellow	F34
Fan	Ign	Trunk	5	6 ft	Red/Blu	F34
Timer	Ign	PDC	5	1 ft	Vio/Org	F34



Fig. 2.1



### 3.0 Timer Controlled Power Circuits

Circuits labeled B+/Timed can be placed on a customer supplied power timer.

1. Disconnect main power from battery by removing the two (2) 100 amp fuses from the main fuse block located adjacent to the battery in the spare tire cavity.
2. Remove passenger side trunk trim or loosen and move aside if trunk tray is in the way.
3. The buss bar that connects the four (4) power inputs to the PDC needs to be cut between the upper and lower pairs of studs. Remove the four (4) nuts retaining the buss bar and cut with an appropriate metal cutting saw. Cut the center section out, flush with the main connection points.
4. The Two (2) main power inputs into the PDC must be moved from the lower two studs to the upper two studs.
5. Locate a suitable mounting location for the timer device.
6. Route the timer device input wire from the upper middle stud to the device.
7. Route the timer device output wire from the device to the lower middle stud.
8. Locate and extend to the timer device the Timer wire from the PDC to the timer device.
9. Route the timer device ground to a suitable ground.
10. Reinstall the two (2) 100-amp fuses
11. Reinstall Trunk Trims

## 4.0 Trunk Tray

The Trunk Tray provides a stable, easily accessible platform from which electrical equipment can be installed. It provides a 36.5-inch by 19-inch (92.7cm by 48.3cm) mounting surface for electrical and communications gear. Locking slides provide the movement, allowing easier access to equipment mounted to the tray. The maximum weight capacity of equipment on the tray is 60 lbs. (27.27 kg.).

Fig. 4.0



To secure the tray locks and lock bushings, slide the tray all the way in, toward the front of the vehicle, and secure the two hex bolts to the side brackets. **Tray must be locked before vehicle is put in motion. Follow the instructions provided with the kit.**

The Trunk Tray is equipped with a grounding Buss Bar along the forward flange. This Buss Bar is to provide grounding for Trunk Tray-mounted equipment and is capable of handling 150 amps of grounding. The ground cable runs from the tray to a chassis ground by the battery.

## 5.0 Grounding

The Mopar Wire Harness supplies three grounding points.

1. All lighthead circuits have a common ground point by the battery. When installing lights using the pre-wired light head locations of the vehicle no additional grounding is necessary.
2. If the vehicle is equipped with the Mopar Slide-out Trunk Tray (AYE-Base Prep Package), the trunk tray is supplied with a grounding buss bar along its forward edge. Any electrical equipment mounted to the trunk tray should have its ground attached to one of the grounding bolts on the buss bar.
3. A grounding point is supplied at the center console area by a 5/16 stud attached to the transmission tunnel. Equipment grounds can have an eyelet terminal installed and when tightened the equipment is grounded to the vehicle chassis.

## 6.0 Vehicle Systems

The Mopar Wire Harness interfaces with the vehicle's Vehicle Systems Interface Module (VSIM). The VSIM module provides both inputs to the vehicle's Can Buss System and Outputs from the Can Buss System. See Fig 6.0 for circuits provided. Front and rear wig-wag functions are covered under Lighting.

Fig 6.0

Can-Bus Output Circuits	Pick up Location	Length	Color
Alarm Sense	Trunk	17 ft (5.2m)	Brn/Lt Blu
Driver's Door Ajar	Trunk	17 ft (5.2m)	Brn/Gry
Headlight Sense	Trunk	17 ft (5.2m)	Brn/Drk Blu
Horn Mute	Trunk	17 ft (5.2m)	Brn/Ylw
Horn Sense	Trunk	17 ft (5.2m)	Brn/Gry
Park Sense	Trunk	17 ft (5.2m)	Brn

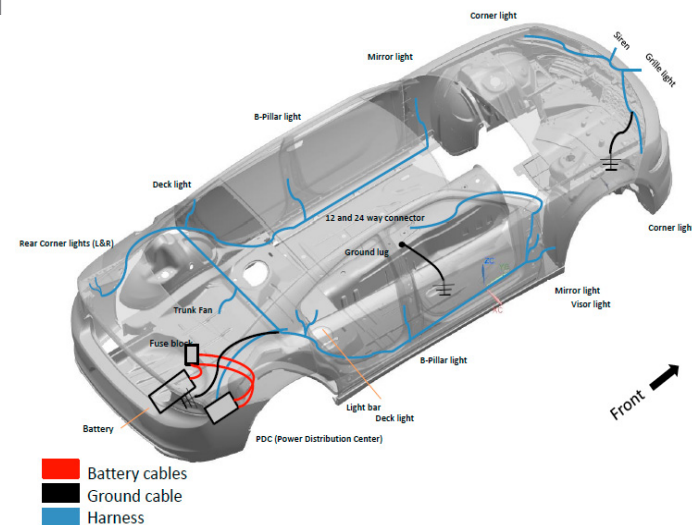
These circuits are provided at the trunk tray for connection to siren systems or other systems that may utilize these outputs for various functions. Please refer to the 2015 Upfitters Guide for output values from the VSIM.

## 7.0 Lighting

The Mopar Wire Harness provides a convenient method of adding roof top and perimeter lights to the vehicle and to activate the built in Headlamps and Tail lamps Flasher system. There are eight (8) locations that are pre-wired to accept L.E.D. lighting. The 10 leads are run to the trunk for customer connection to a lighting control system.

1. Roof
2. Front Corners
3. Grille
4. Outside Mirrors
5. Visor
6. B-Pillar
7. Rear Deck (Package Shelf)
8. Rear Corners
9. Head lights
10. Tail lights

Fig 7.1



Each of the wire harness connectors contains power, ground and synchronize wires. The synchronize wire connects the pair of lights together to achieve a wig-wag effect. Please consult your light manufacturer's installation guides for setting specific patterns utilizing their synchronize features. Each vehicle has a supply of mating connectors with terminals, weather seals and cavity plugs to install lights into each available harness position. Fig 7.2 and 7.3 provides the pinout configuration for customer supplied lighting for connection to the wire harness.

The Head Light and/or the Tail Light Flasher system is activated when 12 volts is applied to wires marked Front Wig-Wag and/or Rear Wig-Wag. No additional wiring or equipment are needed. Note: For the 2015 Model Year, the LED Front Eyebrow lights are now considered the Front Wig-Wag. The High beam light is no longer the flashing light.

Fig 7.2

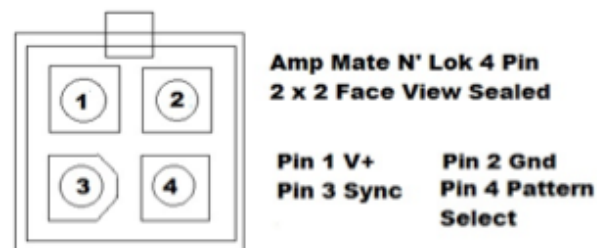


Fig 7.3

POWER	LOCATION	AMP	LENGTH	COLOR	FUSE CAVITY
Gunlock	Trunk/ Console	5	4 ft (1.2m)	Blue	F17
T/A Left	Trunk	2	4 ft (1.2m)	Wh/Blk	F18
T/A Right	Trunk	2	4 ft (1.2m)	Orange	F19
T/A Flash	Trunk	2	4 ft (1.2m)	Blu/Wh	F20
Lightbar Front	Trunk	2	4 ft (1.2m)	Ylw/Brn	F12
Left Alley	Trunk	2	17 ft (5.2m)	Red/Grn	F11
Right Alley	Trunk	2	17 ft (5.2m)	Blu/Org	F10
Take Down	Trunk	2	17 ft (5.2m)	Blk/Ylw	F09
Tail LED	Trunk	5	17 ft (5.2m)	Red/Blu	F16
Front Wig Wag	Trunk	2	17 ft (5.2m)	Brw/Org	F15
Rear Wig Wag	Trunk	2	17 ft (5.2m)	Brw/Vio	F14
Light Bar Rear	Trunk	2	17 ft (5.2m)	Grn/Vio	F13
Front Corner	Trunk	5	17 ft (5.2m)	Blk/Grn	F01
Grille LED	Trunk	5	17 ft (5.2m)	Blk/Brw	F02
Mirror LED	Trunk	5	17 ft (5.2m)	Red/Wh	F03
DVEC Ground				Blk	
DVEC Ground				Blk	
Visor	Trunk	5	17 ft (5.2m)	Red/Org	F04
B-Pillar	Trunk	5	17 ft (5.2m)	Red/Brn	F07
Deck LED	Trunk	5	17 ft (5.2m)	Red/Vio	F08

### Misc. Circuits

There are 3 additional circuits for customer usage. The first is the Siren Speaker + & -, connect a siren system to the siren speaker without additional wiring. There is an AUX circuit that can be utilized for any additional circuit that may be necessary. This circuit can handle 10 amps and is NOT fused. Fig 5.0 show those circuits

Fig 7.4

MISC. CIRCUITS	LOCATION	AMPS	LENGTH	COLOR
Siren Speaker +	Trunk	0	17 ft (5.2 m)	Blk/Tan
Siren Speaker -	Trunk	0	17 ft (5.2 m)	Blk/Wht
Aux	Trunk/ Console	10	4 ft (1.2 m)	White

## 8.0 Power Distribution

The Power Distribution Center (PDC) is located in the passenger side rear corner of the trunk. In addition to the fusing for the circuits listed, two relays are also provided for customer use. Relay R1 is used for Ignition power circuits and Relay R2 is for a horn output relay.

The horn output relay takes the Horn Sense from the VSIM and transfers the signal to both the siren system through the Horn Sense Brw/Gry wire and also the Horn Mute input to the VSIM through the Brw/Ylw wire. This eliminates the need for a separate relay and wiring to achieve the horn switch transfer function on many siren systems. Consult your siren manufacturer's installation instructions for their systems operation.

## 9.0 Other Equipment

### Base Prep Package-AYE

In addition to the wire harness and the power distribution center, the Base Prep Package provides three (3) additional pieces of equipment.

1. Slide Out Trunk Tray-36.5" x 19" (92cm x 48.3cm) and can hold 60 lbs (27.3kg). To release the tray, remove the two bolts from the tray slide. To lock tray back into place slide tray forward and reinstall the bolts.
2. Trunk Fan-The Trunk Fan pulls air from the cabin into the trunk to warm or cool the trunk interior. The fan operates from the ignition switch.
3. Siren Speaker-In the Grille of the car is mounted a 100 watt 123 db siren speaker. Connections for the siren speaker are located in the trunk.



Anti-Stab Panel



Ballistic Door

### Police Floor Console-Sales (CUG)

The 24" Police Floor Console will accommodate a wide range of equipment. Additional Accessories may be purchased from Havis, Inc. [www.havis.com](http://www.havis.com) 800-524-9900.

### Steel Seat Back Panels-Sales (CBT)

The Steel Seat Back Panels provide stab & puncture protection through the front seat back from the rear seat. These panels meet or exceed the NIJ Standard 0115-00 for personal body armor.

### Driver Side Ballistic Door Panel-Sales (XDV)

The Ballistic Door Panel integrates into the door between the outer door skin and the window. These panels provide ballistic protection exceeding the NIJ Level III Ballistic Test procedure. They also pass the more stringent Los Angeles Police Department specification.



Vinyl Body Wraps

### Passenger Side Ballistic Door Panel-Sales (XDG)

The Ballistic Door Panel integrates into the door between the outer door skin and the window. These panels provide ballistic protection exceeding the NIJ Level III Ballistic Test procedure. They also pass the more stringent Los Angeles Police Department specification.

### White Vinyl Graphics-Sales (M2B, M2C, M3F, M3G, M3H)

The 3M(TM) vinyl body wrap provides typical White body color configurations. Vinyl surfaces should be kept clean with mild soap and water. Vinyl Body wraps may be run through car washes. Touch less car washes are the best for the graphic care. Repeated use of brush car washes (depending upon the frequency and quality of brush) may cause dulling/scratching/lifting edge of the graphics. For graphics care procedures visit [www.3MGraphics.com](http://www.3MGraphics.com) Additional graphics such as department specific graphics may be applied over the body wrap. Consult your graphics supplier installation instructions for application procedures

### Full Sized Spare Tire Relocation Bracket-Sales Code (TBH)

The Spare Tire Relocation bracket move the tire lower and forward in the trunk compartment. To remove the tire, undo the wing nut from the center bolt. Move attaching bolt slightly to passenger's side and foreword to release it from the keyhole. Remove jack and bolt assembly. Remove spare tire. Reinstallation of the tire & jack assembly is the reverse of removal. Bracket is required when installing slide out trunk tray with a full size spare tire.