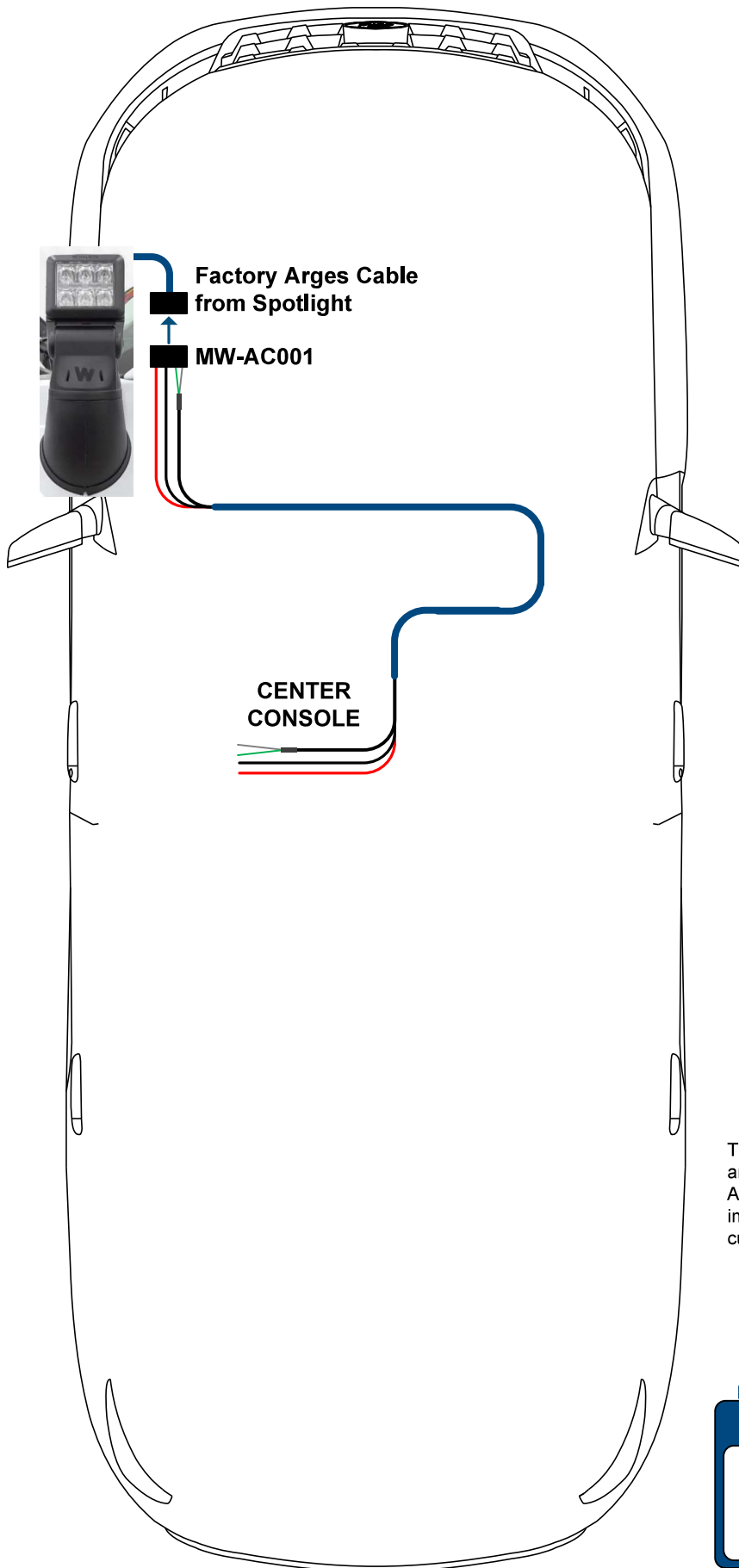


AFS

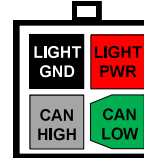
ALL FLEET SOLUTIONS



**Harnesses and Systems for
Whelen Core C399 Products
Lighting / Power Distribution / Data Distribution**

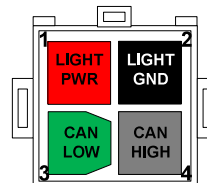


Spotlight Side



The rear view of the connectors are shown. The spotlight side connector is provided by Whelen Engineering Co. with the Arges Spotlight.

Harness Side



Arges Spotlight Power Cable:

- Pin 1 – 16 Ga. RD Spotlight Power "LIGHT PWR"
- Pin 2 – 16 Ga. BK Spotlight Ground "LIGHT GND"
- Pin 3 – 20 Ga. GN CAN Low
- Pin 4 – 20 Ga. GY CAN High
- 4" Exposed
- Connector Pinned Out for Spotlight

Console Breakout:

- 16 Ga. RD Spotlight Power "LIGHT PWR"
- 16 Ga. BK Spotlight Ground "LIGHT GND"

2 Conductor Shielded CAN Cable:

- 20 Ga. GN CAN Low
- 20 Ga. GY Can High
- Shield and 20 Ga. Drain Wire
- 20" Exposed

The Arges Spotlight Power Cable provides the power, ground, and CAN bus data connection from the spotlight to the Whelen Arges Controller mounted in the vehicle's center console. The installer will need to make the final terminations to the customer's control head or a CAN bus connection point.

EDD 082720

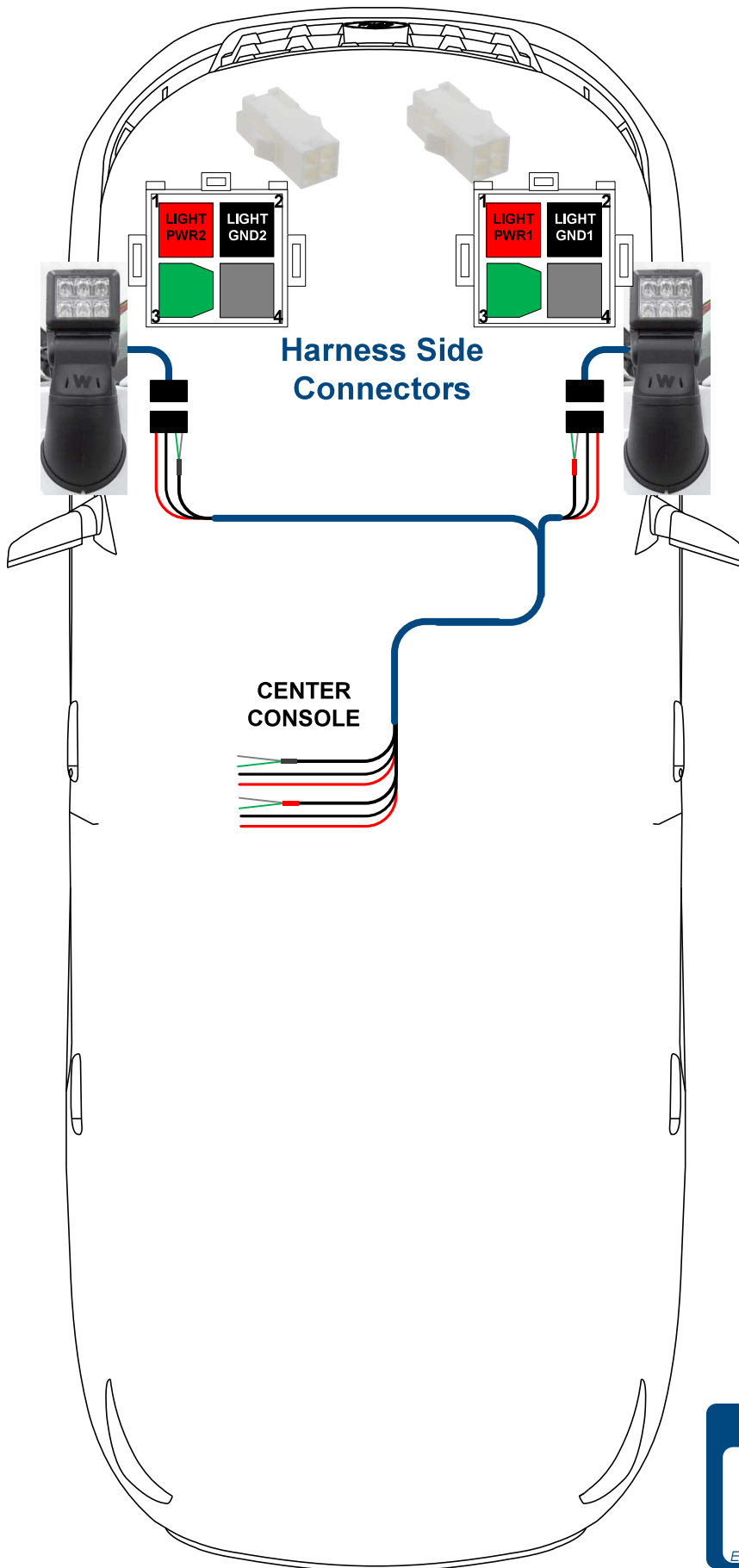
ECN 092721

TECHNICAL SUPPORT & SALES CONTACT:

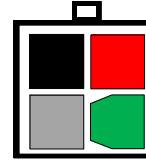
Phone: 844-423-7200

Email: Sales@AllFleetSolutions.com

Web: www.AllFleetSolutions.com



Spotlight Side



The rear view of the connectors are shown. The spotlight side connector is provided by Whelen Engineering Co. with the Arges Spotlight.

Arges Spotlight Driver Side:

- Pin 1 – 16 Ga. RD Spotlight Power “LIGHT PWR2”
- Pin 2 – 16 Ga. BK Spotlight Ground “LIGHT GND2”
- Pin 3 – 20 Ga. GN CAN Low
- Pin 4 – 20 Ga. GY CAN High
- 4" Exposed
- Black heat shrink on CAN bus cable
- Connector pinned out for Spotlight

Arges Spotlight Passenger Side:

- Pin 1 – 16 Ga. RD Spotlight Power “LIGHT PWR1”
- Pin 2 – 16 Ga. BK Spotlight Ground “LIGHT GND1”
- Pin 3 – 20 Ga. GN CAN Low
- Pin 4 – 20 Ga. GY CAN High
- 4" Exposed
- Red heat shrink on CAN bus cable
- Connector pinned out for Spotlight

Console Breakout:

- 16 Ga. RD Passenger Spotlight Power “LIGHT PWR1”
- 16 Ga. BK Passenger Spotlight Ground “LIGHT GND”
- 16 Ga. RD Driver Spotlight Power “LIGHT PWR2”
- 16 Ga. BK Driver Spotlight Ground “LIGHT GND2”

2 Conductor Shielded CAN Cable: Driver Spotlight

- Black heat shrink on CAN bus cable
- 20 Ga. GN CAN Low
- 20 Ga. GY Can High
- Shield and 20 Ga. Drain Wire
- 20" Exposed – flag label reads: Driver Spotlight

2 Conductor Shielded CAN Cable: Passenger Spotlight

- Red heat shrink on CAN bus cable
- 20 Ga. GN CAN Low
- 20 Ga. GY Can High
- Shield and 20 Ga. Drain Wire
- 20" Exposed – flag label reads: Passenger Spotlight

The Arges Spotlight Power Cable provides the power, ground, and CAN bus data connection from the spotlight to the Whelen Arges Controllers mounted in the vehicle's center console. The installer will need to make the final terminations to the customer's control heads or a CAN bus connection point.

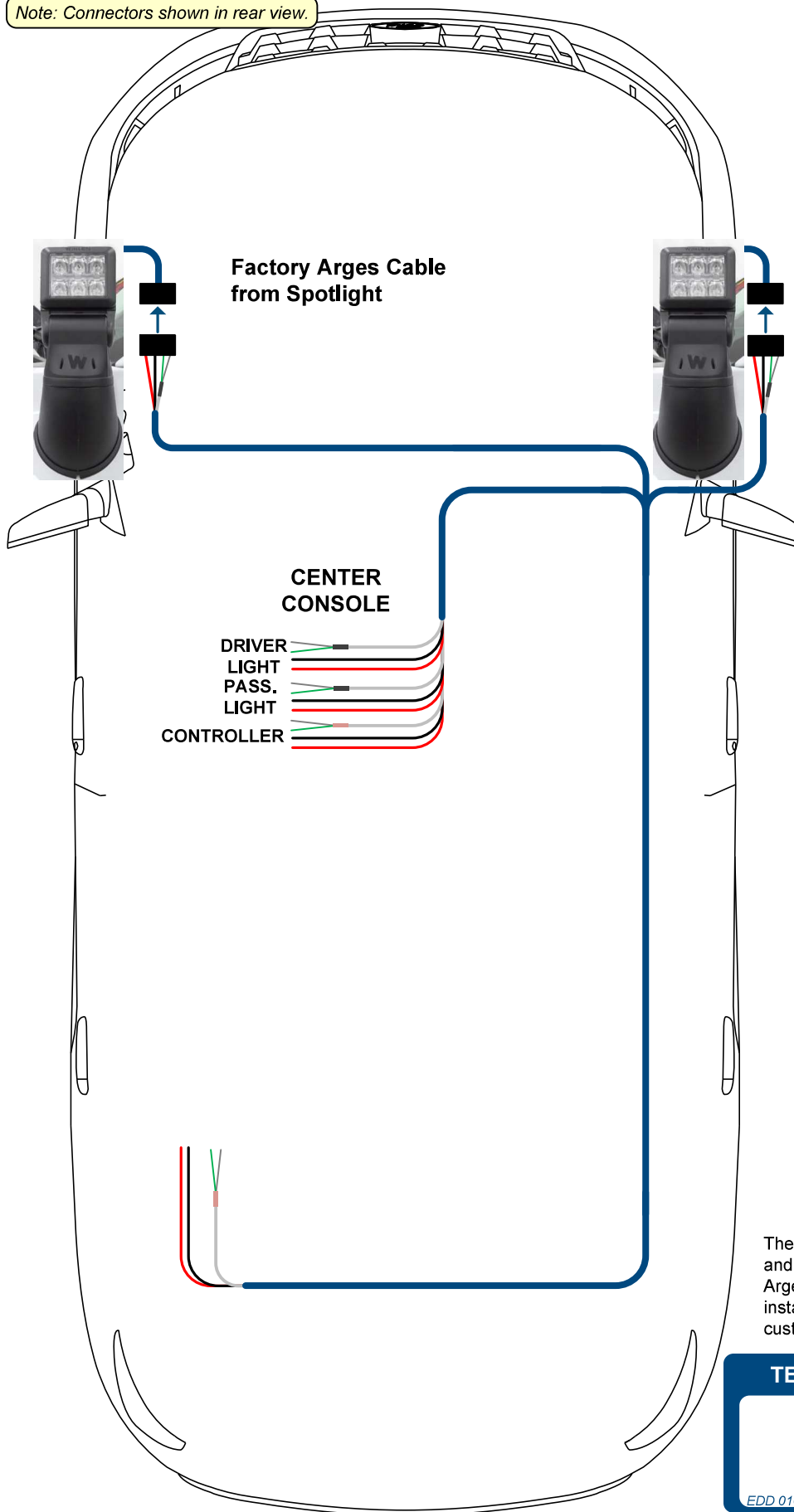
TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

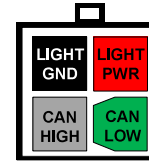
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

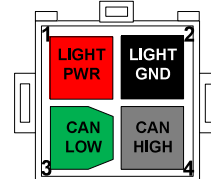
Note: Connectors shown in rear view.



Spotlight Side



Harness Side



Arges Spotlight Power Cable:

- Pin 1 – 16 Ga. RD Spotlight Power "LIGHT PWR"
- Pin 2 – 16 Ga. BK Spotlight Ground "LIGHT GND"
- Pin 3 – 20 Ga. GN CAN Low
- Pin 4 – 20 Ga. GY CAN High
- 4" Exposed
- Connector Pinned Out for Spotlight

Console Breakout Driver ARGES Spotlight:

- 16 Ga. RD Spotlight Power "DR LT PWR"
- 16 Ga. BK Spotlight Ground "DR LT GND"
- 2 Conductor Shielded CAN Cable:
- 20 Ga. GN CAN Low
- 20 Ga. GY Can High
- 20" Exposed

Console Breakout Pass. ARGES Spotlight:

- 16 Ga. RD Spotlight Power "PS LT PWR"
- 16 Ga. BK Spotlight Ground "PS LT GND"
- 2 Conductor Shielded CAN Cable:
- 20 Ga. GN CAN Low
- 20 Ga. GY Can High
- 20" Exposed

Console Breakout ARGES Controller:

- 16 Ga. RD Arges Controller Power "ARGES PWR"
- 16 Ga. BK Arges Controller Ground "ARGES GND"
- 2 Conductor Shielded CAN Cable:
- 20 Ga. GN CAN Low
- 20 Ga. GY Can High
- 20" Exposed

CAN INPUTS

- Can Low – 20 Ga. GN Twisted Pair
- Can High – 20 Ga. GY Twisted Pair

The Arges Spotlight Power Cable provides the power, ground, and CAN bus data connection from the spotlight to the Whelen Arges Controller mounted in the vehicle's center console. The installer will need to make the final terminations to the customer's control head or a CAN bus connection point.

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

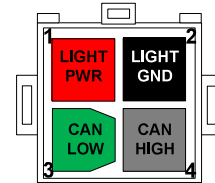
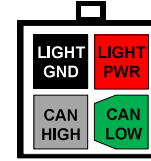
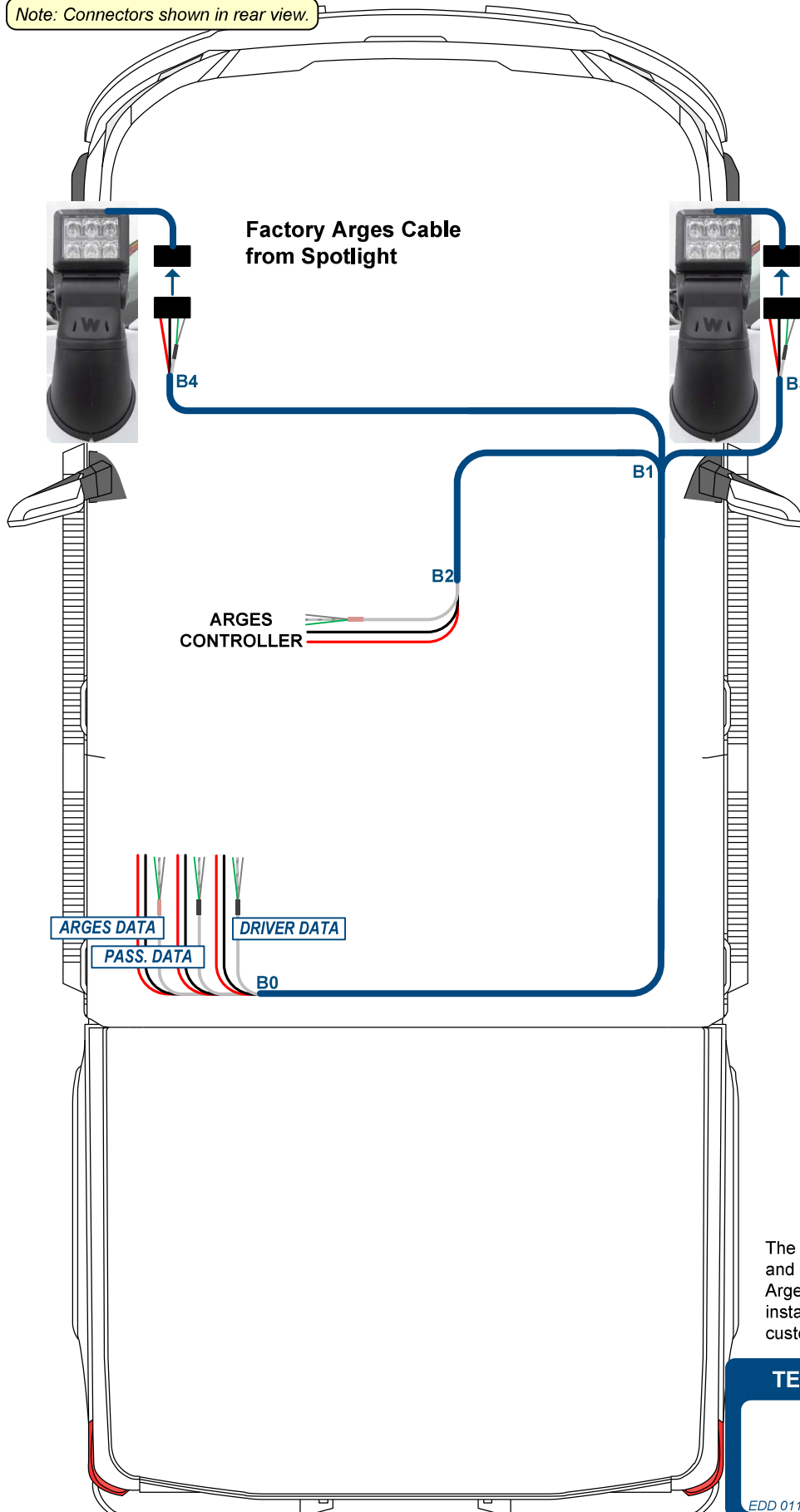
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 010124

ECN 000000

Note: Connectors shown in rear view.



Arges Spotlight Power Cable:

- Pin 1 – 16 Ga. RD Spotlight Power "LIGHT PWR"
- Pin 2 – 16 Ga. BK Spotlight Ground "LIGHT GND"
- Pin 3 – 20 Ga. GN CAN Low
- Pin 4 – 20 Ga. GY CAN High
- 4" Exposed
- Connector Pinned Out for Spotlight

Console Breakout ARGES Controller:

- 16 Ga. RD Arges Controller Power "ARGES PWR"
- 16 Ga. BK Arges Controller Ground "ARGES GND"
- 2 Conductor Shielded CAN Cable:
 - 20 Ga. GN CAN Low
 - 20 Ga. GY Can High
 - 20" Exposed

Rear Breakout Driver ARGES Spotlight:

- 16 Ga. RD Spotlight Power "DR LT PWR"
- 16 Ga. BK Spotlight Ground "DR LT GND"
- 2 Conductor Shielded CAN Cable:
 - 20 Ga. GN CAN Low
 - 20 Ga. GY Can High
 - 20" Exposed

Rear Breakout Pass. ARGES Spotlight:

- 16 Ga. RD Spotlight Power "PS LT PWR"
- 16 Ga. BK Spotlight Ground "PS LT GND"
- 2 Conductor Shielded CAN Cable:
 - 20 Ga. GN CAN Low
 - 20 Ga. GY Can High
 - 20" Exposed

The Arges Spotlight Power Cable provides the power, ground, and CAN bus data connection from the spotlight to the Whelen Arges Controller mounted in the vehicle's center console. The installer will need to make the final terminations to the customer's control head or a CAN bus connection point.

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

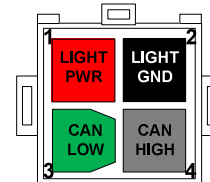
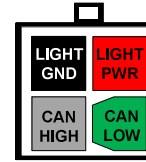
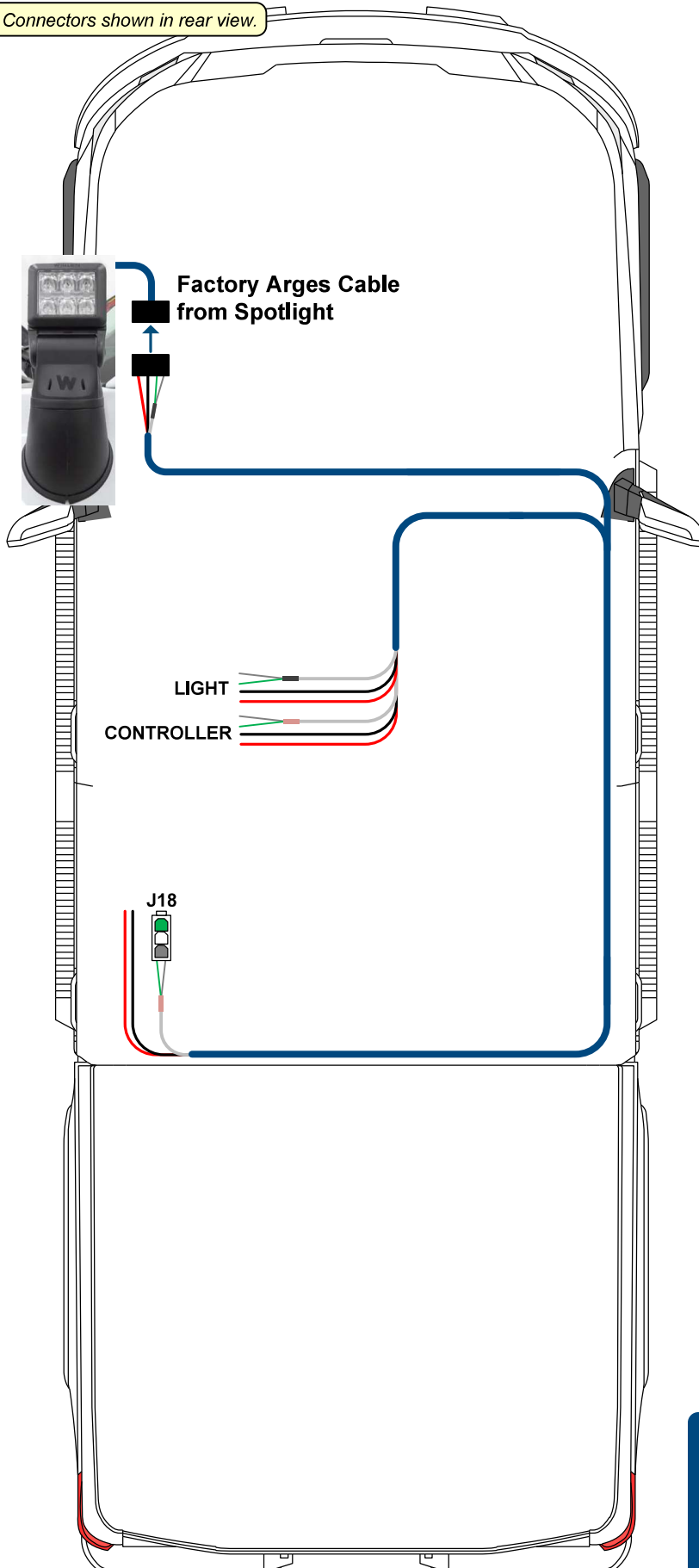
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 011025

ECN 000000

Note: Connectors shown in rear view.



Arges Spotlight Power Cable:

- Pin 1 – 16 Ga. RD Spotlight Power “LIGHT PWR”
- Pin 2 – 16 Ga. BK Spotlight Ground “LIGHT GND”
- Pin 3 – 20 Ga. GN CAN Low
- Pin 4 – 20 Ga. GY CAN High
- 4" Exposed
- Connector Pinned Out for Spotlight

Console Breakout ARGES Spotlight:

- 16 Ga. RD Spotlight Power “LIGHT PWR”
- 16 Ga. BK Spotlight Ground “LIGHT GND”

2 Conductor Shielded CAN Cable:

- 20 Ga. GN CAN Low
- 20 Ga. GY Can High
- 20" Exposed

Console Breakout ARGES Controller:

- 16 Ga. RD Arges Controller Power “ARGES PWR”
- 16 Ga. BK Arges Controller Ground “ARGES GND”

2 Conductor Shielded CAN Cable:

- 20 Ga. GN CAN Low
- 20 Ga. GY Can High
- 20" Exposed



J18 CAN INPUTS TO CORE

- Pin 1 Can Low – 20 Ga. GN Twisted Pair
- Pin 2 Not Used
- Pin 3 Can High – 20 Ga. GY Twisted Pair

The Arges Spotlight Power Cable provides the power, ground, and CAN bus data connection from the spotlight to the Whelen Arges Controller mounted in the vehicle's center console. The installer will need to make the final terminations to the customer's control head or a CAN bus connection point.

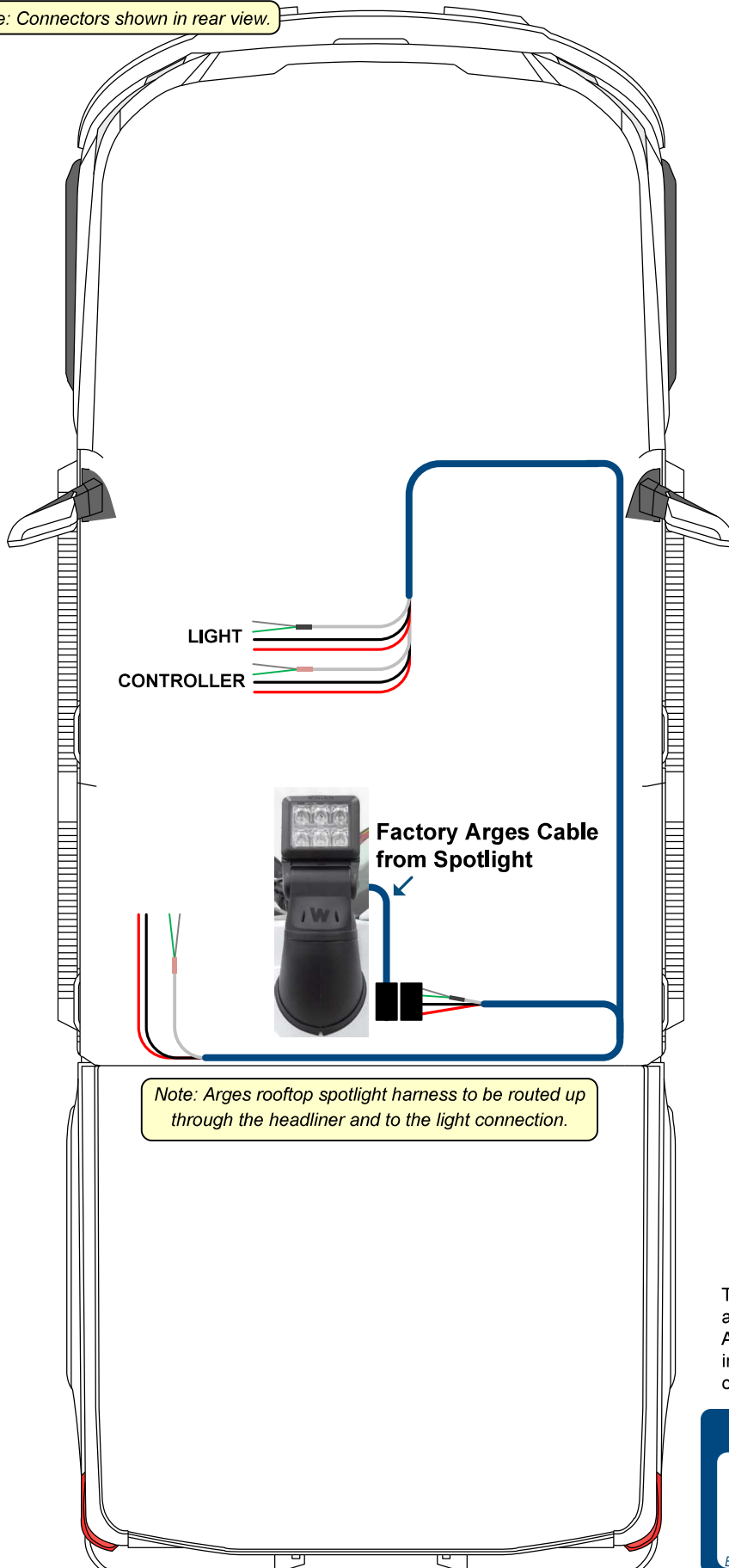
TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

Note: Connectors shown in rear view.



Console Breakout ARGES Spotlight:

- 16 Ga. RD Spotlight Power "LIGHT PWR"
- 16 Ga. BK Spotlight Ground "LIGHT GND"
- 2 Conductor Shielded CAN Cable:
 - 20 Ga. GN CAN Low
 - 20 Ga. GY Can High
 - 20" Exposed

Console Breakout ARGES Controller:

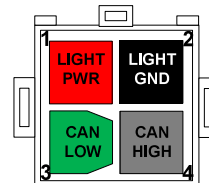
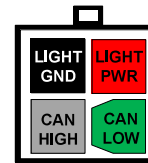
- 16 Ga. RD Arges Controller Power "ARGES PWR"
- 16 Ga. BK Arges Controller Ground "ARGES GND"
- 2 Conductor Shielded CAN Cable:
 - 20 Ga. GN CAN Low
 - 20 Ga. GY Can High
 - 20" Exposed

Arges Spotlight Power Cable:

- Pin 1 – 16 Ga. RD Spotlight Power "LIGHT PWR"
- Pin 2 – 16 Ga. BK Spotlight Ground "LIGHT GND"
- Pin 3 – 20 Ga. GN CAN Low
- Pin 4 – 20 Ga. GY CAN High
- 4" Exposed
- Connector Pinned Out for Spotlight

CAN INPUTS TO CORE

- Can Low – 20 Ga. GN Twisted Pair
- Can High – 20 Ga. GY Twisted Pair



The Arges Spotlight Power Cable provides the power, ground, and CAN bus data connection from the spotlight to the Whelen Arges Controller mounted in the vehicle's center console. The installer will need to make the final terminations to the customer's control head or a CAN bus connection point.

TECHNICAL SUPPORT & SALES CONTACT:

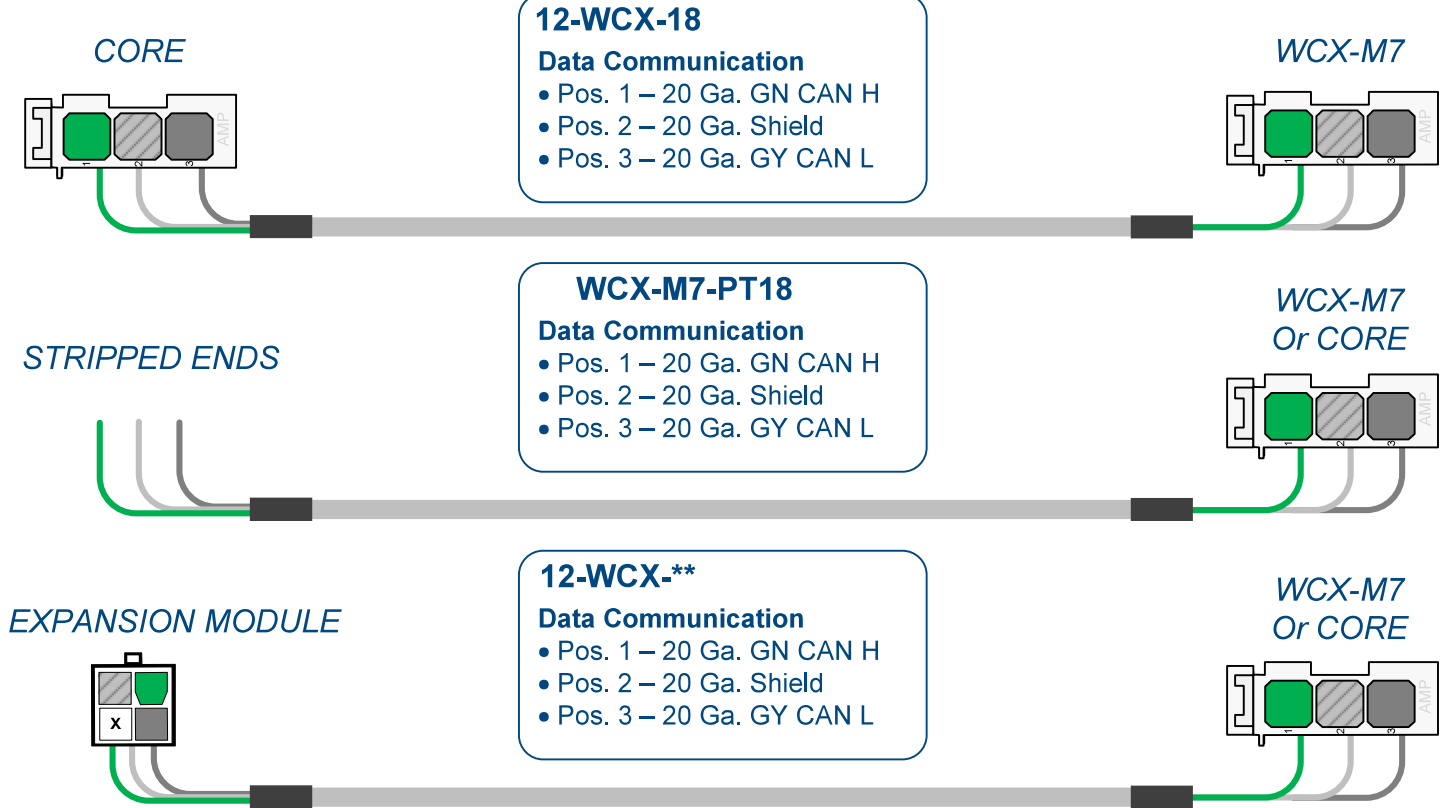
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

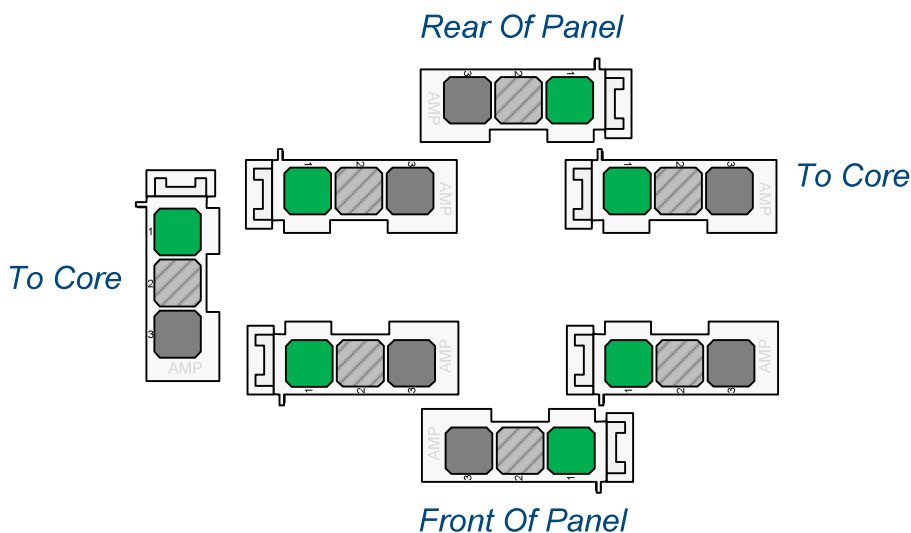
Web: www.allfleetsolutions.com

EDD 061824

ECN 000000



WCX-M7



AFS# 3-009-F3



AFS# 3-009-S1-1620

TECHNICAL SUPPORT & SALES CONTACT:

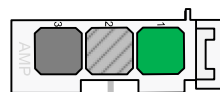
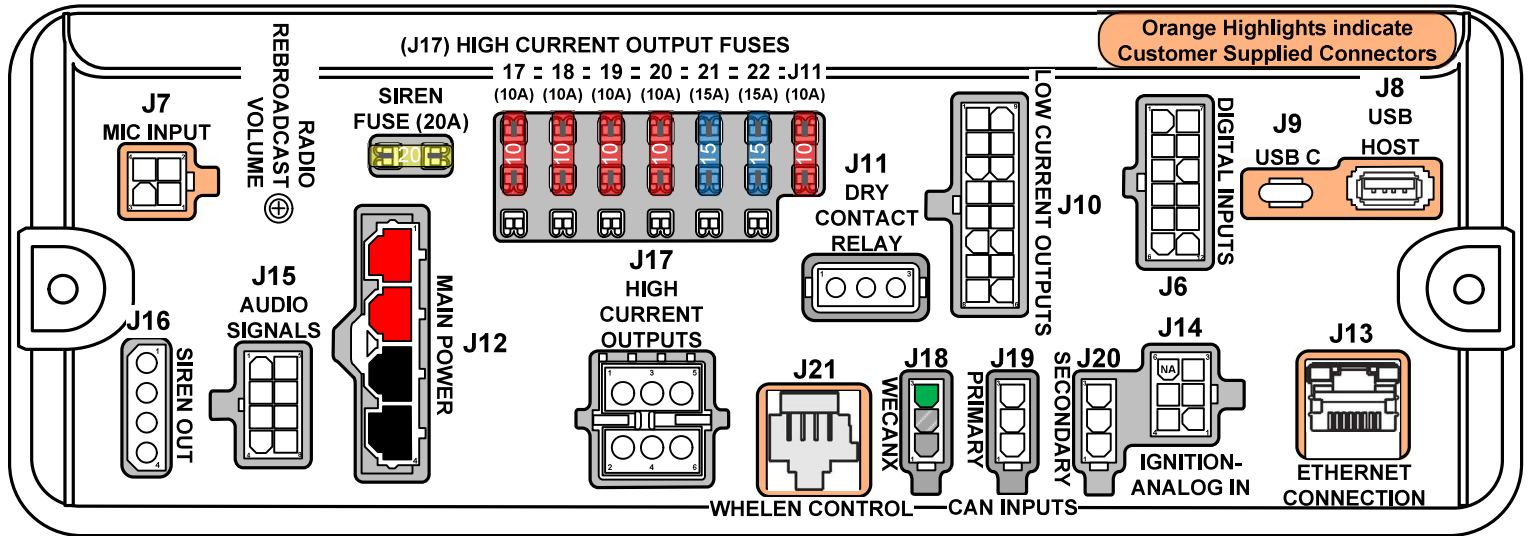
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

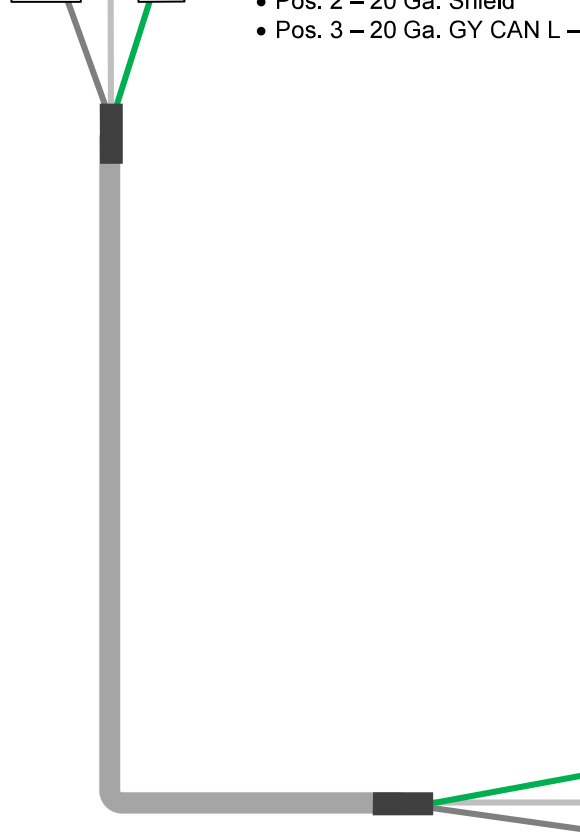
Note: Connectors shown in rear view.

Whelen CenCom Core C399



J18 – Data Communication

- Pos. 1 – 20 Ga. GN CAN H – Twisted Pair
- Pos. 2 – 20 Ga. Shield
- Pos. 3 – 20 Ga. GY CAN L – Twisted Pair



TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

Email: sales@allfleetsolutions.com

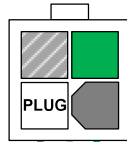
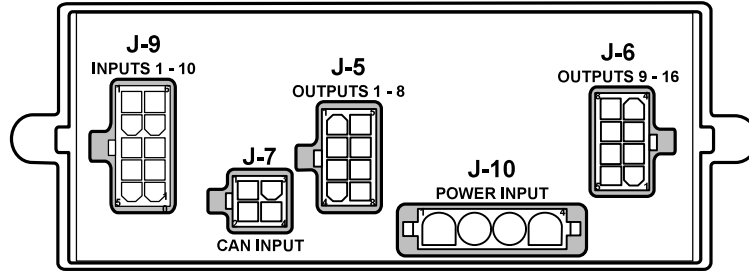
Web: www.allfleetsolutions.com

EDD 112624

ECN 000000

Note: Connectors shown in rear view.

Whelen Core Expansion CEM8 / CEM16



J7 – Data Communication

- Pos. 1 – 20 Ga. GN CAN H – Twisted Pair
- Pos. 2 – 20 Ga. Shield
- Pos. 3 – 20 Ga. GY CAN L – Twisted Pair
- Pos. 4 – Not Used



TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

Email: sales@allfleetsolutions.com

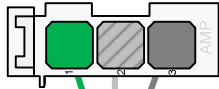
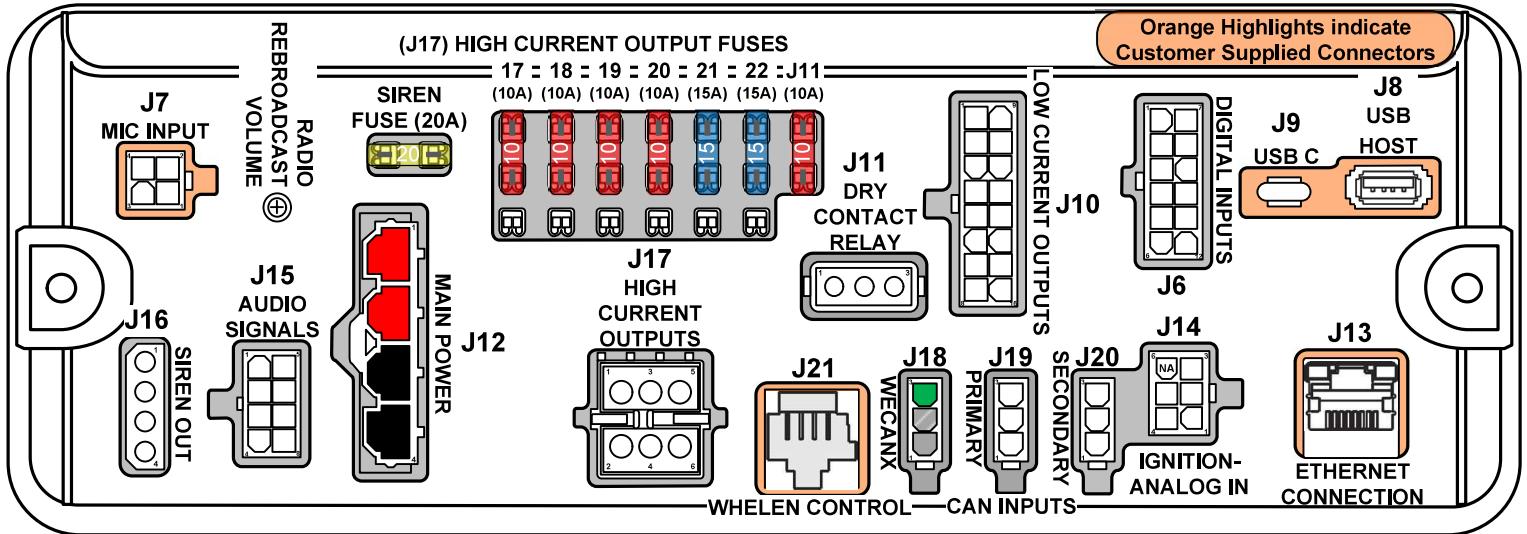
Web: www.allfleetsolutions.com

EDD 112624

ECN 000000

Note: Connectors shown in rear view.

Whelen CenCom Core C399

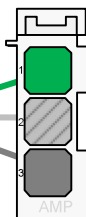


J18 – Data Communication

- Pos. 1 – 20 Ga. GN CAN H – Twisted Pair
- Pos. 2 – 20 Ga. Shield
- Pos. 3 – 20 Ga. GY CAN L – Twisted Pair

WCX-M7 – Data Communication

- Pos. 1 – 20 Ga. GN CAN H – Twisted Pair
- Pos. 2 – 20 Ga. Shield
- Pos. 3 – 20 Ga. GY CAN L – Twisted Pair



TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

Email: sales@allfleetsolutions.com

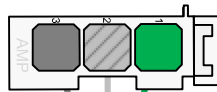
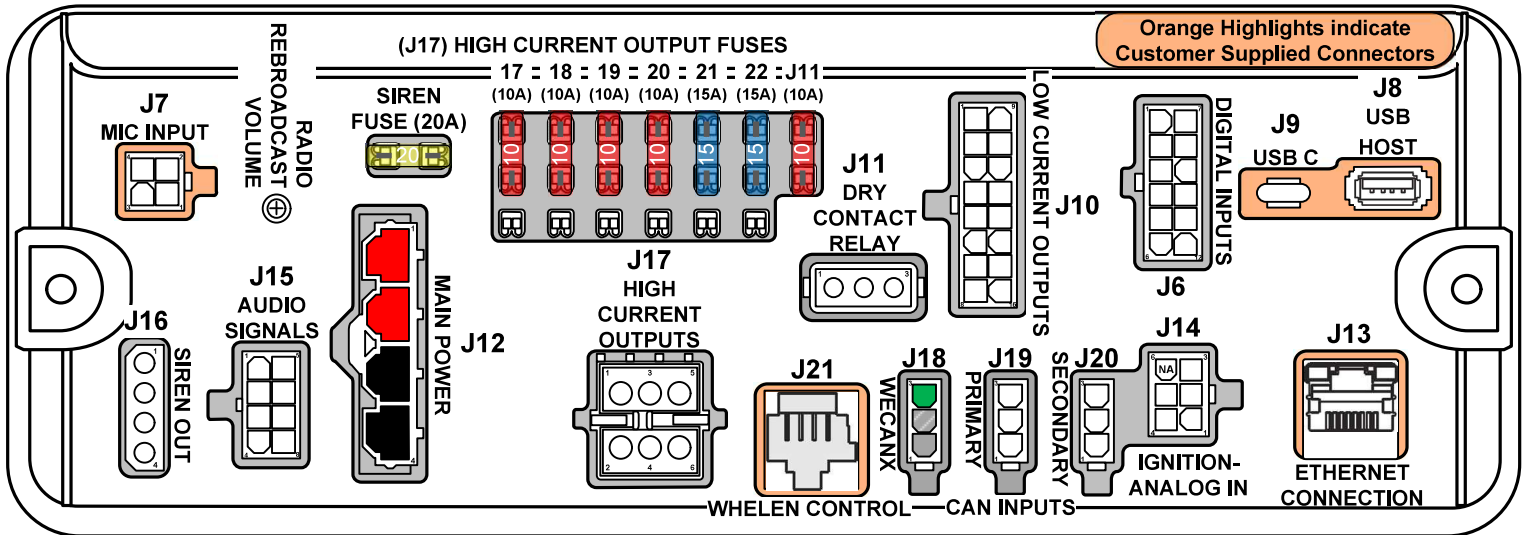
Web: www.allfleetsolutions.com

EDD 020121

ECN 000000

Note: Connectors shown in rear view.

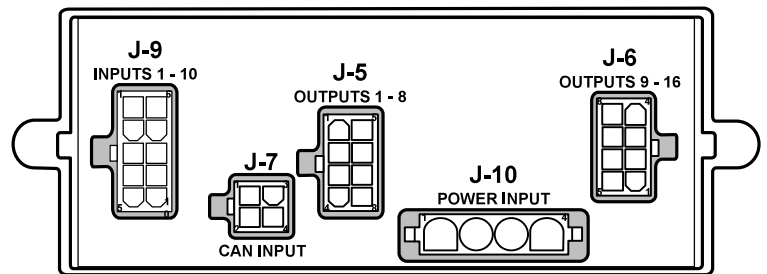
Whelen CenCom Core C399



J18 – Data Communication

- Pos. 1 – 20 Ga. GN CAN H – Twisted Pair
- Pos. 2 – 20 Ga. Shield
- Pos. 3 – 20 Ga. GY CAN L – Twisted Pair

Whelen Core Expansion CEM8 / CEM16



J7 – Data Communication

- Pos. 1 – 20 Ga. GN CAN H – Twisted Pair
- Pos. 2 – 20 Ga. Shield
- Pos. 3 – 20 Ga. GY CAN L – Twisted Pair
- Pos. 4 – Not Used

EDD 020121

ECN 092721

TECHNICAL SUPPORT & SALES CONTACT:

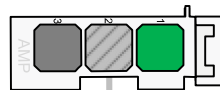
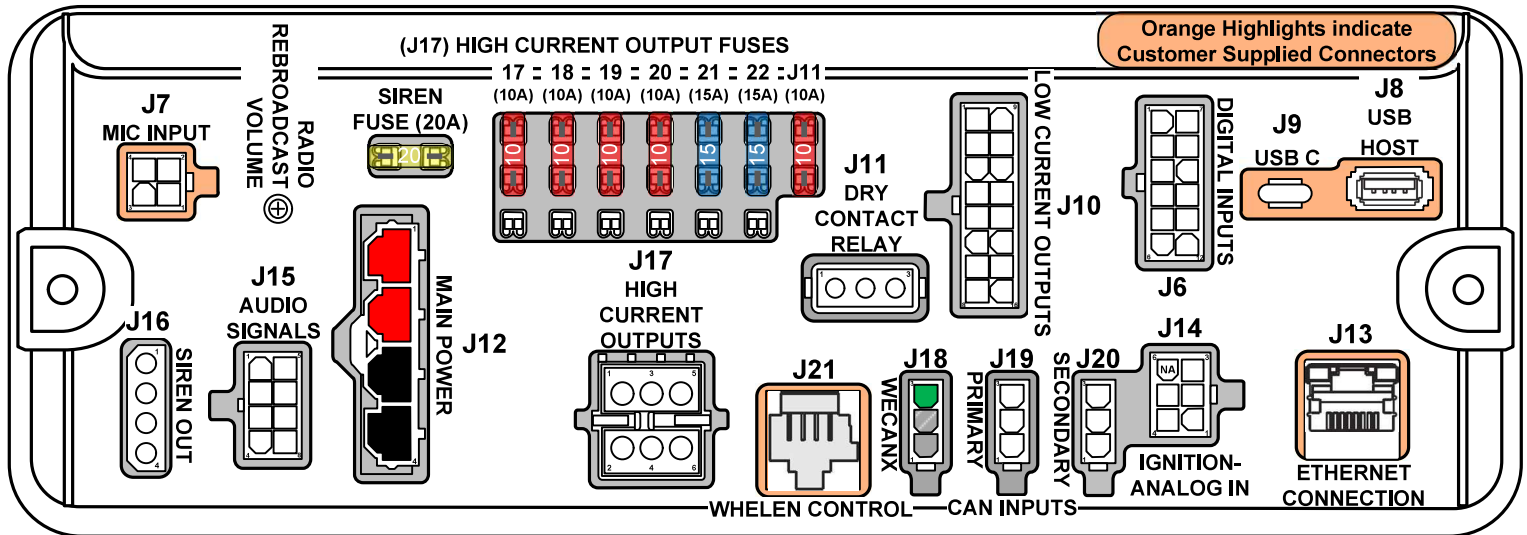
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

Note: Connectors shown in rear view.

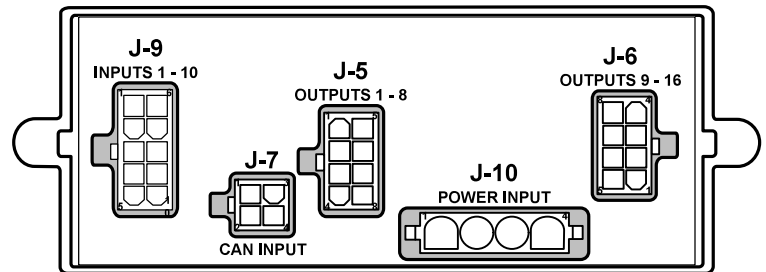
Whelen CenCom Core C399



J18 – Data Communication

- Pos. 1 – 20 Ga. GN CAN H – Twisted Pair
- Pos. 2 – 20 Ga. Shield
- Pos. 3 – 20 Ga. GY CAN L – Twisted Pair

Whelen Core Expansion CEM8 / CEM16



J7 – Data Communication

- Pos. 1 – 20 Ga. GN CAN H – Twisted Pair
- Pos. 2 – 20 Ga. Shield
- Pos. 3 – 20 Ga. GY CAN L – Twisted Pair
- Pos. 4 – Not Used

EDD 020121

ECN 092721

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

PRODUCTS SHOWN ON LAYOUT:

Front Lighting Harness: MW-A8
Front Lighting Harness: MW-A8L

TECHNICAL SUPPORT & SALES CONTACT:

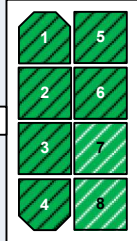
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

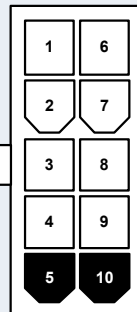
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ECN 000000



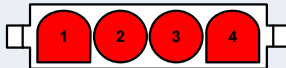
J-5 – OUTPUTS 1 thru 8 FROM CEM16

- Pin 1 Output 1 (2.5A) – 18 Ga. GN/WH Pass. Aux Light 8 “X OUT 1”
- Pin 2 Output 2 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 2 “X OUT 2”
- Pin 3 Output 3 (2.5A) – 18 Ga. GN/PK Driver Grille Light 1 “X OUT 3”
- Pin 4 Output 4 (2.5A) – 18 Ga. GN/RD Driver Aux Light 7 “X OUT 4”
- Pin 5 Output 5 (2.5A) – 18 Ga. BL Pass. Rear Light 70 “X OUT 5”
- Pin 6 Output 6 (2.5A) – 18 Ga. BL/BK Pass. Rear Light 72 “X OUT 6”
- Pin 7 Output 7 (2.5A) – 18 Ga. OR/BK Driver Rear Light 69 “X OUT 7”
- Pin 8 Output 8 (2.5A) – 18 Ga. OR/WH Driver Rear Light 71 “X OUT 8”



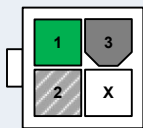
J-9 – INPUTS 1 thru 10 TO CEM16

- Pin 1 Input 1 Ground (–) –:
- Pin 2 Input 2 Ground (–) –:
- Pin 3 Input 3 Ground (–) –:
- Pin 4 Input 4 Ground (–) –:
- Pin 5 Main Ground Input – 16 Ga. BK CEM16 Ground “J9 5 GND” from 12-WCX-PWR36*
- Pin 6 Input 1 Positive (+) –:
- Pin 7 Input 2 Positive (+) –:
- Pin 8 Input 3 Positive (+) –:
- Pin 9 Input 4 Positive (+) –:
- Pin 10 Main Ground Input – 16 Ga. BK CEM16 Ground “J9 10 GND” from 12-WCX-PWR36*



J-10 – POWER INPUT TO CEM16 FROM 12-WCX-PWR36*

- Pin 1 Power Input 1 (10A) – 16 Ga. RD Power 1 (10A) “PWR 1” from Fuse Position 1
- Pin 2 Power Input 2 (10A) – 16 Ga. RD Power 2 (10A) “PWR 2” from Fuse Position 2
- Pin 3 Power Input 3 (10A) – 16 Ga. RD Power 3 (10A) “PWR 3” from Fuse Position 3
- Pin 4 Power Input 4 (10A) – 16 Ga. RD Power 4 (10A) “PWR 4” from Fuse Position 4



J-7 – CAN INPUT TO CEM16 FROM 12-WCX-170**

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Not Used – Plug

**Note: See 12-WCX-PWR36 Layout for detailed information on Power Distribution (J9 and J10 Connectors)*

***Note: See 12-WCX-170 Layout for detailed information on Data Distribution (J7 Connectors)*

FRONT LIGHTING:

GRILLE LIGHTS

- 18 Ga. GN/BK Pass. Grille Light “X OUT 2” to CEM16 J5 Pin 2
- 18 Ga. BK Pass. Grille Lights Ground “OUT 2 GND” to Ground Assembly
- 18 Ga. GN/PK Driver Grille Light “X OUT 3” to CEM16 J5 Pin 3
- 18 Ga. BK Driver Grille Lights Ground “OUT 1 GND” to Ground Assembly

AUX LIGHTS

- 18 Ga. GN/WH Pass. Aux Light “X OUT 1” to CEM16 J5 Pin 1
- 18 Ga. BK Pass. Aux Lights Ground “OUT 1 GND” to Ground Assembly
- 18 Ga. GN/RD Driver Aux Light “X OUT 4” to CEM16 J5 Pin 4
- 18 Ga. BK Driver Aux Lights Ground “OUT 4 GND” to Ground Assembly

REAR LIGHTING:

REAR LIGHTS

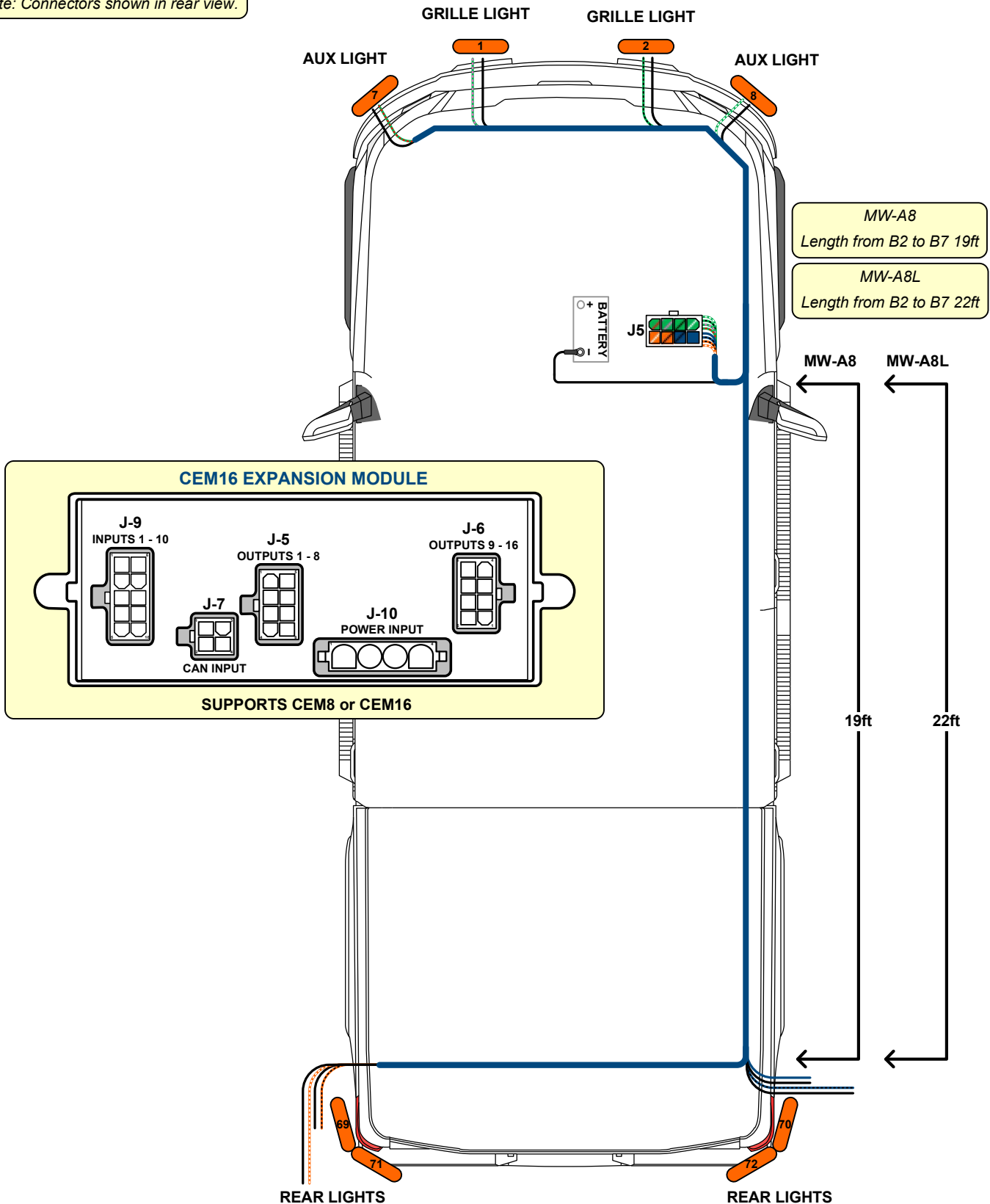
- 18 Ga. BL Pass. Rear Light “X OUT 5” to CEM16 J5 Pin 5
- 18 Ga. BK Pass. Rear Light Ground “OUT 5 GND” to Ground Assembly
- 18 Ga. BL/BK Pass. Rear Light “X OUT 6” to CEM16 J5 Pin 6
- 18 Ga. BK Pass. Rear Light Ground “OUT 6 GND” to Ground Assembly
- 18 Ga. OR/BK Driver Rear Light “X OUT 7” to CEM16 J5 Pin 7
- 18 Ga. BK Driver Rear Light Ground “OUT 7 GND” to Ground Assembly
- 18 Ga. OR/WH Driver Rear Light “X OUT 8” to CEM16 J5 Pin 8
- 18 Ga. BK Driver Rear Light Ground “OUT 8 GND” to Ground Assembly

MW-A8, MW-A8L

8 Trigger Amber Lighting Harness for Crew Cab Pick-Ups

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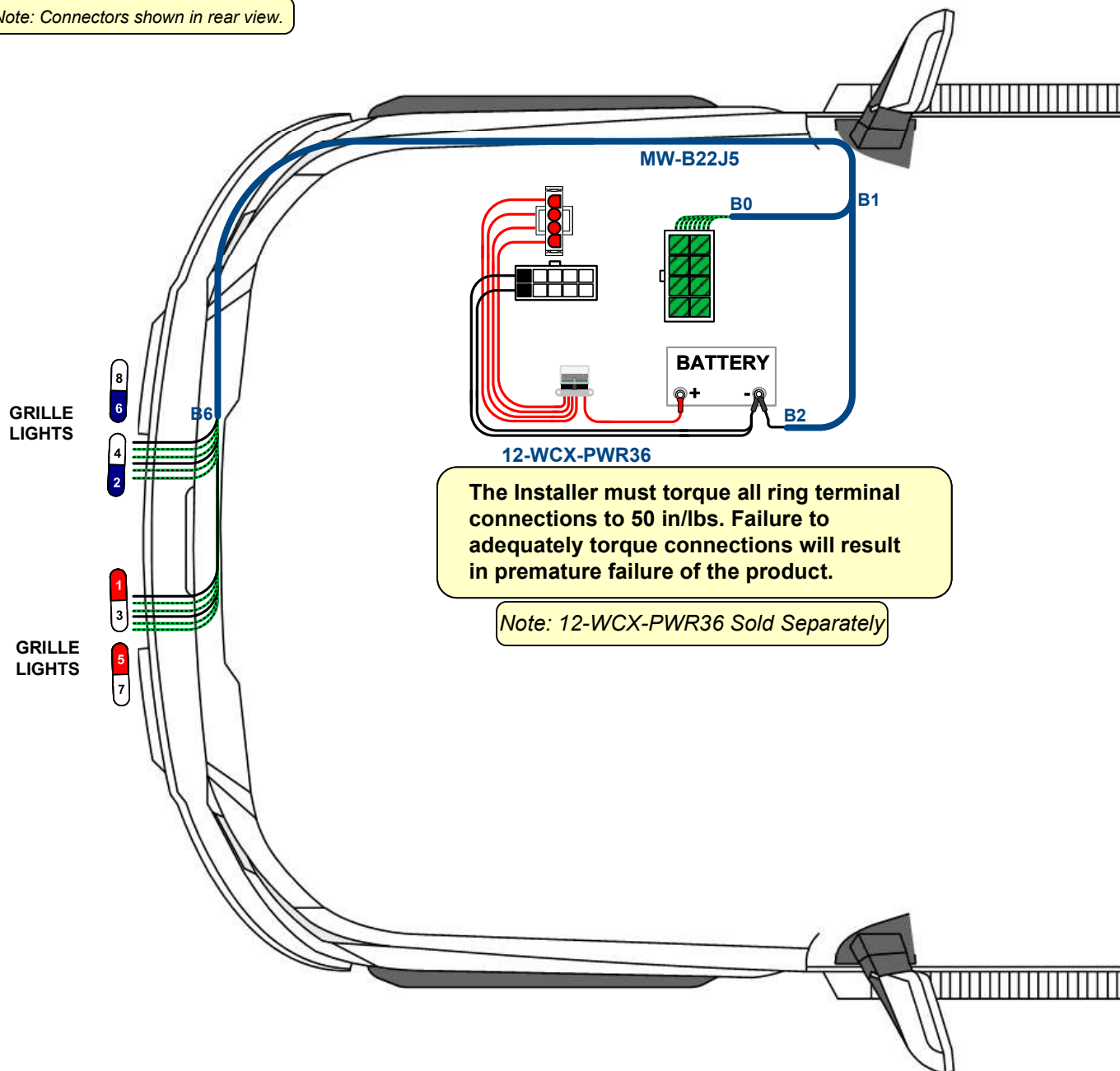
Note: Connectors shown in rear view.



HARNESS OPTIONS:

- | | |
|--|---|
| MW-A8 <ul style="list-style-type: none"> For Crew Cab Pick-Ups with Standard Beds – 19ft from CEM Module to Rear | MW-A8L <ul style="list-style-type: none"> For Crew Cab Pick-Ups with Long Beds – 22ft from CEM Module to Rear |
|--|---|

Note: Connectors shown in rear view.



FRONT LIGHTING:

GRILLE LIGHTS – MW-B22J5

- 18 Ga. GN/BK Pass. Grille Light "X OUT 2" to CEM16 J5 Pin 2
- 18 Ga. GN/BK Pass. Grille Light "X OUT 4" to CEM16 J5 Pin 4
- 18 Ga. GN/BK Pass. Grille Light "X OUT 6" to CEM16 J5 Pin 6
- 18 Ga. GN/BK Pass. Grille Light "X OUT 8" to CEM16 J5 Pin 8
- 18 Ga. BK Pass. Grille Lights Ground "LT 2 GND" to Ground Assembly
- 18 Ga. BK Pass. Grille Lights Ground "LT 6 GND" to Ground Assembly
- 18 Ga. GN/BK Driver Grille Light "X OUT 1" to CEM16 J5 Pin 1
- 18 Ga. GN/BK Driver Grille Light "X OUT 3" to CEM16 J5 Pin 3
- 18 Ga. GN/BK Driver Grille Light "X OUT 5" to CEM16 J5 Pin 5
- 18 Ga. GN/BK Driver Grille Light "X OUT 7" to CEM16 J5 Pin 7
- 18 Ga. BK Driver Grille Lights Ground "LT 1 GND" to Ground Assembly
- 18 Ga. BK Driver Grille Lights Ground "LT 5 GND" to Ground Assembly

PRODUCTS SHOWN ON LAYOUT:

Front Lighting Harness: MW-B22J5
Underhood Power: 12-WCX-PWR36

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

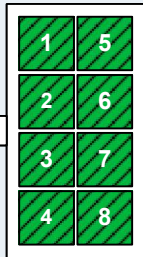
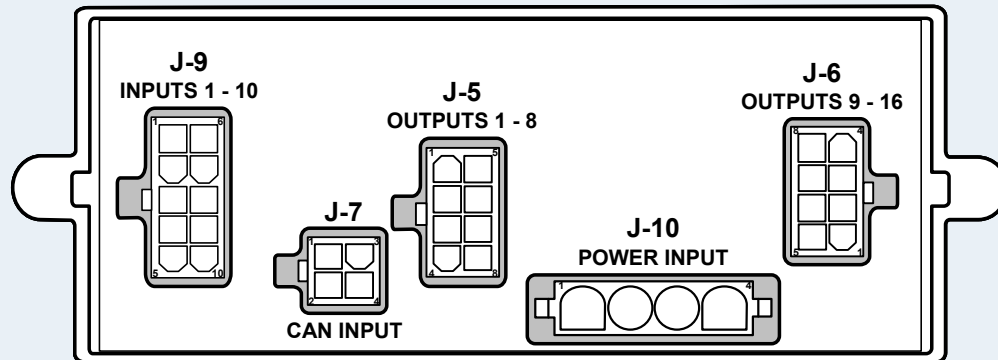
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 010621

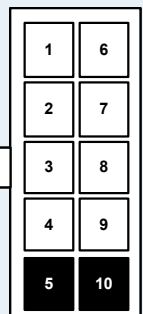
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CEM16 EXPANSION MODULE



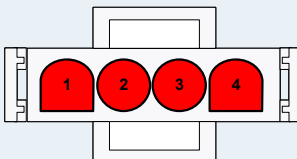
J-5 – OUTPUTS 1 thru 8 FROM CEM16

- Pin 1 Output 1 (2.5A) – 18 Ga. GN/BK Driver Grille Light 1 "X OUT 1"
- Pin 2 Output 2 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 2 "X OUT 2"
- Pin 3 Output 3 (2.5A) – 18 Ga. GN/BK Driver Grille Light 3 "X OUT 3"
- Pin 4 Output 4 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 4 "X OUT 4"
- Pin 5 Output 5 (2.5A) – 18 Ga. GN/BK Driver Grille Light 5 "X OUT 5"
- Pin 6 Output 6 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 6 "X OUT 6"
- Pin 7 Output 7 (2.5A) – 18 Ga. GN/BK Driver Grille Light 7 "X OUT 7"
- Pin 8 Output 8 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 8 "X OUT 8"



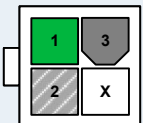
J-9 – INPUTS 1 thru 10 TO CEM16

- Pin 1 Input 1 Ground (–) – _____
- Pin 2 Input 2 Ground (–) – _____
- Pin 3 Input 3 Ground (–) – _____
- Pin 4 Input 4 Ground (–) – _____
- Pin 5 Main Ground Input – 16 Ga. BK CEM16 Ground "J9 5 GND" from 12-WCX-PWR36*
- Pin 6 Input 1 Positive (+) – _____
- Pin 7 Input 2 Positive (+) – _____
- Pin 8 Input 3 Positive (+) – _____
- Pin 9 Input 4 Positive (+) – _____
- Pin 10 Main Ground Input – 16 Ga. BK CEM16 Ground "J9 10 GND" from 12-WCX-PWR36*



J-10 – POWER INPUT TO CEM16 FROM 12-WCX-PWR36*

- Pin 1 Power Input 1 (10A) – 16 Ga. RD Power 1 (10A) "PWR 1" from Fuse Position 1
- Pin 2 Power Input 2 (10A) – 16 Ga. RD Power 2 (10A) "PWR 2" from Fuse Position 2
- Pin 3 Power Input 3 (10A) – 16 Ga. RD Power 3 (10A) "PWR 3" from Fuse Position 3
- Pin 4 Power Input 4 (10A) – 16 Ga. RD Power 4 (10A) "PWR 4" from Fuse Position 4



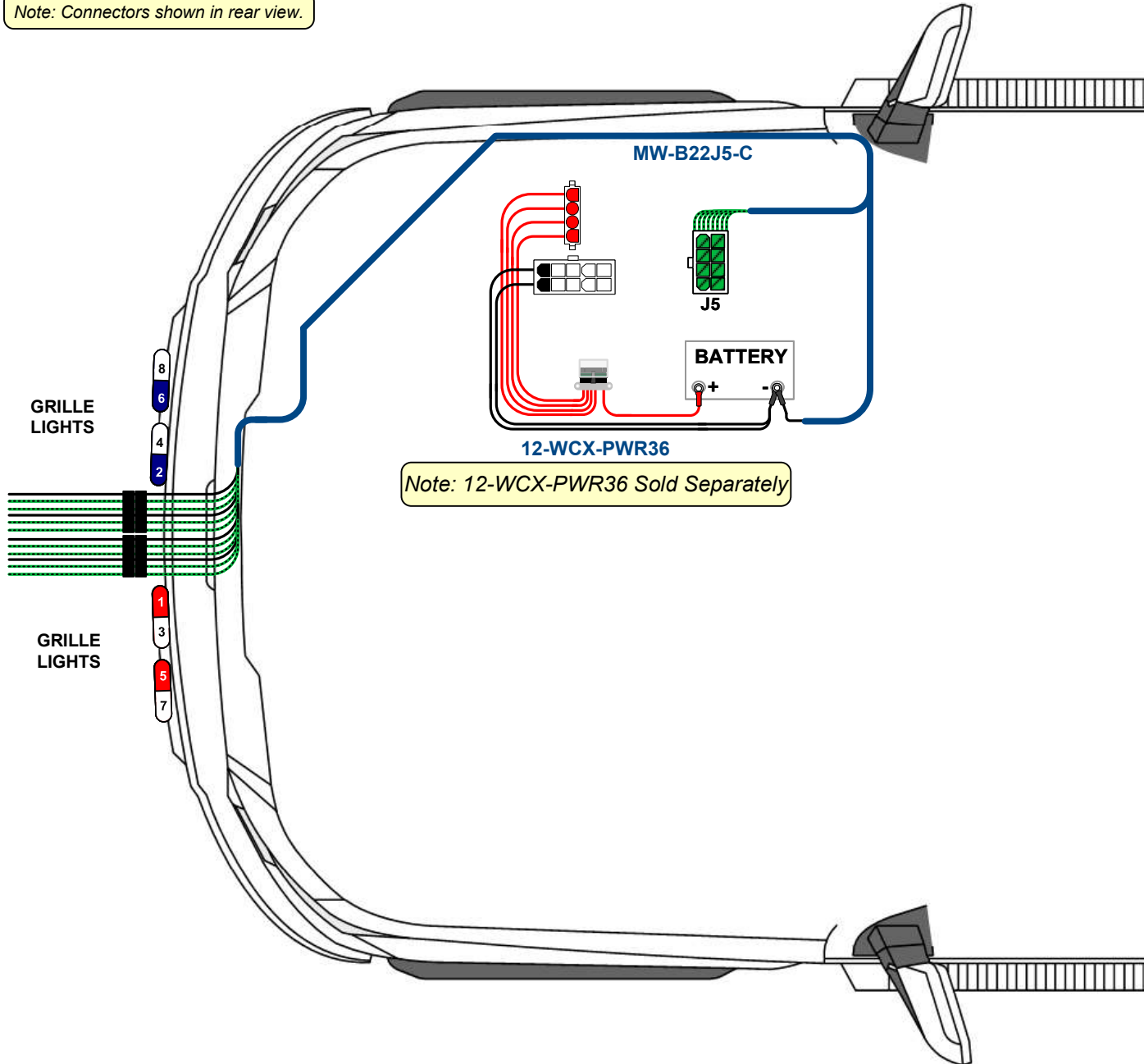
J-7 – CAN INPUT TO CEM16 FROM DATA HARNESS**

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Not Used – Plug

**Note: See 12-WCX-PWR36 Layout, if applicable, for detailed information on Power Distribution (J9 and J10 Connectors)*

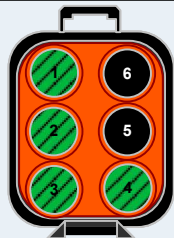
***Note: See Data Harness Layout, if applicable, for detailed information on Data Distribution (J7 Connectors)*

Note: Connectors shown in rear view.



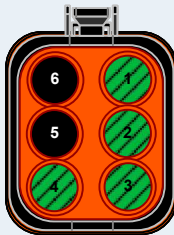
Note: 12-WCX-PWR36 Sold Separately

FRONT LIGHTING:



DRIVER GRILLE LIGHTS – MW-B22J5-C

- Pin 1 – 18 Ga. GN/BK Driver Grille Light "X OUT 1" from CEM16 J5 Pin 1
- Pin 2 – 18 Ga. GN/BK Driver Grille Light "X OUT 3" from CEM16 J5 Pin 3
- Pin 3 – 18 Ga. GN/BK Driver Grille Light "X OUT 5" from CEM16 J5 Pin 5
- Pin 4 – 18 Ga. GN/BK Driver Grille Light "X OUT 7" from CEM16 J5 Pin 7
- Pin 5 – 18 Ga. BK Driver Grille Lights Ground "LT 1 GND" from Ground Assembly
- Pin 6 – 18 Ga. BK Driver Grille Lights Ground "LT 5 GND" from Ground Assembly



PASS. GRILLE LIGHTS – MW-B22J5-C

- Pin 1 – 18 Ga. GN/BK Pass. Grille Light "X OUT 2" from CEM16 J5 Pin 2
- Pin 2 – 18 Ga. GN/BK Pass. Grille Light "X OUT 4" from CEM16 J5 Pin 4
- Pin 3 – 18 Ga. GN/BK Pass. Grille Light "X OUT 6" from CEM16 J5 Pin 6
- Pin 4 – 18 Ga. GN/BK Pass. Grille Light "X OUT 8" from CEM16 J5 Pin 8
- Pin 5 – 18 Ga. BK Pass. Grille Lights Ground "LT 2 GND" from Ground Assembly
- Pin 6 – 18 Ga. BK Pass. Grille Lights Ground "LT 6 GND" from Ground Assembly

PRODUCTS SHOWN ON LAYOUT:

Front Lighting Harness: MW-B22J5-C
Underhood Power: 12-WCX-PWR36

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

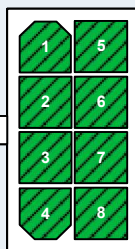
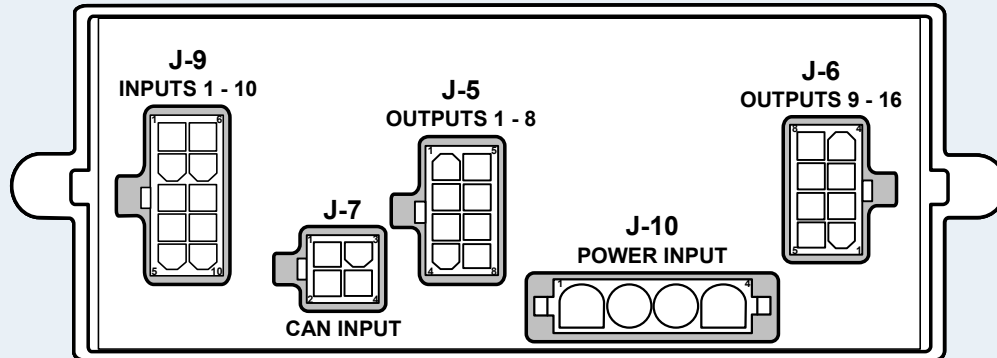
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

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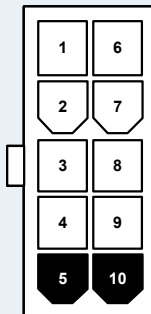
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CEM16 EXPANSION MODULE



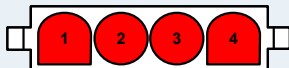
J-5 – OUTPUTS 1 thru 8 FROM CEM16

- Pin 1 Output 1 (2.5A) – 18 Ga. GN/BK Driver Grille Light 1 “X OUT 1”
- Pin 2 Output 2 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 2 “X OUT 2”
- Pin 3 Output 3 (2.5A) – 18 Ga. GN/BK Driver Grille Light 3 “X OUT 3”
- Pin 4 Output 4 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 4 “X OUT 4”
- Pin 5 Output 5 (2.5A) – 18 Ga. GN/BK Driver Grille Light 5 “X OUT 5”
- Pin 6 Output 6 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 6 “X OUT 6”
- Pin 7 Output 7 (2.5A) – 18 Ga. GN/BK Driver Grille Light 7 “X OUT 7”
- Pin 8 Output 8 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 8 “X OUT 8”



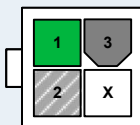
J-9 – INPUTS 1 thru 10 TO CEM16

- Pin 1 Input 1 Ground (–) –:
- Pin 2 Input 2 Ground (–) –:
- Pin 3 Input 3 Ground (–) –:
- Pin 4 Input 4 Ground (–) –:
- Pin 5 Main Ground Input – 16 Ga. BK CEM16 Ground “J9 5 GND” from 12-WCX-PWR36*
- Pin 6 Input 1 Positive (+) –:
- Pin 7 Input 2 Positive (+) –:
- Pin 8 Input 3 Positive (+) –:
- Pin 9 Input 4 Positive (+) –:
- Pin 10 Main Ground Input – 16 Ga. BK CEM16 Ground “J9 10 GND” from 12-WCX-PWR36*



J-10 – POWER INPUT TO CEM16 FROM 12-WCX-PWR36*

- Pin 1 Power Input 1 (10A) – 16 Ga. RD Power 1 (10A) “PWR 1” from Fuse Position 1
- Pin 2 Power Input 2 (10A) – 16 Ga. RD Power 2 (10A) “PWR 2” from Fuse Position 2
- Pin 3 Power Input 3 (10A) – 16 Ga. RD Power 3 (10A) “PWR 3” from Fuse Position 3
- Pin 4 Power Input 4 (10A) – 16 Ga. RD Power 4 (10A) “PWR 4” from Fuse Position 4

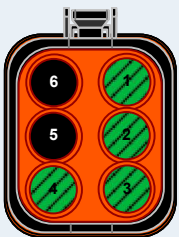


J-7 – CAN INPUT TO CEM16 FROM DATA HARNESS**

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Not Used – Plug

**Note: See 12-WCX-PWR36 Layout, if applicable, for detailed information on Power Distribution (J9 and J10 Connectors)*

***Note: See Data Harness Layout, if applicable, for detailed information on Data Distribution (J7 Connectors)*



DRIVER GRILLE LIGHTS – PIGTAIL 30"

- Pin 1 – 18 Ga. GN/BK Driver Grille Light “X OUT 1”
- Pin 2 – 18 Ga. GN/BK Driver Grille Light “X OUT 3”
- Pin 3 – 18 Ga. GN/BK Driver Grille Light “X OUT 5”
- Pin 4 – 18 Ga. GN/BK Driver Grille Light “X OUT 7”
- Pin 5 – 18 Ga. BK Driver Grille Lights Ground “LT 1 GND”
- Pin 6 – 18 Ga. BK Driver Grille Lights Ground “LT 5 GND”



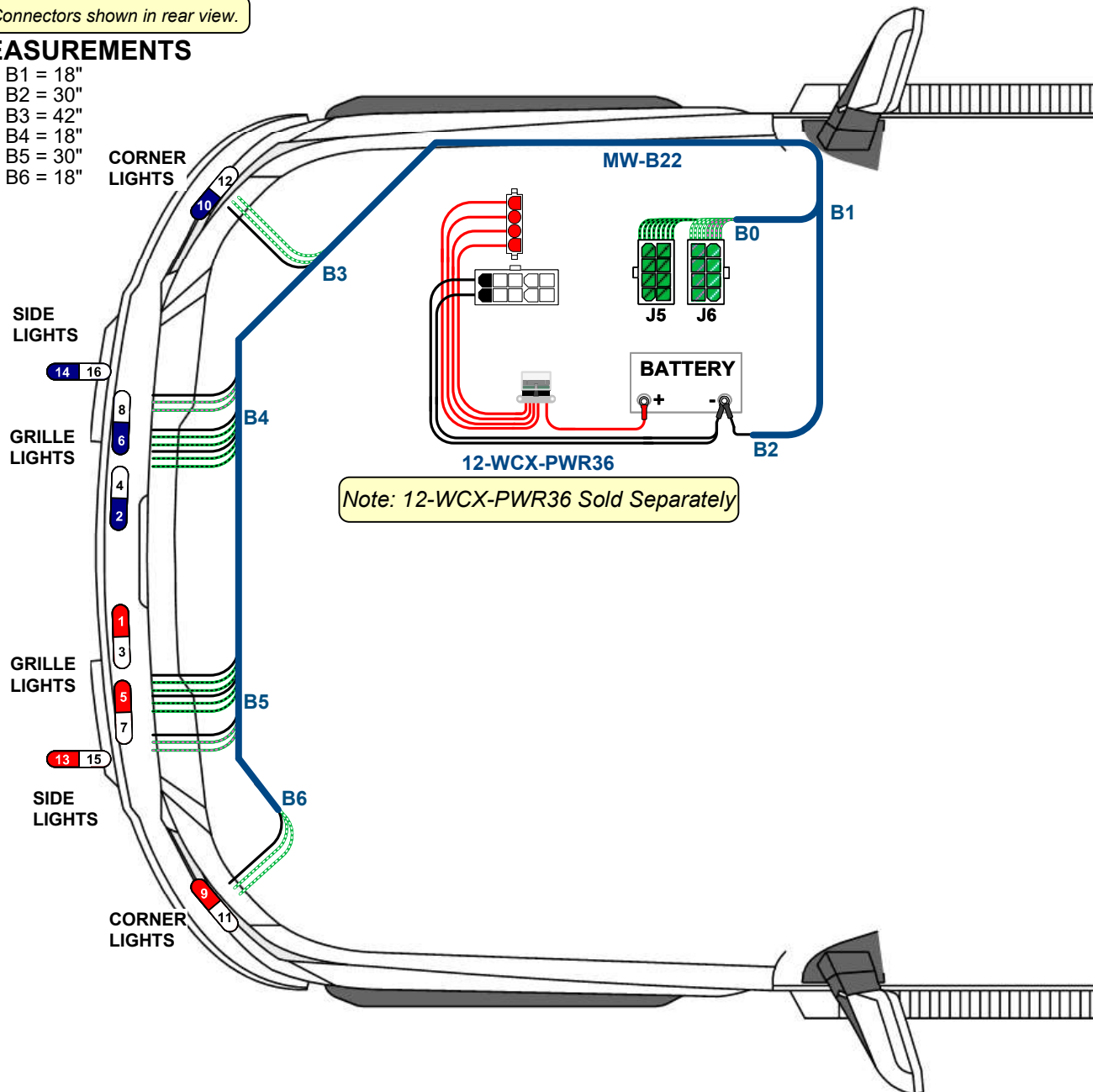
PASS. GRILLE LIGHTS – PIGTAIL 30"

- Pin 1 – 18 Ga. GN/BK Pass. Grille Light “X OUT 2”
- Pin 2 – 18 Ga. GN/BK Pass. Grille Light “X OUT 4”
- Pin 3 – 18 Ga. GN/BK Pass. Grille Light “X OUT 6”
- Pin 4 – 18 Ga. GN/BK Pass. Grille Light “X OUT 8”
- Pin 5 – 18 Ga. BK Pass. Grille Lights Ground “LT 2 GND”
- Pin 6 – 18 Ga. BK Pass. Grille Lights Ground “LT 6 GND”

Note: Connectors shown in rear view.

B MEASUREMENTS

- B0 to B1 = 18"
- B1 to B2 = 30"
- B2 to B3 = 42"
- B3 to B4 = 18"
- B4 to B5 = 30"
- B5 to B6 = 18"



FRONT LIGHTING:

GRILLE LIGHTS – MW-B22

- 18 Ga. GN/BK Pass. Grille Light "X OUT 2" to CEM16 J5 Pin 2
- 18 Ga. GN/BK Pass. Grille Light "X OUT 4" to CEM16 J5 Pin 4
- 18 Ga. GN/BK Pass. Grille Light "X OUT 6" to CEM16 J5 Pin 6
- 18 Ga. GN/BK Pass. Grille Light "X OUT 8" to CEM16 J5 Pin 8
- 18 Ga. BK Pass. Grille Lights Ground "LT 2 GND" to Ground Assembly
- 18 Ga. BK Pass. Grille Lights Ground "LT 6 GND" to Ground Assembly
- 18 Ga. GN/BK Driver Grille Light "X OUT 1" to CEM16 J5 Pin 1
- 18 Ga. GN/BK Driver Grille Light "X OUT 3" to CEM16 J5 Pin 3
- 18 Ga. GN/BK Driver Grille Light "X OUT 5" to CEM16 J5 Pin 5
- 18 Ga. GN/BK Driver Grille Light "X OUT 7" to CEM16 J5 Pin 7
- 18 Ga. BK Driver Grille Lights Ground "LT 1 GND" to Ground Assembly
- 18 Ga. BK Driver Grille Lights Ground "LT 5 GND" to Ground Assembly

SIDE LIGHTS – MW-B22

- 18 Ga. GN/PK Pass. Side Light "X OUT 14" to CEM16 J6 Pin 6
- 18 Ga. GN/PK Pass. Side Light "X OUT 16" to CEM16 J6 Pin 8
- 18 Ga. BK Pass. Side Lights Ground "LT 14 GND" to Ground Assembly
- 18 Ga. GN/PK Driver Side Light "X OUT 13" to CEM16 J6 Pin 5
- 18 Ga. GN/PK Driver Side Light "X OUT 15" to CEM16 J6 Pin 7
- 18 Ga. BK Driver Side Lights Ground "LT 13 GND" to Ground Assembly

CORNER LIGHTS – MW-B22

- 18 Ga. GN/WH Pass. Corner Light "X OUT 10" to CEM16 J6 Pin 2
- 18 Ga. GN/WH Pass. Corner Light "X OUT 12" to CEM16 J6 Pin 4
- 18 Ga. BK Pass. Corner Lights Ground "LT 10 GND" to Ground Assembly
- 18 Ga. GN/WH Driver Corner Light "X OUT 9" to CEM16 J6 Pin 1
- 18 Ga. GN/WH Driver Corner Light "X OUT 11" to CEM16 J6 Pin 3
- 18 Ga. BK Driver Corner Lights Ground "LT 9 GND" to Ground Assembly

PRODUCTS SHOWN ON LAYOUT:

Front Lighting Harness: MW-B22
Underhood Power: 12-WCX-PWR36

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

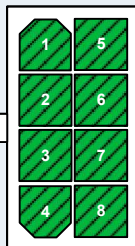
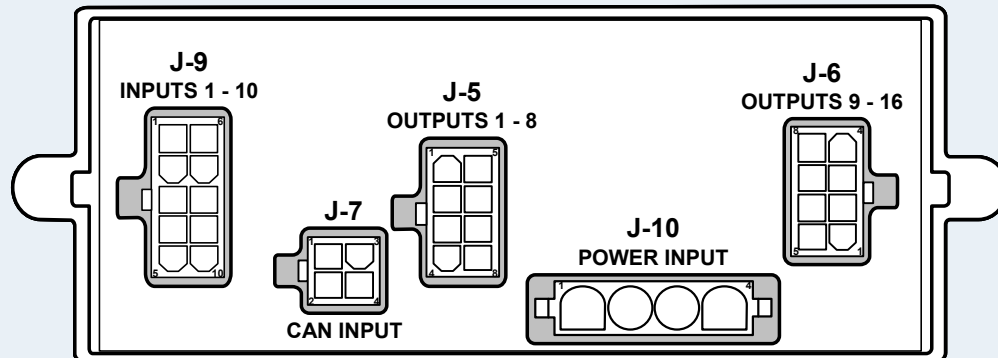
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

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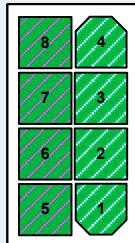
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CEM16 EXPANSION MODULE



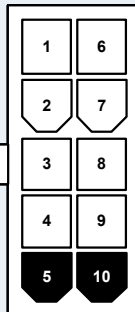
J-5 – OUTPUTS 1 thru 8 FROM CEM16

- Pin 1 Output 1 (2.5A) – 18 Ga. GN/BK Driver Grille Light 1 "X OUT 1"
- Pin 2 Output 2 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 2 "X OUT 2"
- Pin 3 Output 3 (2.5A) – 18 Ga. GN/BK Driver Grille Light 3 "X OUT 3"
- Pin 4 Output 4 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 4 "X OUT 4"
- Pin 5 Output 5 (2.5A) – 18 Ga. GN/BK Driver Grille Light 5 "X OUT 5"
- Pin 6 Output 6 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 6 "X OUT 6"
- Pin 7 Output 7 (2.5A) – 18 Ga. GN/BK Driver Grille Light 7 "X OUT 7"
- Pin 8 Output 8 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 8 "X OUT 8"



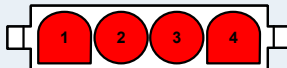
J-6 – OUTPUTS 9 thru 16 FROM CEM16

- Pin 1 Output 9 (2.5A) – 18 Ga. GN/WH Driver Corner Light 9 "X OUT 9"
- Pin 2 Output 10 (2.5A) – 18 Ga. GN/WH Pass. Corner Light 10 "X OUT 10"
- Pin 3 Output 11 (2.5A) – 18 Ga. GN/WH Driver Corner Light 11 "X OUT 11"
- Pin 4 Output 12 (2.5A) – 18 Ga. GN/WH Pass. Corner Light 12 "X OUT 12"
- Pin 5 Output 13 (2.5A) – 18 Ga. GN/PK Driver Side Light 13 "X OUT 13"
- Pin 6 Output 14 (2.5A) – 18 Ga. GN/PK Pass. Side Light 14 "X OUT 14"
- Pin 7 Output 15 (2.5A) – 18 Ga. GN/PK Driver Side Light 15 "X OUT 15"
- Pin 8 Output 16 (2.5A) – 18 Ga. GN/PK Pass. Side Light 16 "X OUT 16"



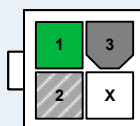
J-9 – INPUTS 1 thru 10 TO CEM16

- Pin 1 Input 1 Ground (–) –:
- Pin 2 Input 2 Ground (–) –:
- Pin 3 Input 3 Ground (–) –:
- Pin 4 Input 4 Ground (–) –:
- Pin 5 Main Ground Input – 16 Ga. BK CEM16 Ground "J9 5 GND" from 12-WCX-PWR36*
- Pin 6 Input 1 Positive (+) –:
- Pin 7 Input 2 Positive (+) –:
- Pin 8 Input 3 Positive (+) –:
- Pin 9 Input 4 Positive (+) –:
- Pin 10 Main Ground Input – 16 Ga. BK CEM16 Ground "J9 10 GND" from 12-WCX-PWR36*



J-10 – POWER INPUT TO CEM16 FROM 12-WCX-PWR36*

- Pin 1 Power Input 1 (10A) – 16 Ga. RD Power 1 (10A) "PWR 1" from Fuse Position 1
- Pin 2 Power Input 2 (10A) – 16 Ga. RD Power 2 (10A) "PWR 2" from Fuse Position 2
- Pin 3 Power Input 3 (10A) – 16 Ga. RD Power 3 (10A) "PWR 3" from Fuse Position 3
- Pin 4 Power Input 4 (10A) – 16 Ga. RD Power 4 (10A) "PWR 4" from Fuse Position 4



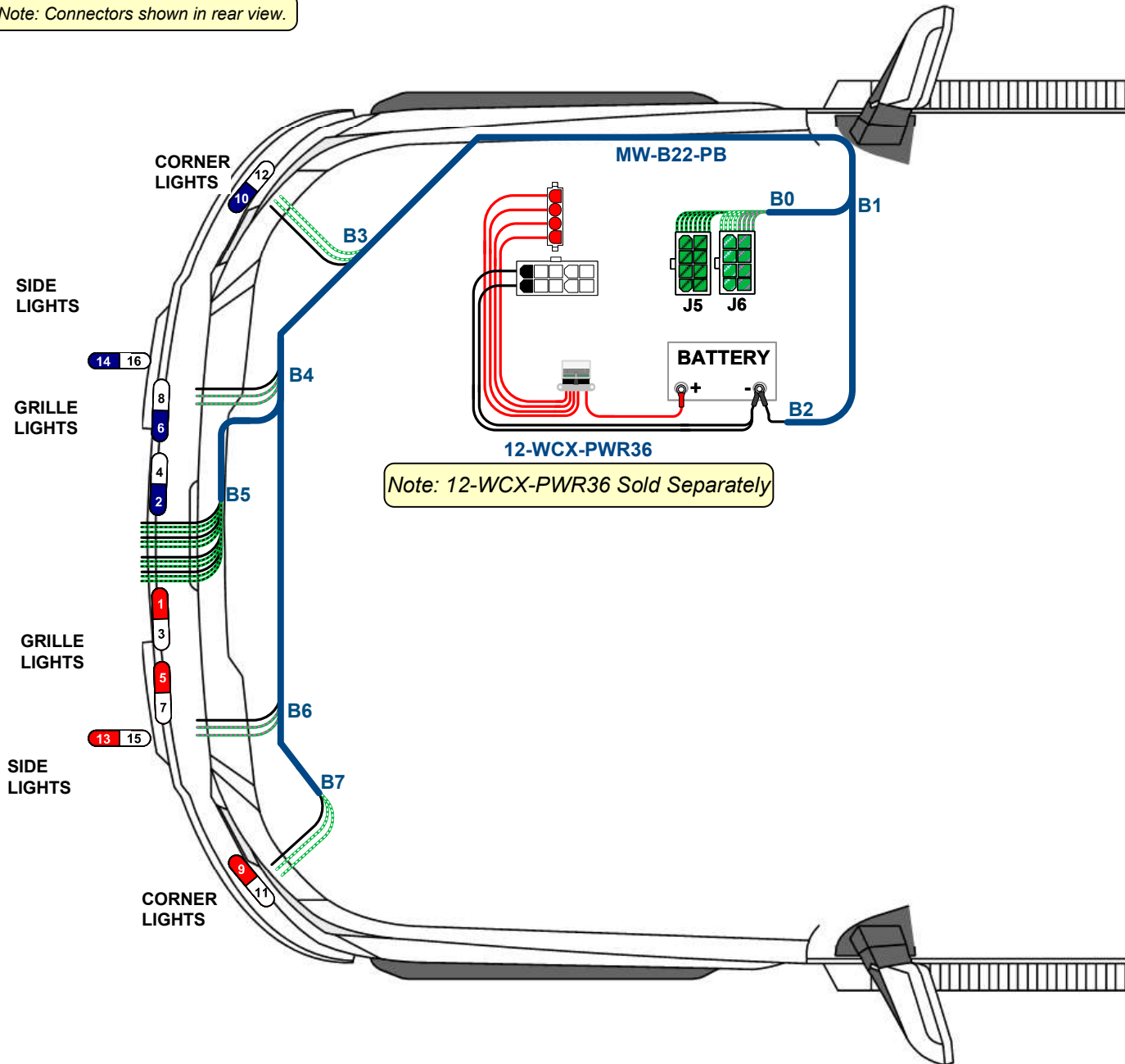
J-7 – CAN INPUT TO CEM16 FROM DATA HARNESS**

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Not Used – Plug

**Note: See 12-WCX-PWR36 Layout, if applicable, for detailed information on Power Distribution (J9 and J10 Connectors)*

***Note: See Data Harness Layout, if applicable, for detailed information on Data Distribution (J7 Connectors)*

Note: Connectors shown in rear view.



FRONT LIGHTING:

GRILLE LIGHTS – MW-B22-PB

- 18 Ga. GN/BK Pass. Grille Light "X OUT 2" to CEM16 J5 Pin 2
- 18 Ga. GN/BK Pass. Grille Light "X OUT 4" to CEM16 J5 Pin 4
- 18 Ga. GN/BK Pass. Grille Light "X OUT 6" to CEM16 J5 Pin 6
- 18 Ga. GN/BK Pass. Grille Light "X OUT 8" to CEM16 J5 Pin 8
- 18 Ga. BK Pass. Grille Lights Ground "LT 2 GND" to Ground Assembly
- 18 Ga. BK Pass. Grille Lights Ground "LT 6 GND" to Ground Assembly
- 18 Ga. GN/BK Driver Grille Light "X OUT 1" to CEM16 J5 Pin 1
- 18 Ga. GN/BK Driver Grille Light "X OUT 3" to CEM16 J5 Pin 3
- 18 Ga. GN/BK Driver Grille Light "X OUT 5" to CEM16 J5 Pin 5
- 18 Ga. GN/BK Driver Grille Light "X OUT 7" to CEM16 J5 Pin 7
- 18 Ga. BK Driver Grille Lights Ground "LT 1 GND" to Ground Assembly
- 18 Ga. BK Driver Grille Lights Ground "LT 5 GND" to Ground Assembly

SIDE LIGHTS – MW-B22-PB

- 18 Ga. GN/PK Pass. Side Light "X OUT 14" to CEM16 J6 Pin 6
- 18 Ga. GN/PK Pass. Side Light "X OUT 16" to CEM16 J6 Pin 8
- 18 Ga. BK Pass. Side Lights Ground "LT 14 GND" to Ground Assembly
- 18 Ga. GN/PK Driver Side Light "X OUT 13" to CEM16 J6 Pin 5
- 18 Ga. GN/PK Driver Side Light "X OUT 15" to CEM16 J6 Pin 7
- 18 Ga. BK Driver Side Lights Ground "LT 13 GND" to Ground Assembly

CORNER LIGHTS – MW-B22-PB

- 18 Ga. GN/WH Pass. Corner Light "X OUT 10" to CEM16 J6 Pin 2
- 18 Ga. GN/WH Pass. Corner Light "X OUT 12" to CEM16 J6 Pin 4
- 18 Ga. BK Pass. Corner Lights Ground "LT 10 GND" to Ground Assembly
- 18 Ga. GN/WH Driver Corner Light "X OUT 9" to CEM16 J6 Pin 1
- 18 Ga. GN/WH Driver Corner Light "X OUT 11" to CEM16 J6 Pin 3
- 18 Ga. BK Driver Corner Lights Ground "LT 9 GND" to Ground Assembly

PRODUCTS SHOWN ON LAYOUT:

Front Lighting Harness: MW-B22-PB
Underhood Power: 12-WCX-PWR36

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

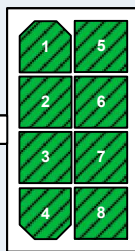
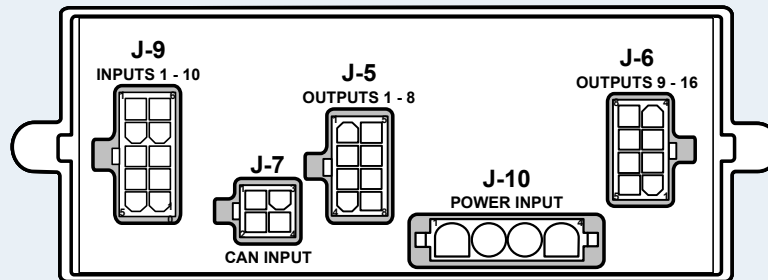
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

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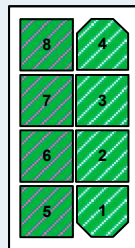
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CEM16 EXPANSION MODULE



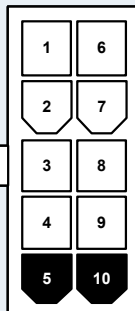
J-5 – OUTPUTS 1 thru 8 FROM CEM16

- Pin 1 Output 1 (2.5A) – 18 Ga. GN/BK Driver Grille Light 1 “X OUT 1”
- Pin 2 Output 2 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 2 “X OUT 2”
- Pin 3 Output 3 (2.5A) – 18 Ga. GN/BK Driver Grille Light 3 “X OUT 3”
- Pin 4 Output 4 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 4 “X OUT 4”
- Pin 5 Output 5 (2.5A) – 18 Ga. GN/BK Driver Grille Light 5 “X OUT 5”
- Pin 6 Output 6 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 6 “X OUT 6”
- Pin 7 Output 7 (2.5A) – 18 Ga. GN/BK Driver Grille Light 7 “X OUT 7”
- Pin 8 Output 8 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 8 “X OUT 8”



J-6 – OUTPUTS 9 thru 16 FROM CEM16

- Pin 1 Output 9 (2.5A) – 18 Ga. GN/WH Driver Corner Light 9 “X OUT 9”
- Pin 2 Output 10 (2.5A) – 18 Ga. GN/WH Pass. Corner Light 10 “X OUT 10”
- Pin 3 Output 11 (2.5A) – 18 Ga. GN/WH Driver Corner Light 11 “X OUT 11”
- Pin 4 Output 12 (2.5A) – 18 Ga. GN/WH Pass. Corner Light 12 “X OUT 12”
- Pin 5 Output 13 (2.5A) – 18 Ga. GN/PK Driver Side Light 13 “X OUT 13”
- Pin 6 Output 14 (2.5A) – 18 Ga. GN/PK Pass. Side Light 14 “X OUT 14”
- Pin 7 Output 15 (2.5A) – 18 Ga. GN/PK Driver Side Light 15 “X OUT 15”
- Pin 8 Output 16 (2.5A) – 18 Ga. GN/PK Pass. Side Light 16 “X OUT 16”



J-9 – INPUTS 1 thru 10 TO CEM16

- Pin 1 Input 1 Ground (–) –:
- Pin 2 Input 2 Ground (–) –:
- Pin 3 Input 3 Ground (–) –:
- Pin 4 Input 4 Ground (–) –:
- Pin 5 Main Ground Input – 16 Ga. BK CEM16 Ground “J9 5 GND” from 12-WCX-PWR36*
- Pin 6 Input 1 Positive (+) –:
- Pin 7 Input 2 Positive (+) –:
- Pin 8 Input 3 Positive (+) –:
- Pin 9 Input 4 Positive (+) –:
- Pin 10 Main Ground Input – 16 Ga. BK CEM16 Ground “J9 10 GND” from 12-WCX-PWR36*

J-7 – CAN INPUT TO CEM16 FROM DATA HARNESS**

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Not Used – Plug



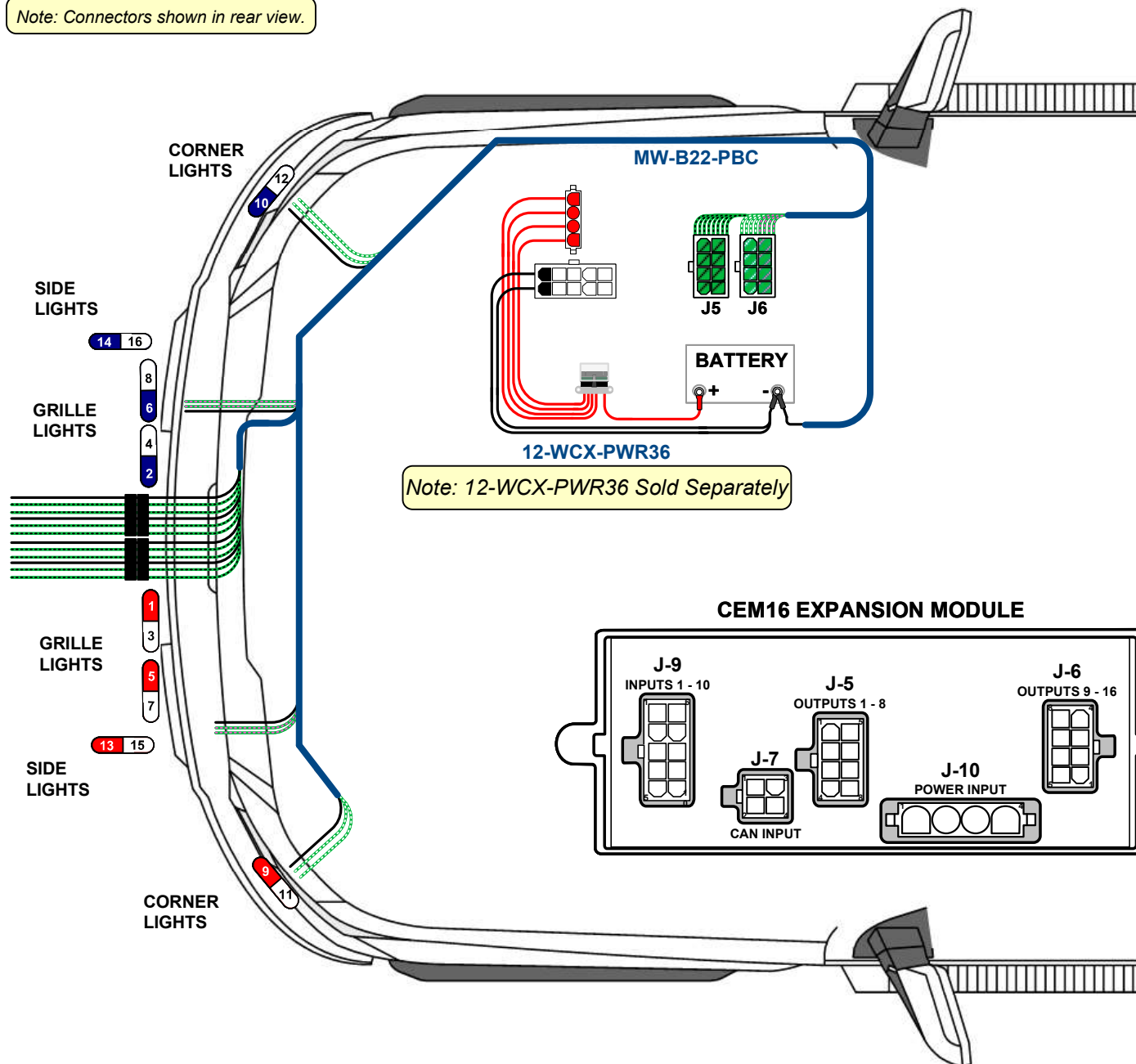
J-10 – POWER INPUT TO CEM16 FROM 12-WCX-PWR36*

- Pin 1 Power Input 1 (10A) – 16 Ga. RD Power 1 (10A) “PWR 1” from Fuse Position 1
- Pin 2 Power Input 2 (10A) – 16 Ga. RD Power 2 (10A) “PWR 2” from Fuse Position 2
- Pin 3 Power Input 3 (10A) – 16 Ga. RD Power 3 (10A) “PWR 3” from Fuse Position 3
- Pin 4 Power Input 4 (10A) – 16 Ga. RD Power 4 (10A) “PWR 4” from Fuse Position 4

*Note: See 12-WCX-PWR36 Layout, if applicable, for detailed information on Power Distribution (J9 and J10 Connectors)

**Note: See Data Harness Layout, if applicable, for detailed information on Data Distribution (J7 Connectors)

Note: Connectors shown in rear view.



FRONT LIGHTING:

GRILLE LIGHTS – MW-B22-PBC

- 18 Ga. GN/BK Pass. Grille Light "X OUT 2" to CEM16 J5 Pin 2
- 18 Ga. GN/BK Pass. Grille Light "X OUT 4" to CEM16 J5 Pin 4
- 18 Ga. GN/BK Pass. Grille Light "X OUT 6" to CEM16 J5 Pin 6
- 18 Ga. GN/BK Pass. Grille Light "X OUT 8" to CEM16 J5 Pin 8
- 18 Ga. BK Pass. Grille Lights Ground "LT 2 GND" to Ground Assembly
- 18 Ga. BK Pass. Grille Lights Ground "LT 6 GND" to Ground Assembly
- 18 Ga. GN/BK Driver Grille Light "X OUT 1" to CEM16 J5 Pin 1
- 18 Ga. GN/BK Driver Grille Light "X OUT 3" to CEM16 J5 Pin 3
- 18 Ga. GN/BK Driver Grille Light "X OUT 5" to CEM16 J5 Pin 5
- 18 Ga. GN/BK Driver Grille Light "X OUT 7" to CEM16 J5 Pin 7
- 18 Ga. BK Driver Grille Lights Ground "LT 1 GND" to Ground Assembly
- 18 Ga. BK Driver Grille Lights Ground "LT 5 GND" to Ground Assembly

SIDE LIGHTS – MW-B22-PBC

- 18 Ga. GN/PK Pass. Side Light "X OUT 14" to CEM16 J6 Pin 6
- 18 Ga. GN/PK Pass. Side Light "X OUT 16" to CEM16 J6 Pin 8
- 18 Ga. BK Pass. Side Lights Ground "LT 14 GND" to Ground Assembly
- 18 Ga. GN/PK Driver Side Light "X OUT 13" to CEM16 J6 Pin 5
- 18 Ga. GN/PK Driver Side Light "X OUT 15" to CEM16 J6 Pin 7
- 18 Ga. BK Driver Side Lights Ground "LT 13 GND" to Ground Assembly

CORNER LIGHTS – MW-B22-PBC

- 18 Ga. GN/WH Pass. Corner Light "X OUT 10" to CEM16 J6 Pin 2
- 18 Ga. GN/WH Pass. Corner Light "X OUT 12" to CEM16 J6 Pin 4
- 18 Ga. BK Pass. Corner Lights Ground "LT 10 GND" to Ground Assembly
- 18 Ga. GN/WH Driver Corner Light "X OUT 9" to CEM16 J6 Pin 1
- 18 Ga. GN/WH Driver Corner Light "X OUT 11" to CEM16 J6 Pin 3
- 18 Ga. BK Driver Corner Lights Ground "LT 9 GND" to Ground Assembly

PRODUCTS SHOWN ON LAYOUT:

Front Lighting Harness: MW-B22-PBC
Underhood Power: 12-WCX-PWR36

TECHNICAL SUPPORT & SALES CONTACT:

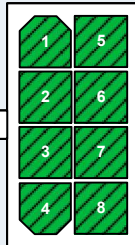
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

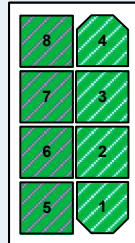
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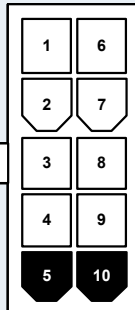
J-5 – OUTPUTS 1 thru 8 FROM CEM16

- Pin 1 Output 1 (2.5A) – 18 Ga. GN/BK Driver Grille Light 1 "X OUT 1"
- Pin 2 Output 2 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 2 "X OUT 2"
- Pin 3 Output 3 (2.5A) – 18 Ga. GN/BK Driver Grille Light 3 "X OUT 3"
- Pin 4 Output 4 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 4 "X OUT 4"
- Pin 5 Output 5 (2.5A) – 18 Ga. GN/BK Driver Grille Light 5 "X OUT 5"
- Pin 6 Output 6 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 6 "X OUT 6"
- Pin 7 Output 7 (2.5A) – 18 Ga. GN/BK Driver Grille Light 7 "X OUT 7"
- Pin 8 Output 8 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 8 "X OUT 8"



J-6 – OUTPUTS 9 thru 16 FROM CEM16

- Pin 1 Output 9 (2.5A) – 18 Ga. GN/WH Driver Corner Light 9 "X OUT 9"
- Pin 2 Output 10 (2.5A) – 18 Ga. GN/WH Pass. Corner Light 10 "X OUT 10"
- Pin 3 Output 11 (2.5A) – 18 Ga. GN/WH Driver Corner Light 11 "X OUT 11"
- Pin 4 Output 12 (2.5A) – 18 Ga. GN/WH Pass. Corner Light 12 "X OUT 12"
- Pin 5 Output 13 (2.5A) – 18 Ga. GN/PK Driver Side Light 13 "X OUT 13"
- Pin 6 Output 14 (2.5A) – 18 Ga. GN/PK Pass. Side Light 14 "X OUT 14"
- Pin 7 Output 15 (2.5A) – 18 Ga. GN/PK Driver Side Light 15 "X OUT 15"
- Pin 8 Output 16 (2.5A) – 18 Ga. GN/PK Pass. Side Light 16 "X OUT 16"



J-9 – INPUTS 1 thru 10 TO CEM16

- Pin 1 Input 1 Ground (–) –
- Pin 2 Input 2 Ground (–) –
- Pin 3 Input 3 Ground (–) –
- Pin 4 Input 4 Ground (–) –
- Pin 5 Main Ground Input – 16 Ga. BK CEM16 Ground "J9 5 GND" from 12-WCX-PWR36*
- Pin 6 Input 1 Positive (+) –
- Pin 7 Input 2 Positive (+) –
- Pin 8 Input 3 Positive (+) –
- Pin 9 Input 4 Positive (+) –
- Pin 10 Main Ground Input – 16 Ga. BK CEM16 Ground "J9 10 GND" from 12-WCX-PWR36*

J-7 – CAN INPUT TO CEM16 FROM DATA HARNESS**

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Not Used – Plug



J-10 – POWER INPUT TO CEM16 FROM 12-WCX-PWR36*

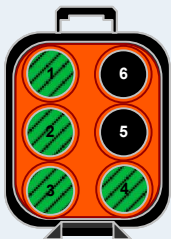
- Pin 1 Power Input 1 (10A) – 16 Ga. RD Power 1 (10A) "PWR 1" from Fuse Position 1
- Pin 2 Power Input 2 (10A) – 16 Ga. RD Power 2 (10A) "PWR 2" from Fuse Position 2
- Pin 3 Power Input 3 (10A) – 16 Ga. RD Power 3 (10A) "PWR 3" from Fuse Position 3
- Pin 4 Power Input 4 (10A) – 16 Ga. RD Power 4 (10A) "PWR 4" from Fuse Position 4

*Note: See 12-WCX-PWR36 Layout, if applicable, for detailed information on Power Distribution (J9 and J10 Connectors)

**Note: See Data Harness Layout, if applicable, for detailed information on Data Distribution (J7 Connectors)

DRIVER GRILLE LIGHTS – MW-B22-PBC

- Pin 1 – 18 Ga. GN/BK Driver Grille Light "X OUT 1" from CEM16 J5 Pin 1
- Pin 2 – 18 Ga. GN/BK Driver Grille Light "X OUT 3" from CEM16 J5 Pin 3
- Pin 3 – 18 Ga. GN/BK Driver Grille Light "X OUT 5" from CEM16 J5 Pin 5
- Pin 4 – 18 Ga. GN/BK Driver Grille Light "X OUT 7" from CEM16 J5 Pin 7
- Pin 5 – 18 Ga. BK Driver Grille Lights Ground "LT 1 GND" from Ground Assembly
- Pin 6 – 18 Ga. BK Driver Grille Lights Ground "LT 5 GND" from Ground Assembly



PASS. GRILLE LIGHTS – MW-B22-PBC

- Pin 1 – 18 Ga. GN/BK Pass. Grille Light "X OUT 2" from CEM16 J5 Pin 2
- Pin 2 – 18 Ga. GN/BK Pass. Grille Light "X OUT 4" from CEM16 J5 Pin 4
- Pin 3 – 18 Ga. GN/BK Pass. Grille Light "X OUT 6" from CEM16 J5 Pin 6
- Pin 4 – 18 Ga. GN/BK Pass. Grille Light "X OUT 8" from CEM16 J5 Pin 8
- Pin 5 – 18 Ga. BK Pass. Grille Lights Ground "LT 2 GND" from Ground Assembly
- Pin 6 – 18 Ga. BK Pass. Grille Lights Ground "LT 6 GND" from Ground Assembly



DRIVER GRILLE LIGHTS – PIGTAIL 30"

- Pin 1 – 18 Ga. GN/BK Driver Grille Light "X OUT 1"
- Pin 2 – 18 Ga. GN/BK Driver Grille Light "X OUT 3"
- Pin 3 – 18 Ga. GN/BK Driver Grille Light "X OUT 5"
- Pin 4 – 18 Ga. GN/BK Driver Grille Light "X OUT 7"
- Pin 5 – 18 Ga. BK Driver Grille Lights Ground "LT 1 GND"
- Pin 6 – 18 Ga. BK Driver Grille Lights Ground "LT 5 GND"

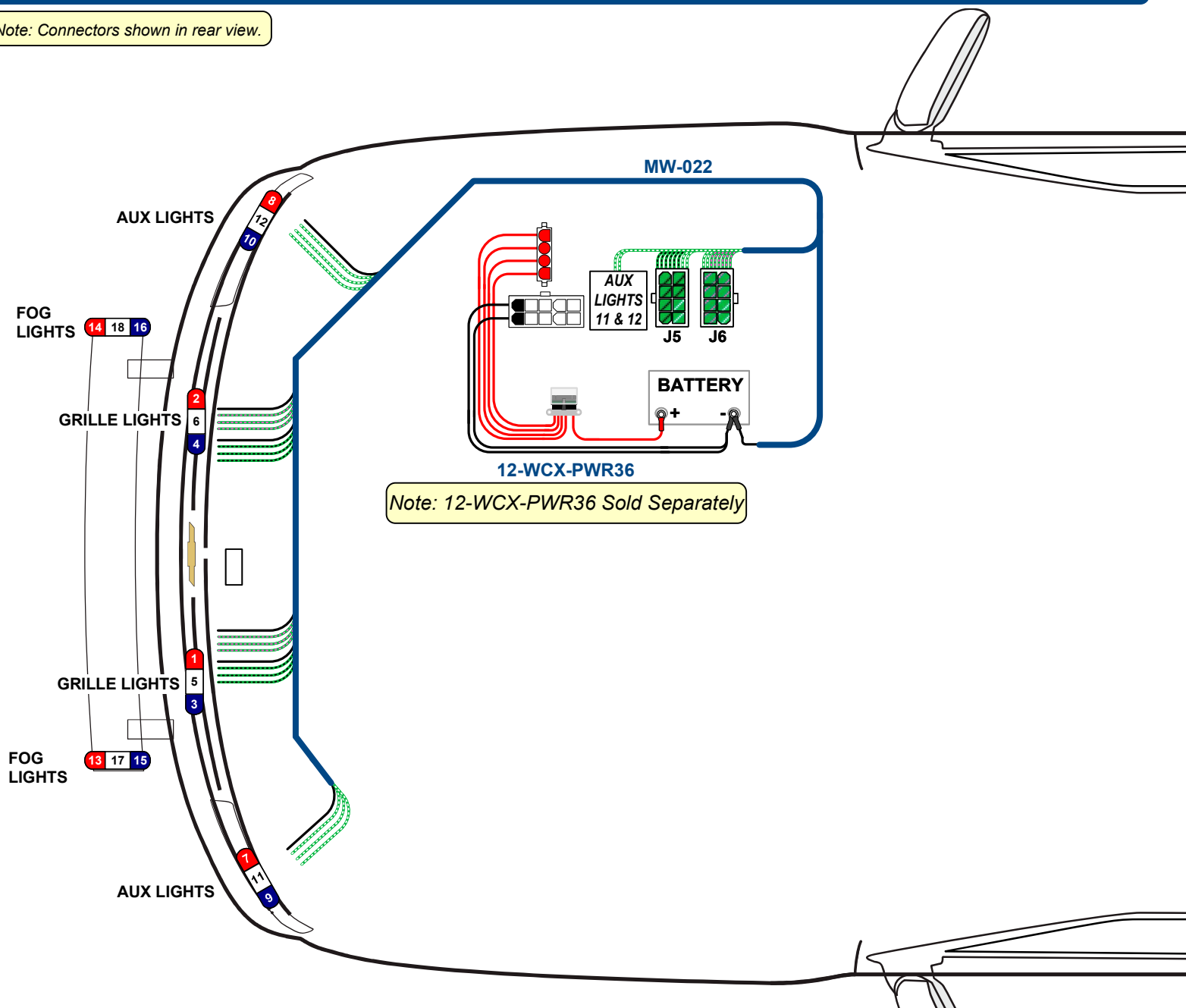


PASS. GRILLE LIGHTS – PIGTAIL 30"

- Pin 1 – 18 Ga. GN/BK Pass. Grille Light "X OUT 2"
- Pin 2 – 18 Ga. GN/BK Pass. Grille Light "X OUT 4"
- Pin 3 – 18 Ga. GN/BK Pass. Grille Light "X OUT 6"
- Pin 4 – 18 Ga. GN/BK Pass. Grille Light "X OUT 8"
- Pin 5 – 18 Ga. BK Pass. Grille Lights Ground "LT 2 GND"
- Pin 6 – 18 Ga. BK Pass. Grille Lights Ground "LT 6 GND"



Note: Connectors shown in rear view.



Note: 12-WCX-PWR36 Sold Separately

FRONT LIGHTING:

GRILLE LIGHTS – MW-022

- 18 Ga. GN/BK Pass. Grille Light "X OUT 2" to CEM16 J5 Pin 2
- 18 Ga. GN/BK Pass. Grille Light "X OUT 4" to CEM16 J5 Pin 4
- 18 Ga. GN/BK Pass. Grille Light "X OUT 6" to CEM16 J5 Pin 6
- 18 Ga. BK Pass. Grille Lights Ground "OUT 2 GND" to Ground Assembly
- 18 Ga. GN/BK Driver Grille Light "X OUT 1" to CEM16 J5 Pin 1
- 18 Ga. GN/BK Driver Grille Light "X OUT 3" to CEM16 J5 Pin 3
- 18 Ga. GN/BK Driver Grille Light "X OUT 5" to CEM16 J5 Pin 5
- 18 Ga. BK Driver Grille Lights Ground "OUT 1 GND" to Ground Assembly

AUX LIGHTS – MW-022

- 18 Ga. GN/WH Pass. Aux Light "X OUT 8" to CEM16 J5 Pin 8
- 18 Ga. GN/WH Pass. Aux Light "X OUT 10" to CEM16 J6 Pin 2
- 18 Ga. GN/WH Pass. Aux Light "X OUT 12" Pigtail 24"
- 18 Ga. BK Pass. Aux Lights Ground "OUT 8 GND" to Ground Assembly
- 18 Ga. GN/WH Driver Aux Light "X OUT 7" to CEM16 J5 Pin 7
- 18 Ga. GN/WH Driver Aux Light "X OUT 9" to CEM16 J6 Pin 1
- 18 Ga. GN/WH Driver Aux Light "X OUT 11" Pigtail 24"
- 18 Ga. BK Driver Aux Lights Ground "OUT 7 GND" to Ground Assembly

FOG LIGHTS – MW-022

- 18 Ga. GN/PK Pass. Fog Light "X OUT 14" to CEM16 J6 Pin 4
- 18 Ga. GN/PK Pass. Fog Light "X OUT 16" to CEM16 J6 Pin 6
- 18 Ga. GN/PK Pass. Fog Light "X OUT 18" to CEM16 J6 Pin 8
- 18 Ga. BK Pass. Fog Lights Ground "OUT 14 GND" to Ground Assembly
- 18 Ga. GN/PK Driver Fog Light "X OUT 13" to CEM16 J6 Pin 3
- 18 Ga. GN/PK Driver Fog Light "X OUT 15" to CEM16 J6 Pin 5
- 18 Ga. GN/PK Driver Fog Light "X OUT 17" to CEM16 J6 Pin 7
- 18 Ga. BK Driver Fog Lights Ground "OUT 13 GND" to Ground Assembly

Note: 18 Ga. GN/WH Driver Aux Light 11 "X OUT 11" Pigtail 24" & 18 Ga. GN/WH Pass. Aux Light 12 "X OUT 12" Pigtail 24" are not terminated and appear next to the CEM16 for customer configuration.

PRODUCTS SHOWN ON LAYOUT:

Front Lighting Harness: MW-022
Underhood Power: 12-WCX-PWR36

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

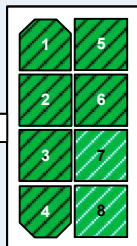
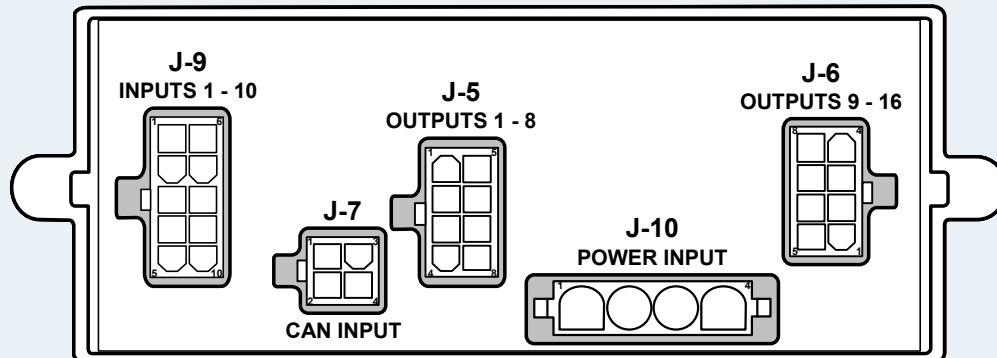
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 120221

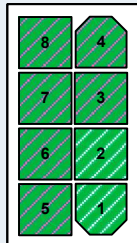
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CEM16 EXPANSION MODULE



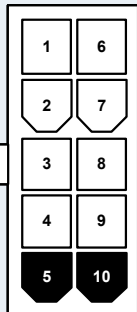
J-5 – OUTPUTS 1 thru 8 FROM CEM16

- Pin 1 Output 1 (2.5A) – 18 Ga. GN/BK Driver Grille Light 1 "X OUT 1"
- Pin 2 Output 2 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 2 "X OUT 2"
- Pin 3 Output 3 (2.5A) – 18 Ga. GN/BK Driver Grille Light 3 "X OUT 3"
- Pin 4 Output 4 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 4 "X OUT 4"
- Pin 5 Output 5 (2.5A) – 18 Ga. GN/BK Driver Grille Light 5 "X OUT 5"
- Pin 6 Output 6 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 6 "X OUT 6"
- Pin 7 Output 7 (2.5A) – 18 Ga. GN/WH Driver Aux Light 7 "X OUT 7"
- Pin 8 Output 8 (2.5A) – 18 Ga. GN/WH Pass. Aux Light 8 "X OUT 8"



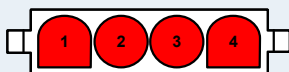
J-6 – OUTPUTS 9 thru 16 FROM CEM16

- Pin 1 Output 9 (2.5A) – 18 Ga. GN/WH Driver Aux Light 9 "X OUT 9"
- Pin 2 Output 10 (2.5A) – 18 Ga. GN/WH Pass. Aux Light 10 "X OUT 10"
- Pin 3 Output 11 (2.5A) – 18 Ga. GN/PK Driver Fog Light 13 "X OUT 13"
- Pin 4 Output 12 (2.5A) – 18 Ga. GN/PK Pass. Fog Light 14 "X OUT 14"
- Pin 5 Output 13 (2.5A) – 18 Ga. GN/PK Driver Fog Light 15 "X OUT 15"
- Pin 6 Output 14 (2.5A) – 18 Ga. GN/PK Pass. Fog Light 16 "X OUT 16"
- Pin 7 Output 15 (2.5A) – 18 Ga. GN/PK Driver Fog Light 17 "X OUT 17"
- Pin 8 Output 16 (2.5A) – 18 Ga. GN/PK Pass. Fog Light 18 "X OUT 18"



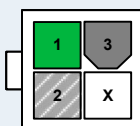
J-9 – INPUTS 1 thru 10 TO CEM16

- Pin 1 Input 1 Ground (–) –
- Pin 2 Input 2 Ground (–) –
- Pin 3 Input 3 Ground (–) –
- Pin 4 Input 4 Ground (–) –
- Pin 5 Main Ground Input – 16 Ga. BK CEM16 Ground "J9 5 GND" from 12-WCX-PWR36*
- Pin 6 Input 1 Positive (+) –
- Pin 7 Input 2 Positive (+) –
- Pin 8 Input 3 Positive (+) –
- Pin 9 Input 4 Positive (+) –
- Pin 10 Main Ground Input – 16 Ga. BK CEM16 Ground "J9 10 GND" from 12-WCX-PWR36*



J-10 – POWER INPUT TO CEM16 FROM 12-WCX-PWR36*

- Pin 1 Power Input 1 (10A) – 16 Ga. RD Power 1 (10A) "PWR 1" from Fuse Position 1
- Pin 2 Power Input 2 (10A) – 16 Ga. RD Power 2 (10A) "PWR 2" from Fuse Position 2
- Pin 3 Power Input 3 (10A) – 16 Ga. RD Power 3 (10A) "PWR 3" from Fuse Position 3
- Pin 4 Power Input 4 (10A) – 16 Ga. RD Power 4 (10A) "PWR 4" from Fuse Position 4



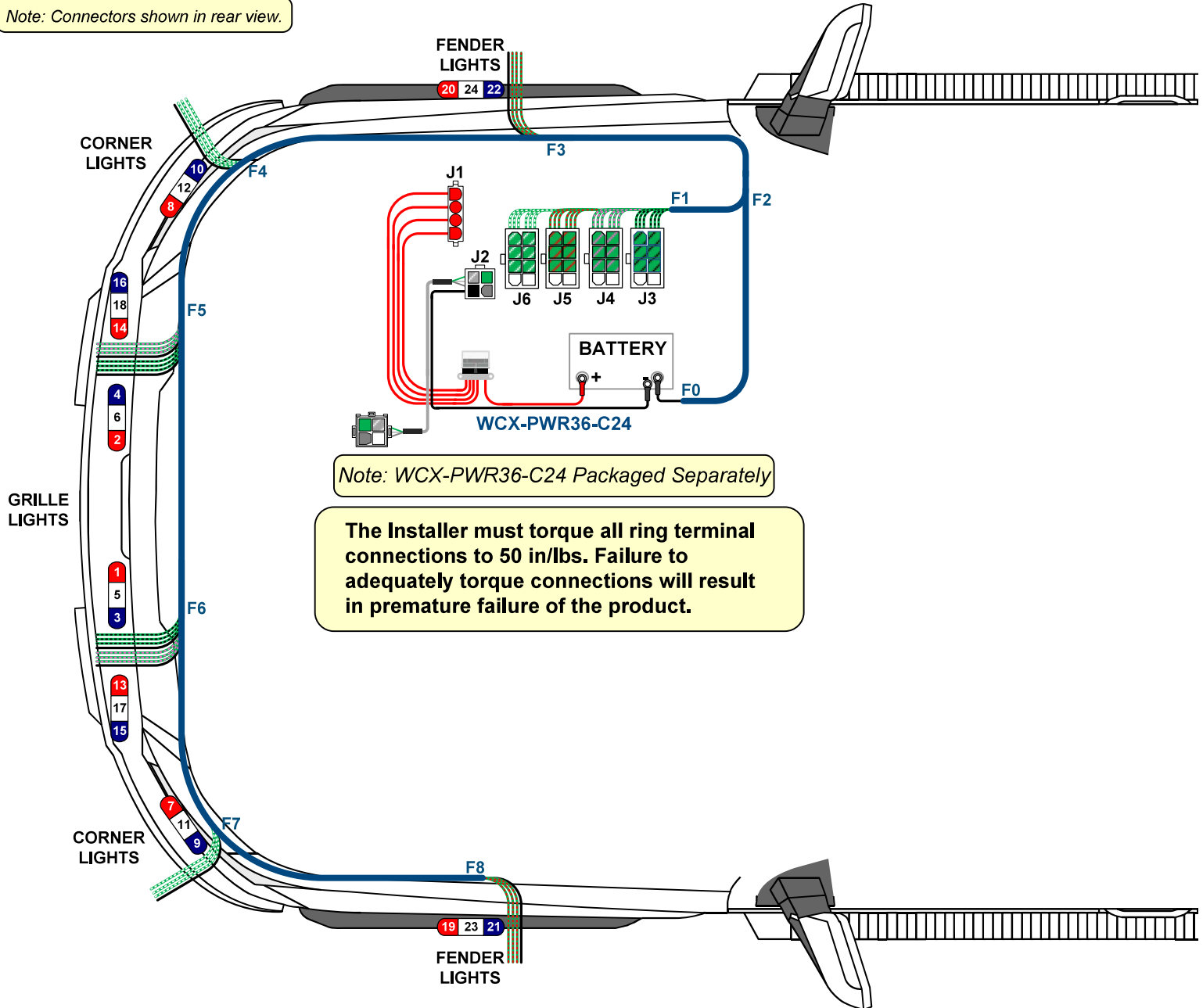
J-7 – CAN INPUT TO CEM16 FROM DATA HARNESS**

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Not Used – Plug

**Note: See 12-WCX-PWR36 Layout, if applicable, for detailed information on Power Distribution (J9 and J10 Connectors)*

***Note: See Data Harness Layout, if applicable, for detailed information on Data Distribution (J7 Connectors)*

Note: Connectors shown in rear view.



FRONT LIGHTING:

GRILLE LIGHTS

- 18 Ga. GN/BK Driver Grille Light 1 "LT 1" to CEM24 J3 Pin 1
- 18 Ga. GN/BK Driver Grille Light 3 "LT 3" to CEM24 J3 Pin 2
- 18 Ga. GN/BK Driver Grille Light 5 "LT 5" to CEM24 J3 Pin 3
- 18 Ga. BK Driver Grille Lights Ground "LT 1 GND" to Ground Assembly
- 18 Ga. GN/BK Pass. Grille Light 2 "LT 2" to CEM24 J3 Pin 4
- 18 Ga. GN/BK Pass. Grille Light 4 "LT 4" to CEM24 J3 Pin 5
- 18 Ga. GN/BK Pass. Grille Light 6 "LT 6" to CEM24 J3 Pin 6
- 18 Ga. BK Pass. Grille Lights Ground "LT 2 GND" to Ground Assembly
- 18 Ga. GN/BK Driver Grille Light 13 "LT 13" to CEM24 J4 Pin 1
- 18 Ga. GN/BK Driver Grille Light 15 "LT 15" to CEM24 J4 Pin 2
- 18 Ga. GN/BK Driver Grille Light 17 "LT 17" to CEM24 J4 Pin 3
- 18 Ga. BK Driver Grille Lights Ground "LT 13 GND" to Ground Assembly
- 18 Ga. GN/BK Pass. Grille Light 14 "LT 14" to CEM24 J4 Pin 4
- 18 Ga. GN/BK Pass. Grille Light 16 "LT 16" to CEM24 J4 Pin 5
- 18 Ga. GN/BK Pass. Grille Light 18 "LT 18" to CEM24 J4 Pin 6
- 18 Ga. BK Pass. Grille Lights Ground "LT 14 GND" to Ground Assembly

FENDER LIGHTS

- 18 Ga. GN/RD Driver Fender Light 19 "LT 19" from CEM24 J5 Pin 1
- 18 Ga. GN/RD Driver Fender Light 21 "LT 21" from CEM24 J5 Pin 2
- 18 Ga. GN/RD Driver Fender Light 23 "LT 23" from CEM24 J5 Pin 3
- 18 Ga. BK Driver Fender Lights Ground "LT 19 GND" to Ground Assembly
- 18 Ga. GN/RD Pass. Fender Light 20 "LT 20" from CEM24 J5 Pin 4
- 18 Ga. GN/RD Pass. Fender Light 22 "LT 22" from CEM24 J5 Pin 5
- 18 Ga. GN/RD Pass. Fender Light 24 "LT 24" from CEM24 J5 Pin 6
- 18 Ga. BK Pass. Fender Lights Ground "LT 20 GND" to Ground Assembly

CORNER LIGHTS

- 18 Ga. GN/WH Driver Corner Light 7 "LT 7" from CEM24 J6 Pin 1
- 18 Ga. GN/WH Driver Corner Light 9 "LT 9" from CEM24 J6 Pin 2
- 18 Ga. GN/WH Driver Corner Light 11 "LT 11" from CEM24 J6 Pin 3
- 18 Ga. BK Driver Corner Lights Ground "LT 7 GND" to Ground Assembly
- 18 Ga. GN/WH Pass. Corner Light 8 "LT 8" from CEM24 J6 Pin 4
- 18 Ga. GN/WH Pass. Corner Light 10 "LT 10" from CEM24 J6 Pin 5
- 18 Ga. GN/WH Pass. Corner Light 12 "LT 12" from CEM24 J6 Pin 6
- 18 Ga. BK Pass. Corner Lights Ground "LT 8 GND" to Ground Assembly

PRODUCTS SHOWN ON LAYOUT:

Front Lighting Harness: MW-C24-T8
Whelen CEM24 Power Cable: WCX-PWR36-C24

TECHNICAL SUPPORT & SALES CONTACT:

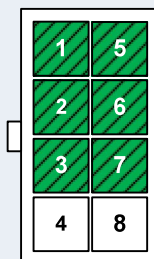
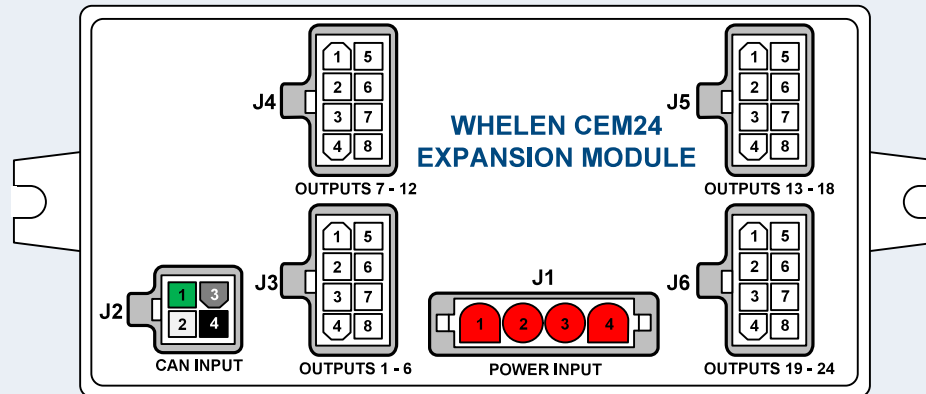
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

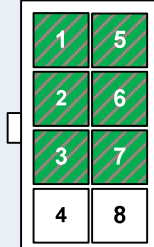
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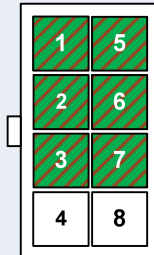
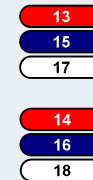
J3 – OUTPUTS 1 – 6

- Pin 1 Output 1 (2.5A) – 18 Ga. GN/BK Driver Grille Light 1 “LT 1”
- Pin 2 Output 2 (2.5A) – 18 Ga. GN/BK Driver Grille Light 3 “LT 3”
- Pin 3 Output 3 (2.5A) – 18 Ga. GN/BK Driver Grille Light 5 “LT 5”
- Pin 4 – No Connection – Sealing Plug
- Pin 5 Output 4 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 2 “LT 2”
- Pin 6 Output 5 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 4 “LT 4”
- Pin 7 Output 6 (2.5A) – 18 Ga. GN/BK Pass. Grille Light 6 “LT 6”
- Pin 8 – No Connection – Sealing Plug



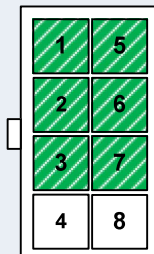
J4 – OUTPUTS 7 – 12

- Pin 1 Output 7 (2.5A) – 18 Ga. GN/PK Driver Grille Light 13 “LT 13”
- Pin 2 Output 8 (2.5A) – 18 Ga. GN/PK Driver Grille Light 15 “LT 15”
- Pin 3 Output 9 (2.5A) – 18 Ga. GN/PK Driver Grille Light 17 “LT 17”
- Pin 4 – No Connection – Sealing Plug
- Pin 5 Output 10 (2.5A) – 18 Ga. GN/PK Pass. Grille Light 14 “LT 14”
- Pin 6 Output 11 (2.5A) – 18 Ga. GN/PK Pass. Grille Light 16 “LT 16”
- Pin 7 Output 12 (2.5A) – 18 Ga. GN/PK Pass. Grille Light 18 “LT 18”
- Pin 8 – No Connection – Sealing Plug



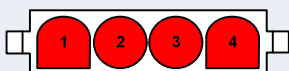
J5 – OUTPUTS 13 – 18

- Pin 1 Output 13 (2.5A) – 18 Ga. GN/RD Driver Fender Light 19 “LT 19”
- Pin 2 Output 14 (2.5A) – 18 Ga. GN/RD Driver Fender Light 21 “LT 21”
- Pin 3 Output 15 (2.5A) – 18 Ga. GN/RD Driver Fender Light 23 “LT 23”
- Pin 4 – No Connection – Sealing Plug
- Pin 5 Output 16 (2.5A) – 18 Ga. GN/RD Pass. Fender Light 20 “LT 20”
- Pin 6 Output 17 (2.5A) – 18 Ga. GN/RD Pass. Fender Light 22 “LT 22”
- Pin 7 Output 18 (2.5A) – 18 Ga. GN/RD Pass. Fender Light 24 “LT 24”
- Pin 8 – No Connection – Sealing Plug



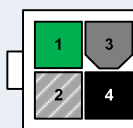
J6 – OUTPUTS 19 – 24

- Pin 1 Output 19 (2.5A) – 18 Ga. GN/WH Driver Corner Light 7 “LT 7”
- Pin 2 Output 20 (2.5A) – 18 Ga. GN/WH Driver Corner Light 9 “LT 9”
- Pin 3 Output 21 (2.5A) – 18 Ga. GN/WH Driver Corner Light 11 “LT 11”
- Pin 4 – No Connection
- Pin 5 Output 22 (2.5A) – 18 Ga. GN/WH Pass. Corner Light 8 “LT 8”
- Pin 6 Output 23 (2.5A) – 18 Ga. GN/WH Pass. Corner Light 10 “LT 10”
- Pin 7 Output 24 (2.5A) – 18 Ga. GN/WH Pass. Corner Light 12 “LT 12”
- Pin 8 – No Connection



J1 – POWER INPUT TO CEM24

- Pin 1 Power Input 1 (15A) – 14 Ga. RD Power 1
- Pin 2 Power Input 2 (15A) – 14 Ga. RD Power 2
- Pin 3 Power Input 3 (15A) – 14 Ga. RD Power 3
- Pin 4 Power Input 4 (15A) – 14 Ga. RD Power 4



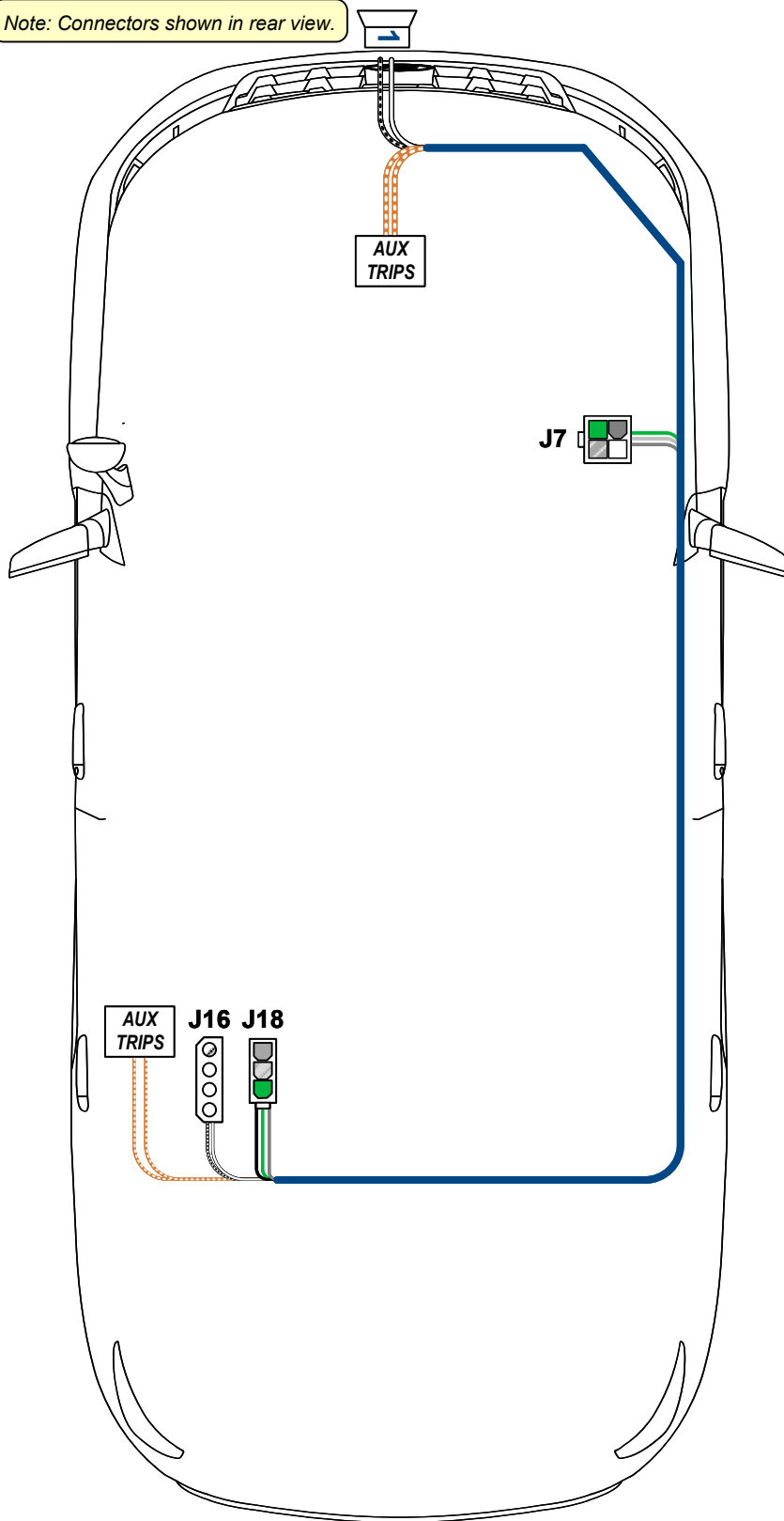
J2 – CAN INPUT TO CEM24

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Main Ground Input – 18 Ga. BK CEM24 Ground

**Note: See WCX-PWR36-C24 Layout, if applicable, for detailed information on Power Distribution (J1 Connector)*

***Note: See Data Harness Layout, if applicable, for detailed information on Data Distribution (J2 Connector)*

Note: Connectors shown in rear view.



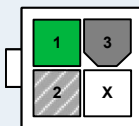
FRONT CIRCUITS:

SPEAKER

- 16 Ga. WH/BK Speaker Positive "SPKR POS" from CORE J16 Pin 1
- 16 Ga. WH Speaker Common "SPKR COM" from CORE J16 Pin 3

AUX TRIPS

- 14 Ga. TN/WH Aux Trip 1 "AUX TRIP 1" from Rear
- 14 Ga. TN/WH Aux Trip 2 "AUX TRIP 2" from Rear



J-7 – CAN INPUT TO CEM16

- Pin 1 CAN H – 20 Ga. GN Twisted Pair from CORE J18 Pin 3
- Pin 2 Shield – 20 Ga. Shield from CORE J18 Pin 2
- Pin 3 CAN L – 20 Ga. GY Twisted Pair from CORE J18 Pin 1
- Pin 4 Not Used – Plug

REAR CIRCUITS:

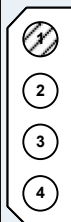
AUX TRIPS

- 14 Ga. TN/WH Aux Trip 1 "AUX TRIP 1" to Front
- 14 Ga. TN/WH Aux Trip 2 "AUX TRIP 2" to Front



J18– CAN INPUT

- Pin 1 Can High – 20 Ga. GY Twisted Pair to CEM16 J-7 Pin 1
- Pin 2 Shield – 20 Ga. Shield to CEM16 J-7 Pin 2
- Pin 3 Can Low – 20 Ga. GN Twisted Pair to CEM16 J-7 Pin 3



J16 – SIREN OUT

- Pin 1 – 16 Ga. WH/BK Speaker Positive "SPKR POS" to Speaker
- Pin 2 Speaker 2 (+) – _____
- Pin 3 – 16 Ga. WH Speaker Common "SPKR COM" to Speaker
- Pin 4 Speaker 2 (–) – _____

MW-DC21:

The Data Cable harness runs from the rear lighting & siren controller to the center of the front bumper. It provides a twisted pair data cable, siren speaker wires & aux trip wires. Series-F options may be added to this harness, including 2nd speaker and low frequency speakers.

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

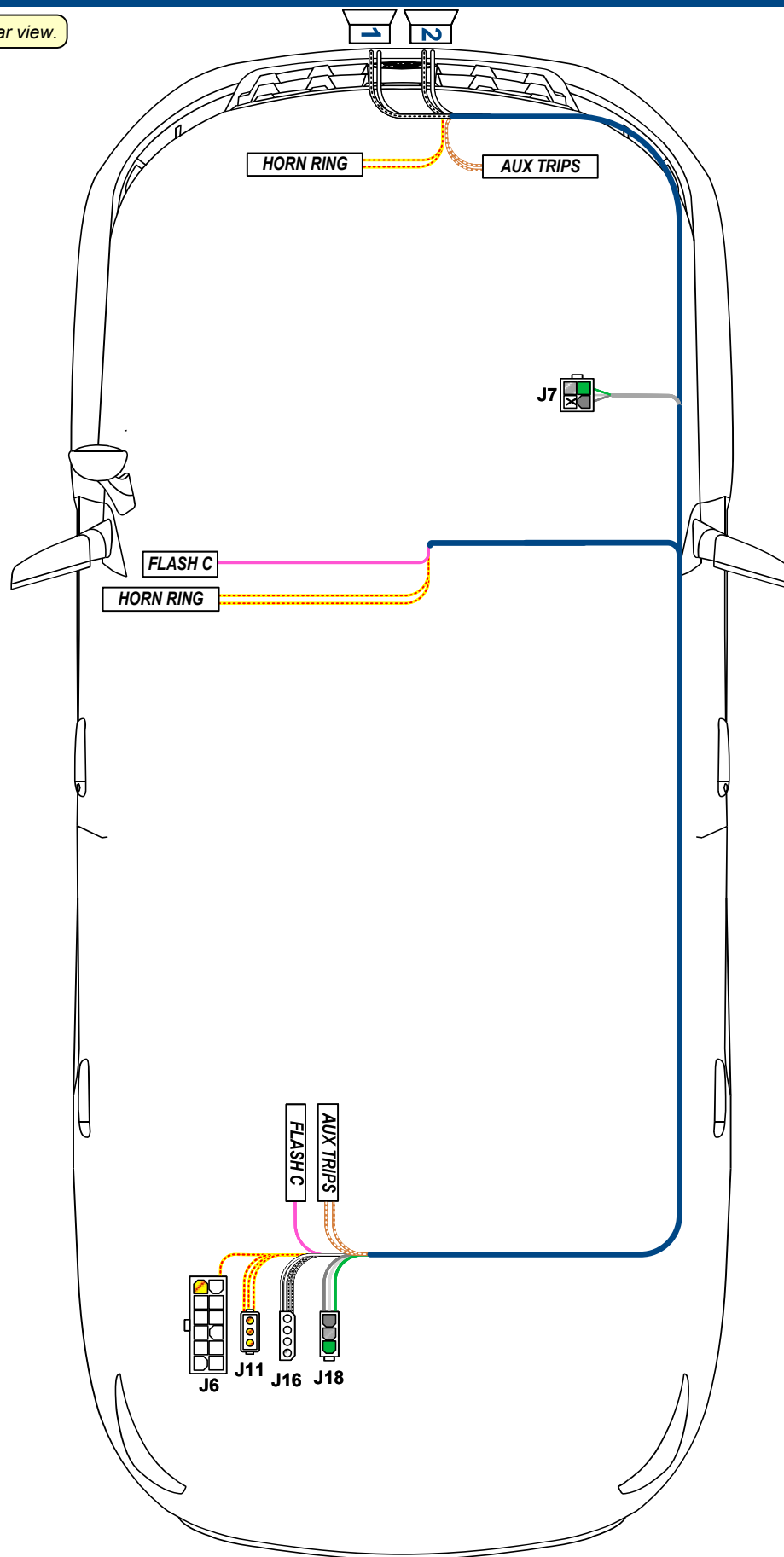
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 090221

ECN 000000

Note: Connectors shown in rear view.



PRODUCTS SHOWN ON LAYOUT:

Main Harness: MW-DC25-2

Front Harness:

Rear Harness:

Battery Cable:

TECHNICAL SUPPORT & SALES CONTACT:

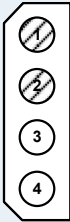
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

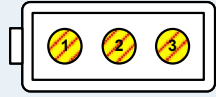
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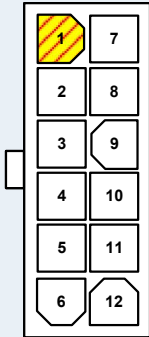
J16 – SIREN OUT

- Pin 1 Speaker 1 (+) – 16 Ga. WH/BK “SPKR 1 POS”
- Pin 2 Speaker 2 (+) – 16 Ga. WH/BK “SPKR 2 POS”
- Pin 3 Speaker 1 (–) – 16 Ga. WH “SPKR 1 COM”
- Pin 4 Speaker 2 (–) – 16 Ga. WH “SPKR 2 COM”



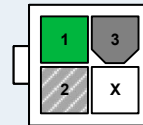
J11 – DRY CONTACT RELAY

- Pin 1 Normally Open – 16 Ga. YW/RD “HORN TRANS”
- Pin 2 Common – 16 Ga. YW/RD “HORN RING”
- Pin 3 Normally Closed – 16 Ga. YW/RD “HORN”



J6 – DIGITAL INPUTS

- Pin 1 Input 1 – 16 Ga. YW/RD “HORN TRANS”
- Pin 2 Input 2 –
- Pin 3 Input 3 –
- Pin 4 Input 4 –
- Pin 5 Input 5 –
- Pin 6 Input 6 –
- Pin 7 Input 7 –
- Pin 8 Input 8 –
- Pin 9 Input 9 –
- Pin 10 Input 10 –
- Pin 11 Input 11 –
- Pin 12 Input 12 –



J-7 – CAN INPUT TO CEM16

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Not Used – Plug



J18 CAN INPUTS TO CORE

- Pin 1 Can Low – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 Can High – 20 Ga. GY Twisted Pair

FRONT COMPONENTS:

SPEAKERS

- 16 Ga. WH/BK Speaker 1 Positive “SPKR 1 POS” from CORE J16 Pin 1
- 16 Ga. WH/BK Speaker 2 Positive “SPKR 2 POS” from CORE J16 Pin 2
- 16 Ga. WH Speaker 1 Common “SPKR 1 COM” from CORE J16 Pin 3
- 16 Ga. WH Speaker 2 Common “SPKR 2 COM” from CORE J16 Pin 4

HORN / HORN RING

- 16 Ga. YW/RD Horn “HORN” from HORN 2 Assembly
- 16 Ga. YW/RD Horn Ring “HORN RG 2” from HORN RING Assembly

AUX TRIPS

- 14 Ga. TN/WH Aux Trip 1 “AUX TRIP 1” from Rear
- 14 Ga. TN/WH Aux Trip 2 “AUX TRIP 2” from Rear

J7 DATA CONNECTOR

- Pin 1 CAN H – 20 Ga. GN Twisted Pair from CORE J18 Pin 1
- Pin 2 Shield – 20 Ga. Shield from CORE J18 Pin 2
- Pin 3 CAN L – 20 Ga. GY Twisted Pair from CORE J18 Pin 3
- Pin 4 Not Used – Plug

MID COMPONENTS:

FLASH C

- 16 Ga. PK Flash C “FLASH C” from Rear

HORN / HORN RING

- 16 Ga. YW/RD Horn “HORN 1” from HORN Assembly
- 16 Ga. YW/RD Horn Ring “HORN RG 1” from HORN RING Assembly

REAR COMPONENTS:

AUX TRIPS

- 14 Ga. TN/WH Aux Trip 1 “AUX TRIP 1” to Front
- 14 Ga. TN/WH Aux Trip 2 “AUX TRIP 2” to Front

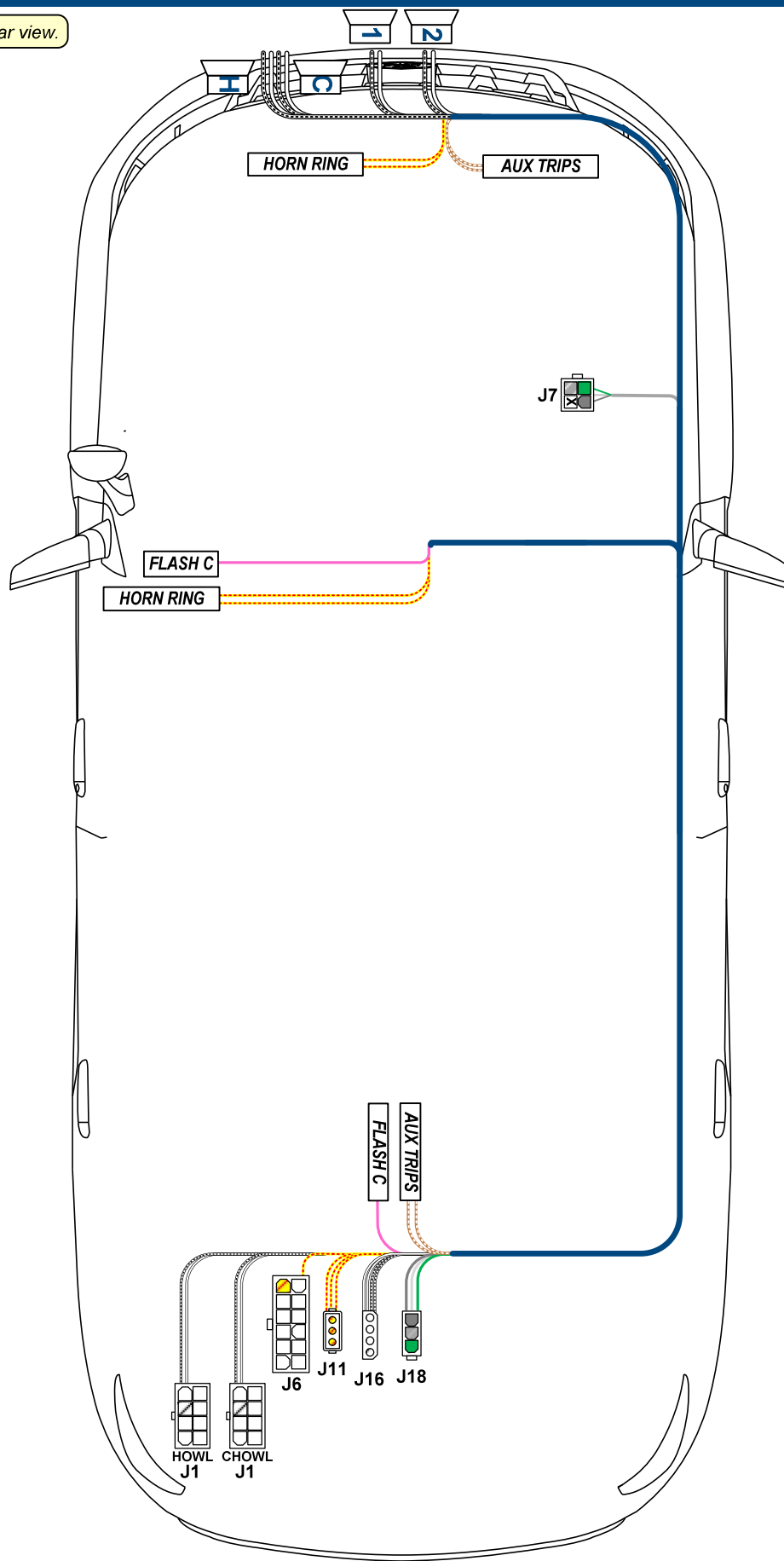
FLASH C

- 16 Ga. PK Flash C “FLASH C” to Console

CORE MODULE

- See CORE Module Layout for detailed information.

Note: Connectors shown in rear view.



PRODUCTS SHOWN ON LAYOUT:

Main Harness: MW-DC25-2CH

Front Harness:

Rear Harness:

Battery Cable:

TECHNICAL SUPPORT & SALES CONTACT:

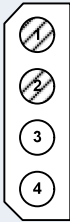
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

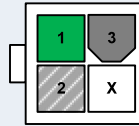
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ECN 000000



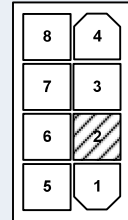
J16 – SIREN OUT

- Pin 1 Speaker 1 (+) – 16 Ga. WH/BK “SPKR 1 POS”
- Pin 2 Speaker 2 (+) – 16 Ga. WH/BK “SPKR 2 POS”
- Pin 3 Speaker 1 (–) – 16 Ga. WH “SPKR 1 COM”
- Pin 4 Speaker 2 (–) – 16 Ga. WH “SPKR 2 COM”



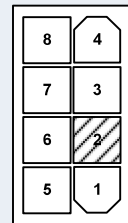
J-7 – CAN INPUT TO CEM16

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Not Used – Plug



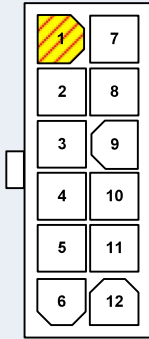
J1 – CHOWLER AMPLIFIER

- Pin 1 Amp Out 1 (+) –
- Pin 2 Amp Out 2 (+) – 16 Ga. WH/BK “CHOWLR POS”
- Pin 3 Amp Out 1 (–) –
- Pin 4 Amp Out 2 (–) – 16 Ga. WH “CHOWLR COM”
- Pin 5 Aux Out 1 (+) –
- Pin 6 Aux Out 1 (–) –
- Pin 7 Aux In 1 (+) –
- Pin 8 Aux In 1 (–) –



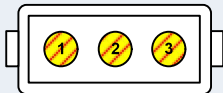
J1 – HOWLER AMPLIFIER

- Pin 1 Amp Out 1 (+) –
- Pin 2 Amp Out 2 (+) – 16 Ga. WH/BK “HOWLER POS”
- Pin 3 Amp Out 1 (–) –
- Pin 4 Amp Out 2 (–) – 16 Ga. WH “HOWLER COM”
- Pin 5 Aux Out 1 (+) –
- Pin 6 Aux Out 1 (–) –
- Pin 7 Aux In 1 (+) –
- Pin 8 Aux In 1 (–) –



J6 – DIGITAL INPUTS

- Pin 1 Input 1 – 16 Ga. YW/RD “HORN TRANS”
- Pin 2 Input 2 –
- Pin 3 Input 3 –
- Pin 4 Input 4 –
- Pin 5 Input 5 –
- Pin 6 Input 6 –
- Pin 7 Input 7 –
- Pin 8 Input 8 –
- Pin 9 Input 9 –
- Pin 10 Input 10 –
- Pin 11 Input 11 –
- Pin 12 Input 12 –



J11 – DRY CONTACT RELAY

- Pin 1 Normally Open – 16 Ga. YW/RD “HORN TRANS”
- Pin 2 Common – 16 Ga. YW/RD “HORN RING”
- Pin 3 Normally Closed – 16 Ga. YW/RD “HORN”



J18 CAN INPUTS TO CORE

- Pin 1 Can Low – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 Can High – 20 Ga. GY Twisted Pair

FRONT COMPONENTS:

SPEAKERS

- 16 Ga. WH/BK Speaker 1 Positive “SPKR 1 POS” from CORE J16 Pin 1
- 16 Ga. WH/BK Speaker 2 Positive “SPKR 2 POS” from CORE J16 Pin 2
- 16 Ga. WH Speaker 1 Common “SPKR 1 COM” from CORE J16 Pin 3
- 16 Ga. WH Speaker 2 Common “SPKR 2 COM” from CORE J16 Pin 4

CHOWLER SPEAKER

- 16 Ga. WH/BK Chowler Speaker Positive “CHOWLR POS” from Amplifier J1 Pin 2
- 16 Ga. WH Chowler Speaker Common “CHOWLR COM” from Amplifier J1 Pin 4

HOWLER SPEAKER

- 16 Ga. WH/BK Howler Speaker Positive “HOWLER POS” from Amplifier J1 Pin 2
- 16 Ga. WH Howler Speaker Common “HOWLER COM” from Amplifier J1 Pin 4

HORN / HORN RING

- 16 Ga. YW/RD Horn “HORN” from HORN 2 Assembly
- 16 Ga. YW/RD Horn Ring “HORN RG 2” from HORN RING Assembly

AUX TRIPS

- 14 Ga. TN/WH Aux Trip 1 “AUX TRIP 1” from Rear
- 14 Ga. TN/WH Aux Trip 2 “AUX TRIP 2” from Rear

J7 DATA CONNECTOR

- Pin 1 CAN H – 20 Ga. GN Twisted Pair from CORE J18 Pin 1
- Pin 2 Shield – 20 Ga. Shield from CORE J18 Pin 2
- Pin 3 CAN L – 20 Ga. GY Twisted Pair from CORE J18 Pin 3
- Pin 4 Not Used – Plug

MID COMPONENTS:

FLASH C

- 14 Ga. PK Flash C “FLASH C” from Rear

HORN / HORN RING

- 16 Ga. YW/RD Horn “HORN 1” from HORN Assembly
- 16 Ga. YW/RD Horn Ring “HORN RG 1” from HORN RING Assembly

REAR COMPONENTS:

AUX TRIPS

- 14 Ga. TN/WH Aux Trip 1 “AUX TRIP 1” to Front
- 14 Ga. TN/WH Aux Trip 2 “AUX TRIP 2” to Front

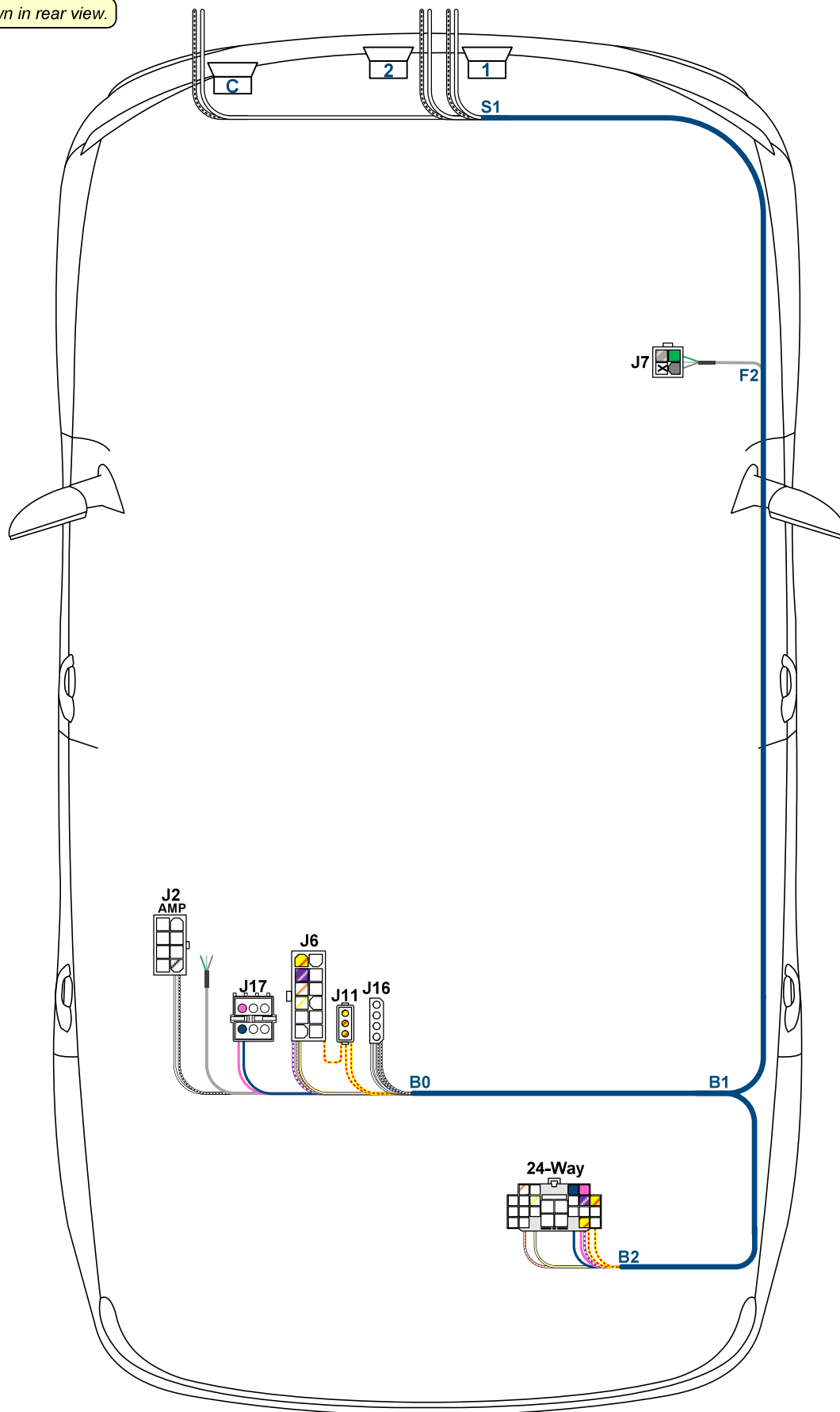
FLASH C

- 14 Ga. PK Flash C “FLASH C” to Console

CORE MODULE

- See CORE Module Layout for detailed information.

Note: Connectors shown in rear view.



PRODUCTS SHOWN ON LAYOUT:

Data Cable & Speaker Harness: MW-DC3DD

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

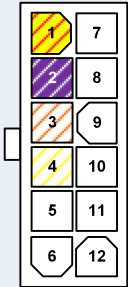
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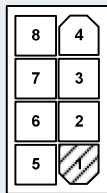
J16 – SIREN OUT

- Pin 1 Speaker 1 (+) – 14 Ga. WH/BK “SPKR 1 POS”
- Pin 2 Speaker 2 (+) – 14 Ga. WH/BK “SPKR 2 POS”
- Pin 3 Speaker 1 (–) – 14 Ga. WH “SPKR 1 COM”
- Pin 4 Speaker 2 (–) – 14 Ga. WH “SPKR 2 COM”



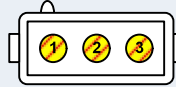
J6 – DIGITAL INPUTS

- Pin 1 Input 1 – 16 Ga. YW/RD “HORN TRANS”
- Pin 2 Input 2 – 18 Ga. PU/WH “PARK KILL”
- Pin 3 Input 3 – 18 Ga. WH/OR “BRAKE”
- Pin 4 Input 4 – 18 Ga. WH/YW “HEADLIGHT”
- Pin 5 Input 5 –
- Pin 6 Input 6 –
- Pin 7 Input 7 –
- Pin 8 Input 8 –
- Pin 9 Input 9 –
- Pin 10 Input 10 –
- Pin 11 Input 11 –
- Pin 12 Input 12 –



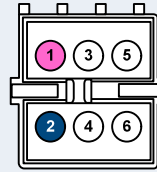
J2 – EXTERNAL AMPLIFIER

- Pin 1 Amp Out 1 (+) – 16 Ga. WH/BK “CHOWLR POS”
- Pin 2 Amp Out 2 (+) –
- Pin 3 Amp Out 1 (–) – 16 Ga. WH “CHOWLR COM”
- Pin 4 Amp Out 2 (–) –
- Pin 5 Aux Out 1 (+) –
- Pin 6 Aux Out 1 (–) –
- Pin 7 Aux In 1 (+) –
- Pin 8 Aux In 1 (–) –



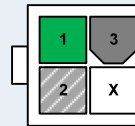
J11 – DRY CONTACT RELAY

- Pin 1 Normally Open – 16 Ga. YW/RD “HORN TRANS”
- Pin 2 Common – 16 Ga. YW/RD “HORN RING”
- Pin 3 Normally Closed – 16 Ga. YW/RD “HORN MUTE”



J17 – HIGH CURRENT OUTPUTS

- Pin 1 Output 19 (10A) – 16 Ga. PK “FRT WIGWAG”
- Pin 2 Output 18 (10A) – 16 Ga. BL “RER WIGWAG”
- Pin 3 Output 20 (10A) –
- Pin 4 Output 17 (10A) –
- Pin 5 Output 21 (15A) –
- Pin 6 Output 22 (15A) –



J7 – CAN INPUT TO CEM16

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Not Used – Plug

FRONT COMPONENTS:

SPEAKERS

- 16 Ga. WH/BK Speaker 1 Positive “SPKR 1 POS” from Core J16 Pin 1
- 16 Ga. WH/BK Speaker 2 Positive “SPKR 2 POS” from Core J16 Pin 2
- 16 Ga. WH Speaker 1 Common “SPKR 1 COM” from Core J16 Pin 3
- 16 Ga. WH Speaker 2 Common “SPKR 2 COM” from Core J16 Pin 4

CHOWLER

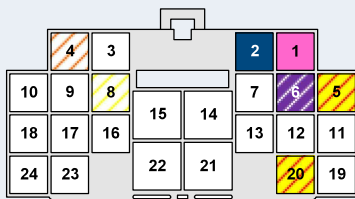
- 16 Ga. WH/BK Chowler Positive “CHOWLR POS” from Amp J2 Pin 1
- 16 Ga. WH Chowler Common “CHOWLR COM” from Amp J2 Pin 3

J7 DATA CONNECTOR

- Pin 1 CAN H – 20 Ga. GN Twisted Pair from Core J18 Pin 1
- Pin 2 Shield – 20 Ga. Shield from Core J18 Pin 2
- Pin 3 CAN L – 20 Ga. GY Twisted Pair from Core J18 Pin 3
- Pin 4 Not Used – Plug

INTERFACE COMPONENTS:

C2 24-Way



VSIM 24-Way

- Pin 1 – 16 Ga. PK Front WigWag Flash Trigger “FRT WIGWAG” from Core J17 Pin 1
- Pin 2 – 16 Ga. BL Rear WigWag Flash Trigger “RER WIGWAG” from Core J17 Pin 2
- Pin 4 – 18 Ga. WH/OR Brake Signal Input “BRAKE” to Core J6 Pin 3
- Pin 5 – 16 Ga. YW/RD Horn Relay Input “HORN RING” to Core J11 Pin 2
- Pin 6 – 18 Ga. PU/WH Park Kill Signal “PARK KILL” to Core J6 Pin 2
- Pin 8 – 18 Ga. WH/YW Headlight Signal Input “HEADLIGHT” to Core J6 Pin 4
- Pin 20 – 16 Ga. YW/RD Horn Mute Output “HORN MUTE” from Core J11 Pin 3

REAR COMPONENTS:

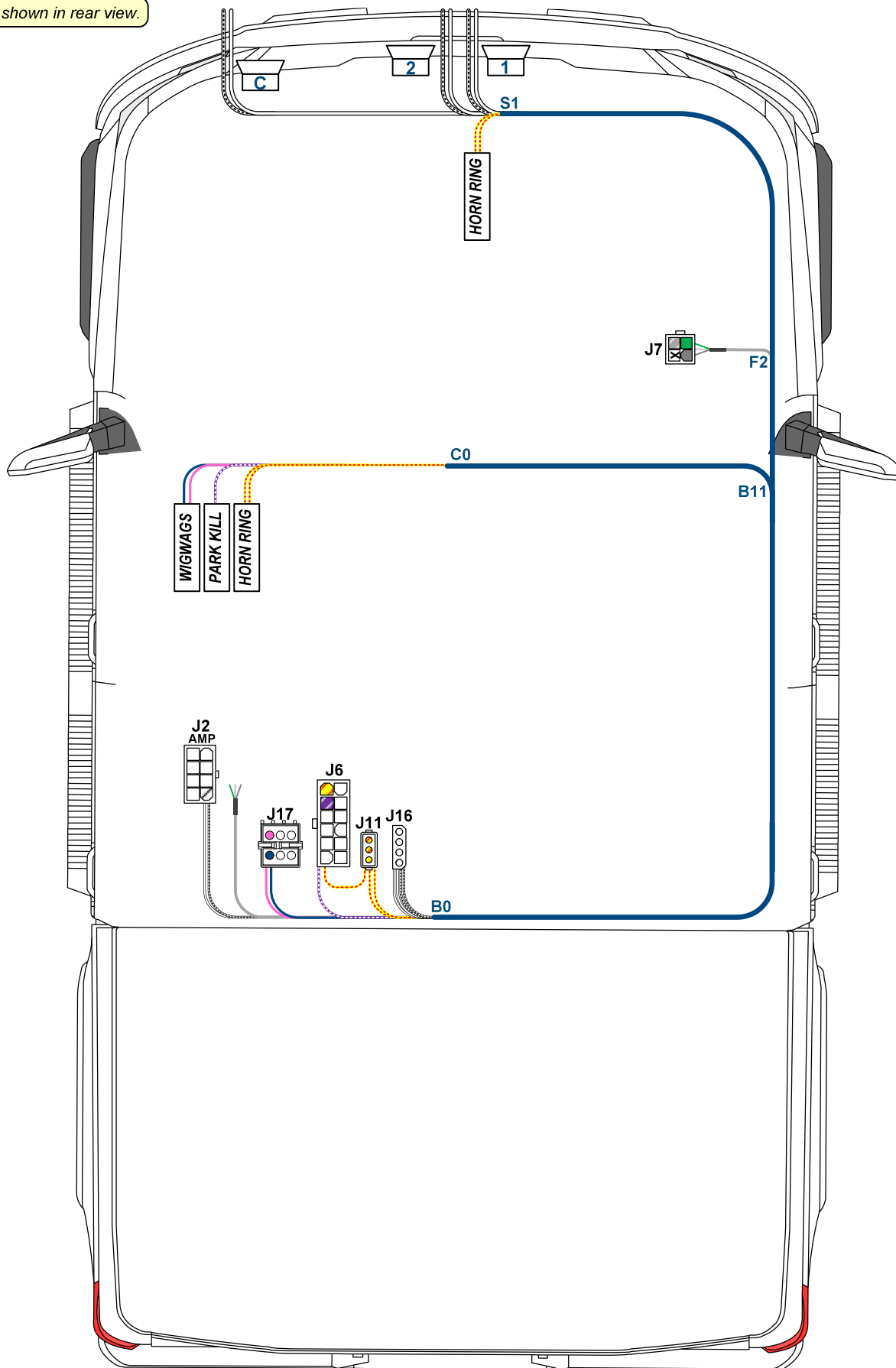
CAN INPUTS TO CEM16

- Can High – 20 Ga. GN Twisted Pair
- Shield – 20 Ga. Shield
- Can Low – 20 Ga. GY Twisted Pair

CORE C399 MODULE

- See Core Module Layout for detailed information.

Note: Connectors shown in rear view.



PRODUCTS SHOWN ON LAYOUT:

Data Cable & Speaker Harness: MW-DC650

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

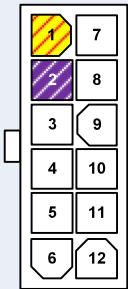
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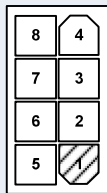
J16 – SIREN OUT

- Pin 1 Speaker 1 (+) – 14 Ga. WH/BK “SPKR 1 POS”
- Pin 2 Speaker 2 (+) – 14 Ga. WH/BK “SPKR 2 POS”
- Pin 3 Speaker 1 (–) – 14 Ga. WH “SPKR 1 COM”
- Pin 4 Speaker 2 (–) – 14 Ga. WH “SPKR 2 COM”



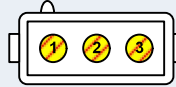
J6 – DIGITAL INPUTS

- Pin 1 Input 1 – 16 Ga. YW/RD “HORN TRANS”
- Pin 2 Input 2 – 18 Ga. PU/WH “PARK KILL”
- Pin 3 Input 3 –
- Pin 4 Input 4 –
- Pin 5 Input 5 –
- Pin 6 Input 6 –
- Pin 7 Input 7 –
- Pin 8 Input 8 –
- Pin 9 Input 9 –
- Pin 10 Input 10 –
- Pin 11 Input 11 –
- Pin 12 Input 12 –



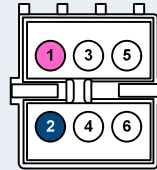
J2 – EXTERNAL AMPLIFIER

- Pin 1 Amp Out 1 (+) – 16 Ga. WH/BK “CHOWLR POS”
- Pin 2 Amp Out 2 (+) –
- Pin 3 Amp Out 1 (–) – 16 Ga. WH “CHOWLR COM”
- Pin 4 Amp Out 2 (–) –
- Pin 5 Aux Out 1 (+) –
- Pin 6 Aux Out 1 (–) –
- Pin 7 Aux In 1 (+) –
- Pin 8 Aux In 1 (–) –



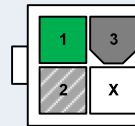
J11 – DRY CONTACT RELAY

- Pin 1 Normally Open – 16 Ga. YW/RD “HORN TRANS”
- Pin 2 Common – 16 Ga. YW/RD “HORN RING”
- Pin 3 Normally Closed – 16 Ga. YW/RD “HORN MUTE”



J17 – HIGH CURRENT OUTPUTS

- Pin 1 Output 19 (10A) – 16 Ga. PK “FRT WIGWAG”
- Pin 2 Output 18 (10A) – 16 Ga. BL “RER WIGWAG”
- Pin 3 Output 20 (10A) –
- Pin 4 Output 17 (10A) –
- Pin 5 Output 21 (15A) –
- Pin 6 Output 22 (15A) –



J7 – CAN INPUT TO CEM16

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Not Used – Plug

FRONT COMPONENTS:

SPEAKERS

- 16 Ga. WH/BK Speaker 1 Positive “SPKR 1 POS” from Core J16 Pin 1
- 16 Ga. WH/BK Speaker 2 Positive “SPKR 2 POS” from Core J16 Pin 2
- 16 Ga. WH Speaker 1 Common “SPKR 1 COM” from Core J16 Pin 3
- 16 Ga. WH Speaker 2 Common “SPKR 2 COM” from Core J16 Pin 4

CHOWLER

- 16 Ga. WH/BK Chowler Positive “CHOWLR POS” from Amp J2 Pin 1
- 16 Ga. WH Chowler Common “CHOWLR COM” from Amp J2 Pin 3

HORN RING

- 16 Ga. YW/RD Horn “HORN 2” from Core J11 Pin 3 Assembly
- 16 Ga. YW/RD Horn Ring “HORN RG 2” from Core J11 Pin 2 Assembly

J7 DATA CONNECTOR

- Pin 1 CAN H – 20 Ga. GN Twisted Pair from Core J18 Pin 1
- Pin 2 Shield – 20 Ga. Shield from Core J18 Pin 2
- Pin 3 CAN L – 20 Ga. GY Twisted Pair from Core J18 Pin 3
- Pin 4 Not Used – Plug

CONSOLE / INTERFACE COMPONENTS:

FRONT WIGWAG

- 16 Ga. PK Front WigWag Flash Output “FRT WIGWAG” from Core J17 Pin 1

FRONT WIGWAG

- 16 Ga. BL Rear WigWag Flash Output “RER WIGWAG” from Core J17 Pin 2

PARK KILL

- 18 Ga. PU/WH Park Kill Input Sense “PARK KILL” to Core J6 Pin 2

HORN RING

- 16 Ga. YW/RD Horn “HORN 1” from Core J11 Pin 3 Assembly
- 16 Ga. YW/RD Horn Ring “HORN RG 1” from Core J11 Pin 2 Assembly

REAR COMPONENTS:

CAN INPUTS TO CEM16

- Can High – 20 Ga. GN Twisted Pair
- Shield – 20 Ga. Shield
- Can Low – 20 Ga. GY Twisted Pair

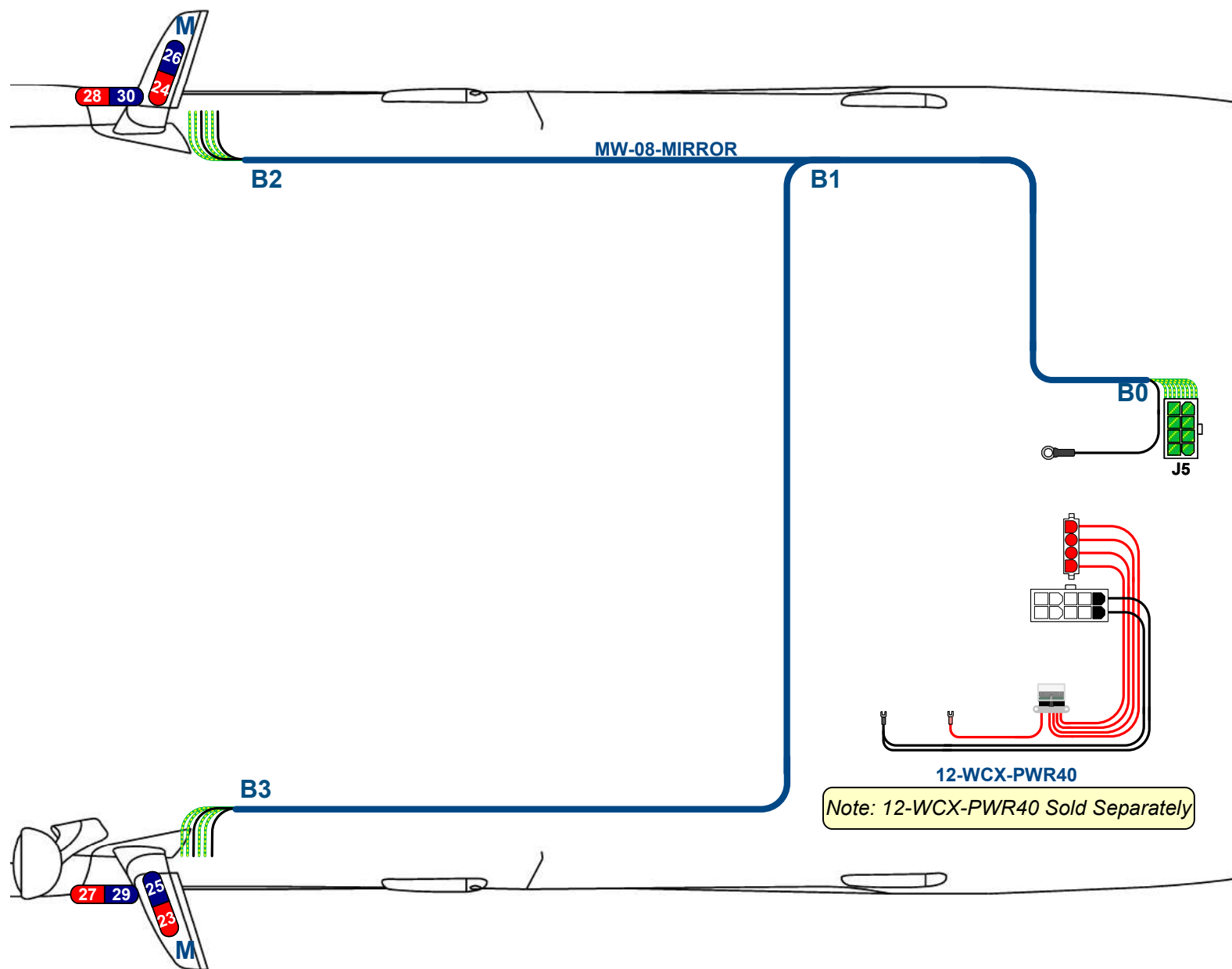
EXTERNAL AMPLIFIER

- See External Amplifier Layout for detailed information.

CORE C399 MODULE

- See Core Module Layout for detailed information.

Note: Connectors shown in rear view.



MID LIGHTING:

MIRROR LIGHTS – MW-08-MIRROR

- 18 Ga. GN/YW Pass. Mirror Light "X OUT 2" to CEM16 J5 Pin 2
- 18 Ga. GN/YW Pass. Mirror Light "X OUT 4" to CEM16 J5 Pin 4
- 18 Ga. GN/YW Pass. Mirror Light "X OUT 6" to CEM16 J5 Pin 6
- 18 Ga. GN/YW Pass. Mirror Light "X OUT 8" to CEM16 J5 Pin 8
- 18 Ga. BK Pass. Mirror Lights Ground "LT 24 GND" to Ground Assembly
- 18 Ga. BK Pass. Mirror Lights Ground "LT 28 GND" to Ground Assembly
- 18 Ga. GN/YW Driver Mirror Light "X OUT 1" to CEM16 J5 Pin 1
- 18 Ga. GN/YW Driver Mirror Light "X OUT 3" to CEM16 J5 Pin 3
- 18 Ga. GN/YW Driver Mirror Light "X OUT 5" to CEM16 J5 Pin 5
- 18 Ga. GN/YW Driver Mirror Light "X OUT 7" to CEM16 J5 Pin 7
- 18 Ga. BK Driver Mirror Lights Ground "LT 23 GND" to Ground Assembly
- 18 Ga. BK Driver Mirror Lights Ground "LT 27 GND" to Ground Assembly

PRODUCTS SHOWN ON LAYOUT:

Front Lighting Harness: MW-08-MIRROR
Underhood Power: 12-WCX-PWR40

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

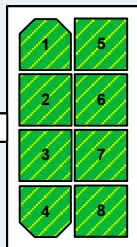
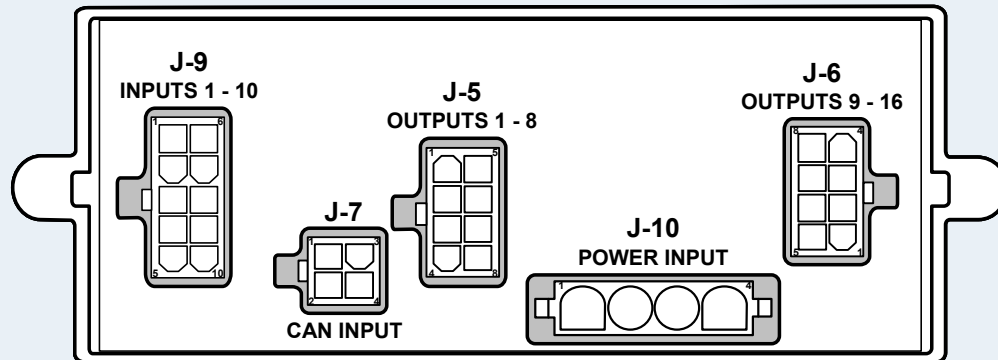
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 012521

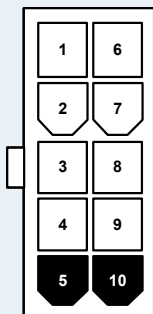
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CEM16 EXPANSION MODULE



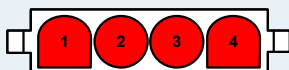
J-5 – OUTPUTS 1 thru 8 FROM CEM16

- Pin 1 Output 1 (2.5A) – 18 Ga. GN/YW Driver Mirror Light 23 “X OUT 1”
- Pin 2 Output 2 (2.5A) – 18 Ga. GN/YW Pass. Mirror Light 24 “X OUT 2”
- Pin 3 Output 3 (2.5A) – 18 Ga. GN/YW Driver Mirror Light 25 “X OUT 3”
- Pin 4 Output 4 (2.5A) – 18 Ga. GN/YW Pass. Mirror Light 26 “X OUT 4”
- Pin 5 Output 5 (2.5A) – 18 Ga. GN/YW Driver Mirror Light 27 “X OUT 5”
- Pin 6 Output 6 (2.5A) – 18 Ga. GN/YW Pass. Mirror Light 28 “X OUT 6”
- Pin 7 Output 7 (2.5A) – 18 Ga. GN/YW Driver Mirror Light 29 “X OUT 7”
- Pin 8 Output 8 (2.5A) – 18 Ga. GN/YW Pass. Mirror Light 30 “X OUT 8”



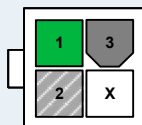
J-9 – INPUTS 1 thru 10 TO CEM16

- Pin 1 Input 1 Ground (–) –:
- Pin 2 Input 2 Ground (–) –:
- Pin 3 Input 3 Ground (–) –:
- Pin 4 Input 4 Ground (–) –:
- Pin 5 Main Ground Input – 16 Ga. BK CEM16 Ground “J9 5 GND” from 12-WCX-PWR40*
- Pin 6 Input 1 Positive (+) –:
- Pin 7 Input 2 Positive (+) –:
- Pin 8 Input 3 Positive (+) –:
- Pin 9 Input 4 Positive (+) –:
- Pin 10 Main Ground Input – 16 Ga. BK CEM16 Ground “J9 10 GND” from 12-WCX-PWR40*



J-10 – POWER INPUT TO CEM16 FROM 12-WCX-PWR40*

- Pin 1 Power Input 1 (10A) – 16 Ga. RD Power 1 (10A) “PWR 1” from Fuse Position 1
- Pin 2 Power Input 2 (10A) – 16 Ga. RD Power 2 (10A) “PWR 2” from Fuse Position 2
- Pin 3 Power Input 3 (10A) – 16 Ga. RD Power 3 (10A) “PWR 3” from Fuse Position 3
- Pin 4 Power Input 4 (10A) – 16 Ga. RD Power 4 (10A) “PWR 4” from Fuse Position 4



J-7 – CAN INPUT TO CEM16 FROM DATA HARNESS**

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Not Used – Plug

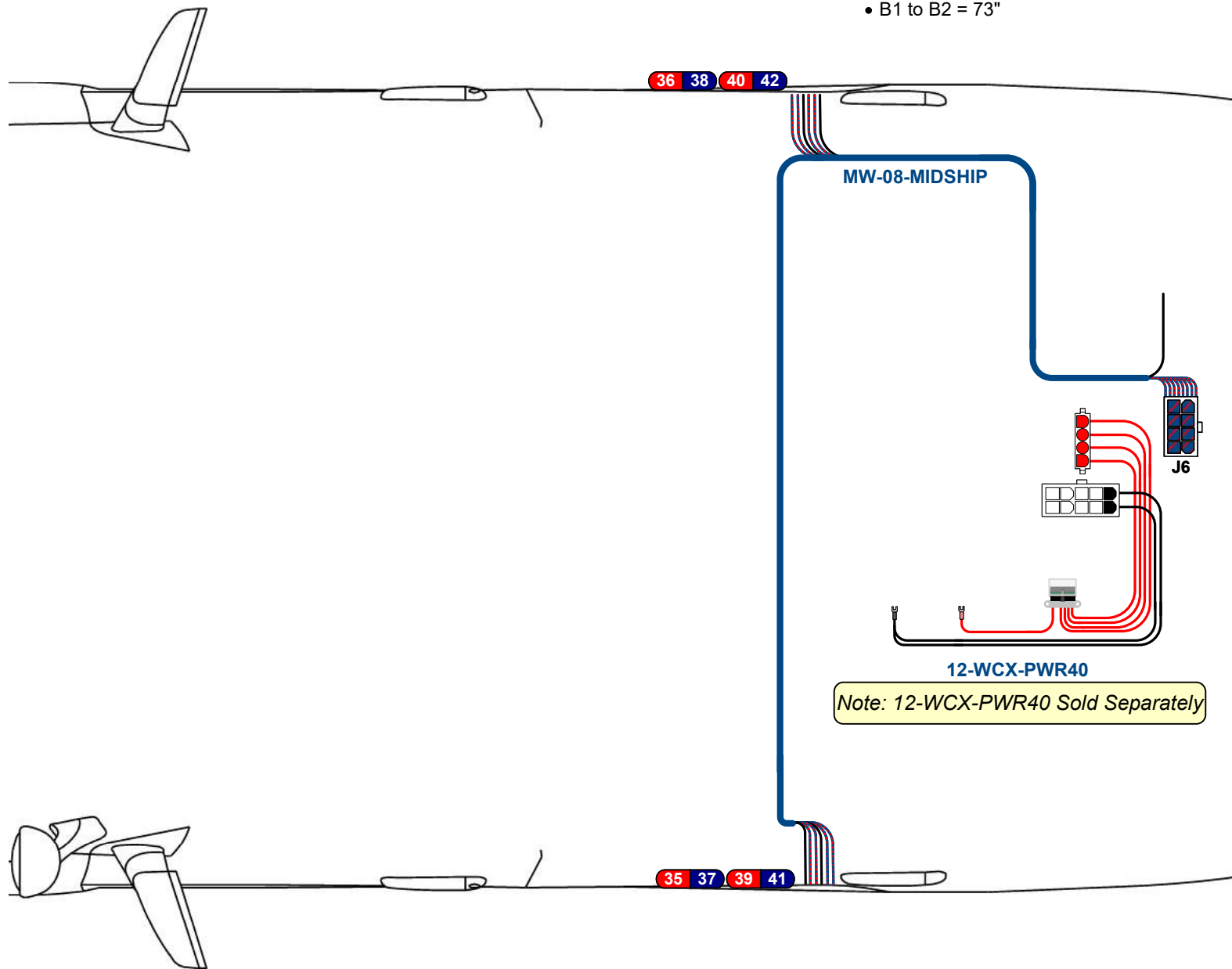
**Note: See 12-WCX-PWR40 Layout, if applicable, for detailed information on Power Distribution (J9 and J10 Connectors)*

***Note: See Data Harness Layout, if applicable, for detailed information on Data Distribution (J7 Connectors)*

Note: Connectors shown in rear view.

B MEASUREMENTS

- B0 to B1 = 48"
- B1 to B2 = 73"



Note: 12-WCX-PWR40 Sold Separately

MID LIGHTING:

MIDSHIP LIGHTS – MW-08-MIDSHIP

- 18 Ga. BL/RD Pass. Midship Light "X OUT 10" to CEM16 J6 Pin 2
- 18 Ga. BL/RD Pass. Midship Light "X OUT 12" to CEM16 J6 Pin 4
- 18 Ga. BL/RD Pass. Midship Light "X OUT 14" to CEM16 J6 Pin 6
- 18 Ga. BL/RD Pass. Midship Light "X OUT 16" to CEM16 J6 Pin 8
- 18 Ga. BK Pass. Midship Lights Ground "LT 36 GND" to Ground Assembly
- 18 Ga. BK Pass. Midship Lights Ground "LT 40 GND" to Ground Assembly
- 18 Ga. BL/RD Driver Midship Light "X OUT 9" to CEM16 J6 Pin 1
- 18 Ga. BL/RD Driver Midship Light "X OUT 11" to CEM16 J6 Pin 3
- 18 Ga. BL/RD Driver Midship Light "X OUT 13" to CEM16 J6 Pin 5
- 18 Ga. BL/RD Driver Midship Light "X OUT 15" to CEM16 J6 Pin 7
- 18 Ga. BK Driver Midship Lights Ground "LT 35 GND" to Ground Assembly
- 18 Ga. BK Driver Midship Lights Ground "LT 39 GND" to Ground Assembly

PRODUCTS SHOWN ON LAYOUT:

Front Lighting Harness: MW-08-MIDSHIP
Underhood Power: 12-WCX-PWR40

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

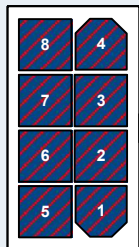
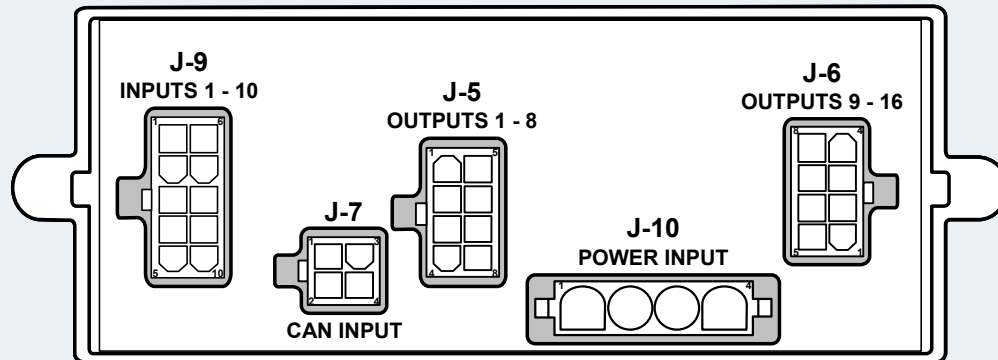
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 012522

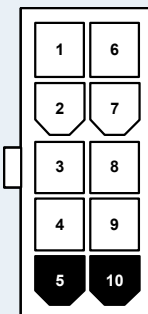
ECN 000000

CEM16 EXPANSION MODULE



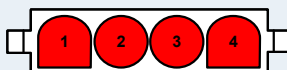
J-6 – OUTPUTS 9 thru 16 FROM CEM16

- Pin 1 Output 9 (2.5A) – 18 Ga. BL/RD Driver Midship Light 35 "X OUT 9"
- Pin 2 Output 10 (2.5A) – 18 Ga. BL/RD Pass. Midship Light 36 "X OUT 10"
- Pin 3 Output 11 (2.5A) – 18 Ga. BL/RD Driver Midship Light 37 "X OUT 11"
- Pin 4 Output 12 (2.5A) – 18 Ga. BL/RD Pass. Midship Light 38 "X OUT 12"
- Pin 5 Output 13 (2.5A) – 18 Ga. BL/RD Driver Midship Light 39 "X OUT 13"
- Pin 6 Output 14 (2.5A) – 18 Ga. BL/RD Pass. Midship Light 40 "X OUT 14"
- Pin 7 Output 15 (2.5A) – 18 Ga. BL/RD Driver Midship Light 41 "X OUT 15"
- Pin 8 Output 16 (2.5A) – 18 Ga. BL/RD Pass. Midship Light 42 "X OUT 16"



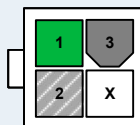
J-9 – INPUTS 1 thru 10 TO CEM16

- Pin 1 Input 1 Ground (–) –:
- Pin 2 Input 2 Ground (–) –:
- Pin 3 Input 3 Ground (–) –:
- Pin 4 Input 4 Ground (–) –:
- Pin 5 Main Ground Input – 16 Ga. BK CEM16 Ground "J9 5 GND" from 12-WCX-PWR40*
- Pin 6 Input 1 Positive (+) –:
- Pin 7 Input 2 Positive (+) –:
- Pin 8 Input 3 Positive (+) –:
- Pin 9 Input 4 Positive (+) –:
- Pin 10 Main Ground Input – 16 Ga. BK CEM16 Ground "J9 10 GND" from 12-WCX-PWR40*



J-10 – POWER INPUT TO CEM16 FROM 12-WCX-PWR40*

- Pin 1 Power Input 1 (10A) – 16 Ga. RD Power 1 (10A) "PWR 1" from Fuse Position 1
- Pin 2 Power Input 2 (10A) – 16 Ga. RD Power 2 (10A) "PWR 2" from Fuse Position 2
- Pin 3 Power Input 3 (10A) – 16 Ga. RD Power 3 (10A) "PWR 3" from Fuse Position 3
- Pin 4 Power Input 4 (10A) – 16 Ga. RD Power 4 (10A) "PWR 4" from Fuse Position 4



J-7 – CAN INPUT TO CEM16 FROM DATA HARNESS**

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Not Used – Plug

**Note: See 12-WCX-PWR40 Layout, if applicable, for detailed information on Power Distribution (J9 and J10 Connectors)*

***Note: See Data Harness Layout, if applicable, for detailed information on Data Distribution (J7 Connectors)*

Note: Connectors shown in rear view.

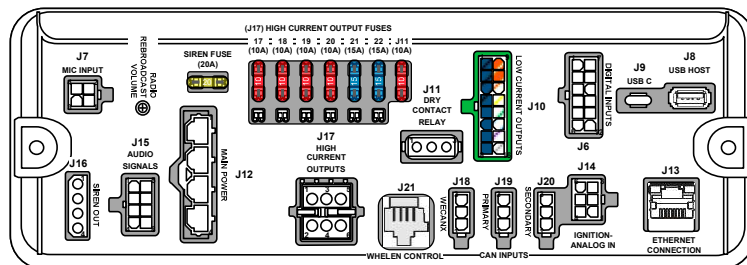
SUV WARNING
LIGHTS

REAR WARNING
LIGHTS

TRUNK
LIGHTS

Note: The J10 144" leads
are pre-terminated and can
be installed into the
connector by the technician.

144" PIGTAILS



Note: Whelen CORE Siren shown for J10
connection reference. J10 highlighted in Green

SUV WARNING
LIGHTS

REAR WARNING
LIGHTS

TRUNK
LIGHTS

REAR LIGHTING:

J10 – SUV WARNING LIGHTS

- 18 Ga. BL/BK Driver SUV Light "SUV LT 43" from J10 Pin 1
- 18 Ga. BL/BK Pass. SUV Light "SUV LT 44" from J10 Pin 2
- 18 Ga. BL/BK Driver SUV Light "SUV LT 45" from J10 Pin 3
- 18 Ga. BL/BK Pass. SUV Light "SUV LT 46" from J10 Pin 4
- 18 Ga. BK Driver SUV Light Ground "LT 43 GND" from Ground Assembly
- 18 Ga. BK Pass. SUV Light Ground "LT 44 GND" from Ground Assembly

J10 – REAR WARNING LIGHTS

- 18 Ga. BL Driver Rear Light "RER W LT 69" from J10 Pin 5
- 18 Ga. BL Pass. Rear Light "RER W LT 70" from J10 Pin 6
- 18 Ga. BL Driver Rear Light "RER W LT 71" from J10 Pin 7
- 18 Ga. BL Pass. Rear Light "RER W LT 72" from J10 Pin 8
- 18 Ga. BK Driver Rear Light Ground "LT 69 GND" from Ground Assembly
- 18 Ga. BK Pass. Rear Light Ground "LT 70 GND" from Ground Assembly

J10 – TRUNK LIGHTS

- 18 Ga. OR/WH Driver Trunk Light "TRUNK LT 75" from J10 Pin 9
- 18 Ga. OR/WH Pass. Trunk Light "TRUNK LT 76" from J10 Pin 10
- 18 Ga. BK Driver Trunk Light Ground "LT 75 GND" from Ground Assembly
- 18 Ga. BK Pass. Trunk Light Ground "LT 76 GND" from Ground Assembly

J10 – CUSTOMER INSTALLED LEADS 144"

- 18 Ga. WH/OR J10 Pin 11 "J10 11" Customer Installed 144" Lead
- 18 Ga. WH/YW J10 Pin 12 "J10 12" Customer Installed 144" Lead
- 18 Ga. WH/GN J10 Pin 13 "J10 13" Customer Installed 144" Lead
- 18 Ga. WH/BL J10 Pin 14 "J10 14" Customer Installed 144" Lead
- 18 Ga. WH/PU J10 Pin 15 "J10 15" Customer Installed 144" Lead
- 18 Ga. WH/GY J10 Pin 16 "J10 16" Customer Installed 144" Lead

REAR POWER CIRCUITS:

When purchasing a PPWC option with your harnesses consider adding a Console Power Harness and a 12-WCSP-28 Whelen Power Harness to use with a P18-Flex Fuse Panel to supply power to the Whelen CORE and your console equipment.

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

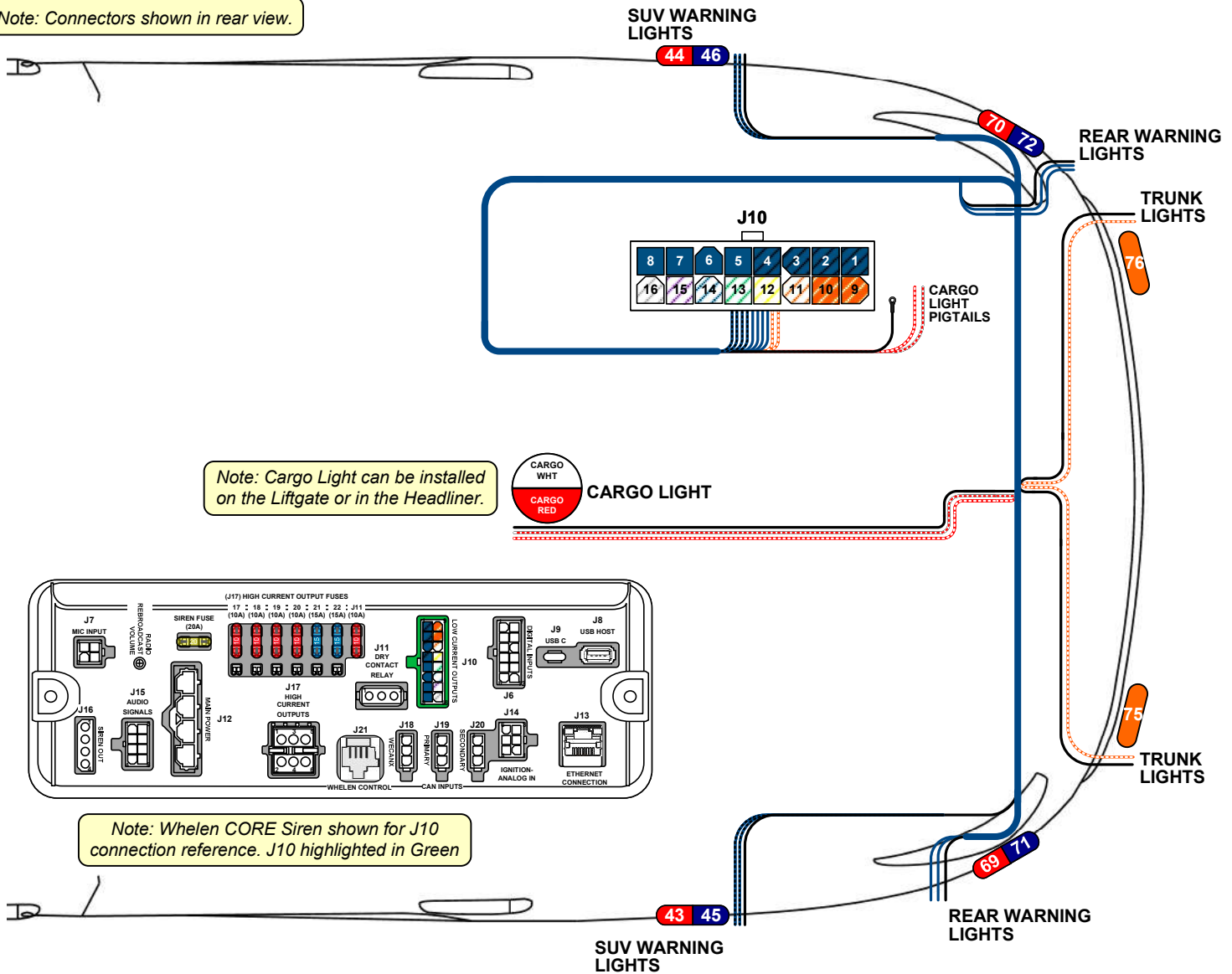
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 052021

ECN 000000

Note: Connectors shown in rear view.



REAR LIGHTING:

CARGO LIGHT

- 18 Ga. RD/WH Cargo Light Red "CAR LT RD" Pigtail 20"
- 18 Ga. WH/RD Cargo Light White "CAR LT WHT" Pigtail 20"
- 18 Ga. BK Cargo Light Ground "CARGO GND" to Ground Assembly

J10 – SUV WARNING LIGHTS

- 18 Ga. BL/BK Driver SUV Light "SUV LT 43" from J10 Pin 1
- 18 Ga. BL/BK Pass. SUV Light "SUV LT 44" from J10 Pin 2
- 18 Ga. BL/BK Driver SUV Light "SUV LT 45" from J10 Pin 3
- 18 Ga. BL/BK Pass. SUV Light "SUV LT 46" from J10 Pin 4
- 18 Ga. BK Driver SUV Light Ground "LT 43 GND" from Ground Assembly
- 18 Ga. BK Pass. SUV Light Ground "LT 44 GND" from Ground Assembly

J10 – REAR WARNING LIGHTS

- 18 Ga. BL Driver Rear Light "RER W LT 69" from J10 Pin 5
- 18 Ga. BL Pass. Rear Light "RER W LT 70" from J10 Pin 6
- 18 Ga. BL Driver Rear Light "RER W LT 71" from J10 Pin 7
- 18 Ga. BL Pass. Rear Light "RER W LT 72" from J10 Pin 8
- 18 Ga. BK Driver Rear Light Ground "LT 69 GND" from Ground Assembly
- 18 Ga. BK Pass. Rear Light Ground "LT 70 GND" from Ground Assembly

J10 – TRUNK LIGHTS

- 18 Ga. OR/WH Driver Trunk Light "TRUNK LT 75" from J10 Pin 9
- 18 Ga. OR/WH Pass. Trunk Light "TRUNK LT 76" from J10 Pin 10
- 18 Ga. BK Driver Trunk Light Ground "LT 75 GND" from Ground Assembly
- 18 Ga. BK Pass. Trunk Light Ground "LT 76 GND" from Ground Assembly

REAR POWER CIRCUITS:

When purchasing a PPWC option with your harnesses consider adding a Console Power Harness and a 12-WCSP-28 Whelen Power Harness to use with a P18-Flex Fuse Panel to supply power to the Whelen CORE and your console equipment.

TECHNICAL SUPPORT & SALES CONTACT:

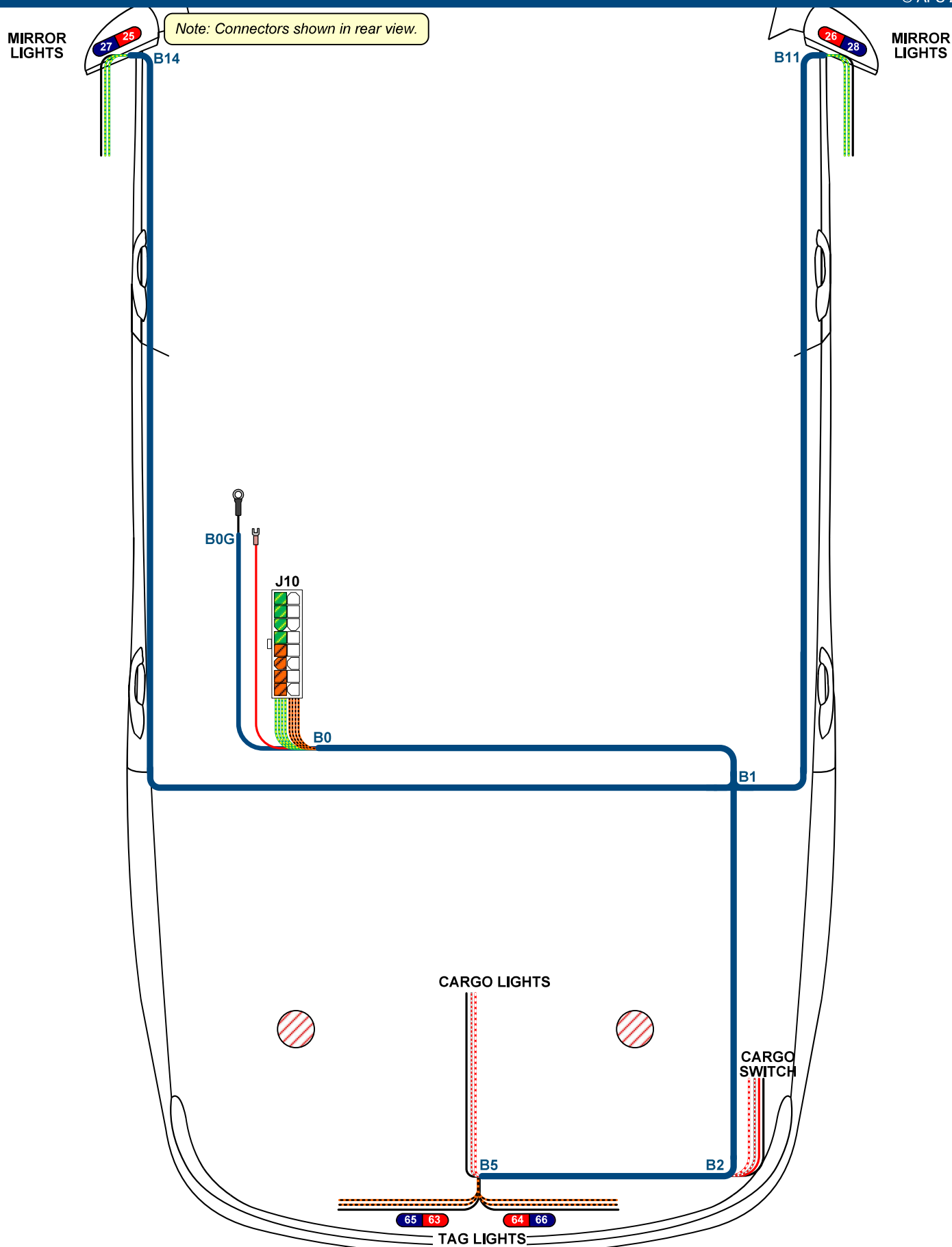
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 052021

ECN 000000



PRODUCTS SHOWN ON LAYOUT:

Rear Harness: MW-RLHJ10

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

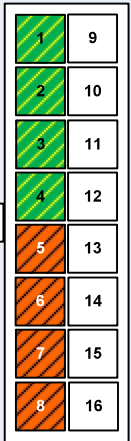
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 051425

ECN 000000

LIGHT & SIREN CONTROLLER:



J10 – LOW CURRENT OUTPUTS

- Pin 1 Output 1 (2A) – 18 Ga. GN/YW “LT 25”
- Pin 2 Output 2 (2A) – 18 Ga. GN/YW “LT 26”
- Pin 3 Output 3 (2A) – 18 Ga. GN/YW “LT 27”
- Pin 4 Output 4 (2A) – 18 Ga. GN/YW “LT 28”
- Pin 5 Output 5 (2A) – 18 Ga. OR/BK “LT 63”
- Pin 6 Output 6 (2A) – 18 Ga. OR/BK “LT 64”
- Pin 7 Output 7 (2A) – 18 Ga. OR/BK “LT 65”
- Pin 8 Output 8 (2A) – 18 Ga. OR/BK “LT 66”
- Pin 9 Output 9 (2A) –
- Pin 10 Output 10 (2A) –
- Pin 11 Output 11 (2A) –
- Pin 12 Output 12 (2A) –
- Pin 13 Output 13 (2A) –
- Pin 14 Output 14 (2A) –
- Pin 15 Output 15 (2A) –
- Pin 16 Output 16 (2A) –

MID LIGHTING:

MIRROR LIGHTS

- 18 Ga. GN/YW Driver Mirror Light 25 “LT 25” from Core J10 Pin 1
- 18 Ga. GN/YW Driver Mirror Light 27 “LT 27” from Core J10 Pin 3
- 18 Ga. BK Driver Mirror Lights Ground “LT 25 GND” from Ground Assembly
- 18 Ga. GN/YW Pass. Mirror Light 26 “LT 26” from Core J10 Pin 2
- 18 Ga. GN/YW Pass. Mirror Light 28 “LT 28” from Core J10 Pin 4
- 18 Ga. BK Pass. Mirror Lights Ground “LT 26 GND” from Ground Assembly



REAR LIGHTING:

REAR GROUND

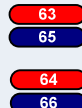
- 10 Ga. BK Rear Ground “REAR GND” to Ground Assembly

CARGO SWITCH

- 16 Ga. RD Cargo Switch Power, (10A) “SW PWR” to Cargo Switch

TAG LIGHTS

- 18 Ga. OR/BK Driver Tag Light 63 “LT 63” from Core J10 Pin 5
- 18 Ga. OR/BK Driver Tag Light 65 “LT 65” from Core J10 Pin 7
- 18 Ga. BK Driver Tag Lights Ground “LT 63 GND” from Ground Assembly
- 18 Ga. OR/BK Pass. Tag Light 64 “LT 64” from Core J10 Pin 6
- 18 Ga. OR/BK Pass. Tag Light 66 “LT 66” from Core J10 Pin 8
- 18 Ga. BK Pass. Tag Lights Ground “LT 64 GND” from Ground Assembly



CARGO LIGHT SWITCH

- 16 Ga. RD Cargo Switch Power “SW PWR” from Fuse Panel
- 16 Ga. BK Cargo Switch Ground “SW GND” from Ground Assembly
- 18 Ga. RD/WH Cargo Lights Red “CARGO RED” to Rear Headliner
- 18 Ga. WH/RD Cargo Lights White “CARGO WHT” to Rear Headliner

CARGO LIGHTS

- 18 Ga. RD/WH Cargo Lights Red “CARGO RED” from Switch
- 18 Ga. WH/RD Cargo Lights White “CARGO WHT” from Switch
- 18 Ga. BK Cargo Light Ground “CARGO GND” from Ground Assembly



Note: Connectors shown in rear view.

MIRROR LIGHTS

25
27

MIRROR LIGHTS

26
28

J10

CARGO LIGHT

¼ GLASS LIGHTS

43
45

CARGO LIGHT

¼ GLASS LIGHTS

44
46

HATCH LIGHTS

65 63

HATCH LIGHTS

64 66

REAR VERTEX LIGHTS

69 71

REAR VERTEX LIGHTS

72 70

PRODUCTS SHOWN ON LAYOUT:**Rear Lighting Harness: RLH16-C-J10****TECHNICAL SUPPORT & SALES CONTACT:****Phone: 844-423-7200****Email: sales@allfleetsolutions.com****Web: www.allfleetsolutions.com**

EDD 090424

ECN 000000

**J10 – LOW CURRENT OUTPUTS**

- Pin 1 Output 1 (2A) – 18 Ga. GN/YW “MIR LT 25”
- Pin 2 Output 2 (2A) – 18 Ga. GN/YW “MIR LT 26”
- Pin 3 Output 3 (2A) – 18 Ga. GN/YW “MIR LT 27”
- Pin 4 Output 4 (2A) – 18 Ga. GN/YW “MIR LT 28”
- Pin 5 Output 5 (2A) – 18 Ga. BL/BK “SUV LT 43”
- Pin 6 Output 6 (2A) – 18 Ga. BL/BK “SUV LT 44”
- Pin 7 Output 7 (2A) – 18 Ga. BL/BK “SUV LT 45”
- Pin 8 Output 8 (2A) – 18 Ga. BL/BK “SUV LT 46”
- Pin 9 Output 9 (2A) – 18 Ga. BL “VTX LT 69”
- Pin 10 Output 10 (2A) – 18 Ga. BL “VTX LT 70”
- Pin 11 Output 11 (2A) – 18 Ga. BL “VTX LT 71”
- Pin 12 Output 12 (2A) – 18 Ga. BL “VTX LT 72”
- Pin 13 Output 13 (2A) – 18 Ga. OR/BK “HATCH LT63”
- Pin 14 Output 14 (2A) – 18 Ga. OR/BK “HATCH LT64”
- Pin 15 Output 15 (2A) – 18 Ga. OR/BK “HATCH LT65”
- Pin 16 Output 16 (2A) – 18 Ga. OR/BK “HATCH LT66”

MID & REAR LIGHTING:**MIRROR LIGHTS**

- 18 Ga. GN/YW Driver Mirror Light 25 “MIR LT 25” from Core J10 Pin 1
- 18 Ga. GN/YW Driver Mirror Light 27 “MIR LT 27” from Core J10 Pin 3
- 18 Ga. BK Driver Mirror Lights Ground “LT 25 GND” from Ground Assembly
- 18 Ga. GN/YW Pass. Mirror Light 26 “MIR LT 26” from Core J10 Pin 2
- 18 Ga. GN/YW Pass. Mirror Light 28 “MIR LT 28” from Core J10 Pin 4
- 18 Ga. BK Pass. Mirror Lights Ground “LT 26 GND” from Ground Assembly

25

27

26

28

¼ GLASS LIGHTS

- 18 Ga. BL/BK Driver ¼ Glass Light 43 “SUV LT 43” from Core J10 Pin 5
- 18 Ga. BL/BK Driver ¼ Glass Light 45 “SUV LT 45” from Core J10 Pin 7
- 18 Ga. BK Driver ¼ Glass Lights Ground “LT 43 GND” from Ground Assembly
- 18 Ga. BL/BK Pass. ¼ Glass Light 44 “SUV LT 44” from Core J10 Pin 6
- 18 Ga. BL/BK Pass. ¼ Glass Light 46 “SUV LT 46” from Core J10 Pin 8
- 18 Ga. BK Pass. ¼ Glass Lights Ground “LT 44 GND” from Ground Assembly

43

45

44

46

REAR VERTEX LIGHTS

- 18 Ga. BL Driver Rear Vertex Light 69 “VTX LT 69” from Core J10 Pin 9
- 18 Ga. BL Driver Rear Vertex Light 71 “VTX LT 71” from Core J10 Pin 11
- 18 Ga. BK Driver Rear Vertex Lights Ground “LT 69 GND” from Ground Assembly
- 18 Ga. BL Pass. Rear Vertex Light 70 “VTX LT 70” from Core J10 Pin 10
- 18 Ga. BL Pass. Rear Vertex Light 72 “VTX LT 72” from Core J10 Pin 12
- 18 Ga. BK Pass. Rear Vertex Lights Ground “LT 70 GND” from Ground Assembly

69

71

70

72

HATCH LIGHTS

- 18 Ga. OR/BK Driver Hatch Light 63 “HATCH LT63” from Core J10 Pin 13
- 18 Ga. OR/BK Driver Hatch Light 65 “HATCH LT65” from Core J10 Pin 15
- 18 Ga. BK Driver Hatch Lights Ground “LT 63 GND” from Ground Assembly
- 18 Ga. OR/BK Pass. Hatch Light 64 “HATCH LT64” from Core J10 Pin 14
- 18 Ga. OR/BK Pass. Hatch Light 66 “HATCH LT66” from Core J10 Pin 16
- 18 Ga. BK Pass. Hatch Lights Ground “LT 64 GND” from Ground Assembly

63

65

64

66

CARGO LIGHT

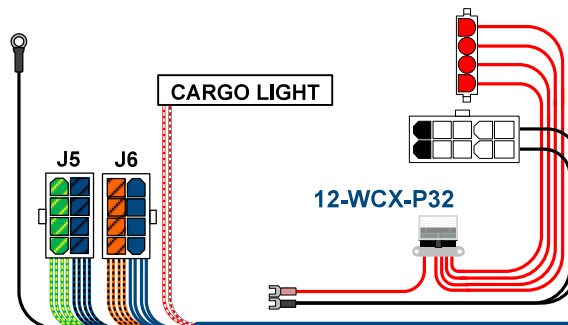
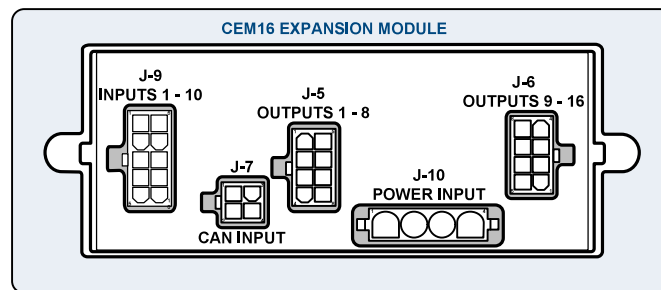
- 18 Ga. RD/WH Cargo Light Red “CAR LT RED” from Rear Breakout
- 18 Ga. WH/RD Cargo Light White “CAR LT WHT” from Rear Breakout
- 18 Ga. BK Cargo Light Ground “CARGO GND” from Ground Assembly



Note: Connectors shown in rear view.

MIRROR LIGHTS

MIRROR LIGHTS



Note: 12-WCX-P32 Packaged Separately

CARGO WINDOW LIGHTS

CARGO WINDOW LIGHTS

REAR VERTEX LIGHTS

REAR VERTEX LIGHTS

HATCH LIGHTS

HATCH LIGHTS

CARGO LIGHT



PRODUCTS SHOWN ON LAYOUT:

Rear Harness: RLH16-C-WCX
Power Cable: 12-WCX-P32

TECHNICAL SUPPORT & SALES CONTACT:

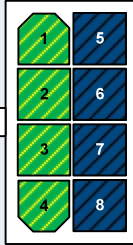
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 062723

ECN 000000



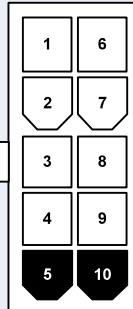
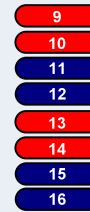
J-5 – OUTPUTS 1 thru 8 FROM CEM16

- Pin 1 Output 1 (2.5A) – 18 Ga. GN/YW Driver Mirror Light 1 “X OUT 1”
- Pin 2 Output 2 (2.5A) – 18 Ga. GN/YW Pass. Mirror Light 2 “X OUT 2”
- Pin 3 Output 3 (2.5A) – 18 Ga. GN/YW Driver Mirror Light 3 “X OUT 3”
- Pin 4 Output 4 (2.5A) – 18 Ga. GN/YW Pass. Mirror Light 4 “X OUT 4”
- Pin 5 Output 5 (2.5A) – 18 Ga. BL/BK Driver Cargo Window Light 5 “X OUT 5”
- Pin 6 Output 6 (2.5A) – 18 Ga. BL/BK Pass. Cargo Window Light 6 “X OUT 6”
- Pin 7 Output 7 (2.5A) – 18 Ga. BL/BK Driver Cargo Window Light 7 “X OUT 7”
- Pin 8 Output 8 (2.5A) – 18 Ga. BL/BK Pass. Cargo Window Light 8 “X OUT 8”



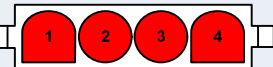
J-6 – OUTPUTS 9 thru 16 FROM CEM16

- Pin 1 Output 9 (2.5A) – 18 Ga. BL Driver Rear Vertex Light 9 “X OUT 9”
- Pin 2 Output 10 (2.5A) – 18 Ga. BL Pass. Rear Vertex Light 10 “X OUT 10”
- Pin 3 Output 11 (2.5A) – 18 Ga. BL Driver Rear Vertex Light 11 “X OUT 11”
- Pin 4 Output 12 (2.5A) – 18 Ga. BL Pass. Rear Vertex Light 12 “X OUT 12”
- Pin 5 Output 13 (2.5A) – 18 Ga. OR/BK Driver Hatch Light 13 “X OUT 13”
- Pin 6 Output 14 (2.5A) – 18 Ga. OR/BK Pass. Hatch Light 14 “X OUT 14”
- Pin 7 Output 15 (2.5A) – 18 Ga. OR/BK Driver Hatch Light 15 “X OUT 15”
- Pin 8 Output 16 (2.5A) – 18 Ga. OR/BK Pass. Hatch Light 16 “X OUT 16”



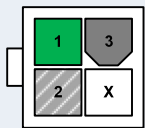
J-9 – INPUTS 1 thru 10 TO CEM16

- Pin 1 Input 1 Ground (–) –
- Pin 2 Input 2 Ground (–) –
- Pin 3 Input 3 Ground (–) –
- Pin 4 Input 4 Ground (–) –
- Pin 5 Main Ground Input – 16 Ga. BK CEM16 Ground “J9 5 GND” from 12-WCX-P32
- Pin 6 Input 1 Positive (+) –
- Pin 7 Input 2 Positive (+) –
- Pin 8 Input 3 Positive (+) –
- Pin 9 Input 4 Positive (+) –
- Pin 10 Main Ground Input – 16 Ga. BK CEM16 Ground “J9 10 GND” from 12-WCX-P32



J-10 – POWER INPUT TO CEM16 FROM 12-WCX-P32

- Pin 1 Power Input 1 (10A) – 16 Ga. RD Power 1 (10A) “PWR 1” from Fuse Position 1
- Pin 2 Power Input 2 (10A) – 16 Ga. RD Power 2 (10A) “PWR 2” from Fuse Position 2
- Pin 3 Power Input 3 (10A) – 16 Ga. RD Power 3 (10A) “PWR 3” from Fuse Position 3
- Pin 4 Power Input 4 (10A) – 16 Ga. RD Power 4 (10A) “PWR 4” from Fuse Position 4



J-7 – CAN INPUT TO CEM16 FROM (WCX-M7) 12-WCX-24

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Not Used – Plug

MID & REAR LIGHTING:

MIRROR LIGHTS

- 18 Ga. GN/YW Driver Mirror Light 1 “X OUT 1” from CEM16 J5 Pin 1
- 18 Ga. GN/YW Driver Mirror Light 3 “X OUT 3” from CEM16 J5 Pin 3
- 18 Ga. BK Driver Mirror Lights Ground “LT 1 GND” from Ground Assembly
- 18 Ga. GN/YW Pass. Mirror Light 2 “X OUT 2” from CEM16 J5 Pin 2
- 18 Ga. GN/YW Pass. Mirror Light 4 “X OUT 4” from CEM16 J5 Pin 4
- 18 Ga. BK Pass. Mirror Lights Ground “LT 2 GND” from Ground Assembly

REAR VERTEX LIGHTS

- 18 Ga. BL Driver Rear Vertex Light 9 “X OUT 9” from CEM16 J6 Pin 1
- 18 Ga. BL Driver Rear Vertex Light 11 “X OUT 11” from CEM16 J6 Pin 3
- 18 Ga. BK Driver Rear Vertex Lights Ground “LT 9 GND” from Ground Assembly
- 18 Ga. BL Pass. Rear Vertex Light 10 “X OUT 10” from CEM16 J6 Pin 2
- 18 Ga. BL Pass. Rear Vertex Light 12 “X OUT 12” from CEM16 J6 Pin 4
- 18 Ga. BK Pass. Rear Vertex Lights Ground “LT 10 GND” from Ground Assembly

CARGO LIGHT

- 18 Ga. RD/WH Cargo Light Red “CAR LT RED” from Rear Breakout
- 18 Ga. WH/RD Cargo Light White “CAR LT WHT” from Rear Breakout
- 18 Ga. BK Cargo Light Ground “CARGO GND” from Ground Assembly

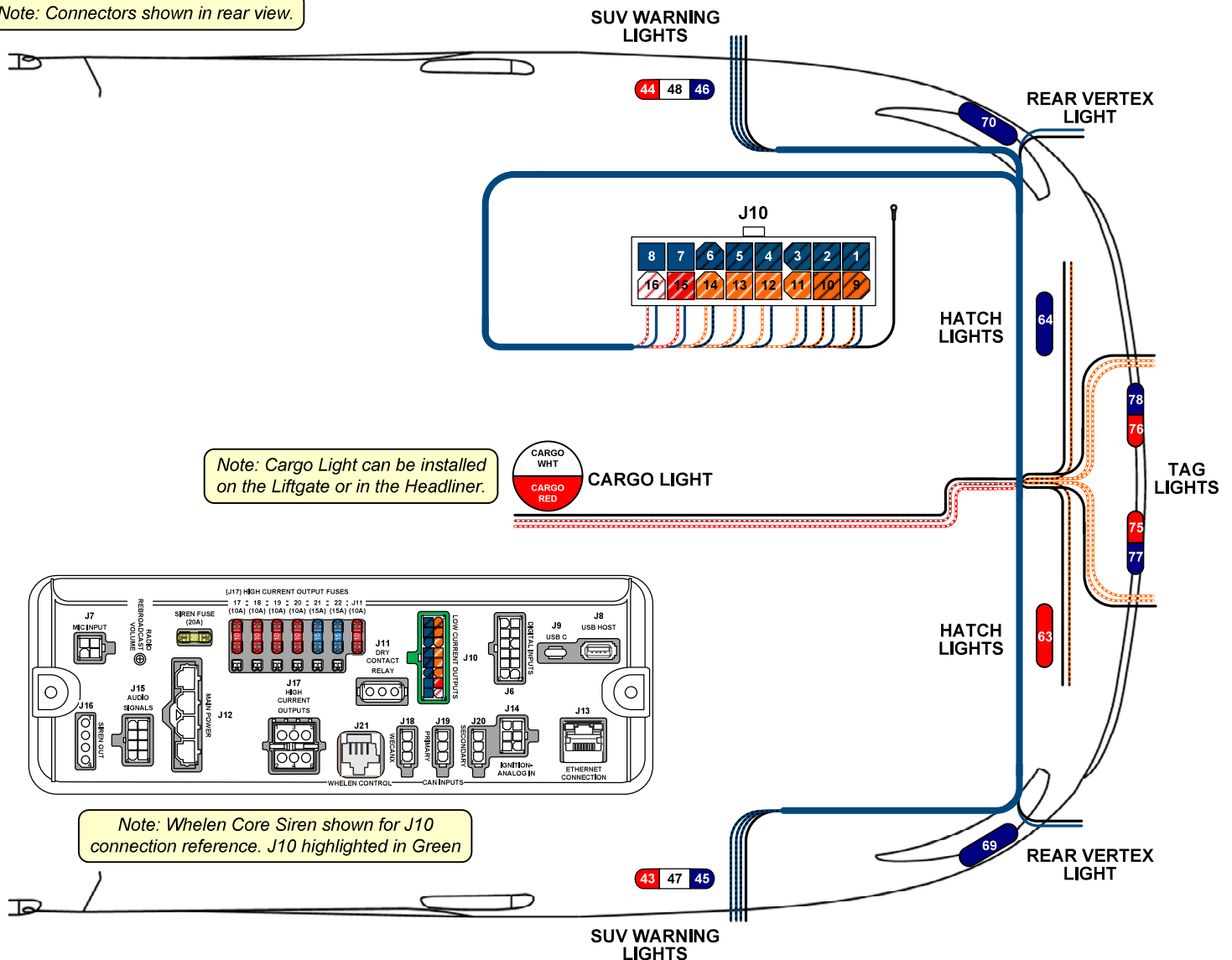
CARGO WINDOW LIGHTS

- 18 Ga. BL/BK Driver Cargo Window Light 5 “X OUT 5” from CEM16 J5 Pin 5
- 18 Ga. BL/BK Driver Cargo Window Light 7 “X OUT 7” from CEM16 J5 Pin 7
- 18 Ga. BK Driver Cargo Window Lights Ground “LT 5 GND” from Ground Assembly
- 18 Ga. BL/BK Pass. Cargo Window Light 6 “X OUT 6” from CEM16 J5 Pin 6
- 18 Ga. BL/BK Pass. Cargo Window Light 8 “X OUT 8” from CEM16 J5 Pin 8
- 18 Ga. BK Pass. Cargo Window Lights Ground “LT 6 GND” from Ground Assembly

HATCH LIGHTS

- 18 Ga. OR/BK Driver Hatch Light 13 “X OUT 13” from CEM16 J6 Pin 5
- 18 Ga. OR/BK Driver Hatch Light 15 “X OUT 15” from CEM16 J6 Pin 7
- 18 Ga. BK Driver Hatch Lights Ground “LT 13 GND” from Ground Assembly
- 18 Ga. OR/BK Pass. Hatch Light 14 “X OUT 14” from CEM16 J6 Pin 6
- 18 Ga. OR/BK Pass. Hatch Light 16 “X OUT 16” from CEM16 J6 Pin 8
- 18 Ga. BK Pass. Hatch Lights Ground “LT 14 GND” from Ground Assembly

Note: Connectors shown in rear view.



REAR LIGHTING:

J10 – SUV WARNING LIGHTS

- 18 Ga. BL/BK Driver SUV Light "SUV LT 43" from J10 Pin 1
- 18 Ga. BL/BK Driver SUV Light "SUV LT 45" from J10 Pin 3
- 18 Ga. BL/BK Driver SUV Light "SUV LT 47" from J10 Pin 5
- 18 Ga. BK Driver SUV Light Ground "LT 43 GND" from Ground Assembly
- 18 Ga. BL/BK Pass. SUV Light "SUV LT 44" from J10 Pin 2
- 18 Ga. BL/BK Pass. SUV Light "SUV LT 46" from J10 Pin 4
- 18 Ga. BL/BK Pass. SUV Light "SUV LT 48" from J10 Pin 6
- 18 Ga. BK Pass. SUV Light Ground "LT 44 GND" from Ground Assembly

J10 – REAR VERTEX LIGHTS

- 18 Ga. BL Driver Vertex Light "VTX LT 69" from J10 Pin 7
- 18 Ga. BK Driver Vertex Light Ground "LT 69 GND" from Ground Assembly
- 18 Ga. BL Pass. Vertex Light "VTX LT 70" from J10 Pin 8
- 18 Ga. BK Pass. Vertex Light Ground "LT 70 GND" from Ground Assembly

J10 – HATCH LIGHTS

- 18 Ga. OR/BK Driver Hatch Light "HATCH LT63" from J10 Pin 9
- 18 Ga. BK Driver Hatch Light Ground "LT 63 GND" from Ground Assembly
- 18 Ga. OR/BK Pass. Hatch Light "HATCH LT64" & from J10 Pin 10
- 18 Ga. BK Pass. Hatch Light Ground "LT 64 GND" from Ground Assembly

J10 – TAG LIGHTS

- 18 Ga. OR/WH Driver Tag Light "TAG LT 75" from J10 Pin 11
- 18 Ga. OR/WH Driver Tag Light "TAG LT 77" from J10 Pin 13
- 18 Ga. BK Driver Tag Light Ground "LT 75 GND" from Ground Assembly
- 18 Ga. OR/WH Pass. Tag Light "TAG LT 76" from J10 Pin 12
- 18 Ga. OR/WH Pass. Tag Light "TAG LT 78" from J10 Pin 14
- 18 Ga. BK Pass. Tag Light Ground "LT 76 GND" from Ground Assembly

J10 – CARGO LIGHT

- 18 Ga. RD/WH Cargo Light Red "CAR LT RD" from J10 Pin 15
- 18 Ga. WH/RD Cargo Light White "CAR LT WHT" from J10 Pin 16
- 18 Ga. BK Cargo Light Ground "CARGO GND" to Ground Assembly

REAR POWER CIRCUITS:

When purchasing a PPWC option with your harnesses consider adding a Console Power Harness and a 12-WCSP-CORE-28 Whelen Power Harness to use with a P18-Flex Fuse Panel to supply power to the Whelen Core and your console equipment.

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

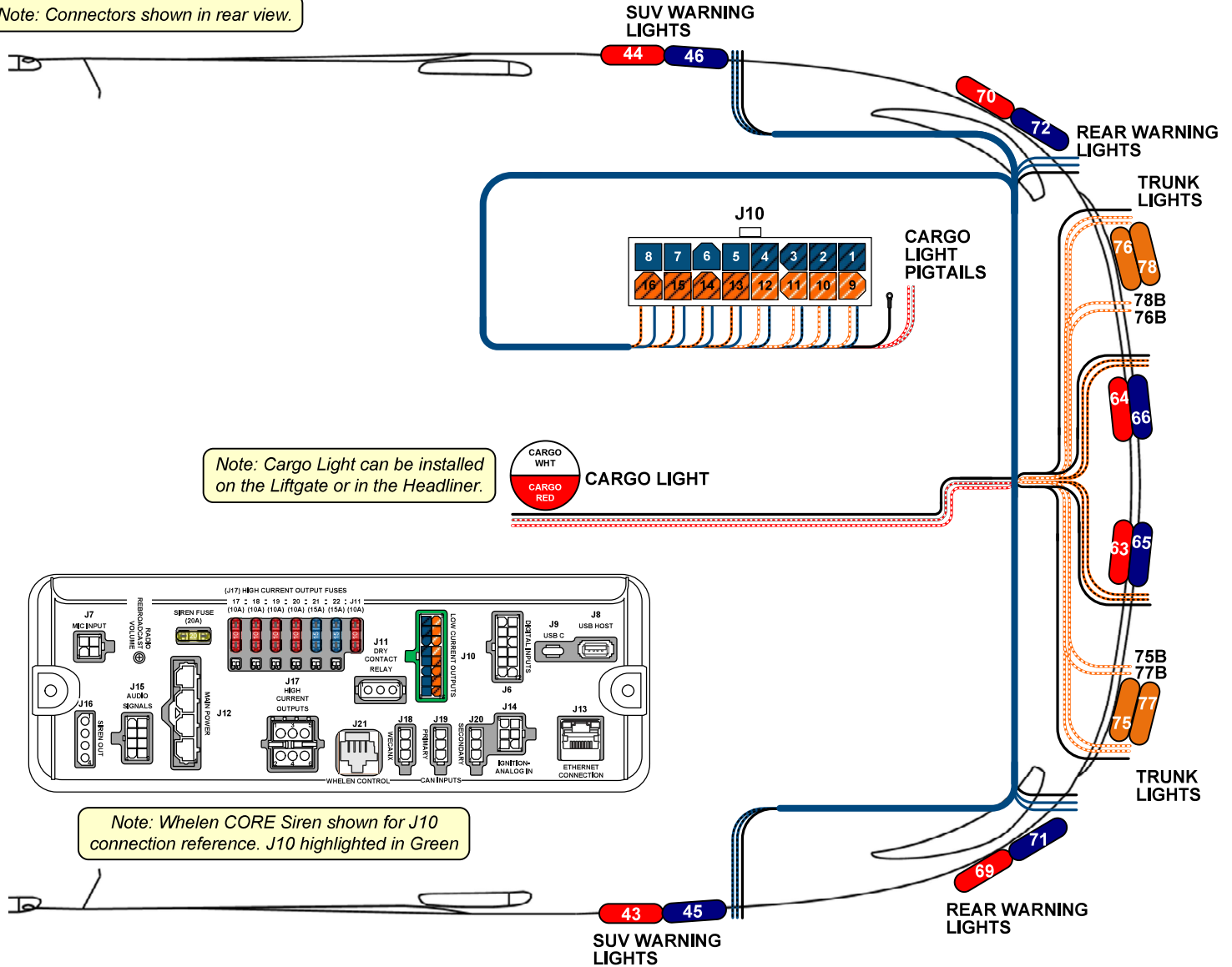
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 052323

ECN 000000

Note: Connectors shown in rear view.



REAR LIGHTING:

J10 – SUV WARNING LIGHTS

- 18 Ga. BL/BK Driver SUV Light "SUV LT 43" from J10 Pin 1
- 18 Ga. BL/BK Pass. SUV Light "SUV LT 44" from J10 Pin 2
- 18 Ga. BL/BK Driver SUV Light "SUV LT 45" from J10 Pin 3
- 18 Ga. BL/BK Pass. SUV Light "SUV LT 46" from J10 Pin 4
- 18 Ga. BK Driver SUV Light Ground "LT 43 GND" from Ground Assembly
- 18 Ga. BK Pass. SUV Light Ground "LT 44 GND" from Ground Assembly

J10 – TRUNK LIGHTS

- 18 Ga. OR/WH Driver Trunk Light "TRUNK LT 75" & 75B from J10 Pin 9
- 18 Ga. OR/WH Driver Trunk Light "TRUNK LT 77" & 77B from J10 Pin 11
- 18 Ga. OR/WH Pass. Trunk Light "TRUNK LT 76" & 76B from J10 Pin 10
- 18 Ga. OR/WH Pass. Trunk Light "TRUNK LT 78" & 78B from J10 Pin 12
- 18 Ga. BK Driver Trunk Light Ground "LT 75 GND" from Ground Assembly
- 18 Ga. BK Pass. Trunk Light Ground "LT 76 GND" from Ground Assembly

J10 – REAR WARNING LIGHTS

- 18 Ga. BL Driver Rear Light "RER W LT 69" from J10 Pin 5
- 18 Ga. BL Pass. Rear Light "RER W LT 70" from J10 Pin 6
- 18 Ga. BL Driver Rear Light "RER W LT 71" from J10 Pin 7
- 18 Ga. BL Pass. Rear Light "RER W LT 72" from J10 Pin 8
- 18 Ga. BK Driver Rear Light Ground "LT 69 GND" from Ground Assembly
- 18 Ga. BK Pass. Rear Light Ground "LT 70 GND" from Ground Assembly

J10 – LICENSE PLATE LIGHTS

- 18 Ga. OR/BK Driver Plate Light "LP LT 63" from J10 Pin 13
- 18 Ga. OR/BK Driver Plate Light "LP LT 65" from J10 Pin 15
- 18 Ga. OR/BK Pass. Plate Light "LP LT 64" from J10 Pin 14
- 18 Ga. OR/BK Pass. Plate Light "LP LT 66" from J10 Pin 16
- 18 Ga. BK Driver Plate Light Ground "LT 63 GND" from Ground Assembly
- 18 Ga. BK Pass. Plate Light Ground "LT 64 GND" from Ground Assembly

CARGO LIGHT

- 18 Ga. RD/WH Cargo Light Red "CAR LT RD" Pigtail 20"
- 18 Ga. WH/RD Cargo Light White "CAR LT WHT" Pigtail 20"
- 18 Ga. BK Cargo Light Ground "CARGO GND" to Ground Assembly

REAR POWER CIRCUITS:

When purchasing a PPWC option with your harnesses consider adding a Console Power Harness and a 12-WCSP-28 Whelen Power Harness to use with a P18-Flex Fuse Panel to supply power to the Whelen CORE and your console equipment.

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

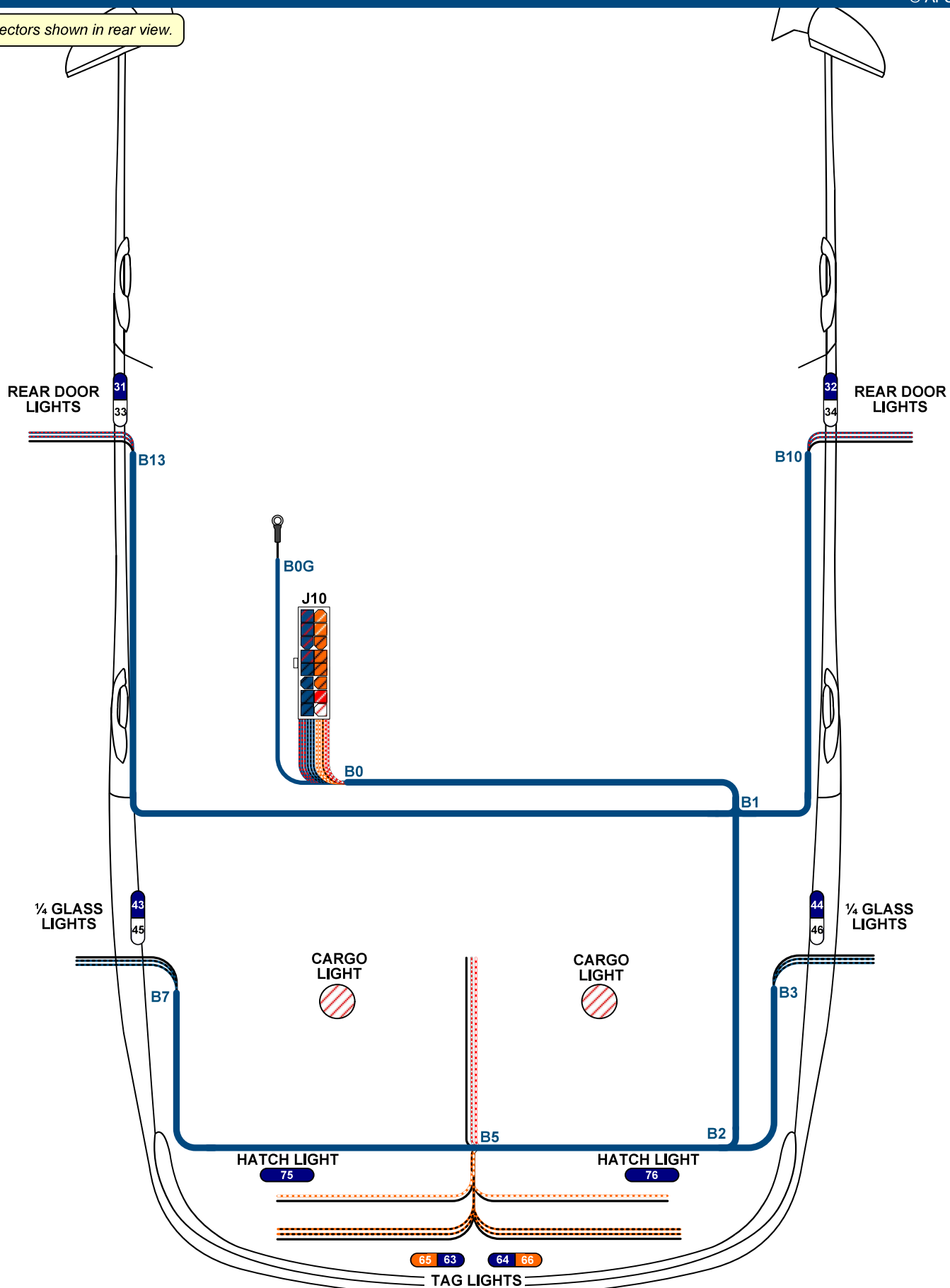
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 100422

ECN 000000

Note: Connectors shown in rear view.



PRODUCTS SHOWN ON LAYOUT:

Rear Lighting Harness: RLH24-C-J10

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 021225

ECN 000000

LIGHT & SIREN CONTROLLER:



J10 – LOW CURRENT OUTPUTS

- Pin 1 Output 1 (2A) – 18 Ga. BL/RD “LT 31”
- Pin 2 Output 2 (2A) – 18 Ga. BL/RD “LT 32”
- Pin 3 Output 3 (2A) – 18 Ga. BL/RD “LT 33”
- Pin 4 Output 4 (2A) – 18 Ga. BL/RD “LT 34”
- Pin 5 Output 5 (2A) – 18 Ga. BL/BK “LT 43”
- Pin 6 Output 6 (2A) – 18 Ga. BL/BK “LT 44”
- Pin 7 Output 7 (2A) – 18 Ga. BL/BK “LT 45”
- Pin 8 Output 8 (2A) – 18 Ga. BL/BK “LT 46”
- Pin 9 Output 9 (2A) – 18 Ga. OR/WH “LT 75”
- Pin 10 Output 10 (2A) – 18 Ga. OR/WH “LT 76”
- Pin 11 Output 11 (2A) – 18 Ga. OR/BK “LT 63”
- Pin 12 Output 12 (2A) – 18 Ga. OR/BK “LT 64”
- Pin 13 Output 13 (2A) – 18 Ga. OR/BK “LT 65”
- Pin 14 Output 14 (2A) – 18 Ga. OR/BK “LT 66”
- Pin 15 Output 15 (2A) – 18 Ga. RD/WH “CARGO RED”
- Pin 16 Output 16 (2A) – 18 Ga. WH/RD “CARGO WHT”

MID LIGHTING:

REAR DOOR LIGHTS

- 18 Ga. BL/RD Driver Rear Door Light 31 “LT 31” from Core J10 Pin 1
- 18 Ga. BL/RD Driver Rear Door Light 33 “LT 33” from Core J10 Pin 3
- 18 Ga. BK Driver Rear Door Lights Ground “LT 31 GND” from Ground Assembly
- 18 Ga. BL/RD Pass. Rear Door Light 32 “LT 32” from Core J10 Pin 2
- 18 Ga. BL/RD Pass. Rear Door Light 34 “LT 34” from Core J10 Pin 4
- 18 Ga. BK Pass. Rear Door Lights Ground “LT 32 GND” from Ground Assembly



REAR LIGHTING:

REAR GROUND RING

- 10 Ga. BK Rear Ground “REAR GND” to Ground Assemblies

¼ GLASS LIGHTS

- 18 Ga. BL/BK Driver ¼ Glass Light 43 “LT 43” from Core J10 Pin 5
- 18 Ga. BL/BK Driver ¼ Glass Light 45 “LT 45” from Core J10 Pin 7
- 18 Ga. BK Driver ¼ Glass Lights Ground “LT 43 GND” from Ground Assembly
- 18 Ga. BL/BK Pass. ¼ Glass Light 44 “LT 44” from Core J10 Pin 6
- 18 Ga. BL/BK Pass. ¼ Glass Light 46 “LT 46” from Core J10 Pin 8
- 18 Ga. BK Pass. ¼ Glass Lights Ground “LT 44 GND” from Ground Assembly



HATCH LIGHTS

- 18 Ga. OR/WH Driver Hatch Light 75 “LT 75” from Core J10 Pin 9
- 18 Ga. BK Driver Hatch Light Ground “LT 75 GND” from Ground Assembly
- 18 Ga. OR/WH Pass. Hatch Light 76 “LT 76” from Core J10 Pin 10
- 18 Ga. BK Pass. Hatch Ground “LT 76 GND” from Ground Assembly



TAG LIGHTS

- 18 Ga. OR/BK Driver Tag Light 63 “LT 63” from Core J10 Pin 11
- 18 Ga. OR/BK Driver Tag Light 65 “LT 65” from Core J10 Pin 13
- 18 Ga. BK Driver Tag Lights Ground “LT 63 GND” from Ground Assembly
- 18 Ga. OR/BK Pass. Tag Light 64 “LT 64” from Core J10 Pin 12
- 18 Ga. OR/BK Pass. Tag Light 66 “LT 66” from Core J10 Pin 14
- 18 Ga. BK Pass. Tag Lights Ground “LT 64 GND” from Ground Assembly



CARGO LIGHTS

- 18 Ga. RD/WH Cargo Light Red “CARGO RED” from Core J10 Pin 15
- 18 Ga. WH/RD Cargo Light White “CARGO WHT” from Core J10 Pin 16
- 18 Ga. BK Cargo Light Ground “CARGO GND” from Ground Assembly



PRODUCTS SHOWN ON LAYOUT:

Main Harness:
Front Harness:
Rear Harness: RLH25-C-WCX
Power Cable: 12-WCX-PWR40

TECHNICAL SUPPORT & SALES CONTACT:

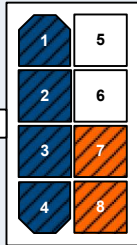
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

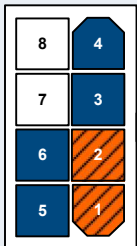
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ECN 00000



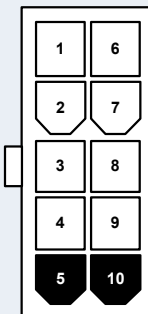
J-5 – OUTPUTS 1 thru 8 FROM CEM16

- Pin 1 Output 1 (2.5A) – 18 Ga. BL/BK Driver SUV Warning Light 43 “SUV LT 43” **43**
- Pin 2 Output 2 (2.5A) – 18 Ga. BL/BK Pass. SUV Warning Light 44 “SUV LT 44” **44**
- Pin 3 Output 3 (2.5A) – 18 Ga. BL/BK Driver SUV Warning Light 45 “SUV LT 45” **45**
- Pin 4 Output 4 (2.5A) – 18 Ga. BL/BK Pass. SUV Warning Light 46 “SUV LT 46” **46**
- Pin 5 Output 5 (2.5A) – : _____
- Pin 6 Output 6 (2.5A) – : _____
- Pin 7 Output 7 (2.5A) – 18 Ga. OR/BK Driver Hatch Light 75 “HTCH LT75” **75**
- Pin 8 Output 8 (2.5A) – 18 Ga. OR/BK Pass. Hatch Light 76 “HTCH LT76” **76**



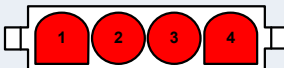
J-6 – OUTPUTS 9 thru 16 FROM CEM16

- Pin 1 Output 9 (2.5A) – 18 Ga. OR/BK Driver Hatch Light 77 “HTCH LT77” **77**
- Pin 2 Output 10 (2.5A) – 18 Ga. OR/BK Pass. Hatch Light 78 “HTCH LT78” **78**
- Pin 3 Output 11 (2.5A) – 18 Ga. BL Driver Rear Light 69 “RER W LT 69” **69**
- Pin 4 Output 12 (2.5A) – 18 Ga. BL Pass. Rear Light 70 “RER W LT 70” **70**
- Pin 5 Output 13 (2.5A) – 18 Ga. BL Driver Rear Light 71 “RER W LT 71” **71**
- Pin 6 Output 14 (2.5A) – 18 Ga. BL Pass. Rear Light 72 “RER W LT 72” **72**
- Pin 7 Output 15 (2.5A) – : _____
- Pin 8 Output 16 (2.5A) – : _____



J-9 – INPUTS 1 thru 10 TO CEM16

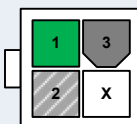
- Pin 1 Input 1 Ground (–) – : _____
- Pin 2 Input 2 Ground (–) – : _____
- Pin 3 Input 3 Ground (–) – : _____
- Pin 4 Input 4 Ground (–) – : _____
- Pin 5 Main Ground Input – 16 Ga. BK CEM16 Ground “J9 5 GND” from 12-WCX-P32
- Pin 6 Input 1 Positive (+) – : _____
- Pin 7 Input 2 Positive (+) – : _____
- Pin 8 Input 3 Positive (+) – : _____
- Pin 9 Input 4 Positive (+) – : _____
- Pin 10 Main Ground Input – 16 Ga. BK CEM16 Ground “J9 10 GND” from 12-WCX-P32



J-10 – POWER INPUT TO CEM16 FROM 12-WCX-PWR40

- Pin 1 Power Input 1 (10A) – 16 Ga. RD Power 1 (10A) “PWR 1” from Fuse Position 1
- Pin 2 Power Input 2 (10A) – 16 Ga. RD Power 2 (10A) “PWR 2” from Fuse Position 2
- Pin 3 Power Input 3 (10A) – 16 Ga. RD Power 3 (10A) “PWR 3” from Fuse Position 3
- Pin 4 Power Input 4 (10A) – 16 Ga. RD Power 4 (10A) “PWR 4” from Fuse Position 4

Note: See 12-WCX-PWR40 for detailed information on Power Distribution (J9 and J10 Connectors)

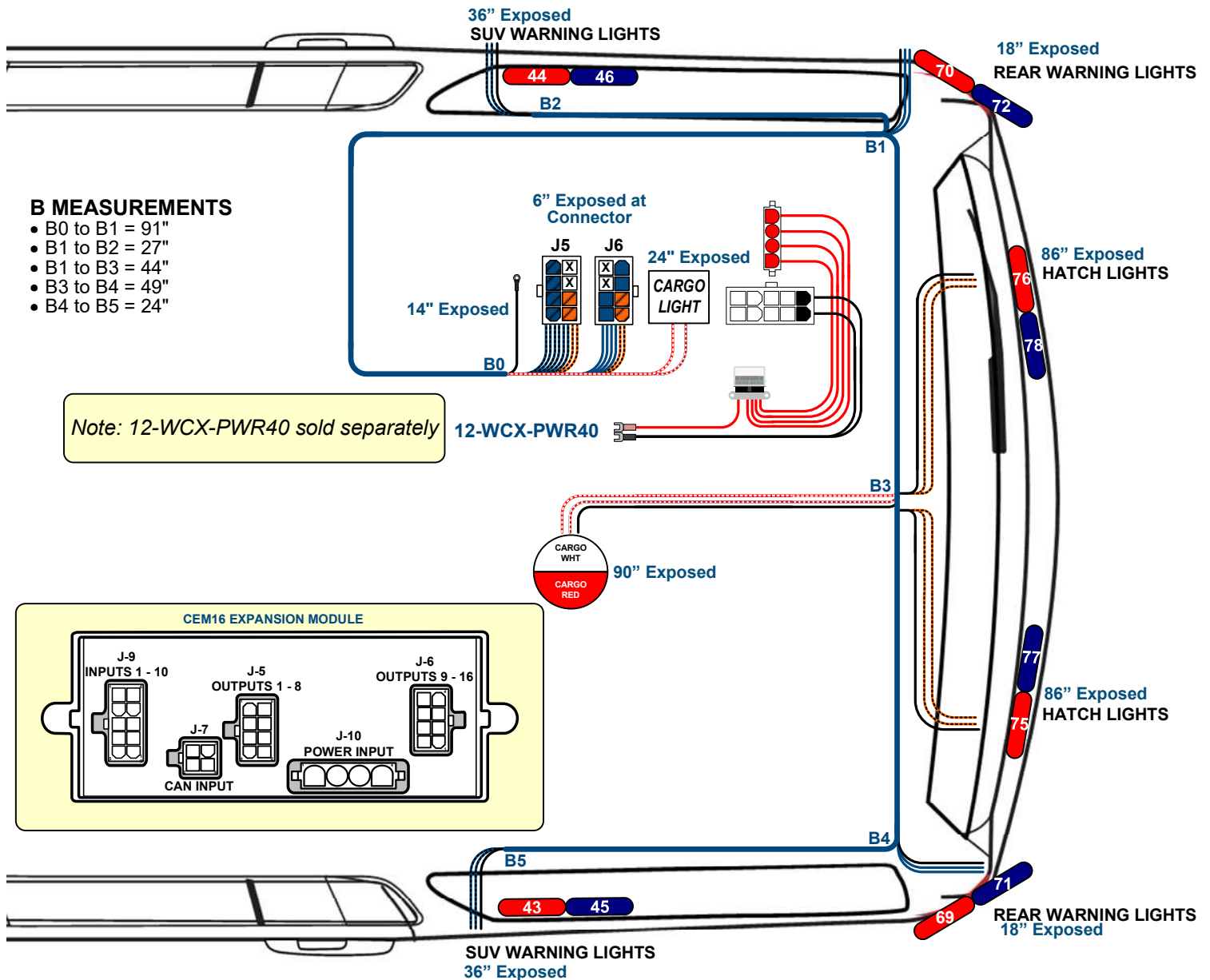


J-7 – CAN INPUT TO CEM16 FROM DATA HARNESS*

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Not Used – Plug

**Note: See Data Harness Layout, if applicable, for detailed information on Data Distribution (J7 Connectors)*

Note: Connectors shown in rear view.



REAR LIGHTING:

SUV WARNING LIGHTS

- 18 Ga. BL/BK Driver SUV Light "SUV LT 43" to CEM16 J5 Pin 1
- 18 Ga. BL/BK Driver SUV Light "SUV LT 45" to CEM16 J5 Pin 3
- 18 Ga. BK Driver SUV Lights Ground "LT 43 GND" to Ground Assembly
- 18 Ga. BL/BK Pass. SUV Light "SUV LT 44" to CEM16 J5 Pin 2
- 18 Ga. BL/BK Pass. SUV Light "SUV LT 46" to CEM16 J5 Pin 4
- 18 Ga. BK Pass. SUV Lights Ground "LT 44 GND" to Ground Assembly

HATCH LIGHTS

- 18 Ga. OR/BK Driver Hatch Light "HTCH LT75" to CEM16 J5 Pin 7
- 18 Ga. OR/BK Driver Hatch Light "HTCH LT77" to CEM16 J6 Pin 1
- 18 Ga. BK Driver Hatch Lights Ground "LT 75 GND" to Ground Assembly
- 18 Ga. OR/BK Pass. Hatch Light "HTCH LT76" to CEM16 J5 Pin 8
- 18 Ga. OR/BK Pass. Hatch Light "HTCH LT78" to CEM16 J6 Pin 2
- 18 Ga. BK Pass. Hatch Lights Ground "LT 76 GND" to Ground Assembly

REAR WARNING LIGHTS

- 18 Ga. BL Driver Rear Light "RER W LT 69" to CEM16 J6 Pin 3
- 18 Ga. BL Driver Rear Light "RER W LT 71" to CEM16 J6 Pin 5
- 18 Ga. BK Driver Rear Lights Ground "LT 69 GND" to Ground Assembly
- 18 Ga. BL Pass. Rear Light "RER W LT 70" to CEM16 J6 Pin 4
- 18 Ga. BL Pass. Rear Light "RER W LT 72" to CEM16 J6 Pin 6
- 18 Ga. BK Pass. Rear Lights Ground "LT 70 GND" to Ground Assembly

CARGO LIGHT

- 18 Ga. RD/WH Cargo Light Red "CAR LT RED" Pigtail 20"
- 18 Ga. WH/RD Cargo Light White "CAR LT WHT" Pigtail 20"
- 18 Ga. BK Cargo Light Ground "CARGO GND" to Ground Assembly

PRODUCTS SHOWN ON LAYOUT:

Main Harness:
Front Harness:
Rear Harness: RLH28-C-WCX
Power Cable: 12-WCX-PWR40

TECHNICAL SUPPORT & SALES CONTACT:

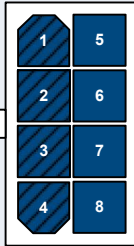
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 030922

ECN 000000



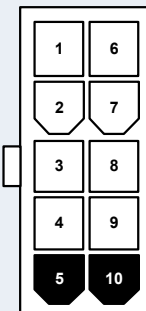
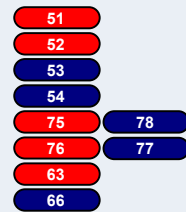
J-5 – OUTPUTS 1 thru 8 FROM CEM16

- Pin 1 Output 1 (2.5A) – 18 Ga. BL/BK Driver SUV Warning Light 43 “SUV LT 43”
- Pin 2 Output 2 (2.5A) – 18 Ga. BL/BK Pass. SUV Warning Light 44 “SUV LT 44”
- Pin 3 Output 3 (2.5A) – 18 Ga. BL/BK Driver SUV Warning Light 45 “SUV LT 45”
- Pin 4 Output 4 (2.5A) – 18 Ga. BL/BK Pass. SUV Warning Light 46 “SUV LT 46”
- Pin 5 Output 5 (2.5A) – 18 Ga. BL Driver Rear Warning Light 69 “RER W LT69”
- Pin 6 Output 6 (2.5A) – 18 Ga. BL Pass. Rear Warning Light 70 “RER W LT70”
- Pin 7 Output 7 (2.5A) – 18 Ga. BL Driver Rear Warning Light 71 “RER W LT71”
- Pin 8 Output 8 (2.5A) – 18 Ga. BL Pass. Rear Warning Light 72 “RER W LT72”



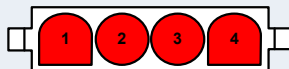
J-6 – OUTPUTS 9 thru 16 FROM CEM16

- Pin 1 Output 9 (2.5A) – 18 Ga. OR/WH Driver Spoiler Light 51 “SPLR LT 51”
- Pin 2 Output 10 (2.5A) – 18 Ga. OR/WH Pass. Spoiler Light 52 “SPLR LT 52”
- Pin 3 Output 11 (2.5A) – 18 Ga. OR/WH Driver Spoiler Light 53 “SPLR LT 53”
- Pin 4 Output 12 (2.5A) – 18 Ga. OR/WH Pass. Spoiler Light 54 “SPLR LT 54”
- Pin 5 Output 13 (2.5A) – 18 Ga. OR/BK Driver Hatch Light 75 & 78 “HTCH LTS 1”
- Pin 6 Output 14 (2.5A) – 18 Ga. OR/BK Pass. Hatch Light 76 & 77 “HTCH LTS 2”
- Pin 7 Output 15 (2.5A) – 18 Ga. OR/BK Driver License Plate Light 63 “LP LT 63”
- Pin 8 Output 16 (2.5A) – 18 Ga. OR/BK Pass. License Plate Light 66 “LP LT 66”



J-9 – INPUTS 1 thru 10 TO CEM16

- Pin 1 Input 1 Ground (–) –:
- Pin 2 Input 2 Ground (–) –:
- Pin 3 Input 3 Ground (–) –:
- Pin 4 Input 4 Ground (–) –:
- Pin 5 Main Ground Input – 16 Ga. BK CEM16 Ground “J9 5 GND” from 12-WCX-PWR40
- Pin 6 Input 1 Positive (+) –:
- Pin 7 Input 2 Positive (+) –:
- Pin 8 Input 3 Positive (+) –:
- Pin 9 Input 4 Positive (+) –:
- Pin 10 Main Ground Input – 16 Ga. BK CEM16 Ground “J9 10 GND” from 12-WCX-PWR40



J-10 – POWER INPUT TO CEM16 FROM 12-WCX-PWR40

- Pin 1 Power Input 1 (10A) – 16 Ga. RD Power 1 (10A) “PWR 1” from Fuse Position 1
- Pin 2 Power Input 2 (10A) – 16 Ga. RD Power 2 (10A) “PWR 2” from Fuse Position 2
- Pin 3 Power Input 3 (10A) – 16 Ga. RD Power 3 (10A) “PWR 3” from Fuse Position 3
- Pin 4 Power Input 4 (10A) – 16 Ga. RD Power 4 (10A) “PWR 4” from Fuse Position 4

Note: See 12-WCX-PWR40 for detailed information on Power Distribution (J9 and J10 Connectors)

REAR LIGHTING:

SUV WARNING LIGHTS

- 18 Ga. BL/BK Driver SUV Light “SUV LT 43” to CEM16 J5 Pin 1
- 18 Ga. BL/BK Driver SUV Light “SUV LT 45” to CEM16 J5 Pin 3
- 18 Ga. BK Driver SUV Lights Ground “LT 43 GND” to Ground Assembly
- 18 Ga. BL/BK Pass. SUV Light “SUV LT 44” to CEM16 J5 Pin 2
- 18 Ga. BL/BK Pass. SUV Light “SUV LT 46” to CEM16 J5 Pin 4
- 18 Ga. BK Pass. SUV Lights Ground “LT 44 GND” to Ground Assembly

REAR WARNING LIGHTS

- 18 Ga. BL Driver Rear Light “RER W LT 69” to CEM16 J5 Pin 5
- 18 Ga. BL Driver Rear Light “RER W LT 71” to CEM16 J5 Pin 7
- 18 Ga. BK Driver Rear Lights Ground “LT 69 GND” to Ground Assembly
- 18 Ga. BL Pass. Rear Light “RER W LT 70” to CEM16 J5 Pin 6
- 18 Ga. BL Pass. Rear Light “RER W LT 72” to CEM16 J5 Pin 8
- 18 Ga. BK Pass. Rear Lights Ground “LT 70 GND” to Ground Assembly

SPOILER LIGHTS

- 18 Ga. OR/WH Driver Spoiler Light “SPLR LT 51” to CEM16 J6 Pin 1
- 18 Ga. OR/WH Driver Spoiler Light “SPLR LT 53” to CEM16 J6 Pin 3
- 18 Ga. BK Driver Spoiler Lights Ground “LT 51 GND” to Ground Assembly
- 18 Ga. OR/WH Pass. Spoiler Light “SPLR LT 52” to CEM16 J6 Pin 2
- 18 Ga. OR/WH Pass. Spoiler Light “SPLR LT 54” to CEM16 J6 Pin 4
- 18 Ga. BK Pass. Spoiler Lights Ground “LT 52 GND” to Ground Assembly

HATCH LIGHTS

- 18 Ga. OR/BK Driver Hatch Light 75 “HTCH LT75” to HTCH LTS 1 Assembly
- 18 Ga. OR/BK Driver Hatch Light 77 “HTCH LT77” to HTCH LTS 2 Assembly
- 18 Ga. BK Driver Hatch Lights Ground “LT 75 GND” to Ground Assembly
- 18 Ga. OR/BK Pass. Hatch Light 76 “HTCH LT76” to HTCH LTS 2 Assembly
- 18 Ga. OR/BK Pass. Hatch Light 78 “HTCH LT78” to HTCH LTS 1 Assembly
- 18 Ga. BK Pass. Hatch Lights Ground “LT 76 GND” to Ground Assembly

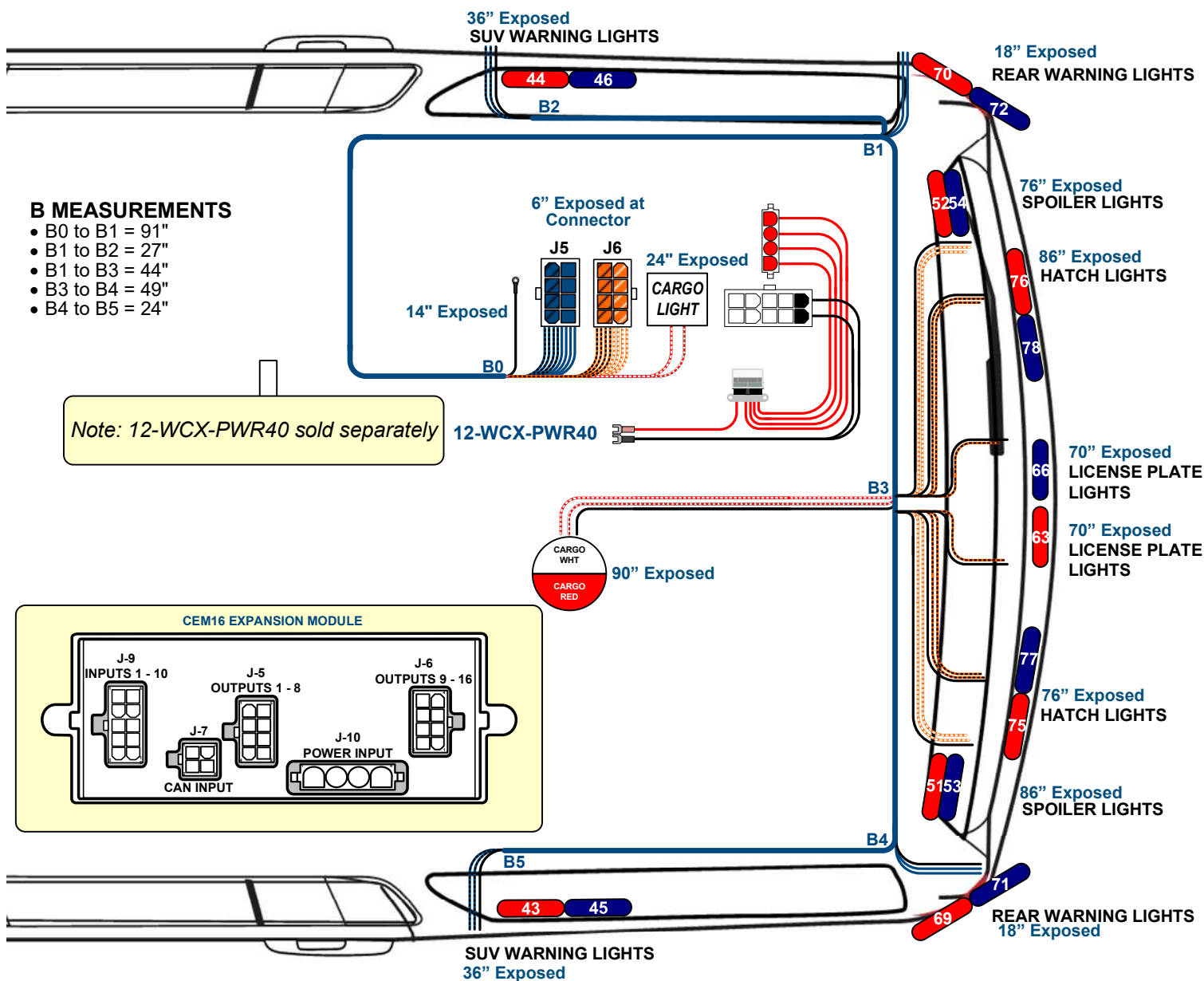
LICENSE PLATE LIGHTS

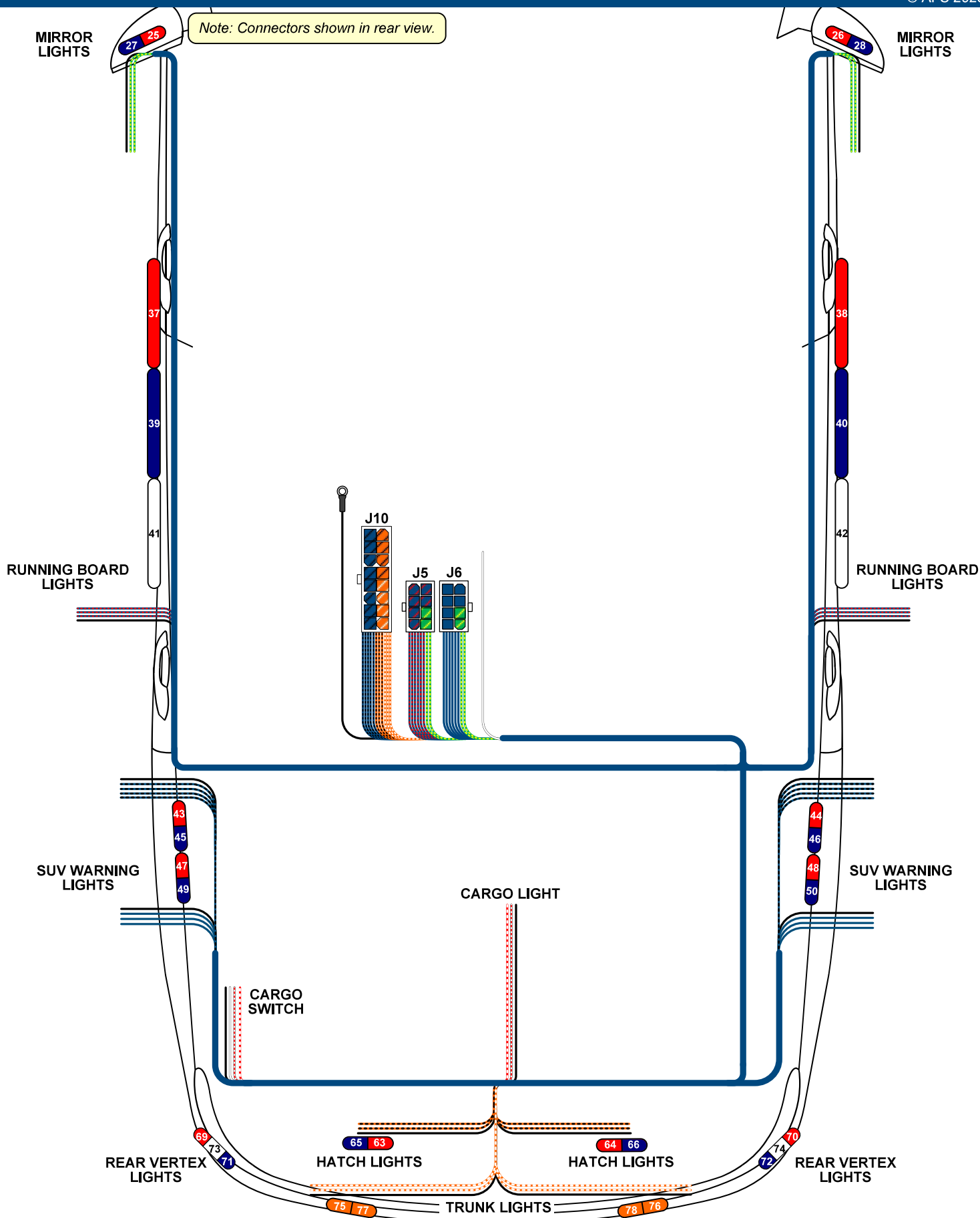
- 18 Ga. OR/BK Driver License Plate Light 63 “LP LT 63” to CEM16 J6 Pin 7
- 18 Ga. BK Driver LP Light Ground “LT 63 GND” to Ground Assembly
- 18 Ga. OR/BK Pass. License Plate Light 66 “LP LT 66” to CEM16 J6 Pin 8
- 18 Ga. BK Pass. LP Light Ground “LT 66 GND” to Ground Assembly

CARGO LIGHT

- 18 Ga. RD/WH Cargo Light Red “CAR LT RED” Pigtail 20”
- 18 Ga. WH/RD Cargo Light White “CAR LT WHT” Pigtail 20”
- 18 Ga. BK Cargo Light Ground “CARGO GND” to Ground Assembly

Note: Connectors shown in rear view.





PRODUCTS SHOWN ON LAYOUT:

Main Harness:
Front Harness:
Rear Harness: RLH32
Battery Cable:

TECHNICAL SUPPORT & SALES CONTACT:**Phone: 844-423-7200****Email: sales@allfleetsolutions.com****Web: www.allfleetsolutions.com**

EDD 120523

ECN 000000

LIGHT & SIREN CONTROLLER:**J10 – LOW CURRENT OUTPUTS**

- Pin 1 Output 1 (2A) – 18 Ga. BL/BK “SUV LT 43”
- Pin 2 Output 2 (2A) – 18 Ga. BL/BK “SUV LT 44”
- Pin 3 Output 3 (2A) – 18 Ga. BL/BK “SUV LT 45”
- Pin 4 Output 4 (2A) – 18 Ga. BL/BK “SUV LT 46”
- Pin 5 Output 5 (2A) – 18 Ga. BL/BK “SUV LT 47”
- Pin 6 Output 6 (2A) – 18 Ga. BL/BK “SUV LT 48”
- Pin 7 Output 7 (2A) – 18 Ga. BL/BK “SUV LT 49”
- Pin 8 Output 8 (2A) – 18 Ga. BL/BK “SUV LT 50”
- Pin 9 Output 9 (2A) – 18 Ga. OR/BK “HATCH LT63”
- Pin 10 Output 10 (2A) – 18 Ga. OR/BK “HATCH LT64”
- Pin 11 Output 11 (2A) – 18 Ga. OR/BK “HATCH LT65”
- Pin 12 Output 12 (2A) – 18 Ga. OR/BK “HATCH LT66”
- Pin 13 Output 13 (2A) – 18 Ga. OR/WH “TRUNK LT75”
- Pin 14 Output 14 (2A) – 18 Ga. OR/WH “TRUNK LT76”
- Pin 15 Output 15 (2A) – 18 Ga. OR/WH “TRUNK LT77”
- Pin 16 Output 16 (2A) – 18 Ga. OR/WH “TRUNK LT78”

**J-5 – OUTPUTS 1 thru 8 FROM CEM16**

- Pin 1 Output 1 (2.5A) – 18 Ga. BL/RD “RUN B LT37”
- Pin 2 Output 2 (2.5A) – 18 Ga. BL/RD “RUN B LT38”
- Pin 3 Output 3 (2.5A) – 18 Ga. BL/RD “RUN B LT39”
- Pin 4 Output 4 (2.5A) – 18 Ga. BL/RD “RUN B LT40”
- Pin 5 Output 5 (2.5A) – 18 Ga. BL/RD “RUN B LT41”
- Pin 6 Output 6 (2.5A) – 18 Ga. BL/RD “RUN B LT42”
- Pin 7 Output 7 (2.5A) – 18 Ga. GN/YW “MIR LT 25”
- Pin 8 Output 8 (2.5A) – 18 Ga. GN/YW “MIR LT 26”

**J-6 – OUTPUTS 9 thru 16 FROM CEM16**

- Pin 1 Output 9 (2.5A) – 18 Ga. GN/YW “MIR LT 27”
- Pin 2 Output 10 (2.5A) – 18 Ga. GN/YW “MIR LT 28”
- Pin 3 Output 11 (2.5A) – 18 Ga. BL “R VTX LT69”
- Pin 4 Output 12 (2.5A) – 18 Ga. BL “R VTX LT70”
- Pin 5 Output 13 (2.5A) – 18 Ga. BL “R VTX LT71”
- Pin 6 Output 14 (2.5A) – 18 Ga. BL “R VTX LT72”
- Pin 7 Output 15 (2.5A) – 18 Ga. BL “R VTX LT73”
- Pin 8 Output 16 (2.5A) – 18 Ga. BL “R VTX LT74”

MID LIGHTING:**MIRROR LIGHTS**

- 18 Ga. GN/YW Driver Mirror Light 25 “MIR LT 25” from CEM16 J5 Pin 7 **25**
- 18 Ga. GN/YW Driver Mirror Light 27 “MIR LT 27” from CEM16 J6 Pin 1 **27**
- 18 Ga. BK Driver Mirror Lights Ground “LT 25 GND” from Ground Assembly
- 18 Ga. GN/YW Pass. Mirror Light 26 “MIR LT 26” from CEM16 J5 Pin 8 **26**
- 18 Ga. GN/YW Pass. Mirror Light 28 “MIR LT 28” from CEM16 J6 Pin 2 **28**
- 18 Ga. BK Pass. Mirror Lights Ground “LT 26 GND” from Ground Assembly

RUNNING BOARD LIGHTS

- 18 Ga. BL/RD Driver Running Board Light 37 “RUN B LT37” from CEM16 J5 Pin 1 **37**
- 18 Ga. BL/RD Driver Running Board Light 39 “RUN B LT39” from CEM16 J5 Pin 3 **39**
- 18 Ga. BL/RD Driver Running Board Light 41 “RUN B LT41” from CEM16 J5 Pin 5 **41**
- 18 Ga. BK Driver Run. Board Light Ground “LT 37 GND” from Ground Assembly
- 18 Ga. BL/RD Pass. Running Board Light 38 “RUN B LT38” from CEM16 J5 Pin 2 **38**
- 18 Ga. BL/RD Pass. Running Board Light 40 “RUN B LT40” from CEM16 J5 Pin 4 **40**
- 18 Ga. BL/RD Pass. Running Board Light 42 “RUN B LT42” from CEM16 J5 Pin 6 **42**
- 18 Ga. BK Pass. Run. Board Light Ground “LT 38 GND” from Ground Assembly

REAR LIGHTING:**SUV/SIDE WARNING LIGHTS**

- 18 Ga. BL/BK Driver SUV Warn Light 43 “SUV LT 43” from Core J10 Pin 1 **43**
- 18 Ga. BL/BK Driver SUV Warn Light 45 “SUV LT 45” from Core J10 Pin 3 **45**
- 18 Ga. BL/BK Driver SUV Warn Light 47 “SUV LT 47” from Core J10 Pin 5 **47**
- 18 Ga. BL/BK Driver SUV Warn Light 49 “SUV LT 49” from Core J10 Pin 7 **49**
- 18 Ga. BK Driver SUV Warning Ground “LT 43 GND” from Ground Assembly
- 18 Ga. BL/BK Pass. SUV Warn Light 44 “SUV LT 44” from Core J10 Pin 2 **44**
- 18 Ga. BL/BK Pass. SUV Warn Light 46 “SUV LT 46” from Core J10 Pin 4 **46**
- 18 Ga. BL/BK Pass. SUV Warn Light 48 “SUV LT 48” from Core J10 Pin 6 **48**
- 18 Ga. BL/BK Pass. SUV Warn Light 50 “SUV LT 50” from Core J10 Pin 8 **50**
- 18 Ga. BK Pass. SUV Warning Ground “LT 44 GND” from Ground Assembly

HATCH LIGHTS

- 18 Ga. OR/BK Driver Hatch Light 63 “HATCH LT63” from Core J10 Pin 9 **63**
- 18 Ga. OR/BK Driver Hatch Light 65 “HATCH LT65” from Core J10 Pin 11 **65**
- 18 Ga. BK Driver Hatch Ground “LT 63 GND” from Ground Assembly
- 18 Ga. OR/BK Pass. Hatch Light 64 “HATCH LT64” from Core J10 Pin 10 **64**
- 18 Ga. OR/BK Pass. Hatch Light 66 “HATCH LT66” from Core J10 Pin 12 **66**
- 18 Ga. BK Pass. Hatch Ground “LT 64 GND” from Ground Assembly

REAR TRUNK LIGHTS

- 18 Ga. OR/WH Driver Trunk Light 75 “TRUNK LT75” from Core J10 Pin 13 **75**
- 18 Ga. OR/WH Driver Trunk Light 77 “TRUNK LT77” from Core J10 Pin 15 **77**
- 18 Ga. BK Driver Trunk Ground “LT 75 GND” from Ground Assembly
- 18 Ga. OR/WH Pass. Trunk Light 76 “TRUNK LT76” from Core J10 Pin 14 **76**
- 18 Ga. OR/WH Pass. Trunk Light 78 “TRUNK LT78” from Core J10 Pin 16 **78**
- 18 Ga. BK Pass. Trunk Ground “LT 76 GND” from Ground Assembly

REAR VERTEX LIGHTS

- 18 Ga. BL Driver Rear Vertex Light 69 “R VTX LT69” from CEM16 J6 Pin 3 **69**
- 18 Ga. BL Driver Rear Vertex Light 71 “R VTX LT71” from CEM16 J6 Pin 5 **71**
- 18 Ga. BL Driver Rear Vertex Light 73 “R VTX LT73” from CEM16 J6 Pin 7 **73**
- 18 Ga. BK Driver Rear Vertex Ground “LT 69 GND” from Ground Assembly
- 18 Ga. BL Pass. Rear Vertex Light 70 “R VTX LT70” from CEM16 J6 Pin 4 **70**
- 18 Ga. BL Pass. Rear Vertex Light 72 “R VTX LT72” from CEM16 J6 Pin 6 **72**
- 18 Ga. BL Pass. Rear Vertex Light 74 “R VTX LT74” from CEM16 J6 Pin 8 **74**
- 18 Ga. BK Pass. Rear Vertex Ground “LT 70 GND” from Ground Assembly

REAR GROUND

- 10 Ga. BK Rear Ground “REAR GND” to Ground Assembly

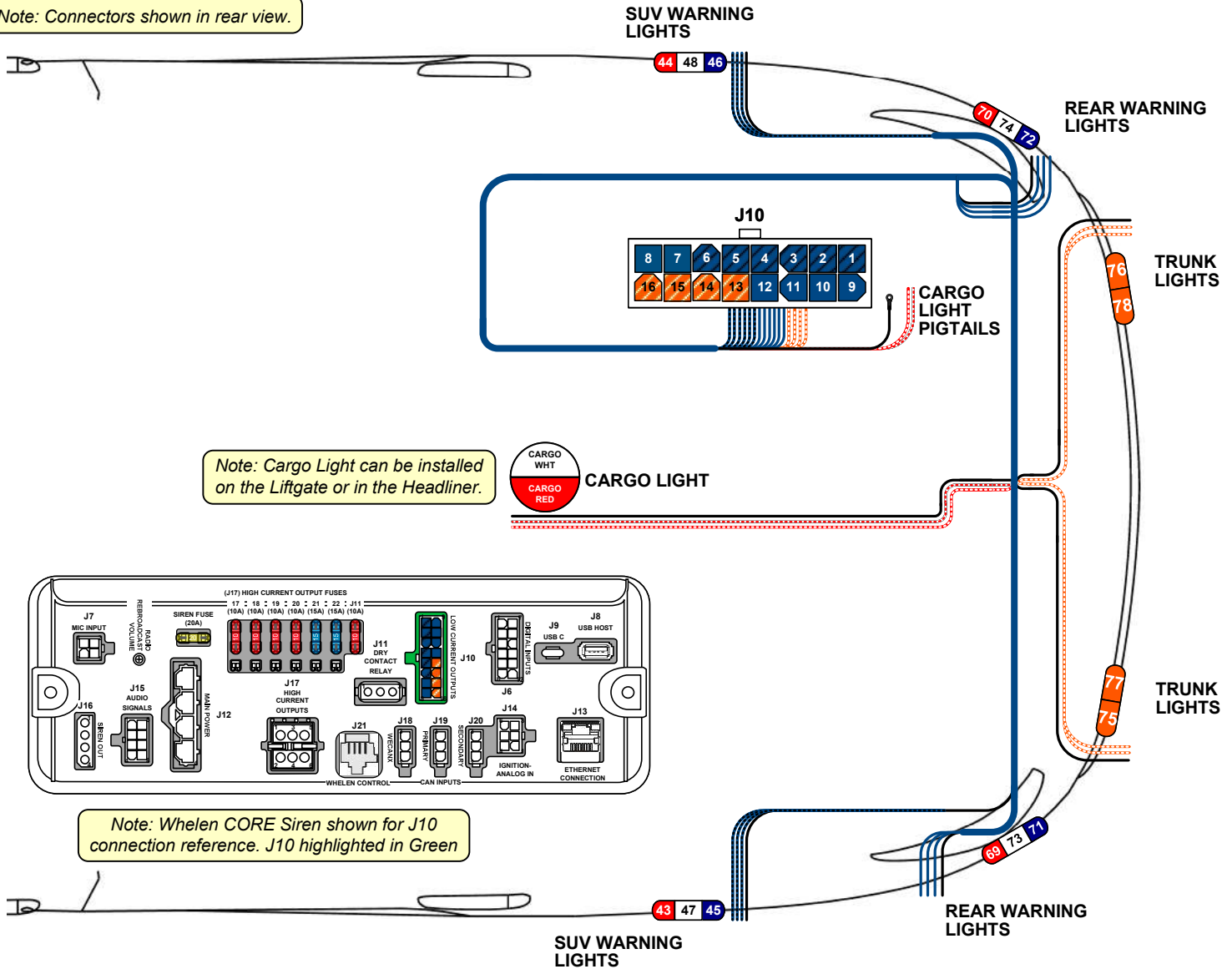
CARGO LIGHT

- 18 Ga. RD/WH Cargo Light Red “CAR LT RED” from Switch
- 18 Ga. WH/RD Cargo Light White “CAR LT WHT” from Switch
- 18 Ga. BK Cargo Light Ground “CARGO GND” from Ground Assembly

CARGO LIGHT SWITCH

- 18 Ga. WH Cargo Switch Power “SW PWR” from Rear Tray
- 18 Ga. BK Cargo Switch Ground “SW GND” from Ground Assembly
- 18 Ga. RD/WH Cargo Light Red “CAR LT RED” to Rear Headliner
- 18 Ga. WH/RD Cargo Light White “CAR LT WHT” to Rear Headliner

Note: Connectors shown in rear view.



REAR LIGHTING:

CARGO LIGHT

- 18 Ga. RD/WH Cargo Light Red "CAR LT RD" Pigtail 20"
- 18 Ga. WH/RD Cargo Light White "CAR LT WHT" Pigtail 20"
- 18 Ga. BK Cargo Light Ground "CARGO GND" to Ground Assembly

J10 – SUV WARNING LIGHTS

- 18 Ga. BL/BK Driver SUV Light "SUV LT 43" from J10 Pin 1
- 18 Ga. BL/BK Pass. SUV Light "SUV LT 44" from J10 Pin 2
- 18 Ga. BL/BK Driver SUV Light "SUV LT 45" from J10 Pin 3
- 18 Ga. BL/BK Pass. SUV Light "SUV LT 46" from J10 Pin 4
- 18 Ga. BL/BK Driver SUV Light "SUV LT 47" from J10 Pin 5
- 18 Ga. BL/BK Pass. SUV Light "SUV LT 48" from J10 Pin 6
- 18 Ga. BK Driver SUV Light Ground "LT 43 GND" from Ground Assembly
- 18 Ga. BK Pass. SUV Light Ground "LT 44 GND" from Ground Assembly

J10 – REAR WARNING LIGHTS

- 18 Ga. BL Driver Rear Light "RER W LT 69" from J10 Pin 7
- 18 Ga. BL Pass. Rear Light "RER W LT 70" from J10 Pin 8
- 18 Ga. BL Driver Rear Light "RER W LT 71" from J10 Pin 9
- 18 Ga. BL Pass. Rear Light "RER W LT 72" from J10 Pin 10
- 18 Ga. BL Driver Rear Light "RER W LT 73" from J10 Pin 11
- 18 Ga. BL Pass. Rear Light "RER W LT 74" from J10 Pin 12
- 18 Ga. BK Driver Rear Light Ground "LT 69 GND" from Ground Assembly
- 18 Ga. BK Pass. Rear Light Ground "LT 70 GND" from Ground Assembly

J10 – TRUNK LIGHTS

- 18 Ga. OR/WH Driver Trunk Light "TRUNK LT 75" from J10 Pin 13
- 18 Ga. OR/WH Pass. Trunk Light "TRUNK LT 76" from J10 Pin 14
- 18 Ga. OR/WH Driver Trunk Light "TRUNK LT 77" from J10 Pin 15
- 18 Ga. OR/WH Pass. Trunk Light "TRUNK LT 78" from J10 Pin 16
- 18 Ga. BK Driver Trunk Light Ground "LT 75 GND" from Ground Assembly
- 18 Ga. BK Pass. Trunk Light Ground "LT 76 GND" from Ground Assembly

REAR POWER CIRCUITS:

When purchasing a PPWC option with your harnesses consider adding a Console Power Harness and a 12-WCSP-28 Whelen Power Harness to use with a P18-Flex Fuse Panel to supply power to the Whelen CORE and your console equipment.

TECHNICAL SUPPORT & SALES CONTACT:

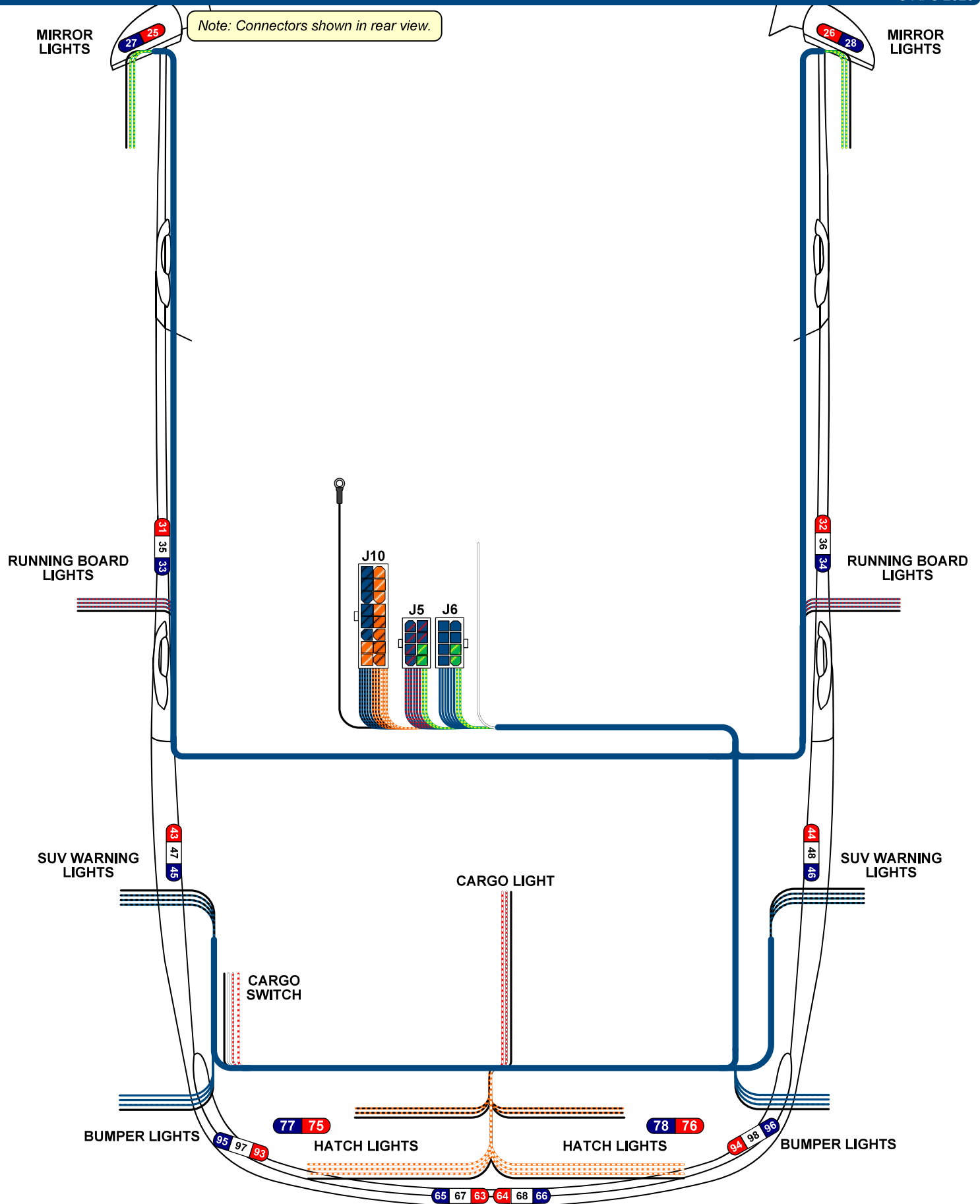
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 010621

ECN 000000



PRODUCTS SHOWN ON LAYOUT:

Main Harness:
Front Harness:
Rear Harness: RLH34-C-WCX
Battery Cable:

TECHNICAL SUPPORT & SALES CONTACT:**Phone: 844-423-7200****Email: sales@allfleetsolutions.com****Web: www.allfleetsolutions.com**

EDD 111424

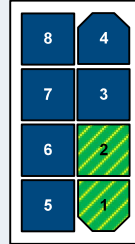
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LIGHT & SIREN CONTROLLER:**J10 – LOW CURRENT OUTPUTS**

- Pin 1 Output 1 (2A) – 18 Ga. BL/BK “SUV LT 43”
- Pin 2 Output 2 (2A) – 18 Ga. BL/BK “SUV LT 44”
- Pin 3 Output 3 (2A) – 18 Ga. BL/BK “SUV LT 45”
- Pin 4 Output 4 (2A) – 18 Ga. BL/BK “SUV LT 46”
- Pin 5 Output 5 (2A) – 18 Ga. BL/BK “SUV LT 47”
- Pin 6 Output 6 (2A) – 18 Ga. BL/BK “SUV LT 48”
- Pin 7 Output 7 (2A) – 18 Ga. OR/WH “TAG LT 63”
- Pin 8 Output 8 (2A) – 18 Ga. OR/WH “TAG LT 64”
- Pin 9 Output 9 (2A) – 18 Ga. OR/WH “TAG LT 65”
- Pin 10 Output 10 (2A) – 18 Ga. OR/WH “TAG LT 66”
- Pin 11 Output 11 (2A) – 18 Ga. OR/WH “TAG LT 67”
- Pin 12 Output 12 (2A) – 18 Ga. OR/WH “TAG LT 68”
- Pin 13 Output 13 (2A) – 18 Ga. OR/BK “HATCH LT75”
- Pin 14 Output 14 (2A) – 18 Ga. OR/BK “HATCH LT76”
- Pin 15 Output 15 (2A) – 18 Ga. OR/BK “HATCH LT77”
- Pin 16 Output 16 (2A) – 18 Ga. OR/BK “HATCH LT78”

**J-5 – OUTPUTS 1 thru 8 FROM CEM16**

- Pin 1 Output 1 (2.5A) – 18 Ga. BL/RD “RUN B LT31”
- Pin 2 Output 2 (2.5A) – 18 Ga. BL/RD “RUN B LT32”
- Pin 3 Output 3 (2.5A) – 18 Ga. BL/RD “RUN B LT33”
- Pin 4 Output 4 (2.5A) – 18 Ga. BL/RD “RUN B LT34”
- Pin 5 Output 5 (2.5A) – 18 Ga. BL/RD “RUN B LT35”
- Pin 6 Output 6 (2.5A) – 18 Ga. BL/RD “RUN B LT36”
- Pin 7 Output 7 (2.5A) – 18 Ga. GN/YW “MIR LT 25”
- Pin 8 Output 8 (2.5A) – 18 Ga. GN/YW “MIR LT 26”

**J-6 – OUTPUTS 9 thru 16 FROM CEM16**

- Pin 1 Output 9 (2.5A) – 18 Ga. GN/YW “MIR LT 27”
- Pin 2 Output 10 (2.5A) – 18 Ga. GN/YW “MIR LT 28”
- Pin 3 Output 11 (2.5A) – 18 Ga. BL “BUMPR LT93”
- Pin 4 Output 12 (2.5A) – 18 Ga. BL “BUMPR LT94”
- Pin 5 Output 13 (2.5A) – 18 Ga. BL “BUMPR LT95”
- Pin 6 Output 14 (2.5A) – 18 Ga. BL “BUMPR LT96”
- Pin 7 Output 15 (2.5A) – 18 Ga. BL “BUMPR LT97”
- Pin 8 Output 16 (2.5A) – 18 Ga. BL “BUMPR LT98”

MID LIGHTING:**MIRROR LIGHTS**

- 18 Ga. GN/YW Driver Mirror Light 25 “MIR LT 25” from CEM16 J5 Pin 7 **25**
- 18 Ga. GN/YW Driver Mirror Light 27 “MIR LT 27” from CEM16 J6 Pin 1 **27**
- 18 Ga. BK Driver Mirror Lights Ground “LT 25 GND” from Ground Assembly
- 18 Ga. GN/YW Pass. Mirror Light 26 “MIR LT 26” from CEM16 J5 Pin 8 **26**
- 18 Ga. GN/YW Pass. Mirror Light 28 “MIR LT 28” from CEM16 J6 Pin 2 **28**
- 18 Ga. BK Pass. Mirror Lights Ground “LT 26 GND” from Ground Assembly

RUNNING BOARD LIGHTS

- 18 Ga. BL/RD Driver Running Board Light 31 “RUN B LT31” from CEM16 J5 Pin 1 **31**
- 18 Ga. BL/RD Driver Running Board Light 33 “RUN B LT33” from CEM16 J5 Pin 3 **33**
- 18 Ga. BL/RD Driver Running Board Light 35 “RUN B LT35” from CEM16 J5 Pin 5 **35**
- 18 Ga. BK Driver Run. Board Light Ground “LT 31 GND” from Ground Assembly
- 18 Ga. BL/RD Pass. Running Board Light 32 “RUN B LT32” from CEM16 J5 Pin 2 **32**
- 18 Ga. BL/RD Pass. Running Board Light 34 “RUN B LT34” from CEM16 J5 Pin 4 **34**
- 18 Ga. BL/RD Pass. Running Board Light 36 “RUN B LT36” from CEM16 J5 Pin 6 **36**
- 18 Ga. BK Pass. Run. Board Light Ground “LT 32 GND” from Ground Assembly

REAR LIGHTING:**SUV/SIDE WARNING LIGHTS**

- 18 Ga. BL/BK Driver SUV Warn Light 43 “SUV LT 43” from Core J10 Pin 1 **43**
- 18 Ga. BL/BK Driver SUV Warn Light 45 “SUV LT 45” from Core J10 Pin 3 **45**
- 18 Ga. BL/BK Driver SUV Warn Light 47 “SUV LT 47” from Core J10 Pin 5 **47**
- 18 Ga. BK Driver SUV Warning Ground “LT 43 GND” from Ground Assembly
- 18 Ga. BL/BK Pass. SUV Warn Light 44 “SUV LT 44” from Core J10 Pin 2 **44**
- 18 Ga. BL/BK Pass. SUV Warn Light 46 “SUV LT 46” from Core J10 Pin 4 **46**
- 18 Ga. BL/BK Pass. SUV Warn Light 48 “SUV LT 48” from Core J10 Pin 6 **48**
- 18 Ga. BK Pass. SUV Warning Ground “LT 44 GND” from Ground Assembly

HATCH LIGHTS

- 18 Ga. OR/BK Driver Hatch Light 75 “HATCH LT75” from Core J10 Pin 13 **75**
- 18 Ga. OR/BK Driver Hatch Light 77 “HATCH LT77” from Core J10 Pin 15 **77**
- 18 Ga. BK Driver Hatch Ground “LT 75 GND” from Ground Assembly
- 18 Ga. OR/BK Pass. Hatch Light 76 “HATCH LT76” from Core J10 Pin 14 **76**
- 18 Ga. OR/BK Pass. Hatch Light 78 “HATCH LT78” from Core J10 Pin 16 **78**
- 18 Ga. BK Pass. Hatch Ground “LT 76 GND” from Ground Assembly

TAG LIGHTS

- 18 Ga. OR/WH Driver Tag Light 63 “TAG LT 63” from Core J10 Pin 7 **63**
- 18 Ga. OR/WH Driver Tag Light 65 “TAG LT 65” from Core J10 Pin 9 **65**
- 18 Ga. OR/WH Driver Tag Light 67 “TAG LT 67” from Core J10 Pin 11 **67**
- 18 Ga. BK Driver Tag Ground “LT 63 GND” from Ground Assembly
- 18 Ga. OR/WH Pass. Tag Light 64 “TAG LT 64” from Core J10 Pin 8 **64**
- 18 Ga. OR/WH Pass. Tag Light 66 “TAG LT 66” from Core J10 Pin 10 **66**
- 18 Ga. OR/WH Driver Tag Light 68 “TAG LT 68” from Core J10 Pin 12 **68**
- 18 Ga. BK Pass. Tag Ground “LT 64 GND” from Ground Assembly

BUMPER LIGHTS

- 18 Ga. BL Driver Rear Bumper Light 93 “BUMPR LT93” from CEM16 J6 Pin 3 **93**
- 18 Ga. BL Driver Rear Bumper Light 95 “BUMPR LT95” from CEM16 J6 Pin 5 **95**
- 18 Ga. BL Driver Rear Bumper Light 97 “BUMPR LT97” from CEM16 J6 Pin 7 **97**
- 18 Ga. BK Driver Rear Bumper Ground “LT 93 GND” from Ground Assembly
- 18 Ga. BL Pass. Rear Bumper Light 94 “BUMPR LT94” from CEM16 J6 Pin 4 **94**
- 18 Ga. BL Pass. Rear Bumper Light 96 “BUMPR LT96” from CEM16 J6 Pin 6 **96**
- 18 Ga. BL Pass. Rear Bumper Light 98 “BUMPR LT98” from CEM16 J6 Pin 8 **98**
- 18 Ga. BK Pass. Rear Bumper Ground “LT 94 GND” from Ground Assembly

REAR GROUND

- 10 Ga. BK Rear Ground “REAR GND” to Ground Assembly

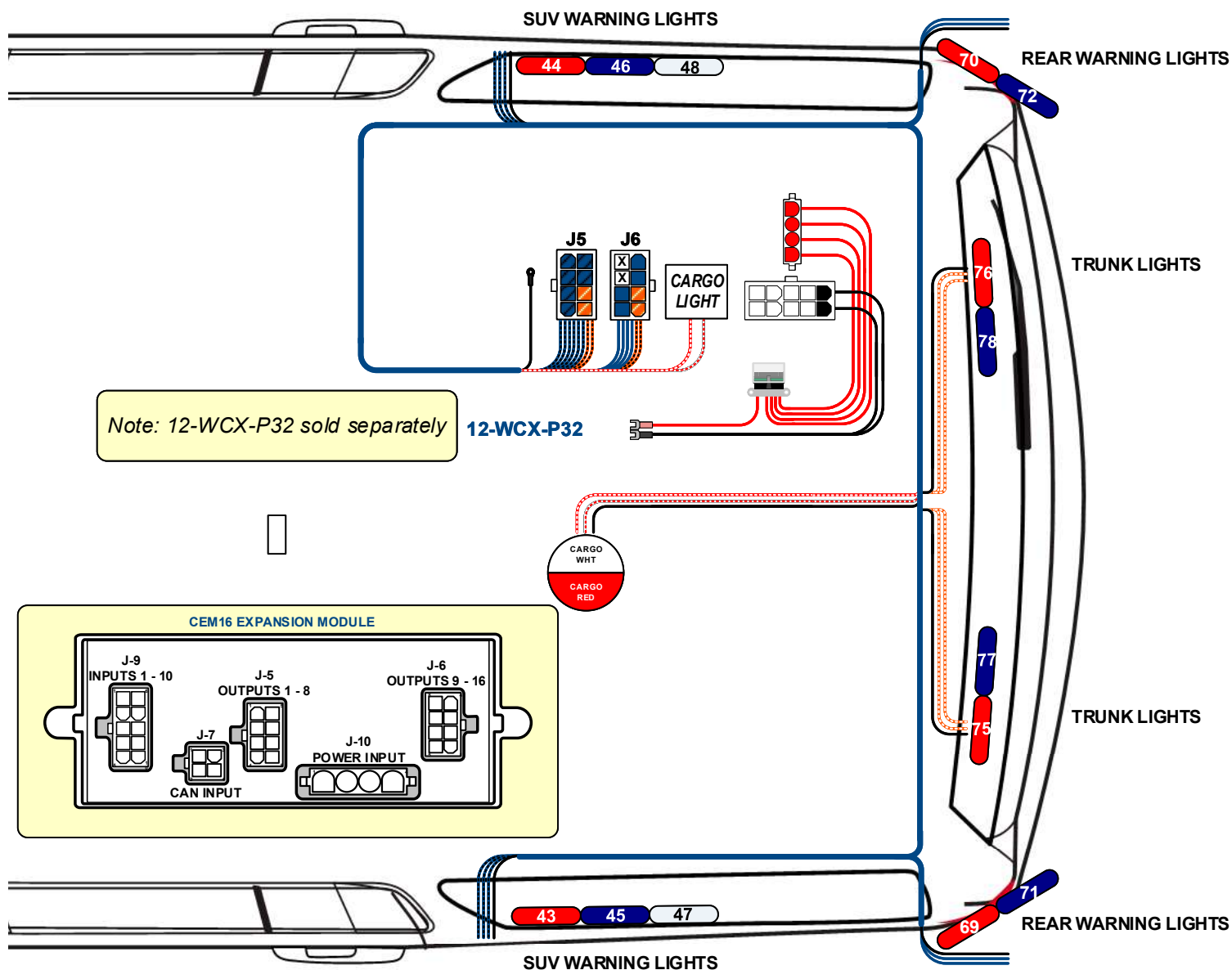
CARGO LIGHT

- 18 Ga. RD/WH Cargo Light Red “CAR LT RED” from Switch
- 18 Ga. WH/RD Cargo Light White “CAR LT WHT” from Switch
- 18 Ga. BK Cargo Light Ground “CARGO GND” from Ground Assembly

CARGO LIGHT SWITCH

- 18 Ga. WH Cargo Switch Power “SW PWR” from Rear Tray
- 18 Ga. BK Cargo Switch Ground “SW GND” from Ground Assembly
- 18 Ga. RD/WH Cargo Light Red “CAR LT RED” to Rear Headliner
- 18 Ga. WH/RD Cargo Light White “CAR LT WHT” to Rear Headliner

Note: Connectors shown in rear view.



REAR LIGHTING:

SUV WARNING LIGHTS

- 18 Ga. BL/BK Driver SUV Light "SUV LT 43" to CEM16 J5 Pin 1
- 18 Ga. BL/BK Driver SUV Light "SUV LT 45" to CEM16 J5 Pin 3
- 18 Ga. BL/BK Driver SUV Light "SUV LT 47" to CEM16 J5 Pin 5
- 18 Ga. BK Driver SUV Lights Ground "LT 43 GND" to Ground Assembly
- 18 Ga. BL/BK Pass. SUV Light "SUV LT 44" to CEM16 J5 Pin 2
- 18 Ga. BL/BK Pass. SUV Light "SUV LT 46" to CEM16 J5 Pin 4
- 18 Ga. BL/BK Pass. SUV Light "SUV LT 48" to CEM16 J5 Pin 6
- 18 Ga. BK Pass. SUV Lights Ground "LT 44 GND" to Ground Assembly

TRUNK LIGHTS

- 18 Ga. OR/WH Driver Trunk Light "TRUNK LT75" to CEM16 J5 Pin 7
- 18 Ga. OR/WH Driver Trunk Light "TRUNK LT77" to CEM16 J6 Pin 1
- 18 Ga. BK Driver Trunk Lights Ground "LT 75 GND" to Ground Assembly
- 18 Ga. OR/WH Pass. Trunk Light "TRUNK LT76" to CEM16 J5 Pin 8
- 18 Ga. OR/WH Pass. Trunk Light "TRUNK LT78" to CEM16 J6 Pin 2
- 18 Ga. BK Pass. Trunk Lights Ground "LT 76 GND" to Ground Assembly

REAR WARNING LIGHTS

- 18 Ga. BL Driver Rear Light "RER W LT 69" to CEM16 J6 Pin 3
- 18 Ga. BL Driver Rear Light "RER W LT 71" to CEM16 J6 Pin 5
- 18 Ga. BK Driver Rear Lights Ground "LT 69 GND" to Ground Assembly
- 18 Ga. BL Pass. Rear Light "RER W LT 70" to CEM16 J6 Pin 4
- 18 Ga. BL Pass. Rear Light "RER W LT 72" to CEM16 J6 Pin 6
- 18 Ga. BK Pass. Rear Lights Ground "LT 70 GND" to Ground Assembly

CARGO LIGHT

- 18 Ga. RD/WH Cargo Light Red "CAR LT RED" Pigtail 20"
- 18 Ga. WH/RD Cargo Light White "CAR LT WHT" Pigtail 20"
- 18 Ga. BK Cargo Light Ground "CARGO GND" to Ground Assembly

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

Email: sales@allfleetsolutions.com

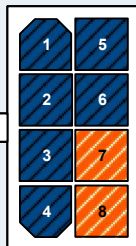
Web: www.allfleetsolutions.com

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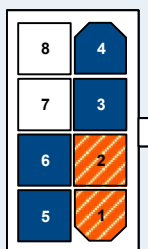
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PRODUCTS SHOWN ON LAYOUT:Rear Lighting Harness: RLH35-C-WCX
CEM16 Power: 12-WCX-P32

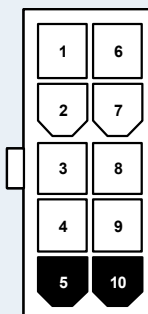
All Products Included in Kit.

**J-5 – OUTPUTS 1 thru 8 FROM CEM16**

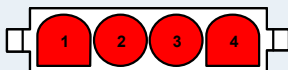
- Pin 1 Output 1 (2.5A) – 18 Ga. BL/BK Driver SUV Warning Light 43 "SUV LT 43" **43**
- Pin 2 Output 2 (2.5A) – 18 Ga. BL/BK Pass. SUV Warning Light 44 "SUV LT 44" **44**
- Pin 3 Output 3 (2.5A) – 18 Ga. BL/BK Driver SUV Warning Light 45 "SUV LT 45" **45**
- Pin 4 Output 4 (2.5A) – 18 Ga. BL/BK Pass. SUV Warning Light 46 "SUV LT 46" **46**
- Pin 5 Output 5 (2.5A) – 18 Ga. BL/BK Driver SUV Warning Light 47 "SUV LT 47" **47**
- Pin 6 Output 6 (2.5A) – 18 Ga. BL/BK Pass. SUV Warning Light 48 "SUV LT 48" **48**
- Pin 7 Output 7 (2.5A) – 18 Ga. OR/WH Driver Trunk Light 75 "TRUNK LT75" **75**
- Pin 8 Output 8 (2.5A) – 18 Ga. OR/WH Pass. Trunk Light 76 "TRUNK LT76" **76**

**J-6 – OUTPUTS 9 thru 16 FROM CEM16**

- Pin 1 Output 9 (2.5A) – 18 Ga. OR/WH Driver Trunk Light 77 "TRUNK LT77" **77**
- Pin 2 Output 10 (2.5A) – 18 Ga. OR/WH Pass. Trunk Light 78 "TRUNK LT78" **78**
- Pin 3 Output 11 (2.5A) – 18 Ga. BL Driver Rear Light 69 "RER W LT 69" **69**
- Pin 4 Output 12 (2.5A) – 18 Ga. BL Pass. Rear Light 70 "RER W LT 70" **70**
- Pin 5 Output 13 (2.5A) – 18 Ga. BL Driver Rear Light 71 "RER W LT 71" **71**
- Pin 6 Output 14 (2.5A) – 18 Ga. BL Pass. Rear Light 72 "RER W LT 72" **72**
- Pin 7 Output 15 (2.5A) – _____
- Pin 8 Output 16 (2.5A) – _____

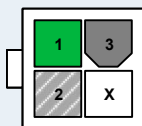
**J-9 – INPUTS 1 thru 10 TO CEM16**

- Pin 1 Input 1 Ground (–) – _____
- Pin 2 Input 2 Ground (–) – _____
- Pin 3 Input 3 Ground (–) – _____
- Pin 4 Input 4 Ground (–) – _____
- Pin 5 Main Ground Input – 16 Ga. BK CEM16 Ground "J9 5 GND" from 12-WCX-P32
- Pin 6 Input 1 Positive (+) – _____
- Pin 7 Input 2 Positive (+) – _____
- Pin 8 Input 3 Positive (+) – _____
- Pin 9 Input 4 Positive (+) – _____
- Pin 10 Main Ground Input – 16 Ga. BK CEM16 Ground "J9 10 GND" from 12-WCX-P32

**J-10 – POWER INPUT TO CEM16 FROM 12-WCX-P32**

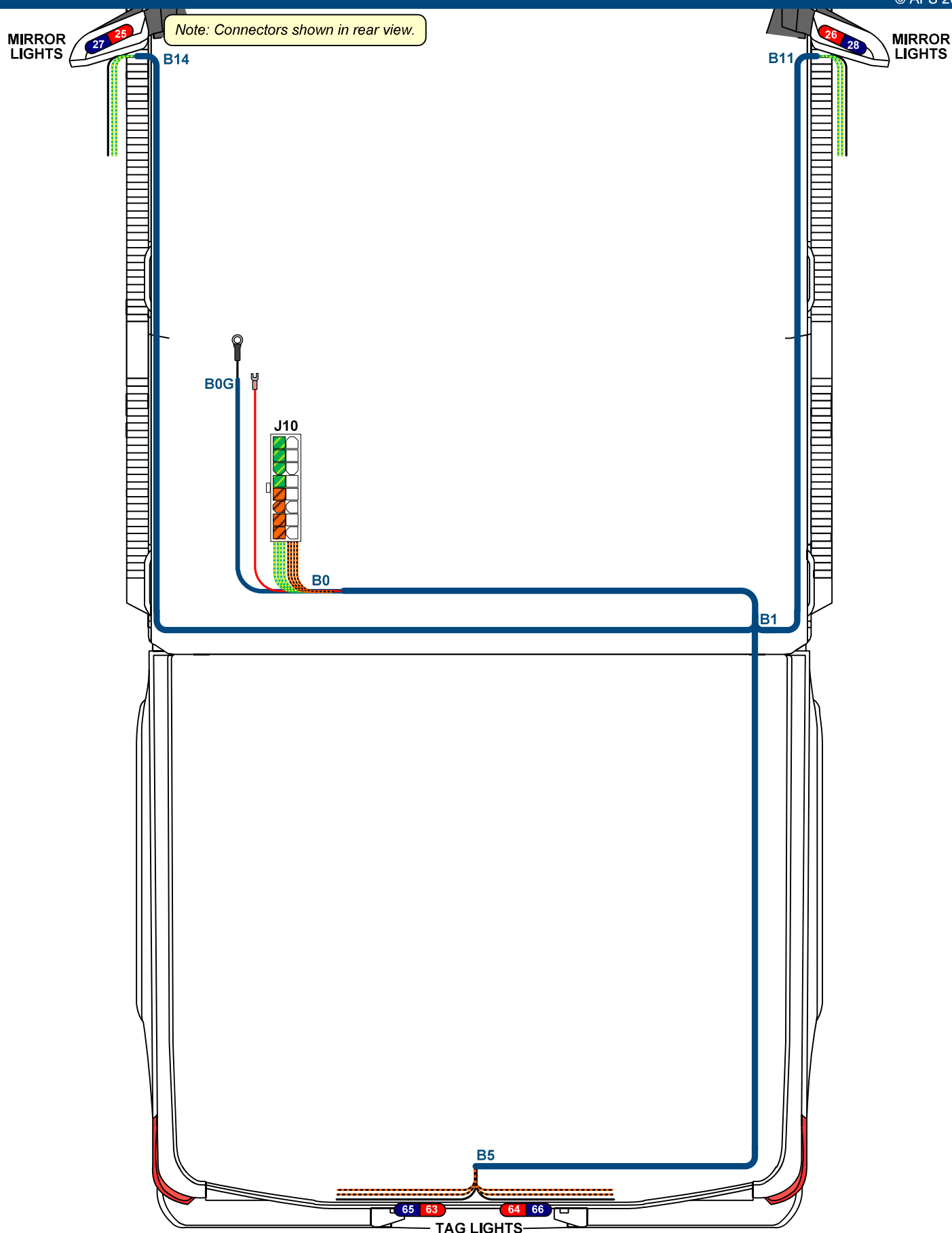
- Pin 1 Power Input 1 (10A) – 16 Ga. RD Power 1 (10A) "PWR 1" from Fuse Position 1
- Pin 2 Power Input 2 (10A) – 16 Ga. RD Power 2 (10A) "PWR 2" from Fuse Position 2
- Pin 3 Power Input 3 (10A) – 16 Ga. RD Power 3 (10A) "PWR 3" from Fuse Position 3
- Pin 4 Power Input 4 (10A) – 16 Ga. RD Power 4 (10A) "PWR 4" from Fuse Position 4

Note: See 12-WCX-P32 for detailed information on Power Distribution (J9 and J10 Connectors)

**J-7 – CAN INPUT TO CEM16 FROM 12-WCX-24 DATA HARNESS***

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Not Used – Plug

**Note: See 12-WCX-24 Data Harness Layout for detailed information on Data Distribution (J7 Connectors)*



PRODUCTS SHOWN ON LAYOUT:

Rear Harness: MW-TLHJ10

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

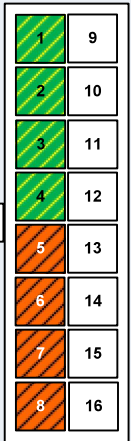
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 051425

ECN 000000

LIGHT & SIREN CONTROLLER:



J10 – LOW CURRENT OUTPUTS

- Pin 1 Output 1 (2A) – 18 Ga. GN/YW “LT 25”
- Pin 2 Output 2 (2A) – 18 Ga. GN/YW “LT 26”
- Pin 3 Output 3 (2A) – 18 Ga. GN/YW “LT 27”
- Pin 4 Output 4 (2A) – 18 Ga. GN/YW “LT 28”
- Pin 5 Output 5 (2A) – 18 Ga. OR/BK “LT 63”
- Pin 6 Output 6 (2A) – 18 Ga. OR/BK “LT 64”
- Pin 7 Output 7 (2A) – 18 Ga. OR/BK “LT 65”
- Pin 8 Output 8 (2A) – 18 Ga. OR/BK “LT 66”
- Pin 9 Output 9 (2A) –
- Pin 10 Output 10 (2A) –
- Pin 11 Output 11 (2A) –
- Pin 12 Output 12 (2A) –
- Pin 13 Output 13 (2A) –
- Pin 14 Output 14 (2A) –
- Pin 15 Output 15 (2A) –
- Pin 16 Output 16 (2A) –

MID LIGHTING:

MIRROR LIGHTS

- 18 Ga. GN/YW Driver Mirror Light 25 “LT 25” from Core J10 Pin 1
- 18 Ga. GN/YW Driver Mirror Light 27 “LT 27” from Core J10 Pin 3
- 18 Ga. BK Driver Mirror Lights Ground “LT 25 GND” from Ground Assembly
- 18 Ga. GN/YW Pass. Mirror Light 26 “LT 26” from Core J10 Pin 2
- 18 Ga. GN/YW Pass. Mirror Light 28 “LT 28” from Core J10 Pin 4
- 18 Ga. BK Pass. Mirror Lights Ground “LT 26 GND” from Ground Assembly



REAR LIGHTING:

REAR GROUND

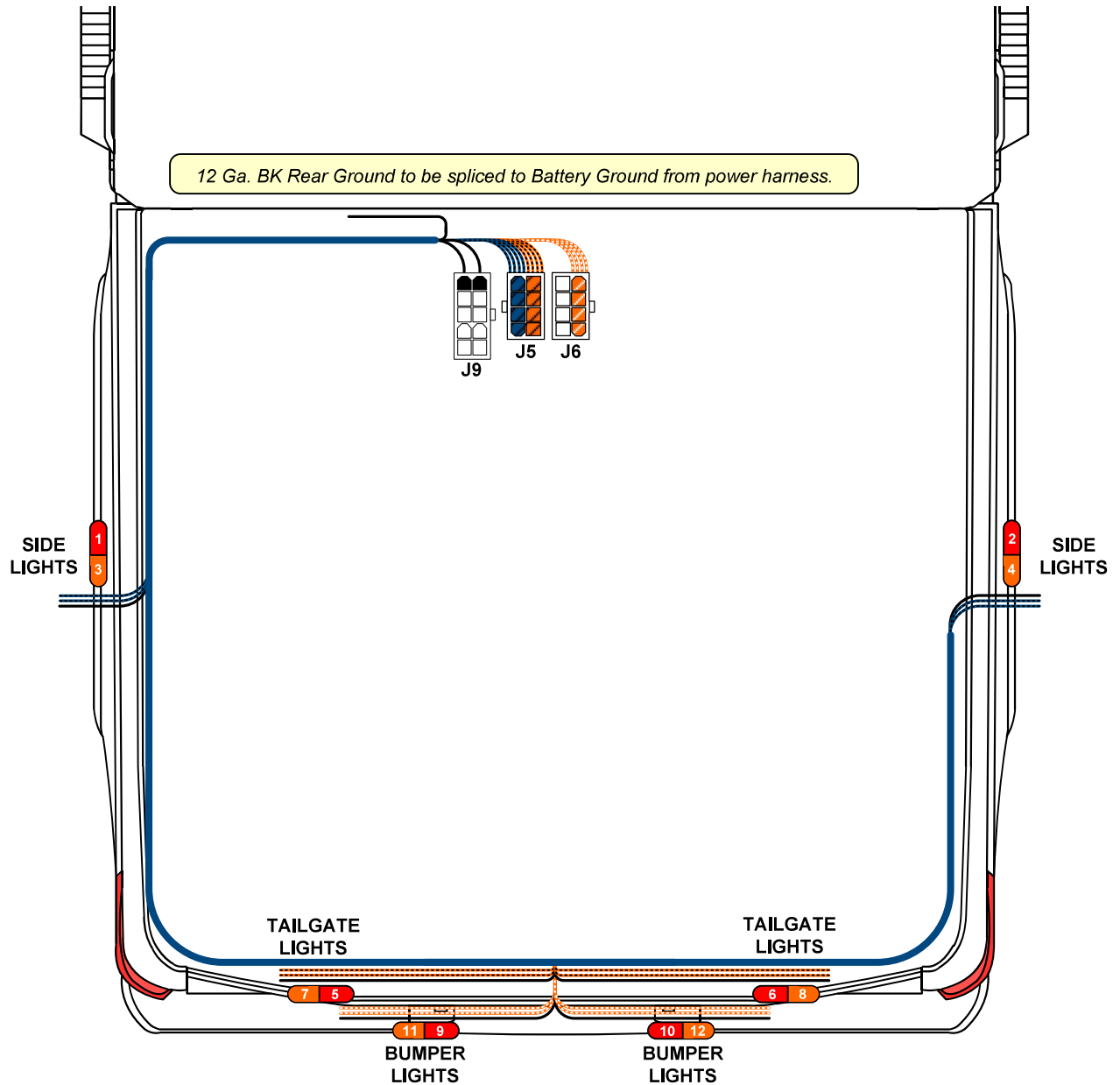
- 10 Ga. BK Rear Ground “REAR GND” to Ground Assembly

TAG LIGHTS

- 18 Ga. OR/BK Driver Tag Light 63 “LT 63” from Core J10 Pin 5
- 18 Ga. OR/BK Driver Tag Light 65 “LT 65” from Core J10 Pin 7
- 18 Ga. BK Driver Tag Lights Ground “LT 63 GND” from Ground Assembly
- 18 Ga. OR/BK Pass. Tag Light 64 “LT 64” from Core J10 Pin 6
- 18 Ga. OR/BK Pass. Tag Light 66 “LT 66” from Core J10 Pin 8
- 18 Ga. BK Pass. Tag Lights Ground “LT 64 GND” from Ground Assembly



Note: Connectors shown in rear view.



REAR LIGHTING:

SIDE LIGHTS

- 18 Ga. BL/BK Driver Side Light "X OUT 1" to CEM16 J5 Pin 1
- 18 Ga. BL/BK Driver Side Light "X OUT 3" to CEM16 J5 Pin 3
- 18 Ga. BK Driver Side Lights Ground "LT 1 GND" to Ground Assembly
- 18 Ga. BL/BK Pass. Side Light "X OUT 2" to CEM16 J5 Pin 2
- 18 Ga. BL/BK Pass. Side Light "X OUT 4" to CEM16 J5 Pin 4
- 18 Ga. BK Pass. Side Lights Ground "LT 2 GND" to Ground Assembly

TAILGATE LIGHTS

- 18 Ga. OR/BK Driver Tailgate Light "X OUT 5" to CEM16 J5 Pin 5
- 18 Ga. OR/BK Driver Tailgate Light "X OUT 7" to CEM16 J5 Pin 7
- 18 Ga. BK Driver Tailgate Lights Ground "LT 5 GND" to Ground Assembly
- 18 Ga. OR/BK Pass. Tailgate Light "X OUT 6" to CEM16 J5 Pin 6
- 18 Ga. OR/BK Pass. Tailgate Light "X OUT 8" to CEM16 J5 Pin 8
- 18 Ga. BK Pass. Tailgate Lights Ground "LT 6 GND" to Ground Assembly

BUMPER LIGHTS

- 18 Ga. OR/WH Driver Bumper Light "X OUT 9" to CEM16 J6 Pin 1
- 18 Ga. OR/WH Driver Bumper Light "X OUT 11" to CEM16 J6 Pin 3
- 18 Ga. BK Driver Bumper Lights Ground "LT 9 GND" to Ground Assembly
- 18 Ga. OR/WH Pass. Bumper Light "X OUT 10" to CEM16 J6 Pin 2
- 18 Ga. OR/WH Pass. Bumper Light "X OUT 12" to CEM16 J6 Pin 4
- 18 Ga. BK Pass. Bumper Lights Ground "LT 10 GND" to Ground Assembly

PRODUCTS SHOWN ON LAYOUT:

Rear Harness: MW-TLH12

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

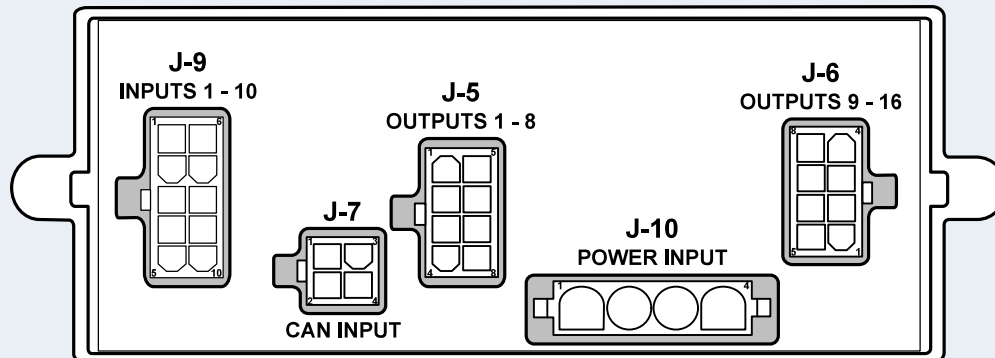
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 080823

ECN 000000

CEM16 EXPANSION MODULE



J-5 – OUTPUTS 1 thru 8 FROM CEM16

- Pin 1 Output 1 (2.5A) – 18 Ga. BL/BK Driver Side Light "X OUT 1"
- Pin 2 Output 2 (2.5A) – 18 Ga. BL/BK Pass. Side Light "X OUT 2"
- Pin 3 Output 3 (2.5A) – 18 Ga. BL/BK Driver Side Light "X OUT 3"
- Pin 4 Output 4 (2.5A) – 18 Ga. BL/BK Pass. Side Light "X OUT 4"
- Pin 5 Output 5 (2.5A) – 18 Ga. OR/BK Driver Tailgate Light "X OUT 5"
- Pin 6 Output 6 (2.5A) – 18 Ga. OR/BK Pass. Tailgate Light "X OUT 6"
- Pin 7 Output 7 (2.5A) – 18 Ga. OR/BK Driver Tailgate Light "X OUT 7"
- Pin 8 Output 8 (2.5A) – 18 Ga. OR/BK Pass. Tailgate Light "X OUT 8"



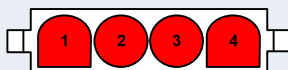
J-6 – OUTPUTS 9 thru 16 FROM CEM16

- Pin 1 Output 9 (2.5A) – 18 Ga. OR/WH Driver Bumper Light "X OUT 9"
- Pin 2 Output 10 (2.5A) – 18 Ga. OR/WH Pass. Bumper Light "X OUT 10"
- Pin 3 Output 11 (2.5A) – 18 Ga. OR/WH Driver Bumper Light "X OUT 11"
- Pin 4 Output 12 (2.5A) – 18 Ga. OR/WH Pass. Bumper Light "X OUT 12"
- Pin 5 Output 13 (2.5A) – _____
- Pin 6 Output 14 (2.5A) – _____
- Pin 7 Output 15 (2.5A) – _____
- Pin 8 Output 16 (2.5A) – _____



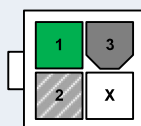
J-9 – INPUTS 1 thru 10 TO CEM16

- Pin 1 Input 1 Ground (–) – _____
- Pin 2 Input 2 Ground (–) – _____
- Pin 3 Input 3 Ground (–) – _____
- Pin 4 Input 4 Ground (–) – _____
- Pin 5 Main Ground Input – 16 Ga. BK CEM16 Ground "J9 5 GND" from Ground Assembly
- Pin 6 Input 1 Positive (+) – _____
- Pin 7 Input 2 Positive (+) – _____
- Pin 8 Input 3 Positive (+) – _____
- Pin 9 Input 4 Positive (+) – _____
- Pin 10 Main Ground Input – 16 Ga. BK CEM16 Ground "J9 10 GND" from Ground Assembly



J-10 – POWER INPUT TO CEM16 FROM BATTERY

- Pin 1 Power Input 1 (10A) – 16 Ga. RD Power 1 (10A) "PWR 1" from Fuse Position 1
- Pin 2 Power Input 2 (10A) – 16 Ga. RD Power 2 (10A) "PWR 2" from Fuse Position 2
- Pin 3 Power Input 3 (10A) – 16 Ga. RD Power 3 (10A) "PWR 3" from Fuse Position 3
- Pin 4 Power Input 4 (10A) – 16 Ga. RD Power 4 (10A) "PWR 4" from Fuse Position 4

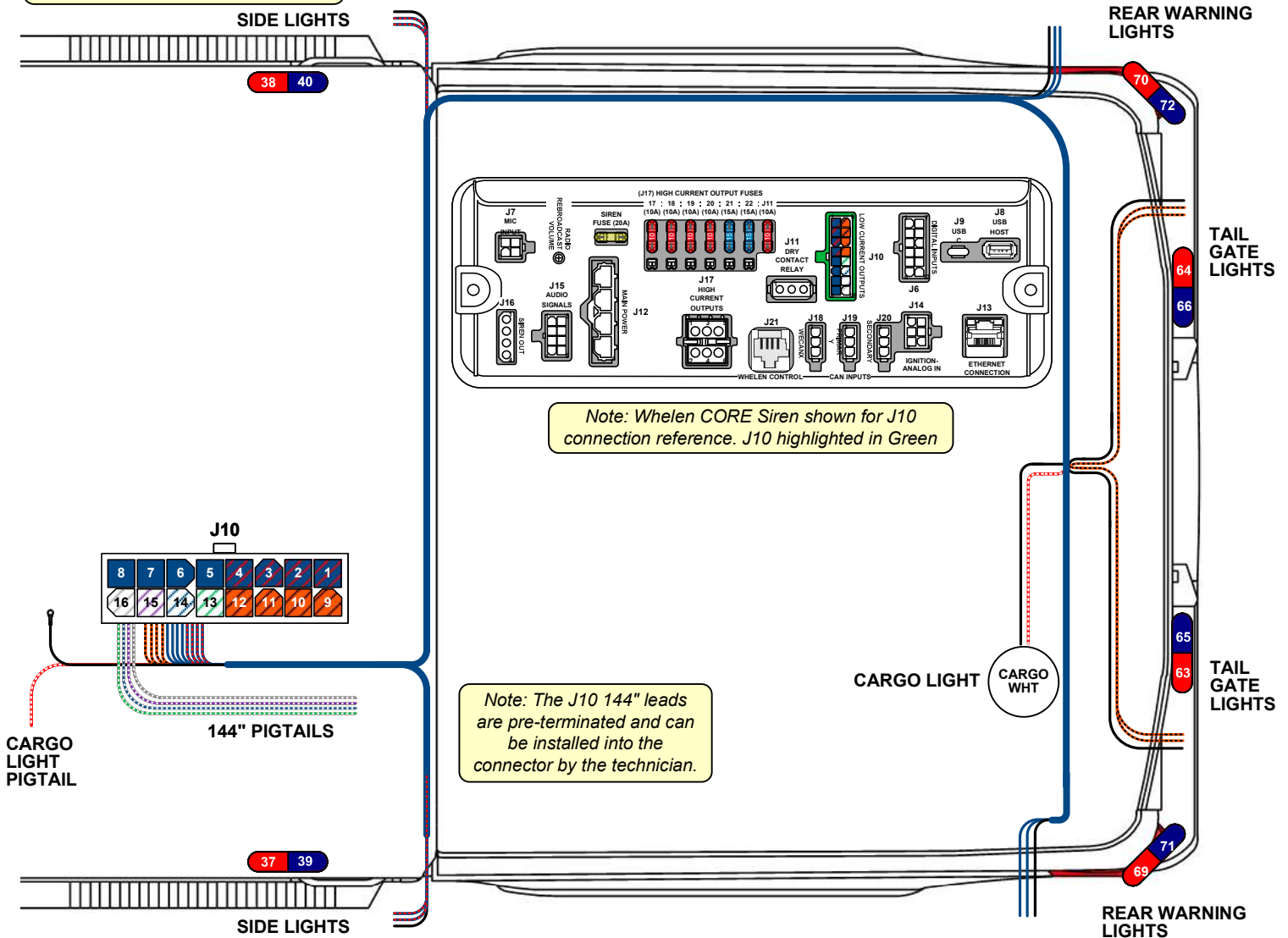


J-7 – CAN INPUT TO CEM16 FROM DATA HARNESS**

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Not Used – Plug

*Note: See Power Harness Layout, if applicable, for detailed information on Power Distribution (J9 and J10 Connectors)

Note: Connectors shown in rear view.



REAR LIGHTING:

J10 – SIDE LIGHTS

- 18 Ga. BL/RD Driver Side Light "RUN B LT 37" from J10 Pin 1
- 18 Ga. BL/BK Pass. Side Light "RUN B LT 38" from J10 Pin 2
- 18 Ga. BL/BK Driver Side Light "RUN B LT 39" from J10 Pin 3
- 18 Ga. BL/BK Pass. Side Light "RUN B LT 40" from J10 Pin 4
- 18 Ga. BK Driver Side Light Ground "LT 37 GND" from Ground Assembly
- 18 Ga. BK Pass. Side Light Ground "LT 38 GND" from Ground Assembly

J10 – REAR WARNING LIGHTS

- 18 Ga. BL Driver. Rear Light "RER W LT 69" from J10 Pin 5
- 18 Ga. BL Pass. Rear Light "RER W LT 70" from J10 Pin 6
- 18 Ga. BL Driver Rear Light "RER W LT 71" from J10 Pin 7
- 18 Ga. BL Pass. Rear Light "RER W LT 72" from J10 Pin 8
- 18 Ga. BK Driver Rear Light Ground "LT 69 GND" from Ground Assembly
- 18 Ga. BK Pass. Rear Light Ground "LT 70 GND" from Ground Assembly

J10 – TAIL GATE LIGHTS

- 18 Ga. OR/BK Driver Tail Gate Light "SILL LT 63" from J10 Pin 9
- 18 Ga. OR/BK Pass. Tail Gate Light "SILL LT 64" from J10 Pin 10
- 18 Ga. OR/BK Driver Tail Gate Light "SILL LT 65" from J10 Pin 11
- 18 Ga. OR/BK Pass. Tail Gate Light "SILL LT 66" from J10 Pin 12
- 18 Ga. BK Driver Tail Gate Light Ground "LT 63 GND" from Ground Assembly
- 18 Ga. BK Pass. Tail Gate Light Ground "LT 64 GND" from Ground Assembly

CARGO LIGHT

- 18 Ga. RD/WH Cargo Light Red "CAR LT RD" Pigtail 20"
- 18 Ga. BK Cargo Light Ground "CARGO GND" to Ground Assembly

J10 – CUSTOMER INSTALLED LEADS 144"

- 18 Ga. WH/GN J10 Pin 13 "J10 13" Customer Installed 144" Lead
- 18 Ga. WH/BL J10 Pin 14 "J10 14" Customer Installed 144" Lead
- 18 Ga. WH/PU J10 Pin 15 "J10 15" Customer Installed 144" Lead
- 18 Ga. WH/GY J10 Pin 16 "J10 16" Customer Installed 144" Lead

REAR POWER CIRCUITS:

When purchasing a PPWC option with your harnesses consider adding a Console Power Harness and a 12-WCSP-28 Whelen Power Harness to use with a P18-Flex Fuse Panel to supply power to the Whelen CORE and your console equipment.

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

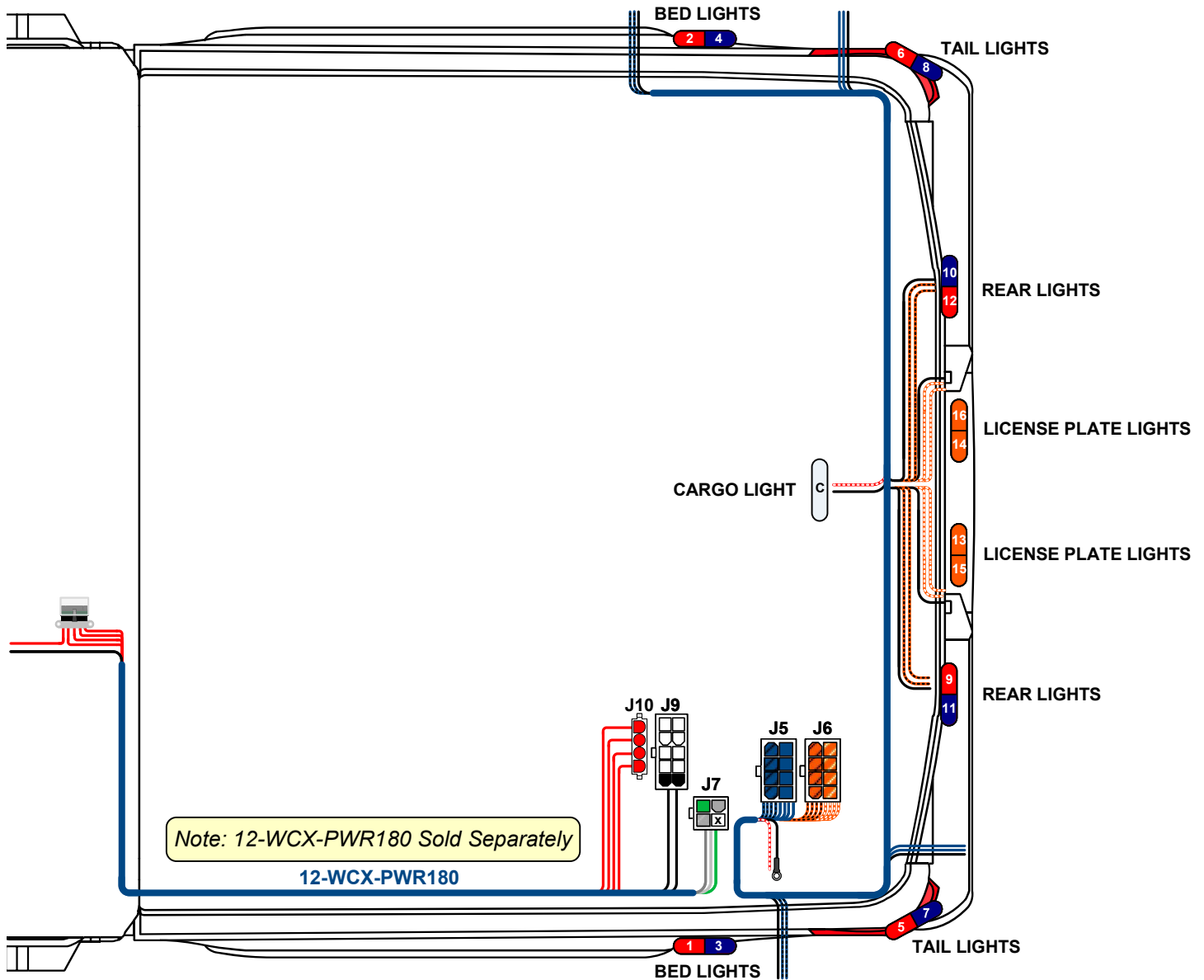
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 060921

ECN 000000

Note: Connectors shown in rear view.



REAR LIGHTING:

BED LIGHTS J5 – MW-TLH16-C

- 18 Ga. BL/BK Driver Bed Light "X OUT 1" to CEM16 J5 Pin 1
- 18 Ga. BL/BK Driver Bed Light "X OUT 3" to CEM16 J5 Pin 3
- 18 Ga. BK Driver Bed Light Ground "OUT 1 GND" to Ground Assembly
- 18 Ga. BL/BK Pass. Bed Light "X OUT 2" to CEM16 J5 Pin 2
- 18 Ga. BL/BK Pass. Bed Light "X OUT 4" to CEM16 J5 Pin 4
- 18 Ga. BK Pass. Bed Light Ground "OUT 2 GND" to Ground Assembly

REAR LIGHTS J6 – MW-TLH16-C

- 18 Ga. OR/BK Driver Rear Light "X OUT 9" to CEM16 J6 Pin 1
- 18 Ga. OR/BK Driver Rear Light "X OUT 11" to CEM16 J6 Pin 3
- 18 Ga. BK Driver Rear Light Ground "OUT 9 GND" to Ground Assembly
- 18 Ga. OR/BK Pass. Rear Light "X OUT 10" to CEM16 J6 Pin 2
- 18 Ga. OR/BK Pass. Rear Light "X OUT 12" to CEM16 J6 Pin 4
- 18 Ga. BK Pass. Rear Light Ground "OUT 10 GND" to Ground Assembly

TAIL LIGHTS J5 – MW-TLH16-C

- 18 Ga. BL Driver Tail Light "X OUT 5" to CEM16 J5 Pin 5
- 18 Ga. BL Driver Tail Light "X OUT 7" to CEM16 J5 Pin 7
- 18 Ga. BK Driver Tail Light Ground "OUT 5 GND" to Ground Assembly
- 18 Ga. BL Pass. Tail Light "X OUT 6" to CEM16 J5 Pin 6
- 18 Ga. BL Pass. Tail Light "X OUT 8" to CEM16 J5 Pin 8
- 18 Ga. BK Pass. Bed Light Ground "OUT 6 GND" to Ground Assembly

LICENSE PLATE LIGHTS J6 – MW-TLH16-C

- 18 Ga. OR/WH Driver LP Light "X OUT 13" to CEM16 J6 Pin 5
- 18 Ga. OR/WH Driver LP Light "X OUT 15" to CEM16 J6 Pin 7
- 18 Ga. BK Driver LP Light Ground "OUT 13 GND" to Ground Assembly
- 18 Ga. OR/WH Pass. LP Light "X OUT 14" to CEM16 J6 Pin 6
- 18 Ga. OR/WH Pass. LP Light "X OUT 16" to CEM16 J6 Pin 8
- 18 Ga. BK Pass. LP Light Ground "OUT 14 GND" to Ground Assembly

CARGO LIGHT – MW-TLH16-C

- 18 Ga. RD/WH Cargo Light "CARGO LT"
- 18 Ga. BK Cargo Light Ground "CARGO GND" to Ground Assembly

PRODUCTS SHOWN ON LAYOUT:

Rear Lighting Harness: MW-TLH16-C
Rear Expansion Power: 12-WCX-PWR180

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

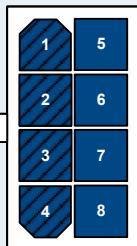
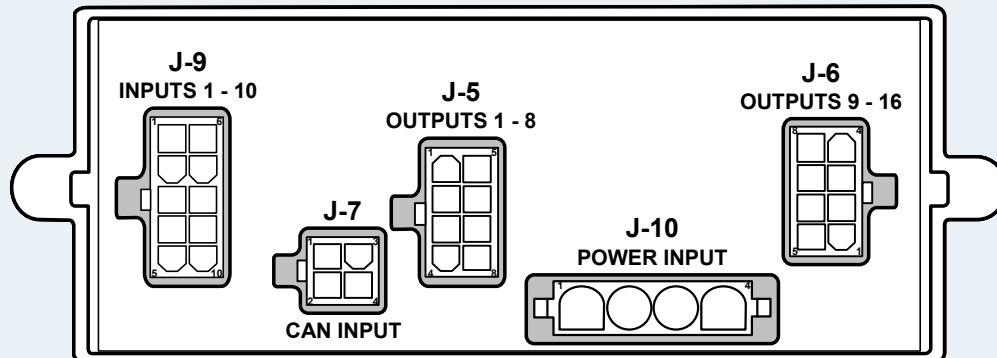
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 010621

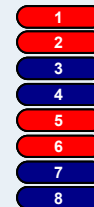
ECN 000000

CEM16 EXPANSION MODULE



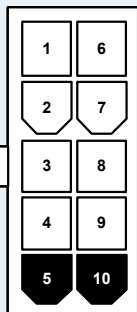
J-5 – OUTPUTS 1 thru 8 FROM CEM16

- Pin 1 Output 1 (2.5A) – 18 Ga. BL/BK Driver Bed Light "X OUT 1"
- Pin 2 Output 2 (2.5A) – 18 Ga. BL/BK Pass. Bed Light "X OUT 2"
- Pin 3 Output 3 (2.5A) – 18 Ga. BL/BK Driver Bed Light "X OUT 3"
- Pin 4 Output 4 (2.5A) – 18 Ga. BL/BK Pass. Bed Light "X OUT 4"
- Pin 5 Output 5 (2.5A) – 18 Ga. BL Driver Tail Light "X OUT 5"
- Pin 6 Output 6 (2.5A) – 18 Ga. BL Pass. Tail Light "X OUT 6"
- Pin 7 Output 7 (2.5A) – 18 Ga. BL Driver Tail Light "X OUT 7"
- Pin 8 Output 8 (2.5A) – 18 Ga. BL Pass. Tail Light "X OUT 8"



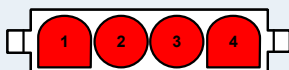
J-6 – OUTPUTS 9 thru 16 FROM CEM16

- Pin 1 Output 9 (2.5A) – 18 Ga. OR/BK Driver Rear Light "X OUT 9"
- Pin 2 Output 10 (2.5A) – 18 Ga. OR/BK Pass. Rear Light "X OUT 10"
- Pin 3 Output 11 (2.5A) – 18 Ga. OR/BK Driver Rear Light "X OUT 11"
- Pin 4 Output 12 (2.5A) – 18 Ga. OR/BK Pass. Rear Light "X OUT 12"
- Pin 5 Output 13 (2.5A) – 18 Ga. OR/WH Driver License Plate Light "X OUT 13"
- Pin 6 Output 14 (2.5A) – 18 Ga. OR/WH Pass. License Plate Light "X OUT 14"
- Pin 7 Output 15 (2.5A) – 18 Ga. OR/WH Driver License Plate Light "X OUT 15"
- Pin 8 Output 16 (2.5A) – 18 Ga. OR/WH Pass. License Plate Light "X OUT 16"



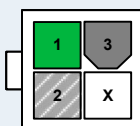
J-9 – INPUTS 1 thru 10 TO CEM16

- Pin 1 Input 1 Ground (–) –: _____
- Pin 2 Input 2 Ground (–) –: _____
- Pin 3 Input 3 Ground (–) –: _____
- Pin 4 Input 4 Ground (–) –: _____
- Pin 5 Main Ground Input – 16 Ga. BK CEM16 Ground "J9 5 GND" from 12-WCX-PWR180*
- Pin 6 Input 1 Positive (+) –: _____
- Pin 7 Input 2 Positive (+) –: _____
- Pin 8 Input 3 Positive (+) –: _____
- Pin 9 Input 4 Positive (+) –: _____
- Pin 10 Main Ground Input – 16 Ga. BK CEM16 Ground "J9 10 GND" from 12-WCX-PWR180*



J-10 – POWER INPUT TO CEM16 FROM 12-WCX-PWR180*

- Pin 1 Power Input 1 (10A) – 16 Ga. RD Power 1 (10A) "PWR 1" from Fuse Position 1
- Pin 2 Power Input 2 (10A) – 16 Ga. RD Power 2 (10A) "PWR 2" from Fuse Position 2
- Pin 3 Power Input 3 (10A) – 16 Ga. RD Power 3 (10A) "PWR 3" from Fuse Position 3
- Pin 4 Power Input 4 (10A) – 16 Ga. RD Power 4 (10A) "PWR 4" from Fuse Position 4



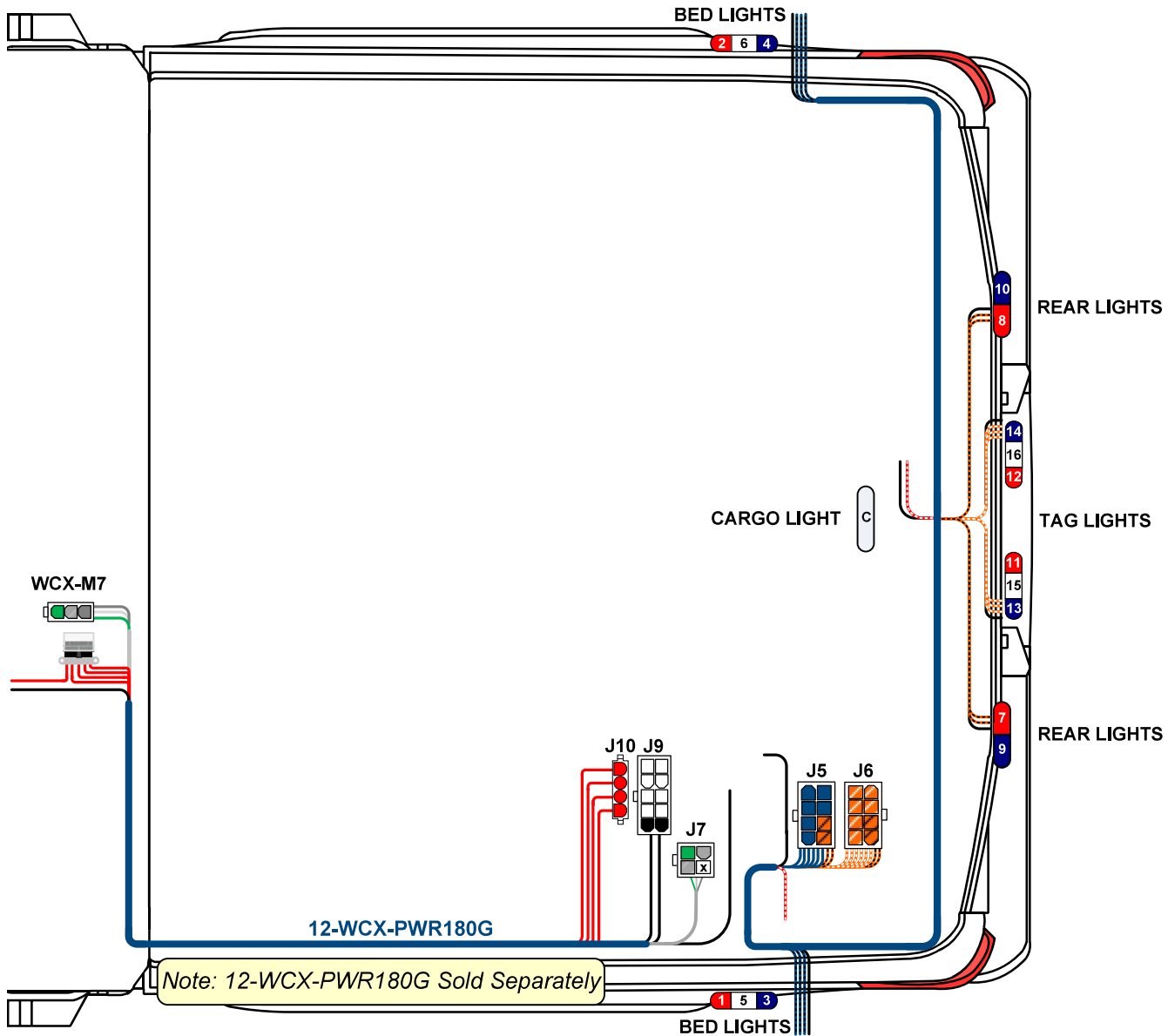
J-7 – CAN INPUT TO CEM16 FROM 12-WCX-PWR180*

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Not Used – Plug

**Note: See 12-WCX-PWR180 Layout, if applicable, for detailed information on Power Distribution (J9 and J10 Connectors)*

***Note: See Data Harness Layout, if applicable, for detailed information on Data Distribution (J7 Connectors)*

Note: Connectors shown in rear view.



REAR LIGHTING:

BED LIGHTS

- 18 Ga. BL/BK Driver Bed Light 1 "XO 1 L1" to CEM16 J5 Pin 1
- 18 Ga. BL/BK Driver Bed Light 3 "XO 3 L3" to CEM16 J5 Pin 3
- 18 Ga. BL/BK Driver Bed Light 5 "XO 5 L5" to CEM16 J5 Pin 5
- 18 Ga. BK Driver Bed Lights Ground "LT 1 GND" to Ground Assembly
- 18 Ga. BL/BK Pass. Bed Light 2 "XO 2 L2" to CEM16 J5 Pin 2
- 18 Ga. BL/BK Pass. Bed Light 4 "XO 4 L4" to CEM16 J5 Pin 4
- 18 Ga. BL/BK Pass. Bed Light 6 "XO 6 L6" to CEM16 J5 Pin 6
- 18 Ga. BK Pass. Bed Lights Ground "LT 2 GND" to Ground Assembly

REAR LIGHTS

- 18 Ga. OR/BK Driver Rear Light 7 "XO 7 L7" to CEM16 J5 Pin 7
- 18 Ga. OR/BK Driver Rear Light 9 "XO 9 L9" to CEM16 J6 Pin 1
- 18 Ga. BK Driver Rear Lights Ground "LT 7 GND" to Ground Assembly
- 18 Ga. OR/BK Pass. Rear Light 8 "XO 8 L8" to CEM16 J5 Pin 8
- 18 Ga. OR/BK Pass. Rear Light 10 "XO 10 L10" to CEM16 J6 Pin 2
- 18 Ga. BK Pass. Rear Lights Ground "LT 8 GND" to Ground Assembly

TAG LIGHTS

- 18 Ga. OR/WH Driver Tag Light 11 "XO 11 L11" to CEM16 J6 Pin 3
- 18 Ga. OR/WH Driver Tag Light 13 "XO 13 L13" to CEM16 J6 Pin 5
- 18 Ga. OR/WH Driver Tag Light 15 "XO 15 L15" to CEM16 J6 Pin 7
- 18 Ga. BK Driver Tag Lights Ground "LT 11 GND" to Ground Assembly
- 18 Ga. OR/WH Pass. Tag Light 12 "XO 12 L12" to CEM16 J6 Pin 4
- 18 Ga. OR/WH Pass. Tag Light 14 "XO 14 L14" to CEM16 J6 Pin 6
- 18 Ga. OR/WH Pass. Tag Light 16 "XO 16 L16" to CEM16 J6 Pin 8
- 18 Ga. BK Pass. Tag Lights Ground "LT 12 GND" to Ground Assembly

CARGO LIGHT

- 18 Ga. RD/WH Cargo Light "CARGO LT"
- 18 Ga. BK Cargo Light Ground "CARGO GND" to Ground Assembly

PRODUCTS SHOWN ON LAYOUT:

Rear Lighting Harness: MW-TLH-4T2D-C
Rear Expansion Power: 12-WCX-PWR180G

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

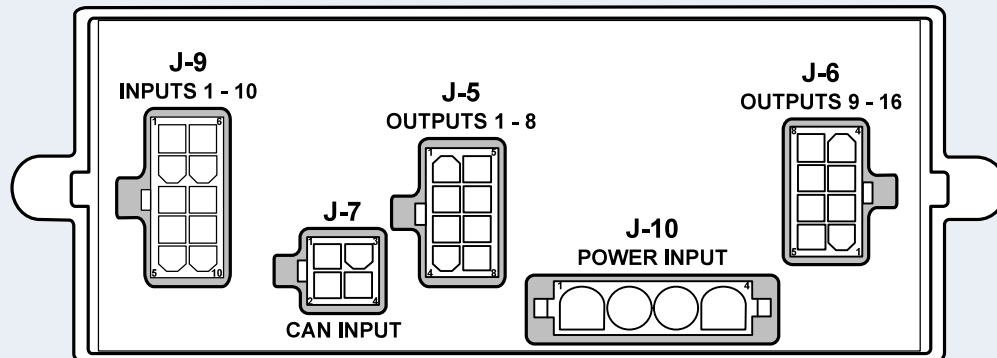
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 091124

ECN 000000

CEM16 EXPANSION MODULE



J-5 – OUTPUTS 1 thru 8 FROM CEM16

- Pin 1 Output 1 (2.5A) – 18 Ga. BL Driver Bed Light 1 “XO 1 L1”
- Pin 2 Output 2 (2.5A) – 18 Ga. BL Pass. Bed Light 2 “XO 2 L2”
- Pin 3 Output 3 (2.5A) – 18 Ga. BL Driver Bed Light 3 “XO 3 L3”
- Pin 4 Output 4 (2.5A) – 18 Ga. BL Pass. Bed Light 4 “XO 4 L4”
- Pin 5 Output 5 (2.5A) – 18 Ga. BL Driver Bed Light 5 “XO 5 L5”
- Pin 6 Output 6 (2.5A) – 18 Ga. BL Pass. Bed Light 6 “XO 6 L6”
- Pin 7 Output 7 (2.5A) – 18 Ga. OR/BK Driver Rear Light 7 “XO 7 L7”
- Pin 8 Output 8 (2.5A) – 18 Ga. OR/BK Pass. Rear Light 8 “XO 8 L8”



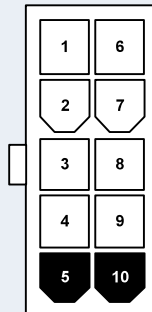
J-6 – OUTPUTS 9 thru 16 FROM CEM16

- Pin 1 Output 9 (2.5A) – 18 Ga. OR/BK Driver Rear Light 9 “XO 9 L9”
- Pin 2 Output 10 (2.5A) – 18 Ga. OR/BK Pass. Rear Light 10 “XO 10 L10”
- Pin 3 Output 11 (2.5A) – 18 Ga. OR/WH Driver Tag Light 11 “XO 11 L11”
- Pin 4 Output 12 (2.5A) – 18 Ga. OR/WH Pass. Tag Light 12 “XO 12 L12”
- Pin 5 Output 13 (2.5A) – 18 Ga. OR/WH Driver Tag Light 13 “XO 13 L13”
- Pin 6 Output 14 (2.5A) – 18 Ga. OR/WH Pass. Tag Light 14 “XO 14 L14”
- Pin 7 Output 15 (2.5A) – 18 Ga. OR/WH Driver Tag Light 15 “XO 15 L15”
- Pin 8 Output 16 (2.5A) – 18 Ga. OR/WH Pass. Tag Light 16 “XO 16 L16”



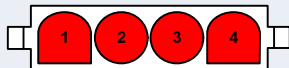
J-9 – INPUTS 1 thru 10 TO CEM16

- Pin 1 Input 1 Ground (–) –: _____
- Pin 2 Input 2 Ground (–) –: _____
- Pin 3 Input 3 Ground (–) –: _____
- Pin 4 Input 4 Ground (–) –: _____
- Pin 5 Main Ground Input – 16 Ga. BK CEM16 Ground “J9 5 GND” from 12-WCX-PWR180G
- Pin 6 Input 1 Positive (+) –: _____
- Pin 7 Input 2 Positive (+) –: _____
- Pin 8 Input 3 Positive (+) –: _____
- Pin 9 Input 4 Positive (+) –: _____
- Pin 10 Main Ground Input – 16 Ga. BK CEM16 Ground “J9 10 GND” from 12-WCX-PWR180G



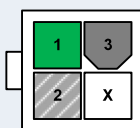
J-10 – POWER INPUT TO CEM16 FROM 12-WCX-PWR180G

- Pin 1 Power Input 1 (10A) – 16 Ga. RD Power 1 (10A) “PWR 1” from Fuse Position 1
- Pin 2 Power Input 2 (10A) – 16 Ga. RD Power 2 (10A) “PWR 2” from Fuse Position 2
- Pin 3 Power Input 3 (10A) – 16 Ga. RD Power 3 (10A) “PWR 3” from Fuse Position 3
- Pin 4 Power Input 4 (10A) – 16 Ga. RD Power 4 (10A) “PWR 4” from Fuse Position 4



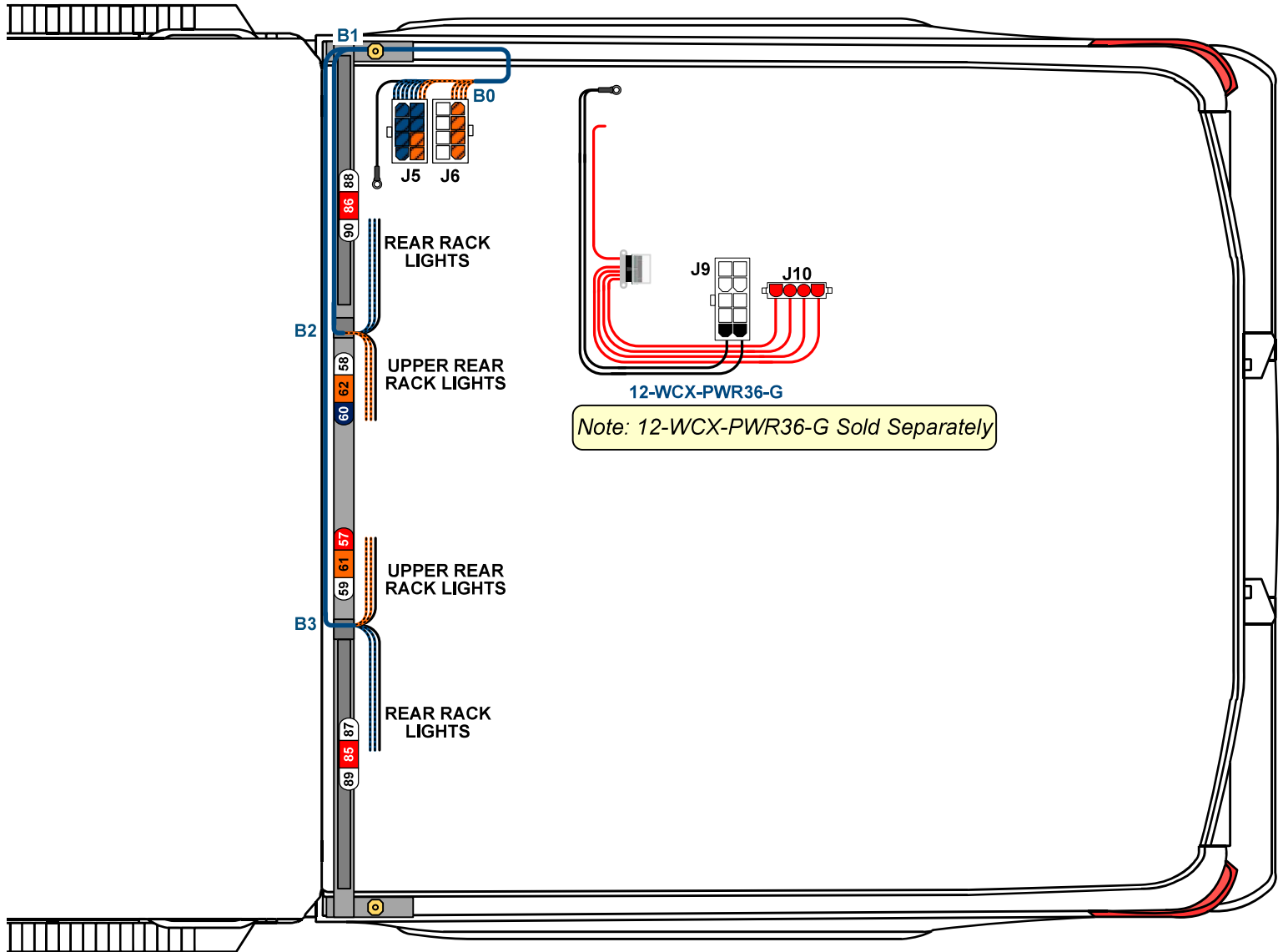
J-7 – CAN INPUT TO CEM16 FROM 12-WCX-PWR180G

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Not Used – Plug



**Note: See 12-WCX-PWR180G Layout, if applicable, for detailed information on Power Distribution (J7, J9 and J10 Connectors)*

Note: Connectors shown in rear view.



REAR LIGHTING:

REAR RACK LIGHTS

- 18 Ga. BL/BK Driver Rear Rack Light 85 "LT 85" to CEM16 J5 Pin 1
- 18 Ga. BL/BK Driver Rear Rack Light 87 "LT 87" to CEM16 J5 Pin 2
- 18 Ga. BL/BK Driver Rear Rack Light 89 "LT 89" to CEM16 J5 Pin 3
- 18 Ga. BK Driver Rear Rack Lights Ground "LT 85 GND" to Ground Assembly
- 18 Ga. BL/BK Pass. Rear Rack Light 86 "LT 86" to CEM16 J5 Pin 4
- 18 Ga. BL/BK Pass. Rear Rack Light 88 "LT 88" to CEM16 J5 Pin 5
- 18 Ga. BL/BK Pass. Rear Rack Light 90 "LT 90" to CEM16 J5 Pin 6
- 18 Ga. BK Pass. Rear Rack Lights Ground "LT 86 GND" to Ground Assembly

REAR RACK UPPER LIGHTS

- 18 Ga. OR/BK Driver Rear Rack Upper Light 57 "LT 57" to CEM16 J5 Pin 7
- 18 Ga. OR/BK Driver Rear Rack Upper Light 59 "LT 59" to CEM16 J5 Pin 8
- 18 Ga. OR/BK Driver Rear Rack Upper Light 61 "LT 61" to CEM16 J6 Pin 1
- 18 Ga. BK Driver Rear Rack Upper Lights Ground "LT 57 GND" to Ground Assembly
- 18 Ga. OR/BK Pass. Rear Rack Upper Light 58 "LT 58" to CEM16 J6 Pin 2
- 18 Ga. OR/BK Pass. Rear Rack Upper Light 60 "LT 60" to CEM16 J6 Pin 3
- 18 Ga. OR/BK Pass. Rear Rack Upper Light 62 "LT 62" to CEM16 J6 Pin 4
- 18 Ga. BK Pass. Rear Rack Upper Lights Ground "LT 58 GND" to Ground Assembly

PRODUCTS SHOWN ON LAYOUT:

Rear Back Rack Lighting Harness: MW-C16-BRT4
Rear CEM16 Power Cable: 12-WCX-PWR36-G

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

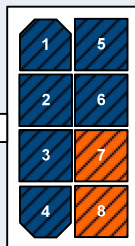
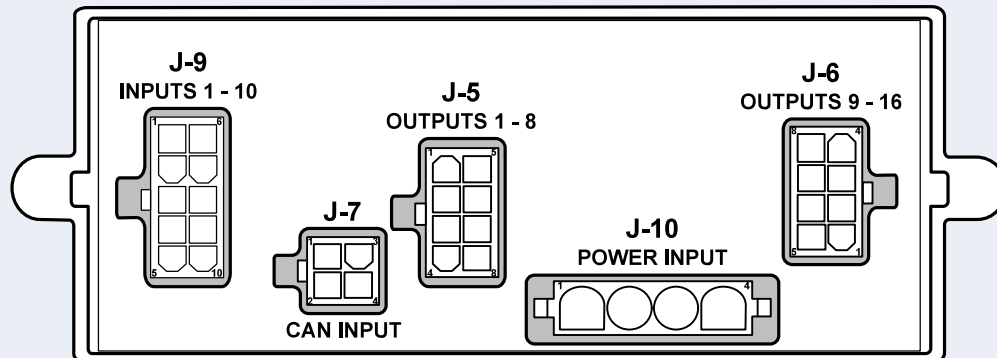
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 111224

ECN 000000

CEM16 EXPANSION MODULE



J-5 – OUTPUTS 1 thru 8 FROM CEM16

- Pin 1 Output 1 (2.5A) – 18 Ga. BL/BK Driver Rear Rack Light 85 "LT 85"
- Pin 2 Output 2 (2.5A) – 18 Ga. BL/BK Driver Rear Rack Light 87 "LT 87"
- Pin 3 Output 3 (2.5A) – 18 Ga. BL/BK Driver Rear Rack Light 89 "LT 89"
- Pin 4 Output 4 (2.5A) – 18 Ga. BL/BK Pass. Rear Rack Light 86 "LT 86"
- Pin 5 Output 5 (2.5A) – 18 Ga. BL/BK Pass. Rear Rack Light 88 "LT 88"
- Pin 6 Output 6 (2.5A) – 18 Ga. BL/BK Pass. Rear Rack Light 90 "LT 90"
- Pin 7 Output 7 (2.5A) – 18 Ga. OR/BK Driver Rear Rack Upper Light 57 "LT 57"
- Pin 8 Output 8 (2.5A) – 18 Ga. OR/BK Driver Rear Rack Upper Light 59 "LT 59"

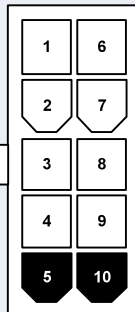
85
87
89
86
88
90
57
59



J-6 – OUTPUTS 9 thru 16 FROM CEM16

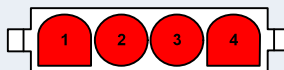
- Pin 1 Output 9 (2.5A) – 18 Ga. OR/BK Driver Rear Rack Upper Light 61 "LT 61"
- Pin 2 Output 10 (2.5A) – 18 Ga. OR/BK Pass. Rear Rack Upper Light 58 "LT 58"
- Pin 3 Output 11 (2.5A) – 18 Ga. OR/BK Pass. Rear Rack Upper Light 60 "LT 60"
- Pin 4 Output 12 (2.5A) – 18 Ga. OR/BK Pass. Rear Rack Upper Light 62 "LT 62"
- Pin 5 Output 13 (2.5A) – Not Used – Sealing Plug
- Pin 6 Output 14 (2.5A) – Not Used – Sealing Plug
- Pin 7 Output 15 (2.5A) – Not Used – Sealing Plug
- Pin 8 Output 16 (2.5A) – Not Used – Sealing Plug

61
58
60
62



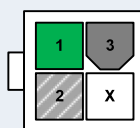
J-9 – INPUTS 1 thru 10 TO CEM16

- Pin 1 Input 1 Ground (–) –: _____
- Pin 2 Input 2 Ground (–) –: _____
- Pin 3 Input 3 Ground (–) –: _____
- Pin 4 Input 4 Ground (–) –: _____
- Pin 5 Main Ground Input – 16 Ga. BK CEM16 Ground "J9 5 GND"
- Pin 6 Input 1 Positive (+) –: _____
- Pin 7 Input 2 Positive (+) –: _____
- Pin 8 Input 3 Positive (+) –: _____
- Pin 9 Input 4 Positive (+) –: _____
- Pin 10 Main Ground Input – 16 Ga. BK CEM16 Ground "J9 10 GND"



J-10 – POWER INPUT TO CEM16

- Pin 1 Power Input 1 (10A) – 16 Ga. RD Power 1 (10A) "PWR 1" from Fuse Position 1
- Pin 2 Power Input 2 (10A) – 16 Ga. RD Power 2 (10A) "PWR 2" from Fuse Position 2
- Pin 3 Power Input 3 (10A) – 16 Ga. RD Power 3 (10A) "PWR 3" from Fuse Position 3
- Pin 4 Power Input 4 (10A) – 16 Ga. RD Power 4 (10A) "PWR 4" from Fuse Position 4

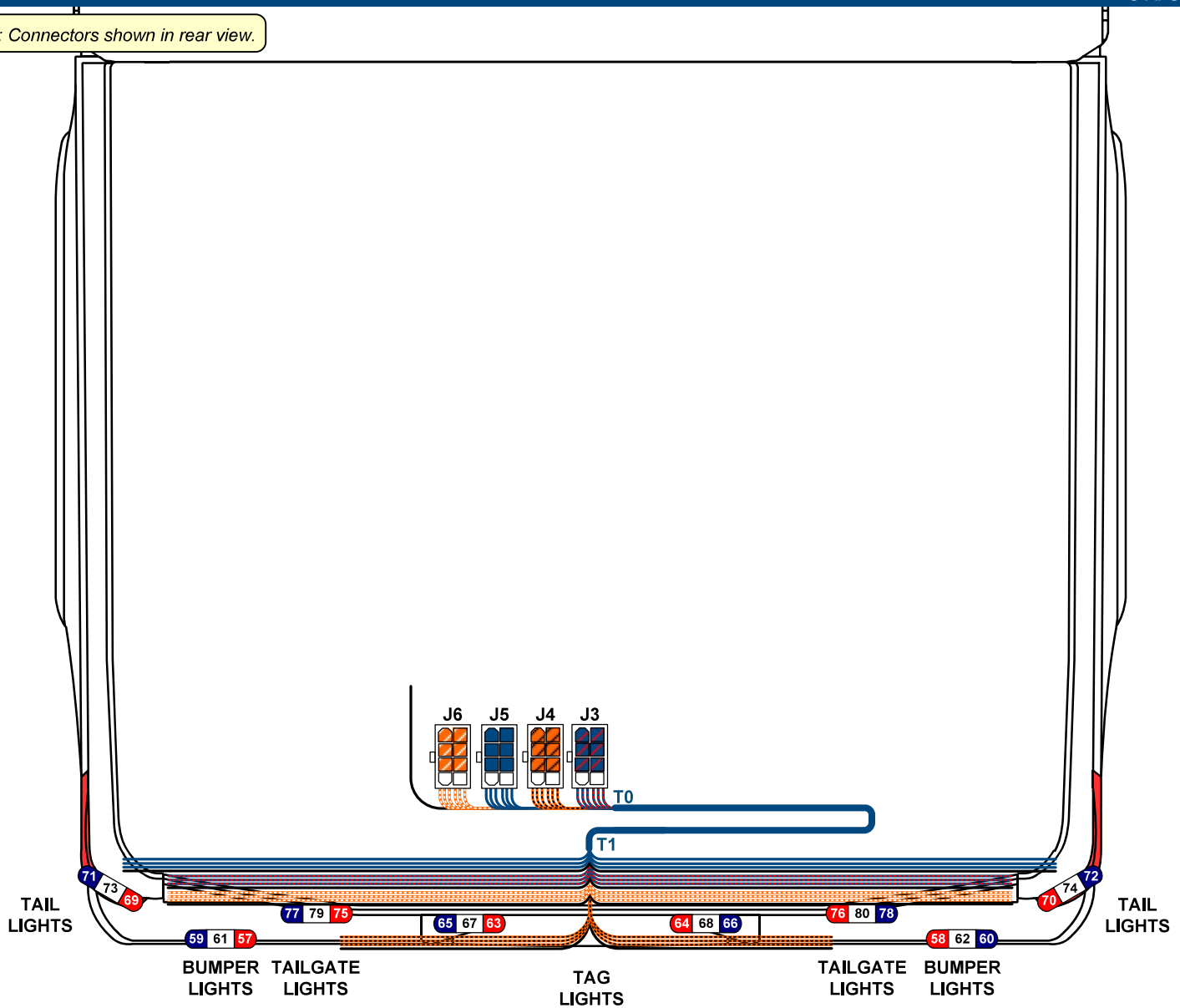


J-7 – CAN INPUT TO CEM16

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Not Used – Plug

**Note: See 12-WCX-PWR36-G Layout, if applicable, for detailed information on Power Distribution (J9 & J10 Connectors)*

Note: Connectors shown in rear view.



REAR LIGHTING:

BUMPER LIGHTS

- 18 Ga. BL/RD Driver Bumper Light 57 "LT 57" from CEM24 J3 Pin 1
- 18 Ga. BL/RD Driver Bumper Light 59 "LT 59" from CEM24 J3 Pin 2
- 18 Ga. BL/RD Driver Bumper Light 61 "LT 61" from CEM24 J3 Pin 3
- 18 Ga. BK Driver Bumper Lights Ground "LT 57 GND" to Ground Assembly
- 18 Ga. BL/RD Pass. Bumper Light 58 "LT 58" from CEM24 J3 Pin 4
- 18 Ga. BL/RD Pass. Bumper Light 60 "LT 60" from CEM24 J3 Pin 5
- 18 Ga. BL/RD Pass. Bumper Light 62 "LT 62" from CEM24 J3 Pin 6
- 18 Ga. BK Pass. Bumper Lights Ground "LT 58 GND" to Ground Assembly

TAG LIGHTS

- 18 Ga. OR/BK Driver Tag Light 63 "LT 63" to CEM24 J4 Pin 1
- 18 Ga. OR/BK Driver Tag Light 65 "LT 65" to CEM24 J4 Pin 2
- 18 Ga. OR/BK Driver Tag Light 67 "LT 67" to CEM24 J4 Pin 3
- 18 Ga. BK Driver Tag Lights Ground "LT 63 GND" to Ground Assembly
- 18 Ga. OR/BK Pass. Tag Light 64 "LT 64" to CEM24 J4 Pin 4
- 18 Ga. OR/BK Pass. Tag Light 66 "LT 66" to CEM24 J4 Pin 5
- 18 Ga. OR/BK Pass. Tag Light 68 "LT 68" to CEM24 J4 Pin 6
- 18 Ga. BK Pass. Tag Lights Ground "LT 64 GND" to Ground Assembly

TAIL LIGHTS

- 18 Ga. BL Driver Tail Light 69 "LT 69" to CEM24 J5 Pin 1
- 18 Ga. BL Driver Tail Light 71 "LT 71" to CEM24 J5 Pin 2
- 18 Ga. BL Driver Tail Light 73 "LT 73" to CEM24 J5 Pin 3
- 18 Ga. BK Driver Tail Lights Ground "LT 69 GND" to Ground Assembly
- 18 Ga. BL Pass. Tail Light 70 "LT 70" to CEM24 J5 Pin 4
- 18 Ga. BL Pass. Tail Light 72 "LT 72" to CEM24 J5 Pin 5
- 18 Ga. BL Pass. Tail Light 74 "LT 74" to CEM24 J5 Pin 6
- 18 Ga. BK Pass. Tail Lights Ground "LT 70 GND" to Ground Assembly

TAILGATE LIGHTS

- 18 Ga. OR/WH Driver Tailgate Light 75 "LT 75" to CEM24 J6 Pin 1
- 18 Ga. OR/WH Driver Tailgate Light 77 "LT 77" to CEM24 J6 Pin 2
- 18 Ga. OR/WH Driver Tailgate Light 79 "LT 79" to CEM24 J6 Pin 3
- 18 Ga. BK Driver Tailgate Lights Ground "LT 75 GND" to Ground Assembly
- 18 Ga. OR/WH Pass. Tailgate Light 76 "LT 76" to CEM24 J6 Pin 4
- 18 Ga. OR/WH Pass. Tailgate Light 78 "LT 78" to CEM24 J6 Pin 5
- 18 Ga. OR/WH Pass. Tailgate Light 80 "LT 80" to CEM24 J6 Pin 6
- 18 Ga. BK Pass. Tailgate Lights Ground "LT 76 GND" to Ground Assembly

PRODUCTS SHOWN ON LAYOUT:

Rear Lighting Harness: MW-C24-RLT8
Whelen CEM24 Power Cable: WCX-PWR180-C24

TECHNICAL SUPPORT & SALES CONTACT:

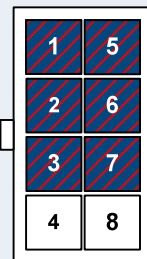
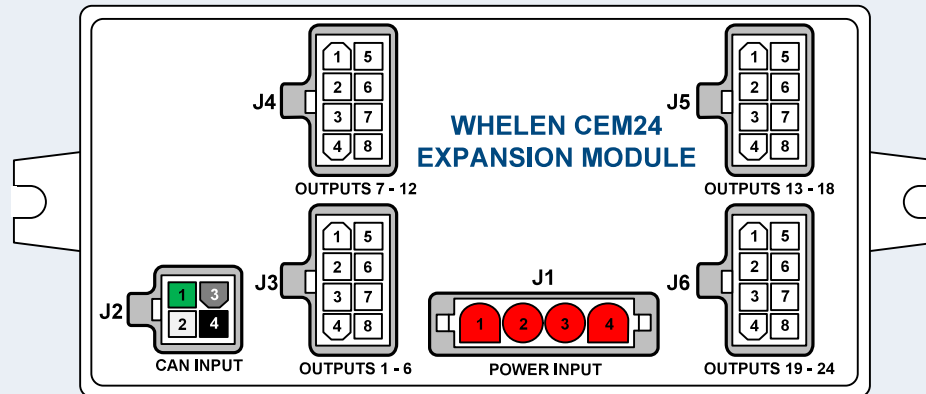
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 021825

ECN 000000



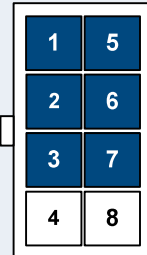
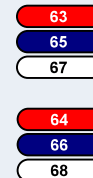
J3 – OUTPUTS 1 – 6

- Pin 1 Output 1 (2.5A) – 18 Ga. BL/RD Driver Bumper Light 57 “LT 57”
- Pin 2 Output 2 (2.5A) – 18 Ga. BL/RD Driver Bumper Light 59 “LT 59”
- Pin 3 Output 3 (2.5A) – 18 Ga. BL/RD Driver Bumper Light 61 “LT 61”
- Pin 4 – No Connection – Sealing Plug
- Pin 5 Output 4 (2.5A) – 18 Ga. BL/RD Pass. Bumper Light 58 “LT 58”
- Pin 6 Output 5 (2.5A) – 18 Ga. BL/RD Pass. Bumper Light 60 “LT 60”
- Pin 7 Output 6 (2.5A) – 18 Ga. BL/RD Pass. Bumper Light 62 “LT 62”
- Pin 8 – No Connection – Sealing Plug



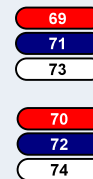
J4 – OUTPUTS 7 – 12

- Pin 1 Output 7 (2.5A) – 18 Ga. OR/BK Driver Tag Light 63 “LT 63”
- Pin 2 Output 8 (2.5A) – 18 Ga. OR/BK Driver Tag Light 65 “LT 65”
- Pin 3 Output 9 (2.5A) – 18 Ga. OR/BK Driver Tag Light 67 “LT 67”
- Pin 4 – No Connection – Sealing Plug
- Pin 5 Output 10 (2.5A) – 18 Ga. OR/BK Pass. Tag Light 64 “LT 64”
- Pin 6 Output 11 (2.5A) – 18 Ga. OR/BK Pass. Tag Light 66 “LT 66”
- Pin 7 Output 12 (2.5A) – 18 Ga. OR/BK Pass. Tag Light 68 “LT 68”
- Pin 8 – No Connection – Sealing Plug



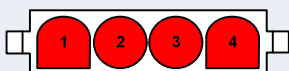
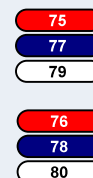
J5 – OUTPUTS 13 – 18

- Pin 1 Output 13 (2.5A) – 18 Ga. BL Driver Tail Light 69 “LT 69”
- Pin 2 Output 14 (2.5A) – 18 Ga. BL Driver Tail Light 71 “LT 71”
- Pin 3 Output 15 (2.5A) – 18 Ga. BL Driver Tail Light 73 “LT 73”
- Pin 4 – No Connection – Sealing Plug
- Pin 5 Output 16 (2.5A) – 18 Ga. BL Pass. Tail Light 70 “LT 70”
- Pin 6 Output 17 (2.5A) – 18 Ga. BL Pass. Tail Light 72 “LT 72”
- Pin 7 Output 18 (2.5A) – 18 Ga. BL Pass. Tail Light 74 “LT 74”
- Pin 8 – No Connection – Sealing Plug



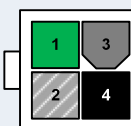
J6 – OUTPUTS 19 – 24

- Pin 1 Output 19 (2.5A) – 18 Ga. OR/WH Driver Tailgate Light 75 “LT 75”
- Pin 2 Output 20 (2.5A) – 18 Ga. OR/WH Driver Tailgate Light 77 “LT 77”
- Pin 3 Output 21 (2.5A) – 18 Ga. OR/WH Driver Tailgate Light 79 “LT 79”
- Pin 4 – No Connection – Sealing Plug
- Pin 5 Output 22 (2.5A) – 18 Ga. OR/WH Pass. Tailgate Light 76 “LT 76”
- Pin 6 Output 23 (2.5A) – 18 Ga. OR/WH Pass. Tailgate Light 78 “LT 78”
- Pin 7 Output 24 (2.5A) – 18 Ga. OR/WH Pass. Tailgate Light 80 “LT 80”
- Pin 8 – No Connection – Sealing Plug



J1 – POWER INPUT TO CEM24

- Pin 1 Power Input 1 (15A) – 14 Ga. RD Power 1
- Pin 2 Power Input 2 (15A) – 14 Ga. RD Power 2
- Pin 3 Power Input 3 (15A) – 14 Ga. RD Power 3
- Pin 4 Power Input 4 (15A) – 14 Ga. RD Power 4



J2 – CAN INPUT TO CEM24

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Main Ground Input – 18 Ga. BK CEM24 Ground

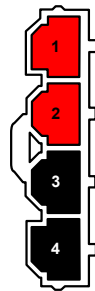
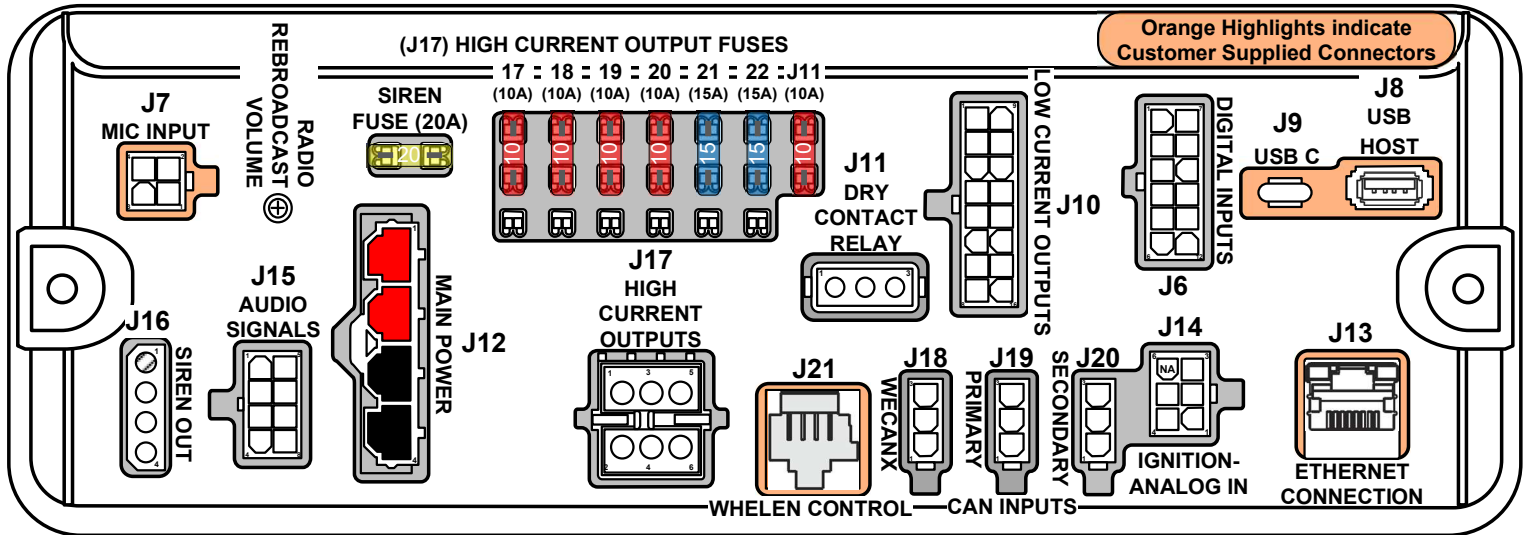
*Note: See WCX-PWR180-C24 Layout, if applicable, for detailed information on Power Distribution (J1 Connector)

**Note: See Data Harness Layout, if applicable, for detailed information on Data Distribution (J2 Connector)

12-WCSP-CORE-28

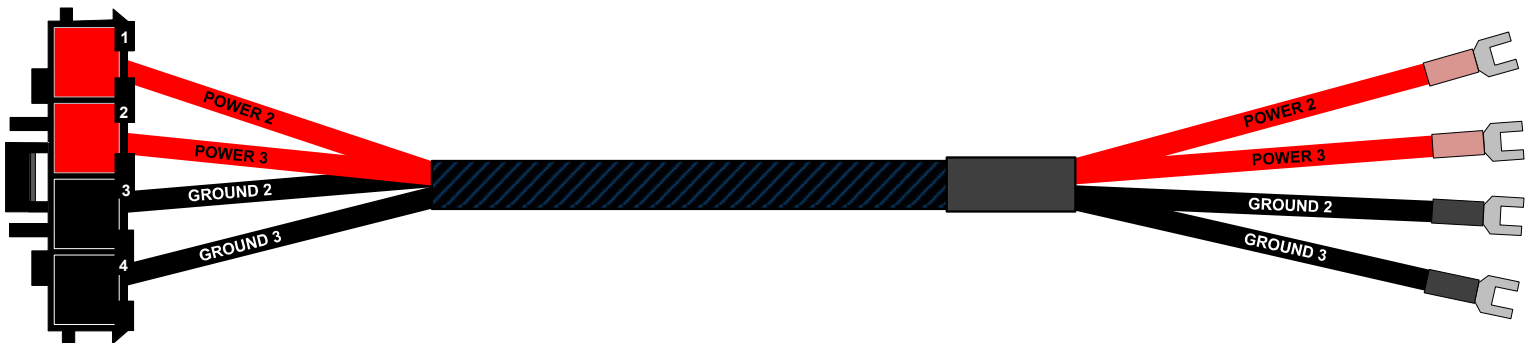
28" Whelen CenCom Core C399 Power Cable

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J12 – MAIN POWER

- Pin 1 Power In (40A) – 10 Ga. RD Power "POWER 2"
- Pin 2 Power In (40A) – 10 Ga. RD Power "POWER 3"
- Pin 3 Ground In – 10 Ga. BK Ground "GROUND 2"
- Pin 4 Ground In – 10 Ga. BK Ground "GROUND 3"



12-WCSP-CORE-28

Power Connector

- Pos. 1 – 10 Ga. Red Power 2
- Pos. 2 – 10 Ga. Red Power 3
- Pos. 3 – 10 Ga. Black Ground 2
- Pos. 4 – 10 Ga. Black Ground 3

Connect To
P12 or P18 Fuse Panels

TECHNICAL SUPPORT & SALES CONTACT:

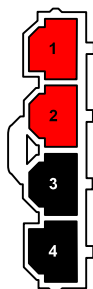
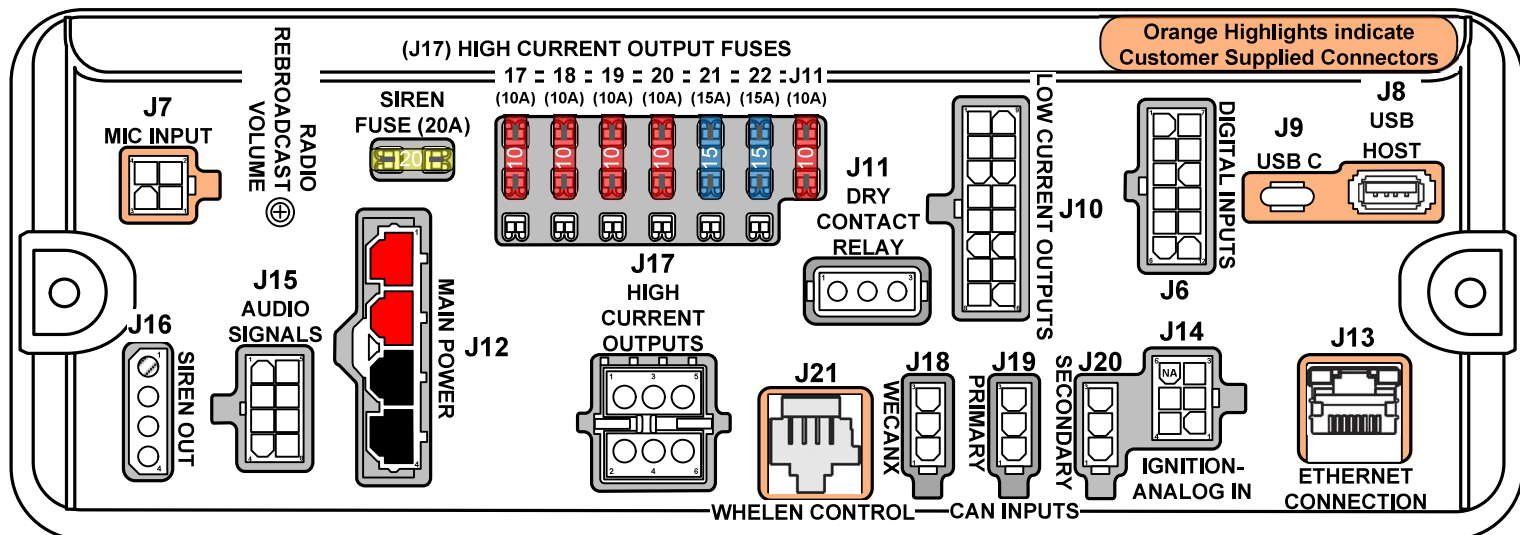
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 080720

ECN 000000



J12 – MAIN POWER

- Pin 1 Power In (40A) – 10 Ga. RD Power "POWER 2"
- Pin 2 Power In (40A) – 10 Ga. RD Power "POWER 3"
- Pin 3 Ground In – 10 Ga. BK Ground "GROUND 2"
- Pin 4 Ground In – 10 Ga. BK Ground "GROUND 3"



12-WCSP-CORE-G

Power Connector

- Pos. 1 – 10 Ga. Red Power 2
- Pos. 2 – 10 Ga. Red Power 3
- Pos. 3 – 10 Ga. Black Ground 2
- Pos. 4 – 10 Ga. Black Ground 3

Connect To
Panel Ground Stud

TECHNICAL SUPPORT & SALES CONTACT:

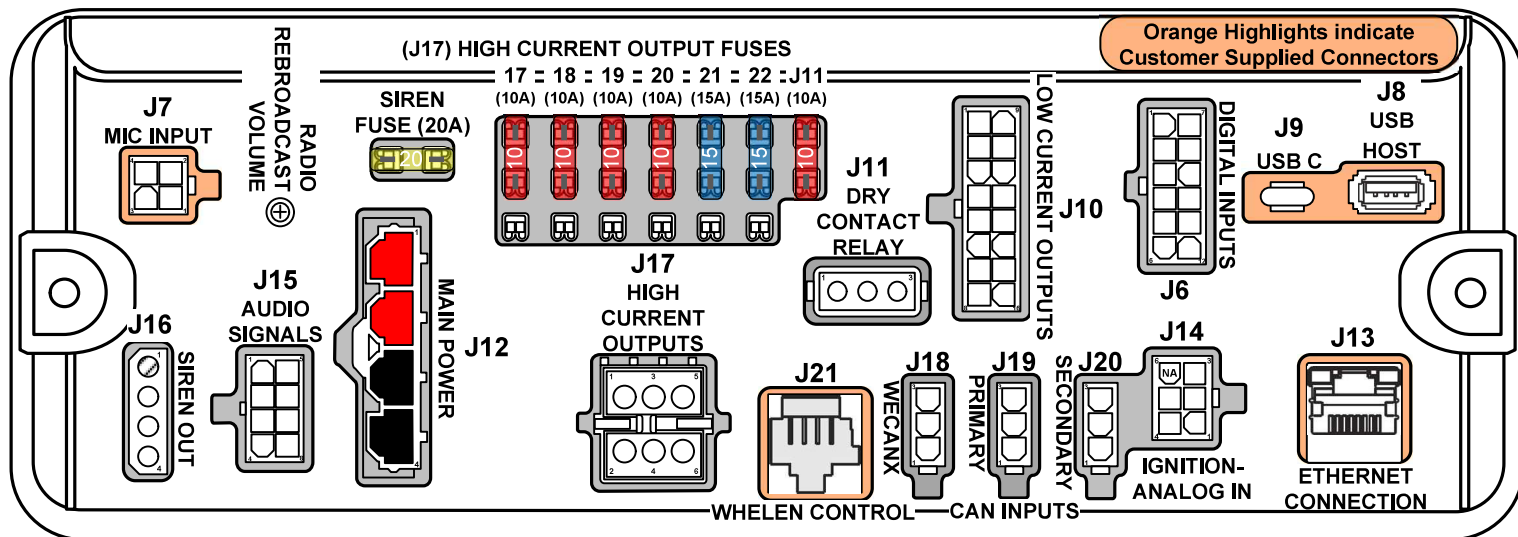
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 110422

ECN 000000



12-WCSP-CORE-60G

Power Connector

- Pos. 1 – 10 Ga. Red Power 2
- Pos. 2 – 10 Ga. Red Power 3
- Pos. 3 – 10 Ga. Black Ground 2
- Pos. 4 – 10 Ga. Black Ground 3

Connect To
Panel Ground Stud

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

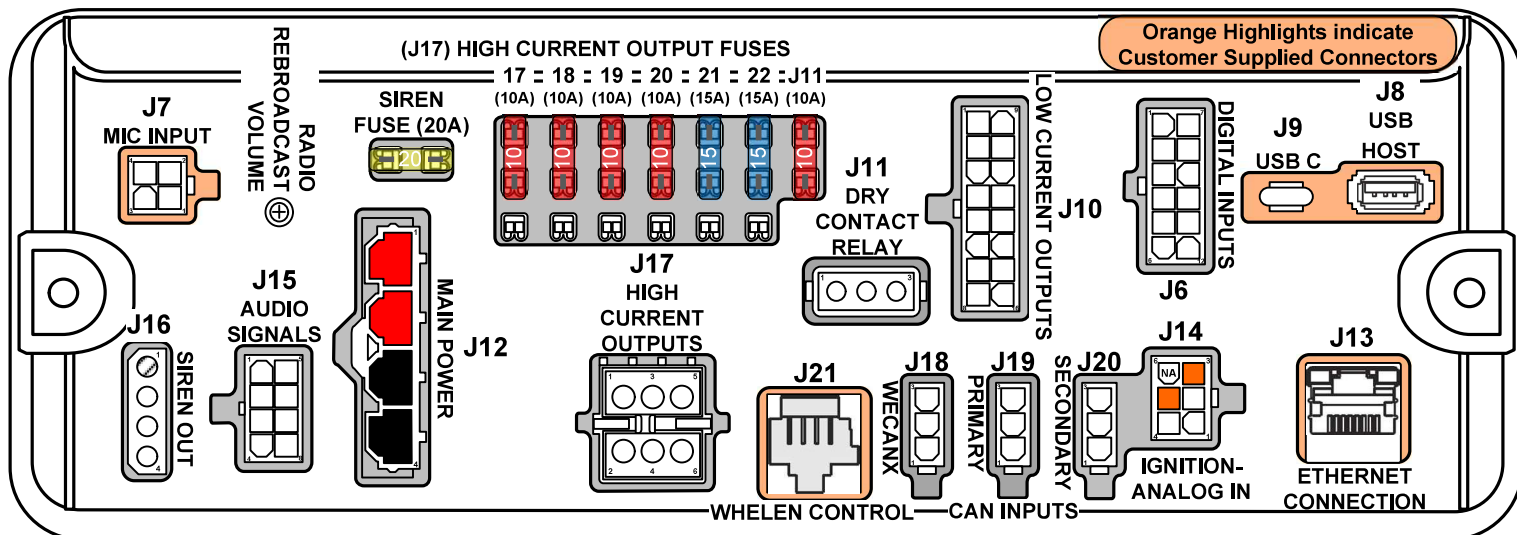
EDD 112723

ECN 000000

12-WCSPI-CORE-G

28" Whelen CenCom Core C399 Power Cable with Siren Ignition & Backlight to be Utilized with Ground Stud

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12-WCSPI-CORE-G

J12 Power Connector

- Pos. 1 – 10 Ga. Red “POWER 2”
- Pos. 2 – 10 Ga. Red “POWER 3”
- Pos. 3 – 10 Ga. Black “GROUND 2”
- Pos. 4 – 10 Ga. Black “GROUND 3”

J14 Ignition Connector

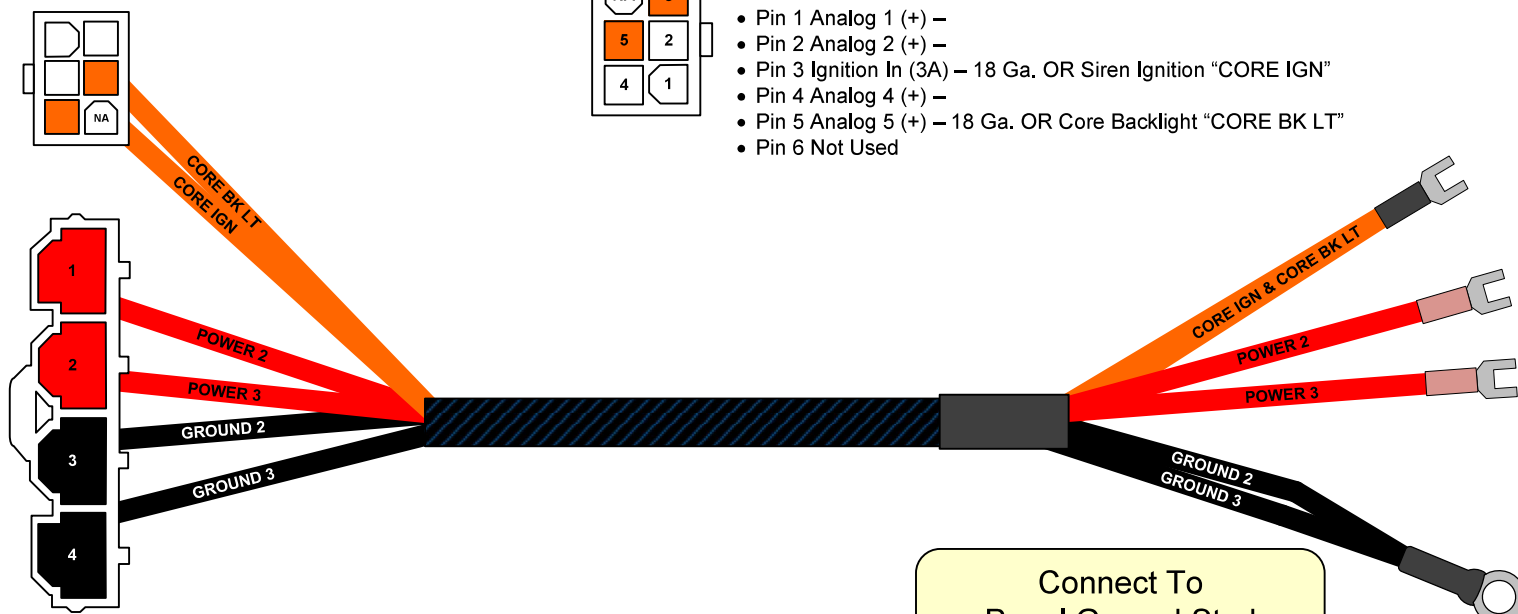
- Pos. 3 – 18 Ga. Orange “CORE IGN”
- Pos. 5 – 18 Ga. Orange “CORE BK LT”

J12 – MAIN POWER

- Pin 1 Power In (40A) – 10 Ga. RD Power “POWER 2”
- Pin 2 Power In (40A) – 10 Ga. RD Power “POWER 3”
- Pin 3 Ground In – 10 Ga. BK Ground “GROUND 2”
- Pin 4 Ground In – 10 Ga. BK Ground “GROUND 3”

J14 – IGNITION-ANALOG IN

- Pin 1 Analog 1 (+) –
- Pin 2 Analog 2 (+) –
- Pin 3 Ignition In (3A) – 18 Ga. OR Siren Ignition “CORE IGN”
- Pin 4 Analog 4 (+) –
- Pin 5 Analog 5 (+) – 18 Ga. OR Core Backlight “CORE BK LT”
- Pin 6 Not Used



Connect To
Panel Ground Stud

TECHNICAL SUPPORT & SALES CONTACT:

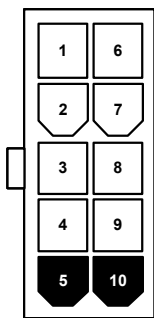
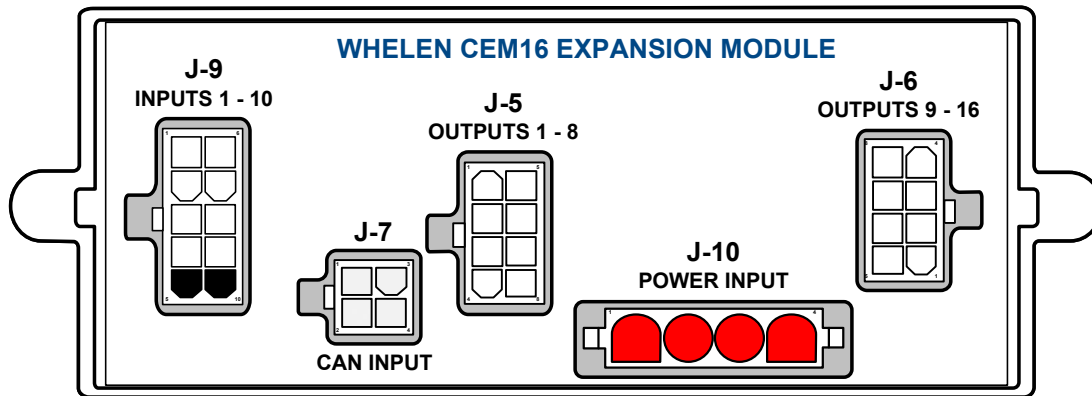
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

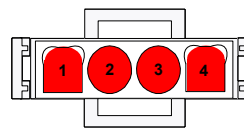
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ECN 120623



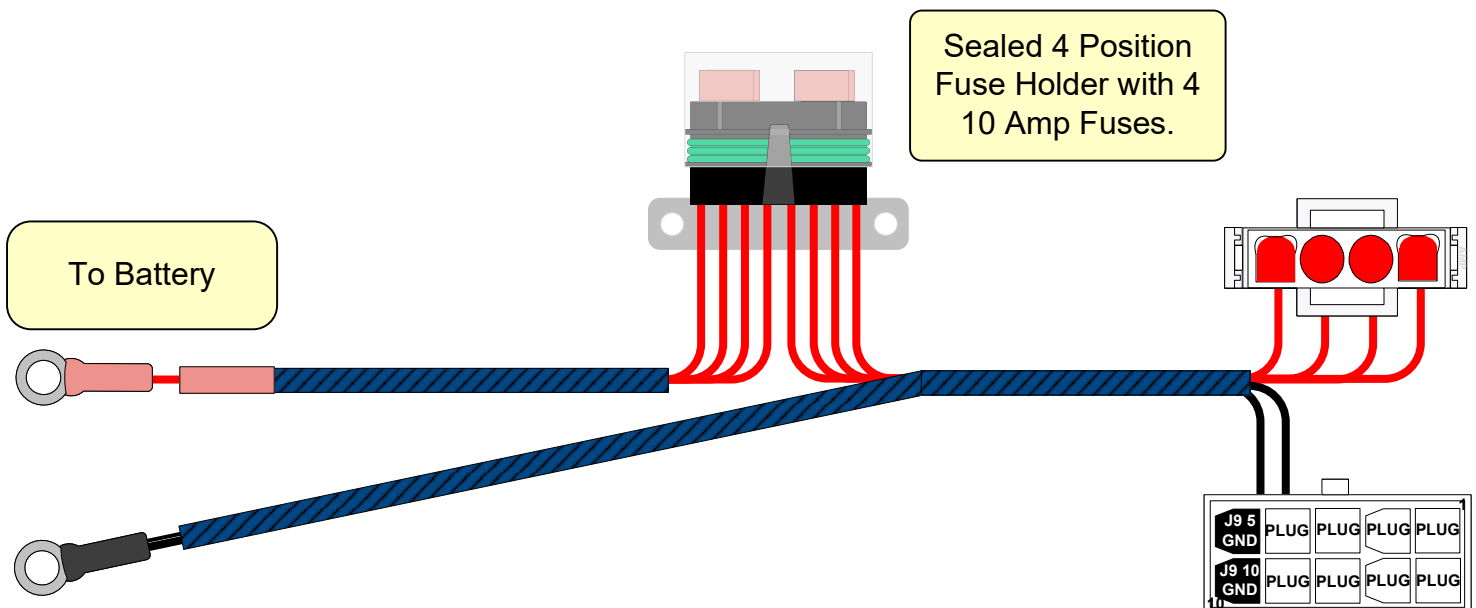
J-9 – INPUTS 1 thru 10

- Pin 1 Input 1 Ground (–) –
- Pin 2 Input 2 Ground (–) –
- Pin 3 Input 3 Ground (–) –
- Pin 4 Input 4 Ground (–) –
- Pin 5 Main Ground Input – 18 Ga. BK Ground “J9 5 GND”
- Pin 6 Input 1 Positive (+) –
- Pin 7 Input 2 Positive (+) –
- Pin 8 Input 3 Positive (+) –
- Pin 9 Input 4 Positive (+) –
- Pin 10 Main Ground Input – 18 Ga. BK Ground “J9 10 GND”



J-10 – POWER INPUT

- Pin 1 Power Input 1 (10A) – 16 Ga. RD Power “POWER 1”
- Pin 2 Power Input 2 (10A) – 16 Ga. RD Power “POWER 2”
- Pin 3 Power Input 3 (10A) – 16 Ga. RD Power “POWER 3”
- Pin 4 Power Input 4 (10A) – 16 Ga. RD Power “POWER 4”



12-WCX-PWR36

- Power & Ground – ¼” Ring at Battery
- (4) 16 Ga. RD Power Wires to Ring
- Fuse 1, 10 Amp: 16 Ga. RD Power 1
- Fuse 2, 10 Amp: 16 Ga. RD Power 2
- Fuse 3, 10 Amp: 16 Ga. RD Power 3
- Fuse 4, 10 Amp: 16 Ga. RD Power 4
- 18 Ga. BK J9 5 Ground
- 18 Ga. BK J9 10 Ground

TECHNICAL SUPPORT & SALES CONTACT:

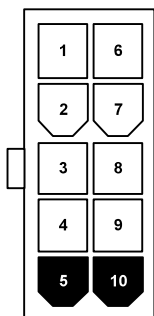
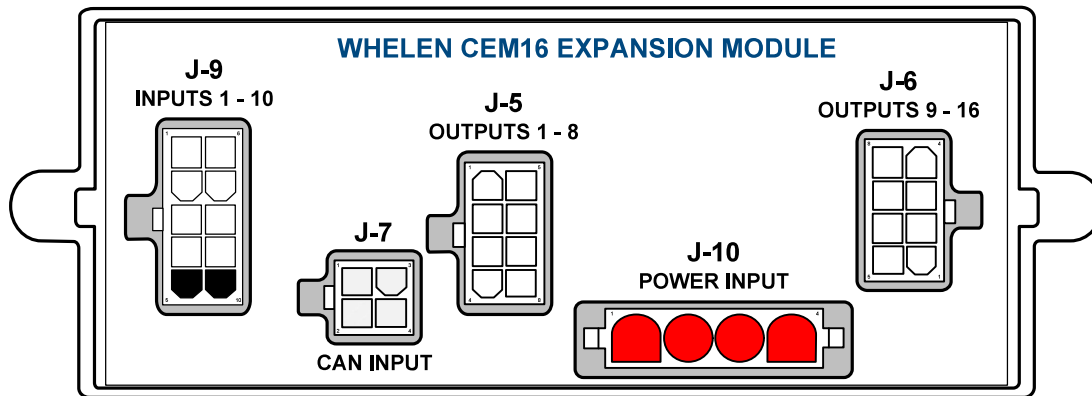
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

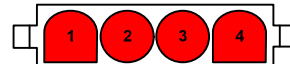
EDD 070720

ECN 000000



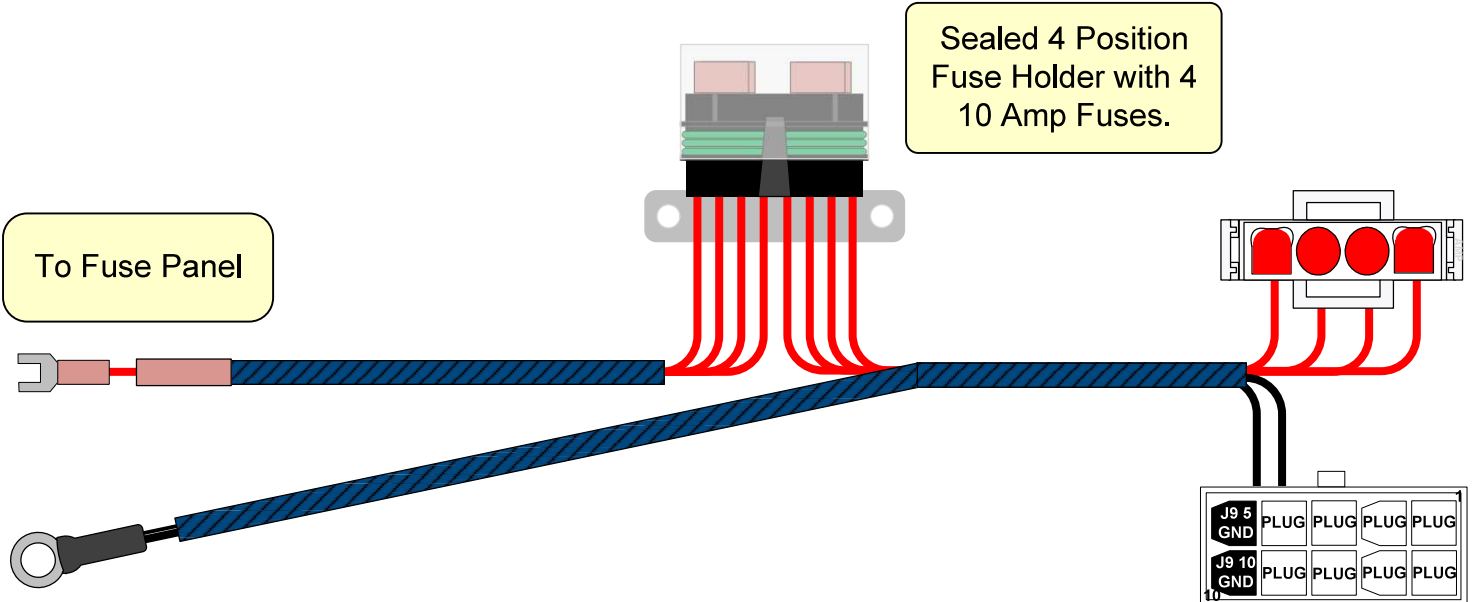
J-9 – INPUTS 1 thru 10

- Pin 1 Input 1 Ground (–) –
- Pin 2 Input 2 Ground (–) –
- Pin 3 Input 3 Ground (–) –
- Pin 4 Input 4 Ground (–) –
- Pin 5 Main Ground Input – 18 Ga. BK Ground “J9 5 GND”
- Pin 6 Input 1 Positive (+) –
- Pin 7 Input 2 Positive (+) –
- Pin 8 Input 3 Positive (+) –
- Pin 9 Input 4 Positive (+) –
- Pin 10 Main Ground Input – 18 Ga. BK Ground “J9 10 GND”



J-10 – POWER INPUT

- Pin 1 Power Input 1 (10A) – 16 Ga. RD Power “POWER 1”
- Pin 2 Power Input 2 (10A) – 16 Ga. RD Power “POWER 2”
- Pin 3 Power Input 3 (10A) – 16 Ga. RD Power “POWER 3”
- Pin 4 Power Input 4 (10A) – 16 Ga. RD Power “POWER 4”



12-WCX-PWR36-G

- Power – #6 Fork at Fuse Panel
- Ground – 1/4" Ring at Battery
- (4) 16 Ga. RD Power Wires to Ring
- Fuse 1, 10 Amp: 16 Ga. RD Power 1
- Fuse 2, 10 Amp: 16 Ga. RD Power 2
- Fuse 3, 10 Amp: 16 Ga. RD Power 3
- Fuse 4, 10 Amp: 16 Ga. RD Power 4
- 18 Ga. BK J9 5 Ground
- 18 Ga. BK J9 10 Ground

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

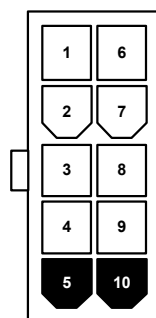
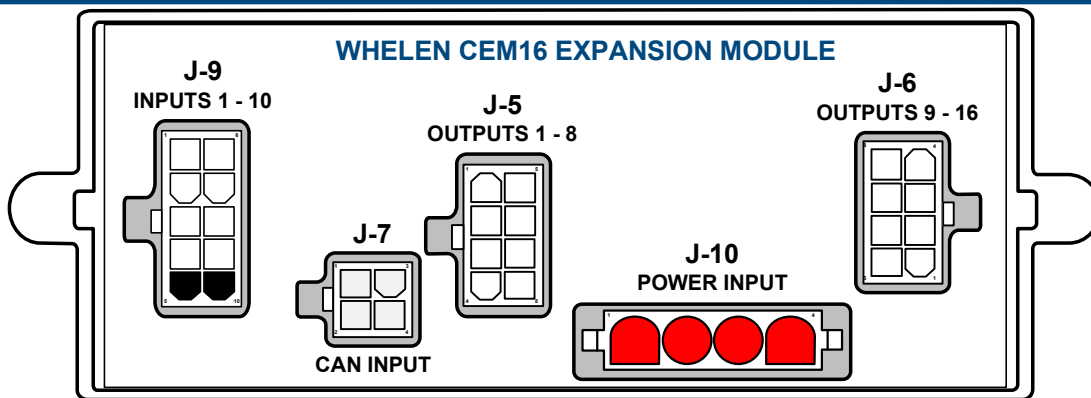
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

12-WCX-PWR40

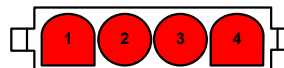
40" Power Cable for WeCanX Expansion Module

© AFS 2022



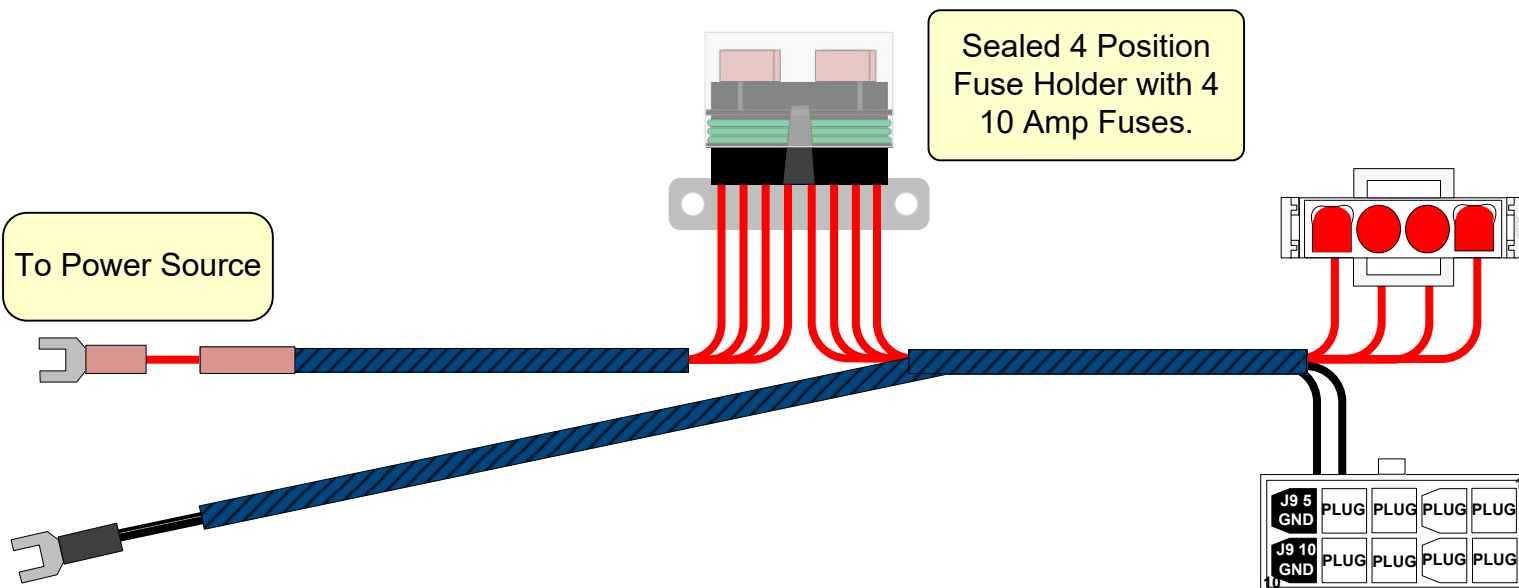
J-9 – INPUTS 1 thru 10

- Pin 1 Input 1 Ground (–) –
- Pin 2 Input 2 Ground (–) –
- Pin 3 Input 3 Ground (–) –
- Pin 4 Input 4 Ground (–) –
- Pin 5 Main Ground Input – 18 Ga. BK Ground “J9 5 GND”
- Pin 6 Input 1 Positive (+) –
- Pin 7 Input 2 Positive (+) –
- Pin 8 Input 3 Positive (+) –
- Pin 9 Input 4 Positive (+) –
- Pin 10 Main Ground Input – 18 Ga. BK Ground “J9 10 GND”



J-10 – POWER INPUT

- Pin 1 Power Input 1 (10A) – 16 Ga. RD Power “POWER 1”
- Pin 2 Power Input 2 (10A) – 16 Ga. RD Power “POWER 2”
- Pin 3 Power Input 3 (10A) – 16 Ga. RD Power “POWER 3”
- Pin 4 Power Input 4 (10A) – 16 Ga. RD Power “POWER 4”



12-WCX-PWR40

- Power – #6 Fork at P12 or P18 Fuse Panel
- 10 Ga. RD spliced to (4) 16 Ga. RD Power Wires
- Fuse 1, 10 Amp: 16 Ga. RD Power 1
- Fuse 2, 10 Amp: 16 Ga. RD Power 2
- Fuse 3, 10 Amp: 16 Ga. RD Power 3
- Fuse 4, 10 Amp: 16 Ga. RD Power 4
- 18 Ga. BK J9 5 Ground
- 18 Ga. BK J9 10 Ground

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

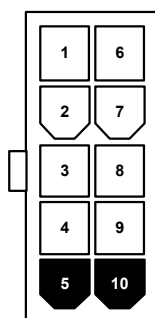
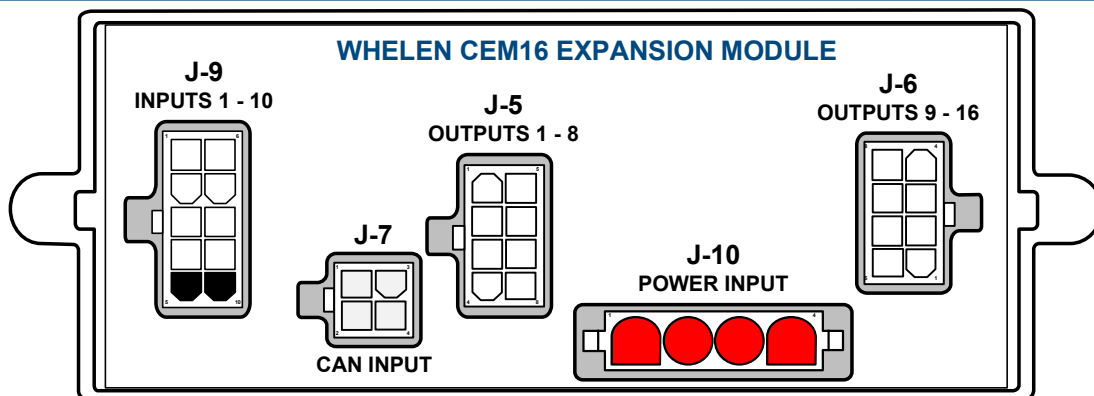
EDD 070720

ECN 050121

12-WCX-PWR60

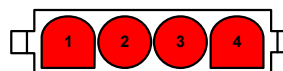
60" Power Cable for Whelen CEM16 Expansion Module

© AFS 2022



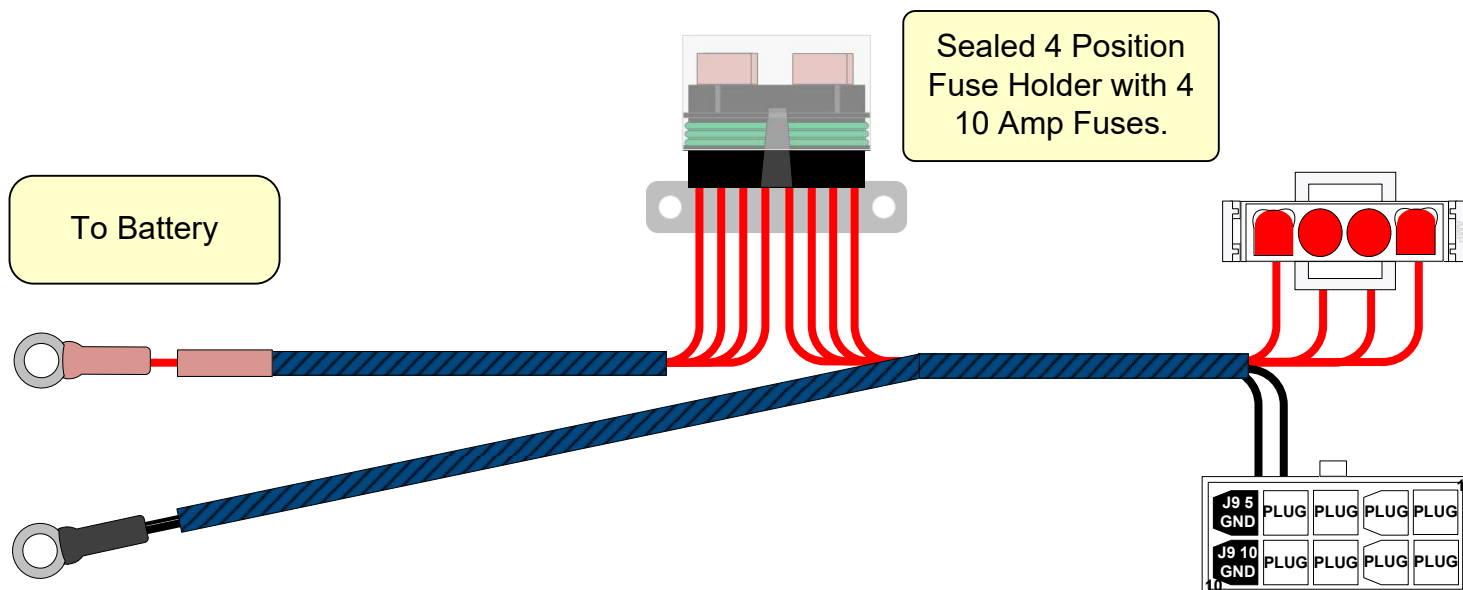
J-9 – INPUTS 1 thru 10

- Pin 1 Input 1 Ground (–)
- Pin 2 Input 2 Ground (–)
- Pin 3 Input 3 Ground (–)
- Pin 4 Input 4 Ground (–)
- Pin 5 Main Ground Input – 18 Ga. BK Ground “J9 5 GND”
- Pin 6 Input 1 Positive (+)
- Pin 7 Input 2 Positive (+)
- Pin 8 Input 3 Positive (+)
- Pin 9 Input 4 Positive (+)
- Pin 10 Main Ground Input – 18 Ga. BK Ground “J9 10 GND”



J-10 – POWER INPUT

- Pin 1 Power Input 1 (10A) – 16 Ga. RD Power “POWER 1”
- Pin 2 Power Input 2 (10A) – 16 Ga. RD Power “POWER 2”
- Pin 3 Power Input 3 (10A) – 16 Ga. RD Power “POWER 3”
- Pin 4 Power Input 4 (10A) – 16 Ga. RD Power “POWER 4”



12-WCX-PWR60

- Power & Ground – 1/4" Ring at Battery
- (4) 16 Ga. RD Power Wires to Ring
- Fuse 1, 10 Amp: 16 Ga. RD Power 1
- Fuse 2, 10 Amp: 16 Ga. RD Power 2
- Fuse 3, 10 Amp: 16 Ga. RD Power 3
- Fuse 4, 10 Amp: 16 Ga. RD Power 4
- 18 Ga. BK J9 5 Ground
- 18 Ga. BK J9 10 Ground

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

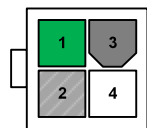
EDD 011122

ECN 000000

12-WCX-PWR180G

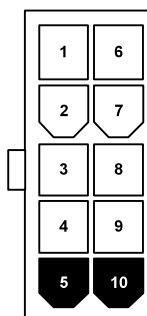
180" Rear Power Cable with Ground for Whelen CEM16 Expansion Module

© AFS 2024



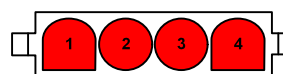
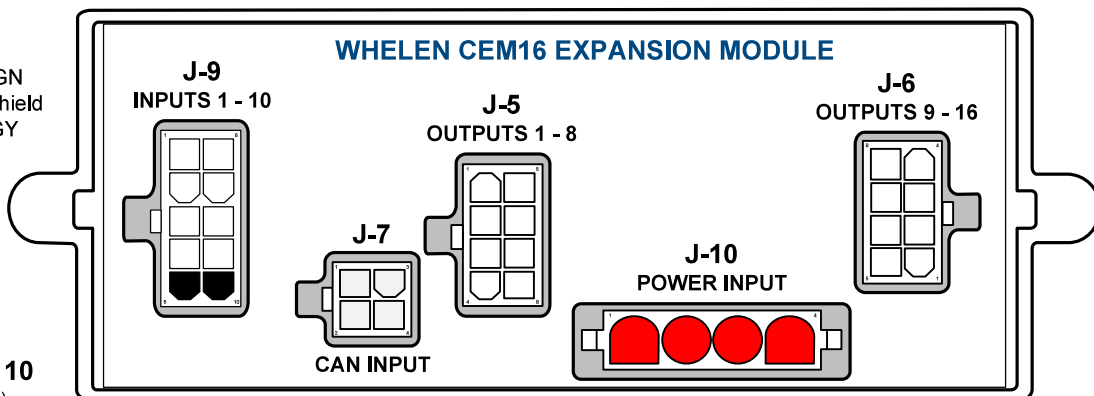
J-7 – CAN INPUT

- Pin 1 CAN H – 20 Ga. GN
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY
- Pin 4 Not Used



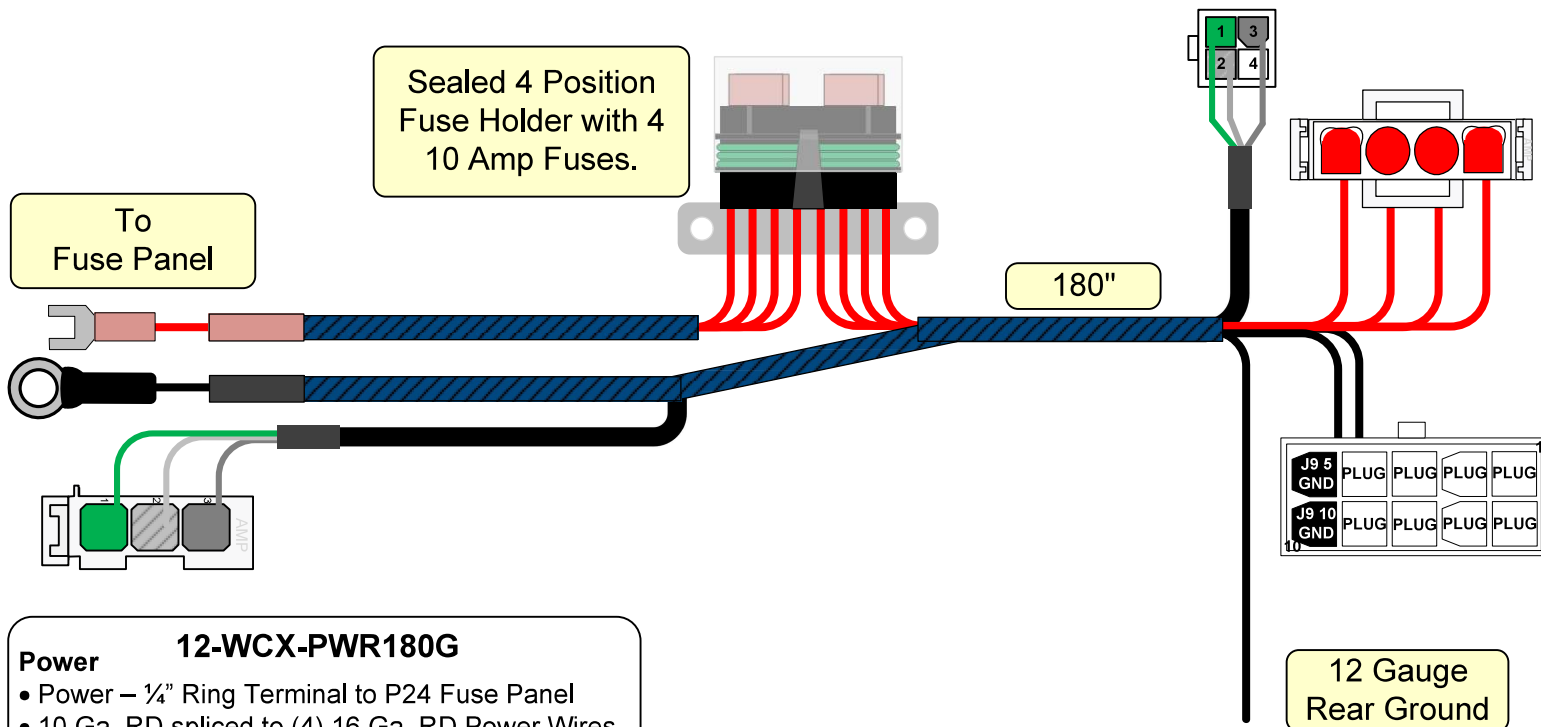
J-9 – INPUTS 1 thru 10

- Pin 1 Input 1 Ground (–) –
- Pin 2 Input 2 Ground (–) –
- Pin 3 Input 3 Ground (–) –
- Pin 4 Input 4 Ground (–) –
- Pin 5 Main Ground Input – 18 Ga. BK Ground “J9 5 GND”
- Pin 6 Input 1 Positive (+) –
- Pin 7 Input 2 Positive (+) –
- Pin 8 Input 3 Positive (+) –
- Pin 9 Input 4 Positive (+) –
- Pin 10 Main Ground Input – 18 Ga. BK Ground “J9 10 GND”



J-10 – POWER INPUT

- Pin 1 Power Input 1 (10A) – 16 Ga. RD Power “POWER 1”
- Pin 2 Power Input 2 (10A) – 16 Ga. RD Power “POWER 2”
- Pin 3 Power Input 3 (10A) – 16 Ga. RD Power “POWER 3”
- Pin 4 Power Input 4 (10A) – 16 Ga. RD Power “POWER 4”



Power

12-WCX-PWR180G

- Power – ¼” Ring Terminal to P24 Fuse Panel
- 10 Ga. RD spliced to (4) 16 Ga. RD Power Wires
- Fuse 1, 10 Amp: 16 Ga. RD J2 1-4 Power 1
- Fuse 2, 10 Amp: 16 Ga. RD J2 5-8 Power 2
- Fuse 3, 10 Amp: 16 Ga. RD J3 1-4 Power 3
- Fuse 4, 10 Amp: 16 Ga. RD J3 5-8 Power 4

Ground

- 16 Ga. BK Exp Grounds Pin 5 of J9 and Lighthouse grounds to the provided 12 Ga. ground wire.

Data Communication

- Pos. 1 – 20 Ga. GN CAN A – Twisted Pair
- Pos. 2 – 20 Ga. Shield
- Pos. 3 – 20 Ga. GY CAN B – Twisted Pair

TECHNICAL SUPPORT & SALES CONTACT:

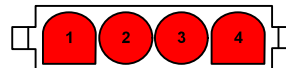
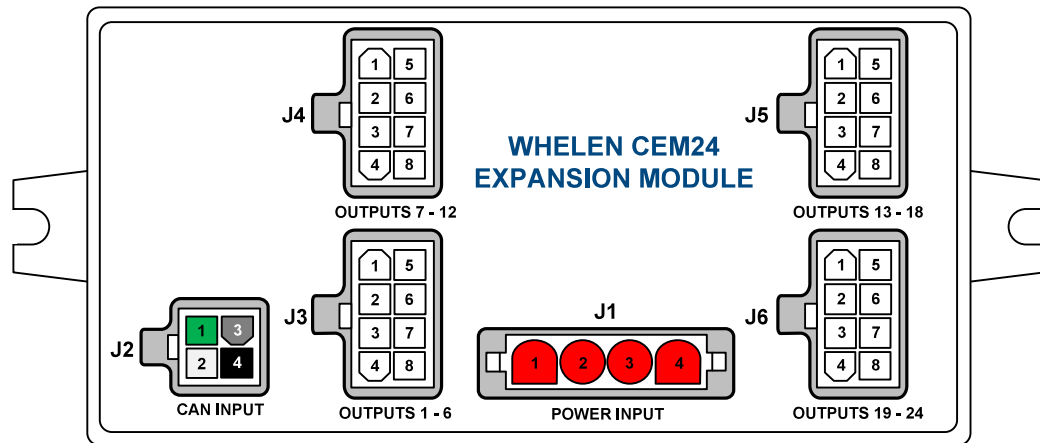
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

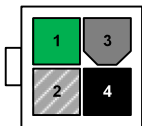
EDD 042224

ECN 000000



J1 – POWER INPUT

- Pin 1 Power Input 1 (15A) – 14 Ga. RD Power “POWER 1”
- Pin 2 Power Input 2 (15A) – 14 Ga. RD Power “POWER 2”
- Pin 3 Power Input 3 (15A) – 14 Ga. RD Power “POWER 3”
- Pin 4 Power Input 4 (15A) – 14 Ga. RD Power “POWER 4”



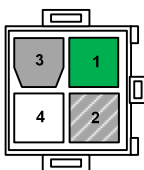
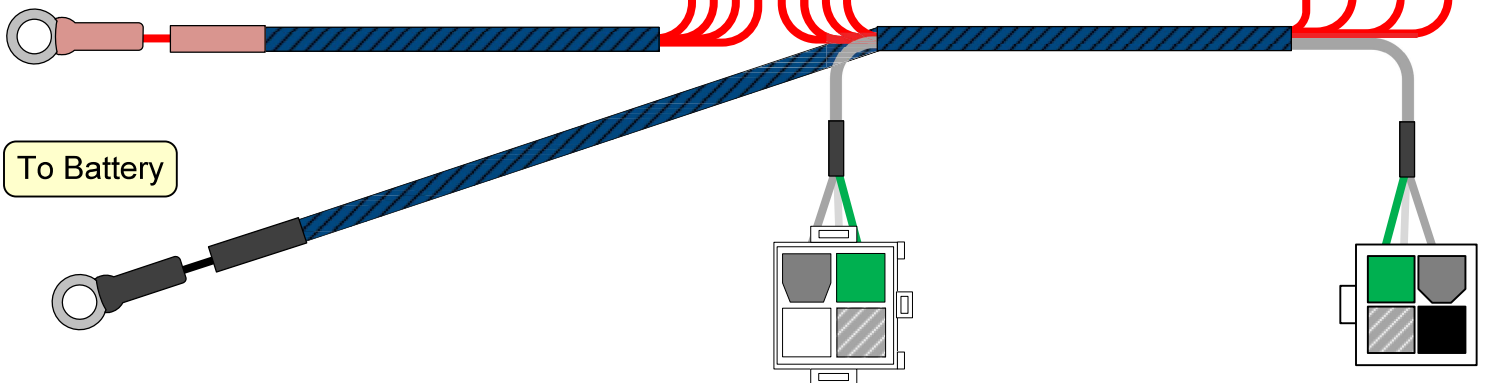
J2 – CAN INPUT TO CEM24

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Main Ground Input – 18 Ga. BK CEM24 Ground

WCX-PWR36-C24

- Power – ¼" Ring at Battery
- (4) 14 Ga. RD Power Wires
- Fuse 1, 15 Amp: 14 Ga. RD Power 1 to J1 Pin 1
- Fuse 2, 15 Amp: 14 Ga. RD Power 2 to J1 Pin 2
- Fuse 3, 15 Amp: 14 Ga. RD Power 3 to J1 Pin 3
- Fuse 4, 15 Amp: 14 Ga. RD Power 4 to J1 Pin 4

Sealed 4 Position
Fuse Holder with 4
15 Amp Fuses.



CAN INPUT TO DATA HARNESS

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Not Used – Sealing Plug

Utilize can input connector with Whelen supplied data pigtail or
AFS “DC Harnesses – Ex. MW-DC25”

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

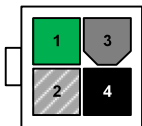
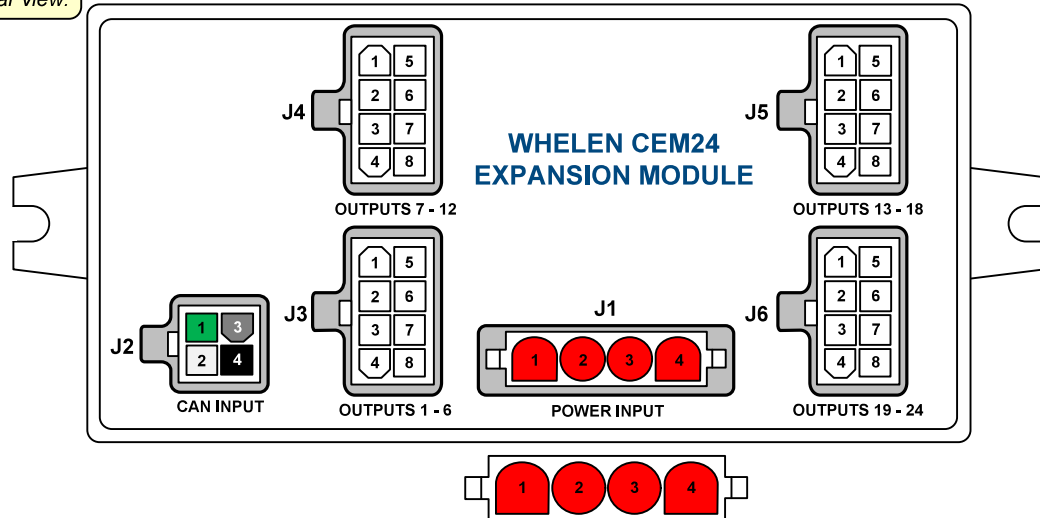
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 021825

ECN 000000

Note: Connectors shown in rear view.



J2 – CAN INPUT TO CEM24

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair
- Pin 4 Main Ground Input – 18 Ga. BK CEM24 Ground

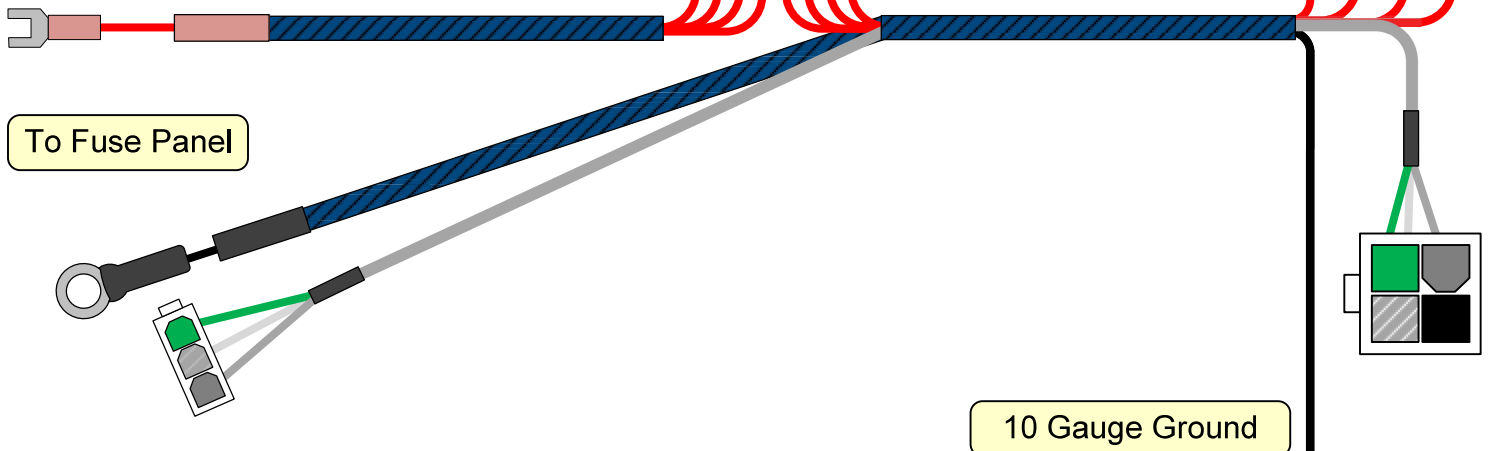
J1 – POWER INPUT

- Pin 1 Power Input 1 (15A) – 14 Ga. RD Power “POWER 1”
- Pin 2 Power Input 2 (15A) – 14 Ga. RD Power “POWER 2”
- Pin 3 Power Input 3 (15A) – 14 Ga. RD Power “POWER 3”
- Pin 4 Power Input 4 (15A) – 14 Ga. RD Power “POWER 4”

WCX-PWR180-C24

- Power – ¼” Ring at Battery
- 10 Ga. RD spliced to (4) 14 Ga. RD Power Wires
- Fuse 1, 15 Amp: 14 Ga. RD Power 1 to J1 Pin 1
- Fuse 2, 15 Amp: 14 Ga. RD Power 2 to J1 Pin 2
- Fuse 3, 15 Amp: 14 Ga. RD Power 3 to J1 Pin 3
- Fuse 4, 15 Amp: 14 Ga. RD Power 4 to J1 Pin 4

Sealed 4 Position
Fuse Holder with 4
15 Amp Fuses.



CAN INPUT TO CORE

- Pin 1 CAN H – 20 Ga. GN Twisted Pair
- Pin 2 Shield – 20 Ga. Shield
- Pin 3 CAN L – 20 Ga. GY Twisted Pair

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

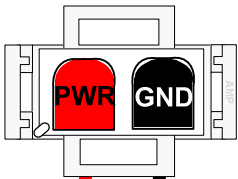
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 021825

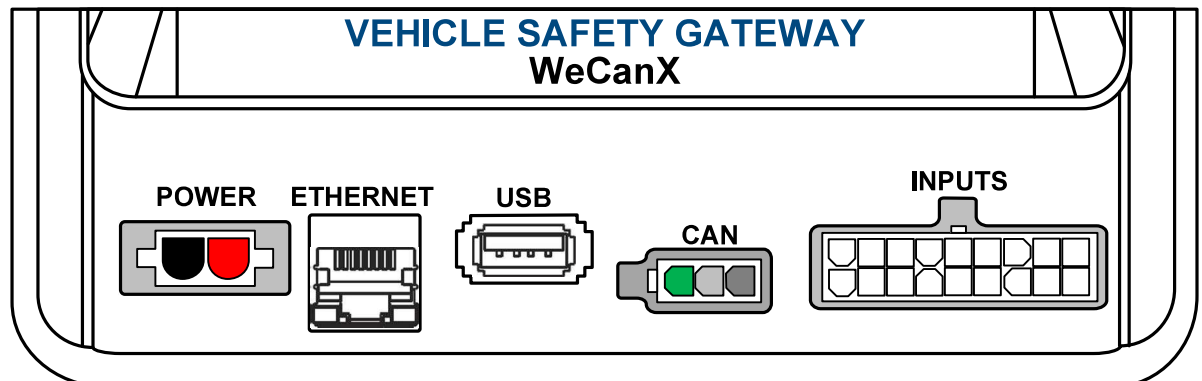
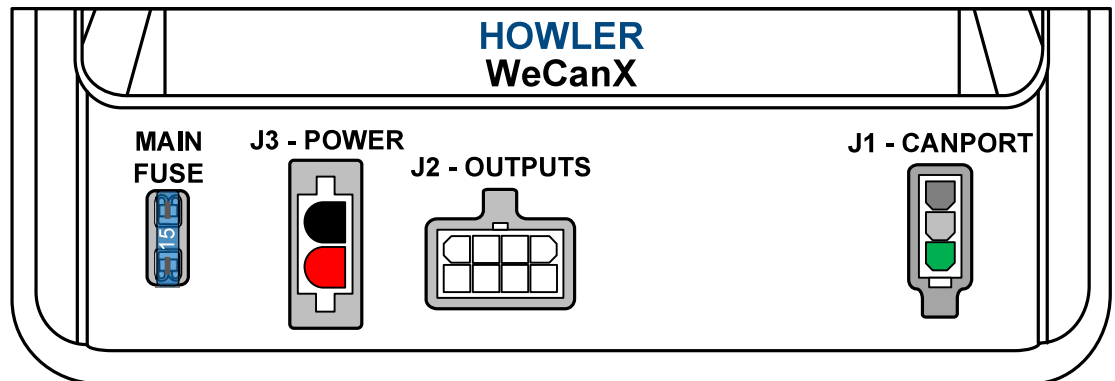
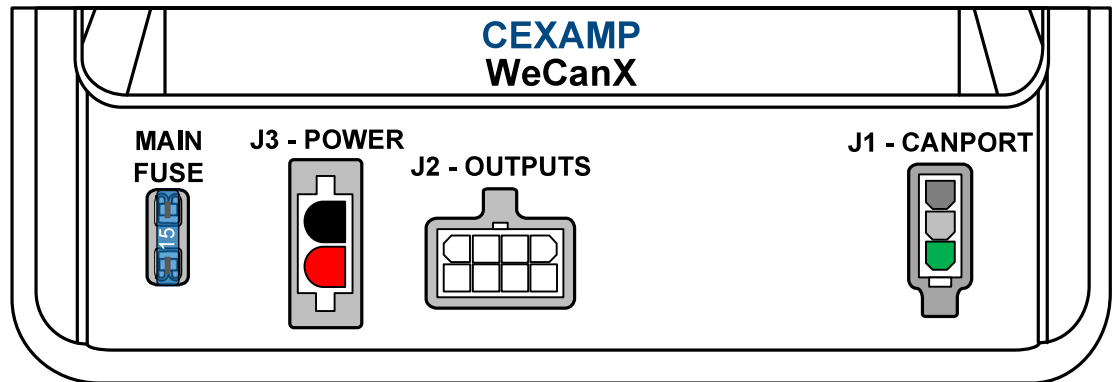
ECN 000000

Note: Connectors shown in rear view.



POWER

- Pin 1 – Device Main Power – 14 Ga. RD WeCanX Device Power “PWR”
- Pin 2 – Device Main Ground – 14 Ga. BK WeCanX Device Ground “GND”



To Fuse Panel

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

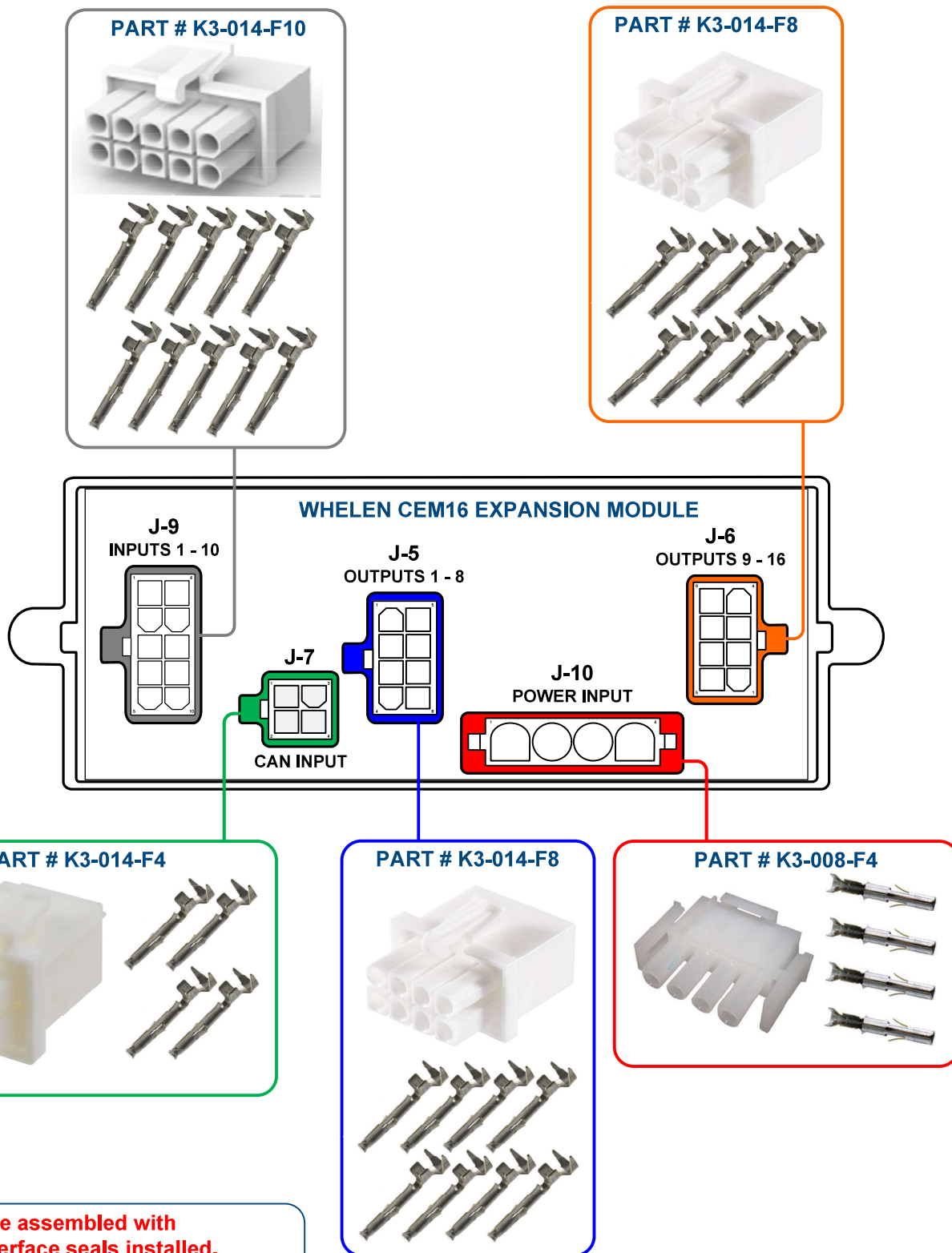
EDD 021825

ECN 000000

CK-CEM16

Whelen CEM16 Expansion Module Connector Kit

© AFS 2022



Connectors come assembled with wire seal and interface seals installed.

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 062320

ECN 000000

CONNECTOR CAVITY SEALING PLUGS



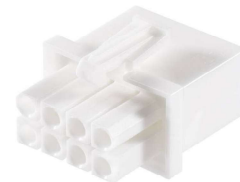
AFS # 3-014-P



AFS # 3-014-F8



AFS # 3-009-S1-1620



AFS # 3-014-F8



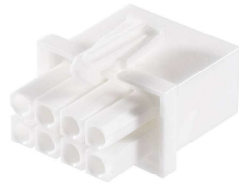
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AFS # 3-014-F4



AFS # 3-009-S1-1620



AFS # 3-014-F8



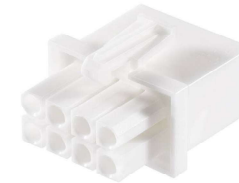
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AFS # 3-008-F4



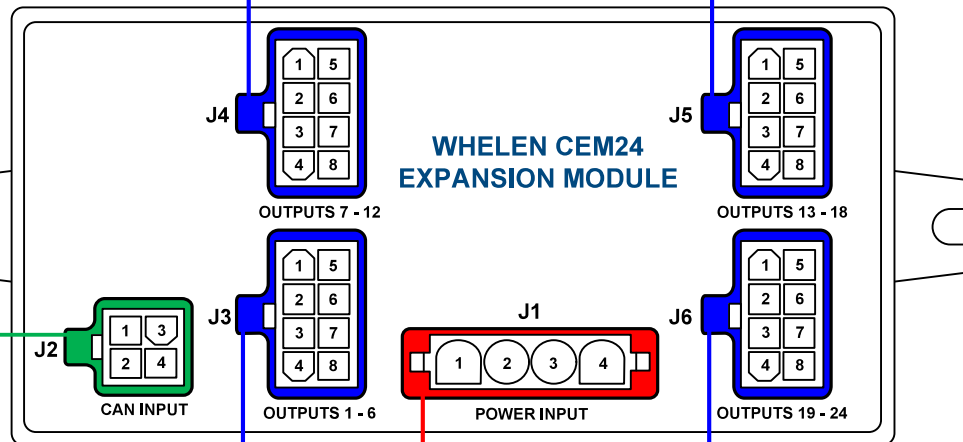
AFS # 3-008-S1-1420



AFS # 3-014-F8



AFS # 3-009-S1-1620



Connectors come assembled with wire seal and interface seals installed.



TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

Email: sales@allfleetsolutions.com

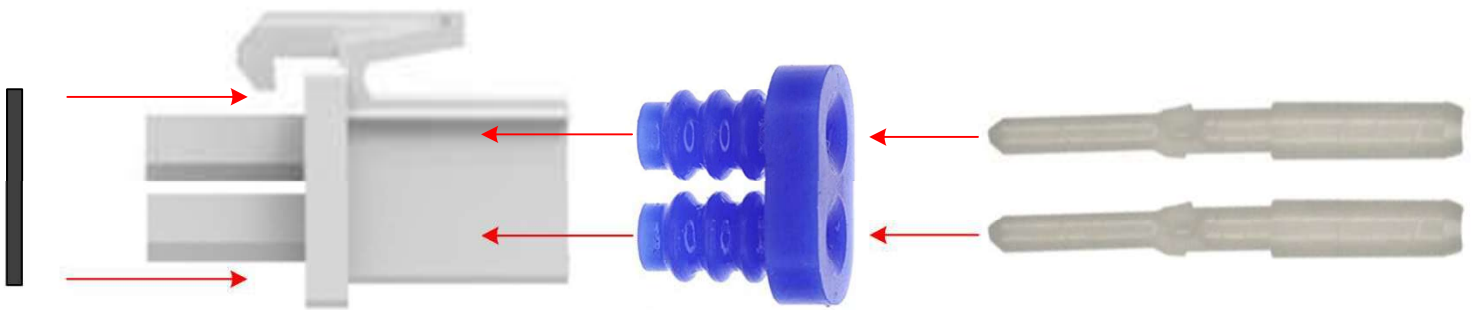
Web: www.allfleetsolutions.com

EDD 040225

ECN 000000

Assemble the connector by installing the wire seal & interface seal onto the connector & then seating the keying plugs into the connector before putting into the bag.

This connector is provided to ensure that the expansion module is properly sealed. Installer to plug in assembled connector into an empty 8 position connector slot, to ensure a complete seal, & longevity of product push hard when plugging into expansion module to ensure lock is activated.



(1) 8 Pos. Plug Interface Seal
• AFS # 3-014-G-I8



(8) Connector Keying Plug
• AFS # 3-014-P



(1) 8 Pos. Plug Wire Seal
• AFS # 3-014-G-8



(1) Sealed 8 Pos. Female Plug Connector
• AFS # 3-014-F8



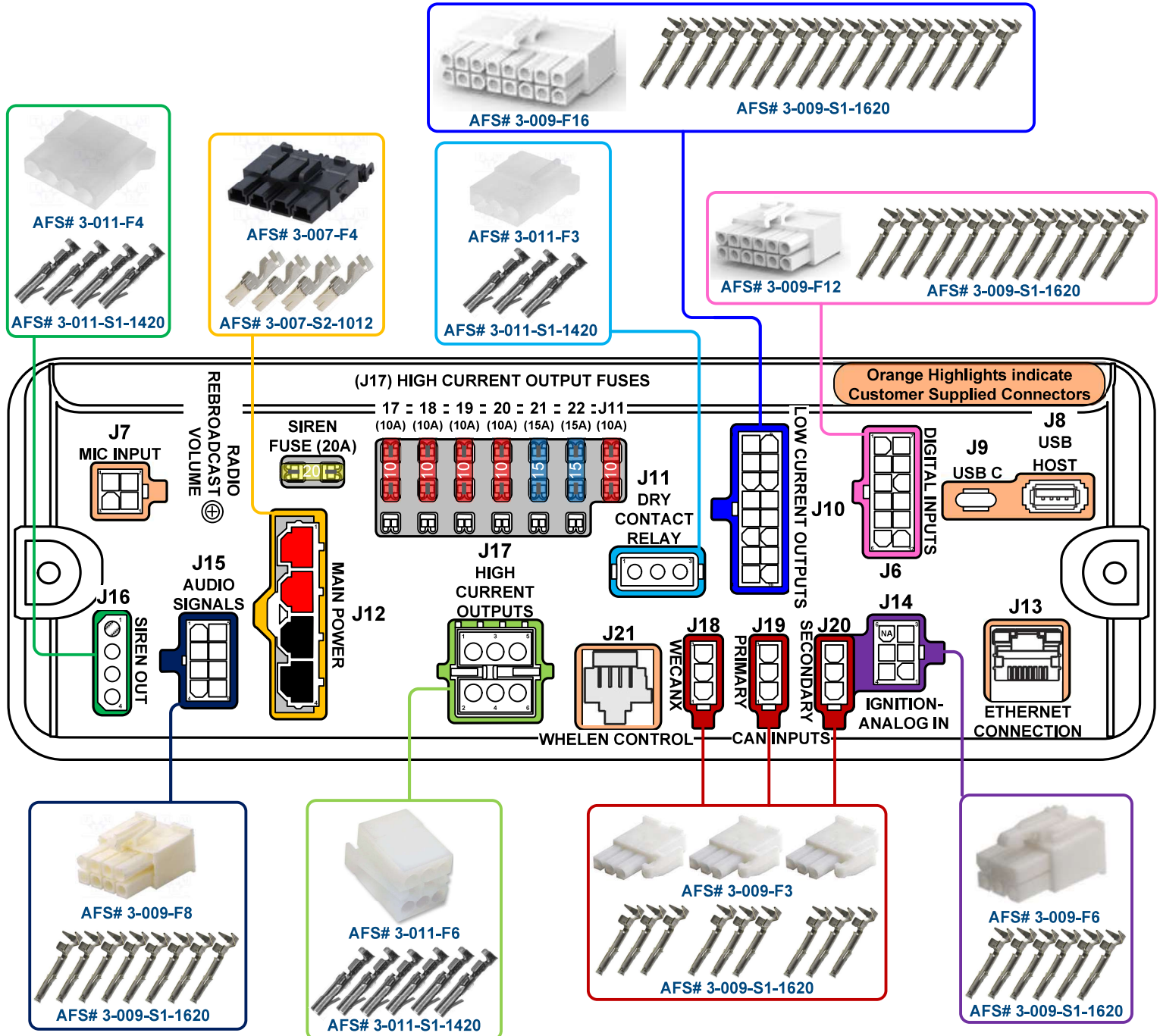
Front View



Rear View



Note: J7, J8, J9, J13 & J21 are Customer Supplied Connections



TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

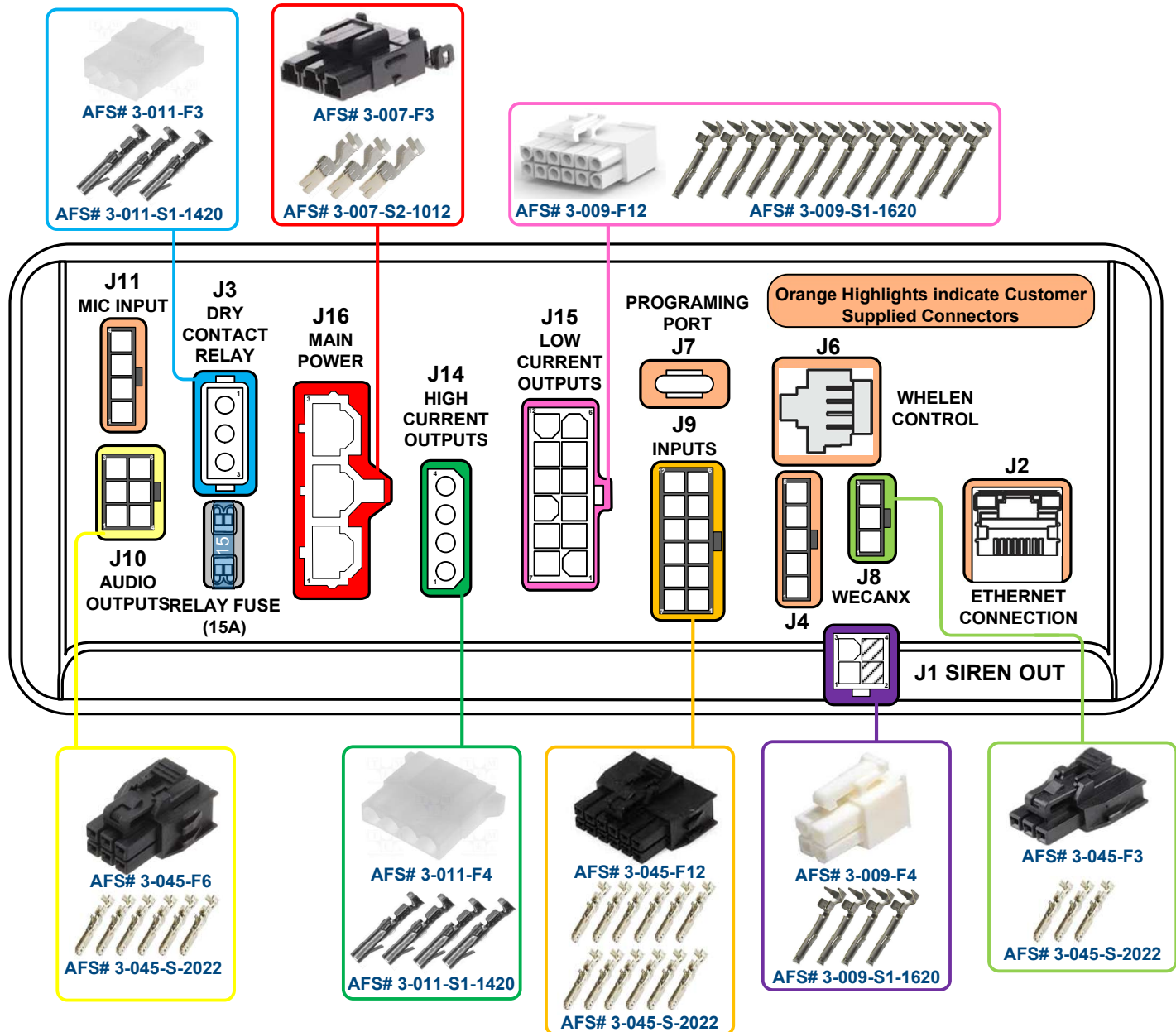
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 110120

ECN 000000

Note: J2, J4, J6, J7 & J11 are Customer Supplied Connections



TECHNICAL SUPPORT & SALES CONTACT:

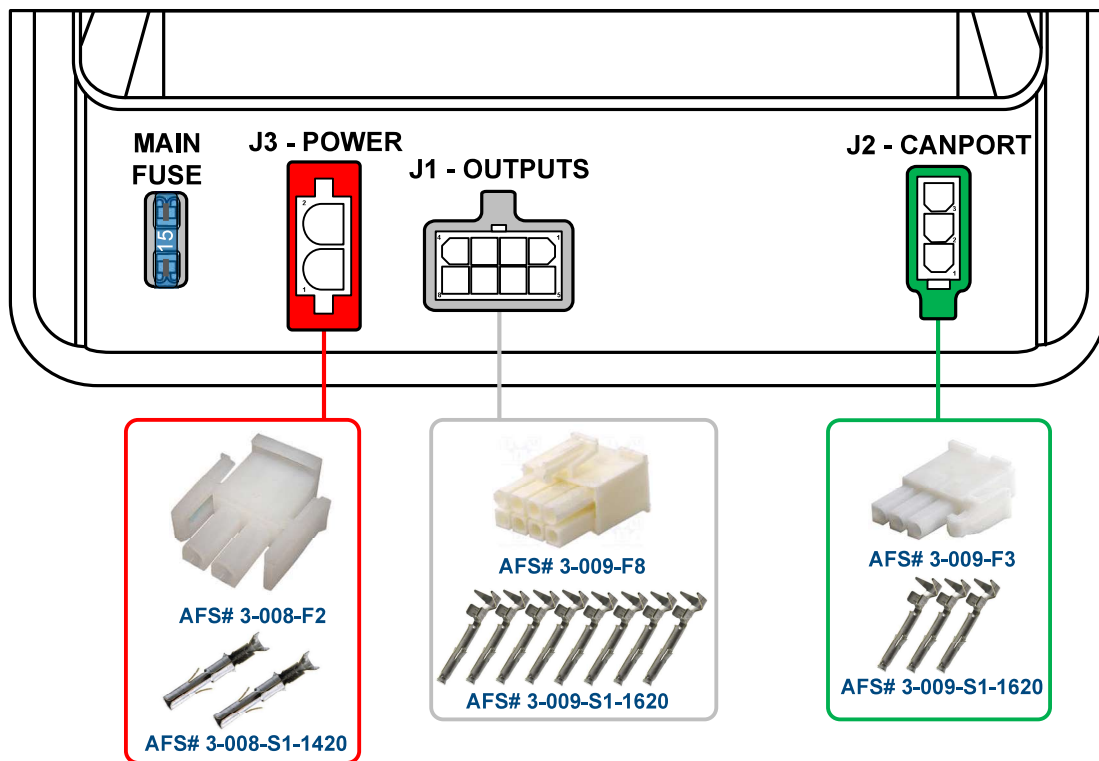
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 031225

ECN 000000



TECHNICAL SUPPORT & SALES CONTACT:

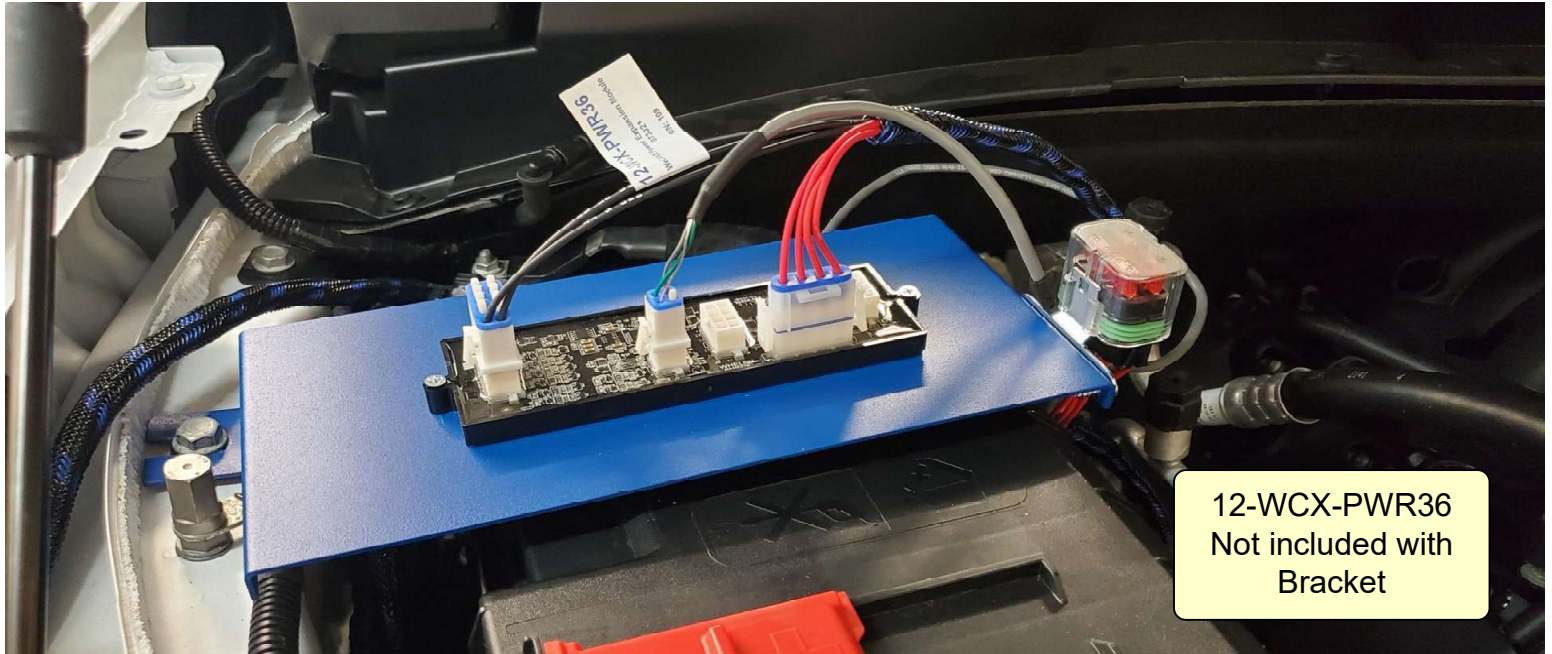
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

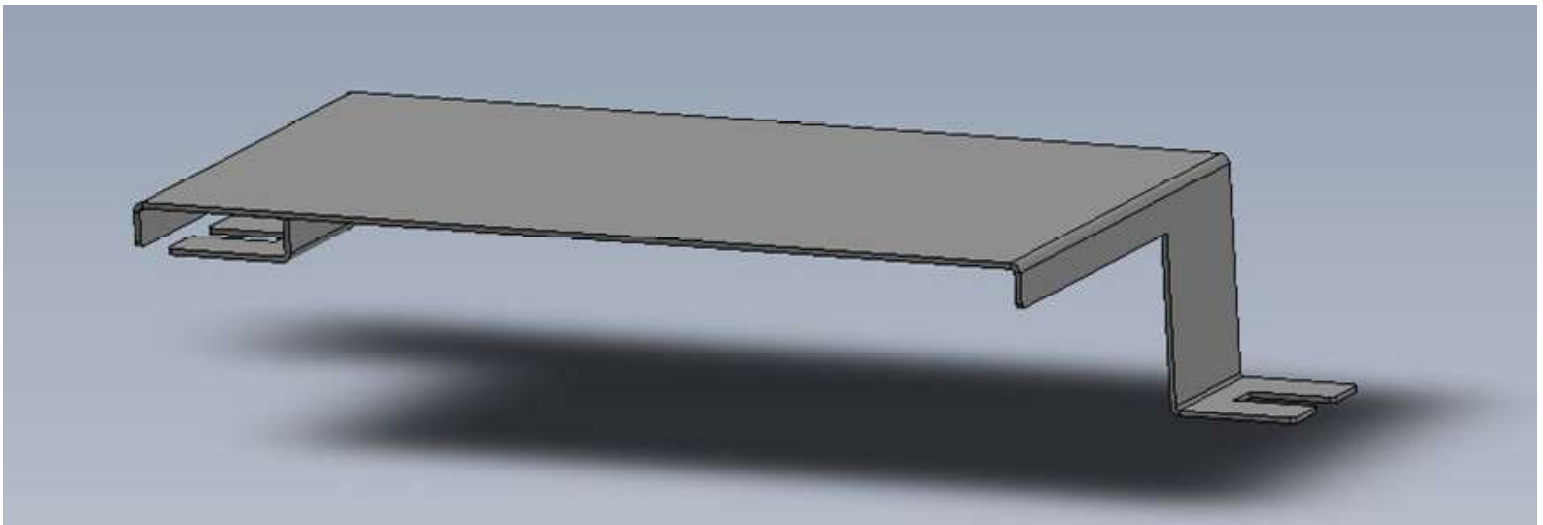
EDD 041323

ECN 000000



MB-CT001

- Powder Coated Aluminum
- Mounting Surface is 10 3/8 x 5 inches
- Fits Chevrolet Tahoe, Suburban, and Silverado Models
- Clears battery to allow bolt on of Module, Switches, and Fuse holders.



EDD 070720

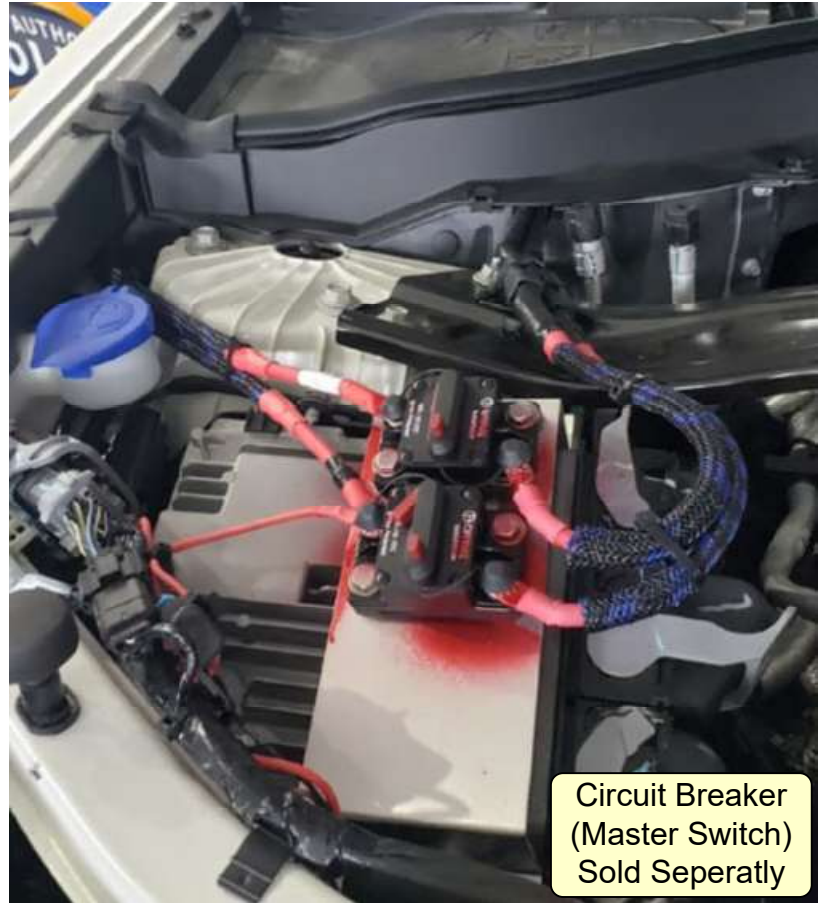
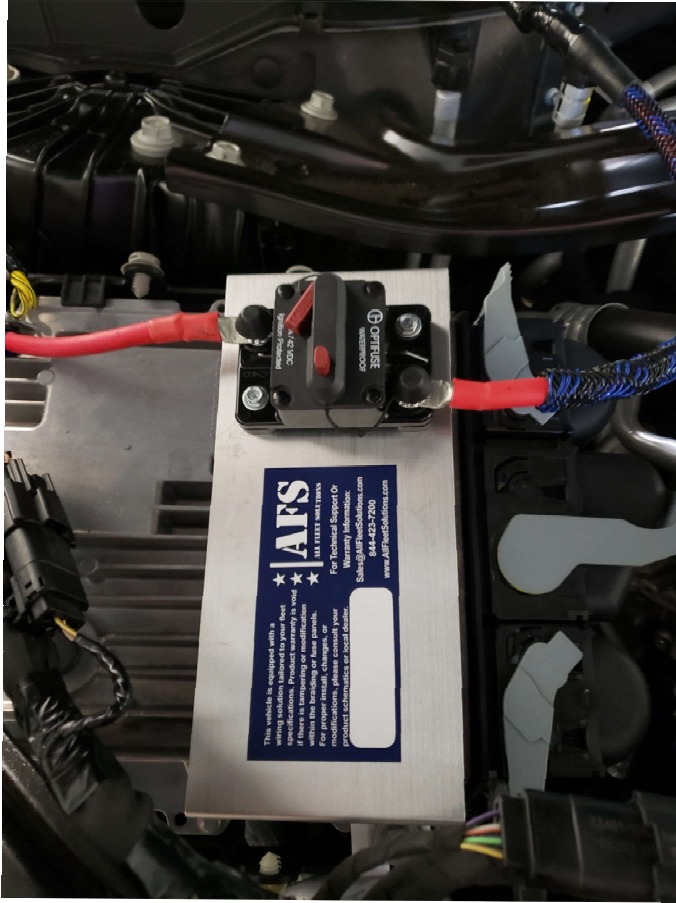
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TECHNICAL SUPPORT & SALES CONTACT:

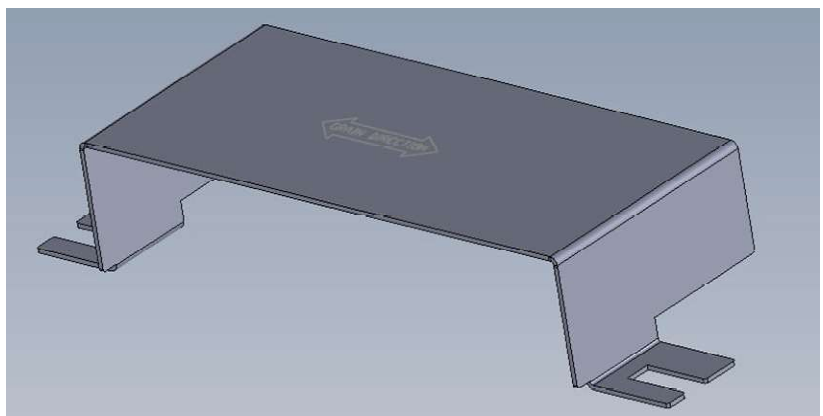
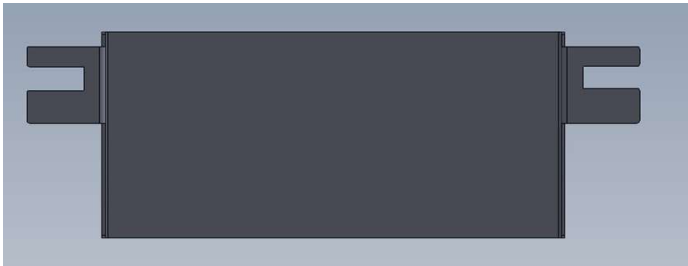
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com



Circuit Breaker
(Master Switch)
Sold Separately



MB-FPI001

- Powder Coated Aluminum
- Mounting Surface is 8 x 3.5 inches
- Fits Ford Interceptor Utility 2020+
- Clears battery to allow bolt on of Module, Switches, and Fuse holders.

EDD 070720

ECN 000000

TECHNICAL SUPPORT & SALES CONTACT:

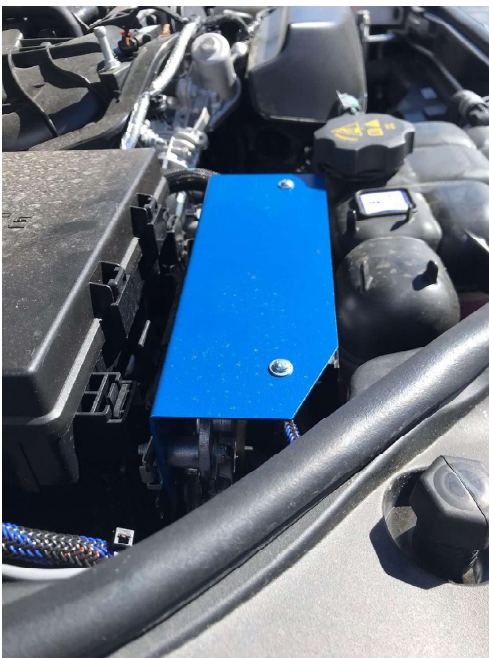
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

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MB-UH001

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