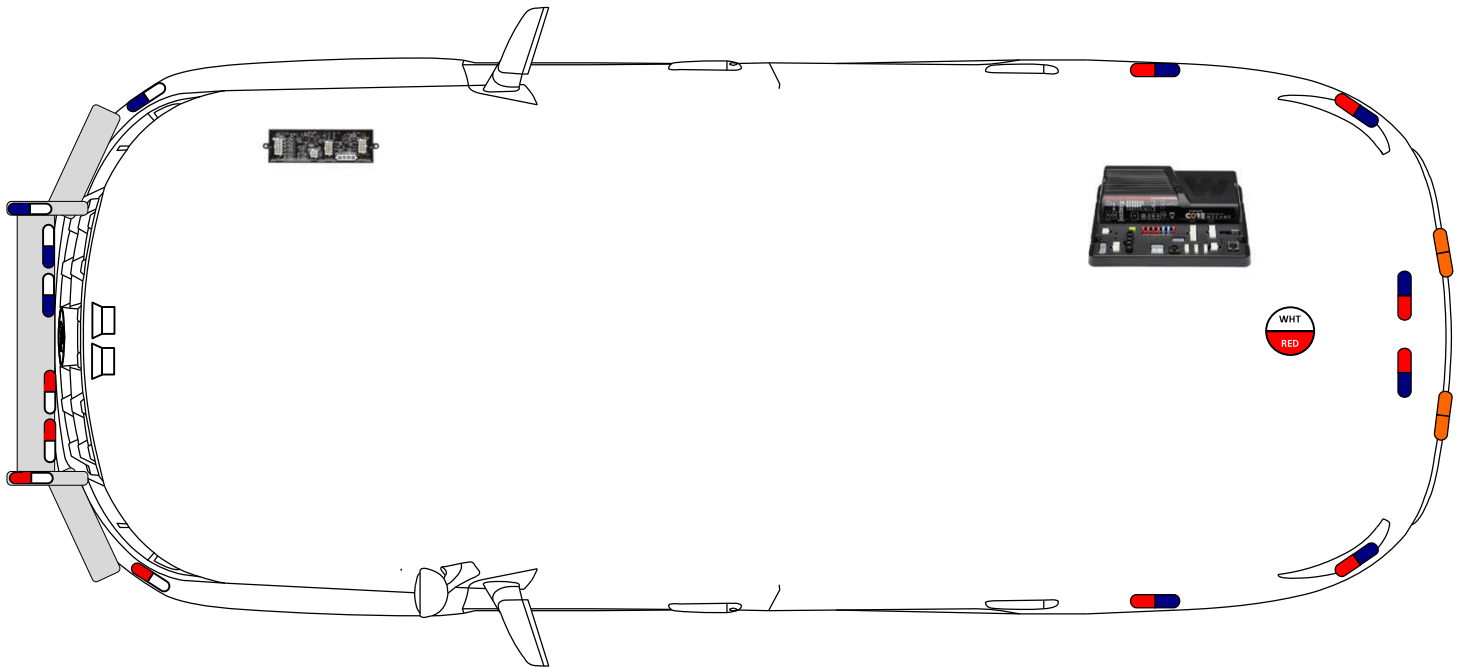
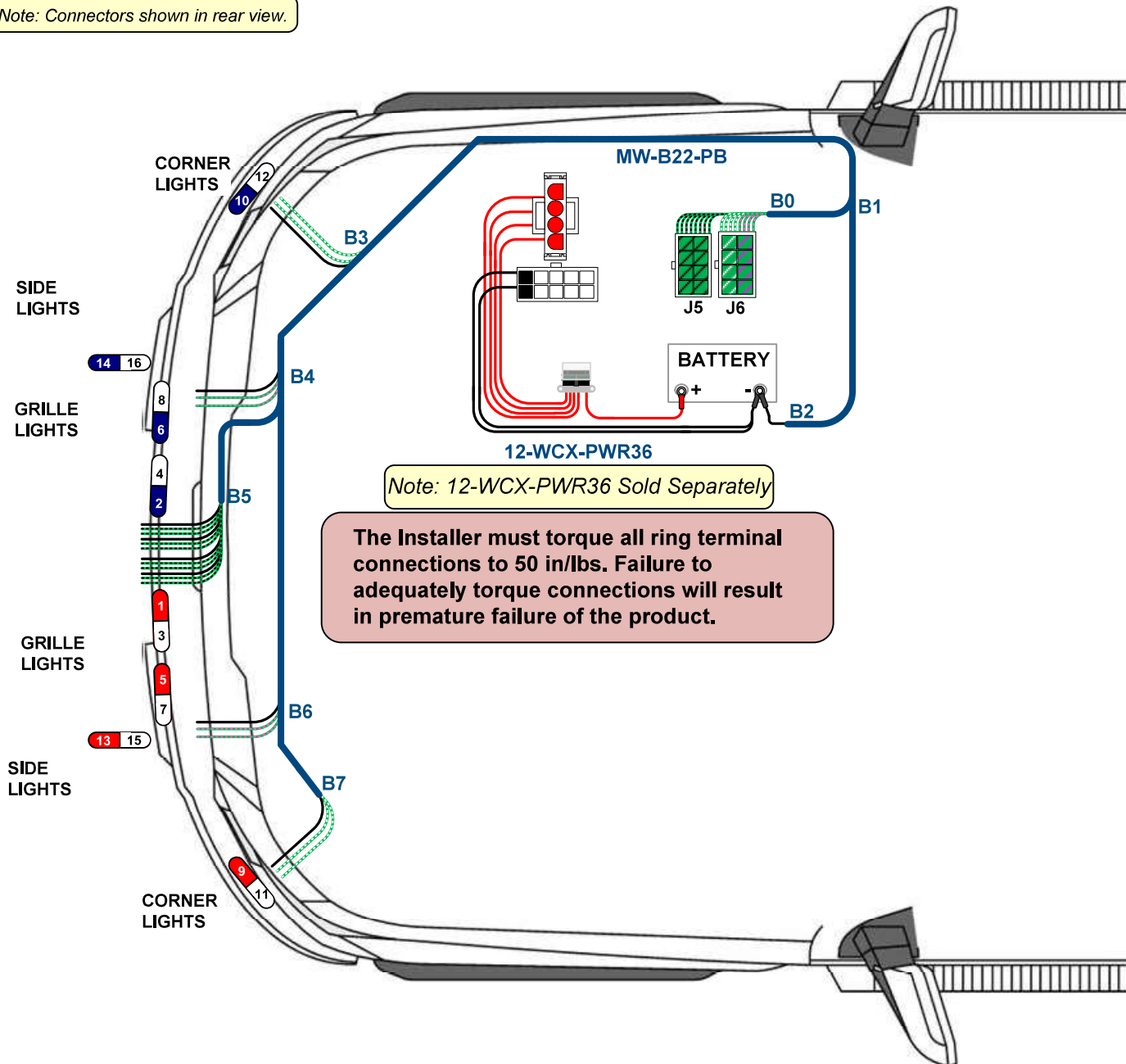




QK-WCX-250PB

**Dual Color Lighthouse Kit Supports Whelen
CenCom Core C399 WeCanX Siren**

Note: Connectors shown in rear view.



Note: 12-WCX-PWR36 Sold Separately

The Installer must torque all ring terminal connections to 50 in/lbs. Failure to adequately torque connections will result in premature failure of the product.

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

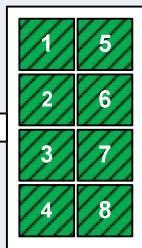
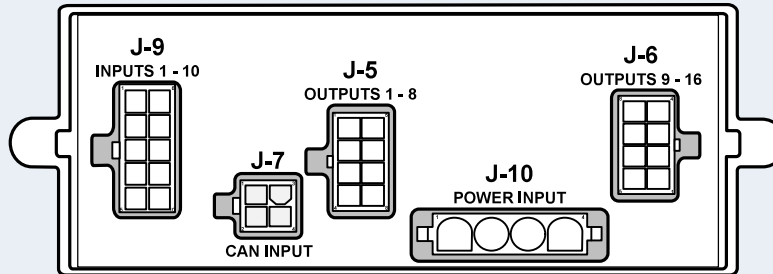
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 010621

ECN 000000

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”

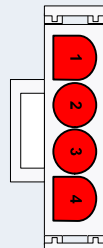


J-9 – INPUTS 1 thru 10 TO CEM16

- 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



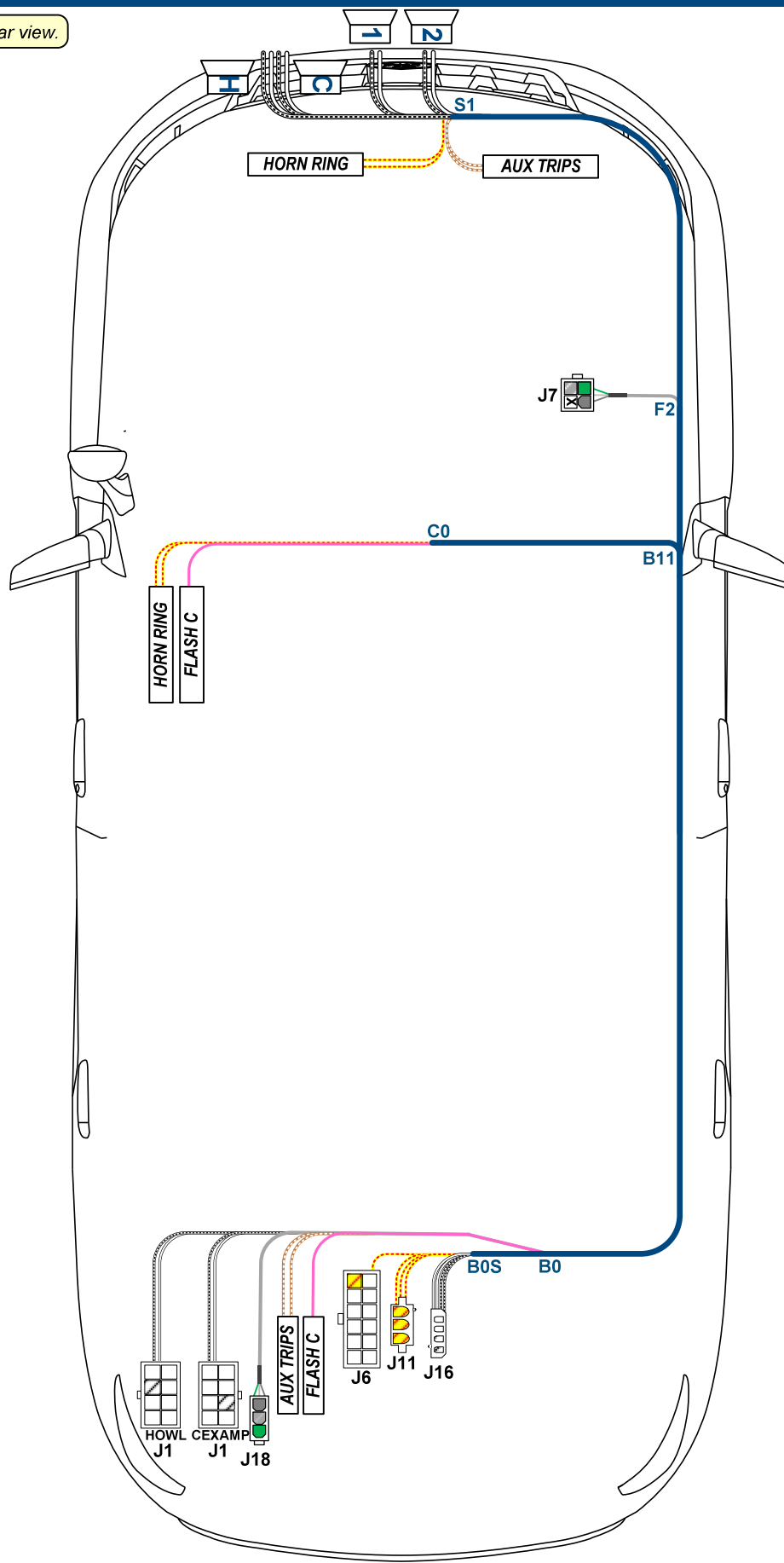
J-10 – POWER INPUT TO CEM16 FROM 12-WCX-PWR36*

- 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.



PRODUCTS SHOWN ON LAYOUT:

Data Cable & Speaker Harness: MW-DC25-2CH

TECHNICAL SUPPORT & SALES CONTACT:

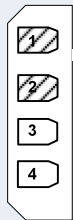
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

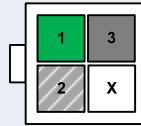
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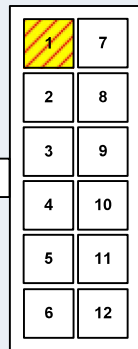
J16 – SIREN OUT

- 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”



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



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 –



J1 – HOWLER 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 – CEXAMP 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 (–) –

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.

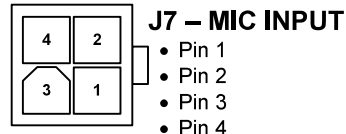
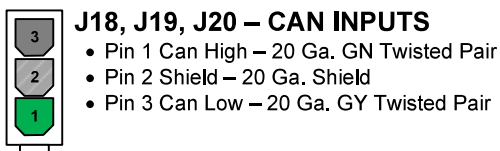
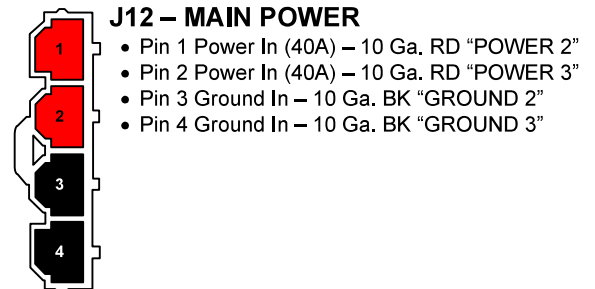
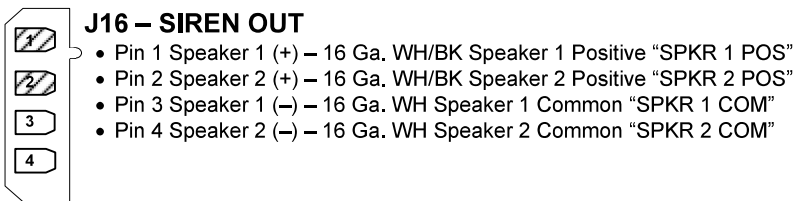
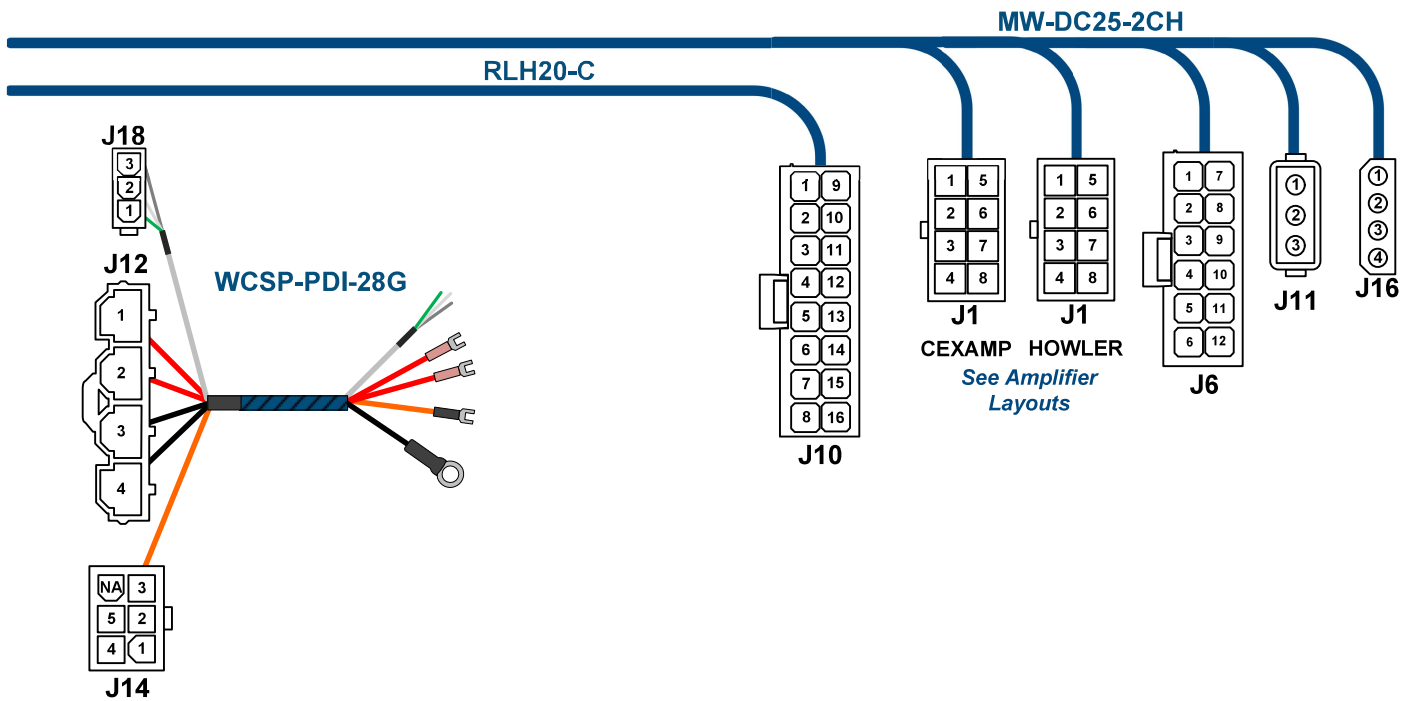
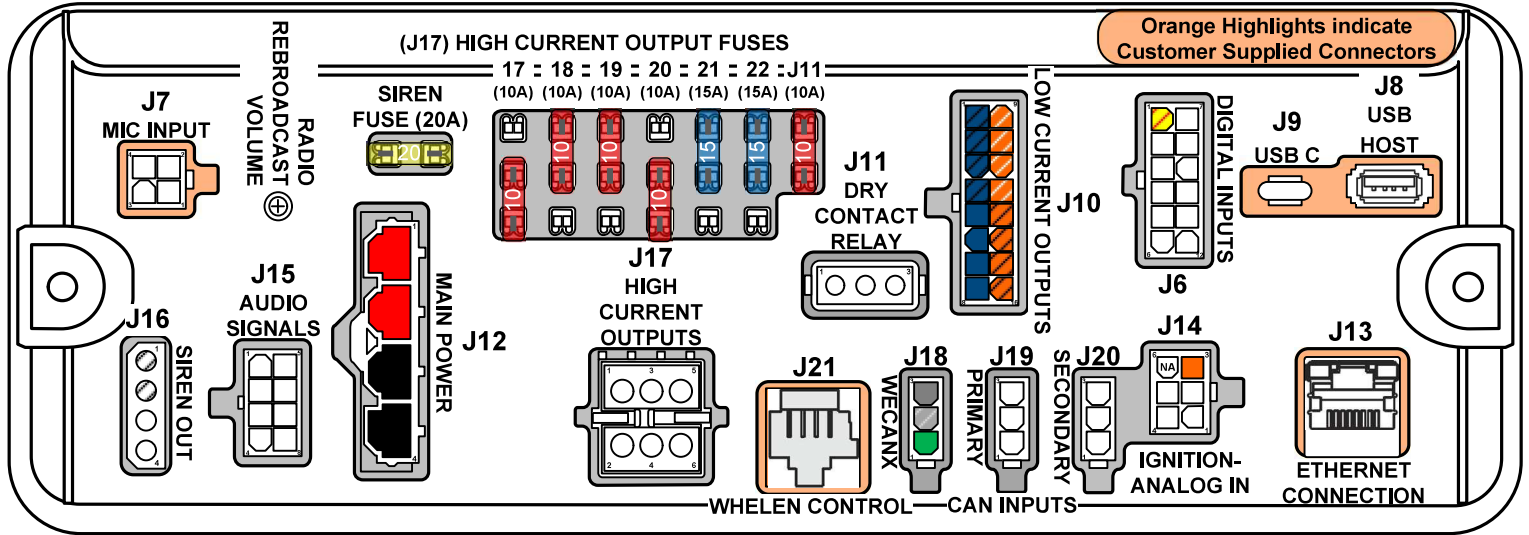


DIAGRAM KEY:

Data Cable & Speaker Harness: MW-DC25-2CH
Rear Lighting Harness: RLH20-C
Whelen Core C399 Power & Data Cable: WCSP-PDI-28G

TECHNICAL SUPPORT & SALES CONTACT:

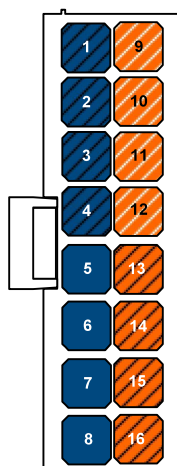
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

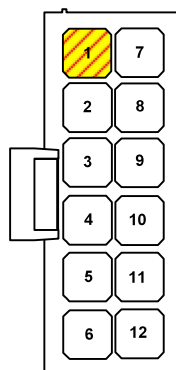
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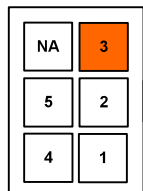
**J10 – LOW CURRENT OUTPUTS**

- Pin 1 Output 1 (2A) – 18 Ga. BL/BK Driver SUV Warning Light 43 “SUV LT 43” to Driver Rear ¼ Glass
- Pin 2 Output 2 (2A) – 18 Ga. BL/BK Pass. SUV Warning Light 44 “SUV LT 44” to Pass. Rear ¼ Glass
- Pin 3 Output 3 (2A) – 18 Ga. BL/BK Driver SUV Warning Light 45 “SUV LT 45” to Driver Rear ¼ Glass
- Pin 4 Output 4 (2A) – 18 Ga. BL/BK Pass. SUV Warning Light 46 “SUV LT 46” to Pass. Rear ¼ Glass
- Pin 5 Output 5 (2A) – 18 Ga. BL Driver Rear Warning Light 69 “RER W LT69” to Driver Rear Tail
- Pin 6 Output 6 (2A) – 18 Ga. BL Pass. Rear Warning Light 70 “RER W LT70” to Pass. Rear Tail
- Pin 7 Output 7 (2A) – 18 Ga. BL Driver Rear Warning Light 71 “RER W LT71” to Driver Rear Tail
- Pin 8 Output 8 (2A) – 18 Ga. BL Pass. Rear Warning Light 72 “RER W LT72” to Pass. Rear Tail
- Pin 9 Output 9 (2A) – 18 Ga. OR/WH Driver Trunk Lights 75 “TRUNK LT75” to Rear Hatch Area
- Pin 10 Output 10 (2A) – 18 Ga. OR/WH Pass. Trunk Lights 76 “TRUNK LT76” to Rear Hatch Area
- Pin 11 Output 11 (2A) – 18 Ga. OR/WH Driver Trunk Lights 77 “TRUNK LT77” to Rear Hatch Area
- Pin 12 Output 12 (2A) – 18 Ga. OR/WH Pass. Trunk Lights 78 “TRUNK LT78” to Rear Hatch Area
- Pin 13 Output 13 (2A) – 18 Ga. OR/BK Driver Tag Light 63 “LP LT 63” to Rear License Plate Area
- Pin 14 Output 14 (2A) – 18 Ga. OR/BK Pass. Tag Light 64 “LP LT 64” to Rear License Plate Area
- Pin 15 Output 15 (2A) – 18 Ga. OR/BK Driver Tag Light 65 “LP LT 65” to Rear License Plate Area
- Pin 16 Output 16 (2A) – 18 Ga. OR/BK Pass. Tag Light 66 “LP LT 66” to Rear License Plate Area

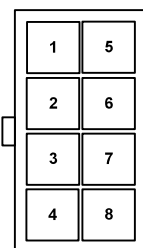
43
44
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66

**J6 – DIGITAL INPUTS**

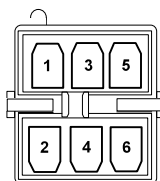
- Pin 1 Input 1 – 16 Ga. YW/RD Horn Input “HORN TRANS” from J11 Pin 1
- Pin 2 Input 2 –
- Pin 3 Input 3 –
- Pin 4 Input 4 –
- Pin 5 Input 5 –
- Pin 6 Input 6 –
- Pin 7 Input 7 –
- Pin 8 Input 8 –
- Pin 9 Input 9 –
- Pin 10 Input 10 –
- Pin 11 Input 11 –
- Pin 12 Input 12 –

**J14 – IGNITION-ANALOG IN**

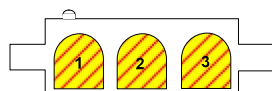
- Pin 1 Analog 1 (+) –
- Pin 2 Analog 2 (+) –
- Pin 3 Ignition In – 18 Ga. OR Core Siren Ignition Input, (3A) “CORE IGN” from WCSP-PDI-28G
- Pin 4 Analog 4 (+) –
- Pin 5 Analog 5 (+) –
- Pin 6 Not Used

**J15 – AUDIO SIGNALS**

- Pin 1 Radio In (+) –
- Pin 2 Aux In (+) –
- Pin 3 Cab Speaker (+) –
- Pin 4 Aux Out (+) –
- Pin 5 Radio In (–) –
- Pin 6 Aux In (–) –
- Pin 7 Cab Speaker (–) –
- Pin 8 Aux Out (–) –

**J17 – HIGH CURRENT OUTPUTS**

- Pin 1 Output 19 (10A) –
- Pin 2 Output 18 (10A) –
- Pin 3 Output 20 (10A) –
- Pin 4 Output 17 (10A) –
- Pin 5 Output 21 (15A) –
- Pin 6 Output 22 (15A) –

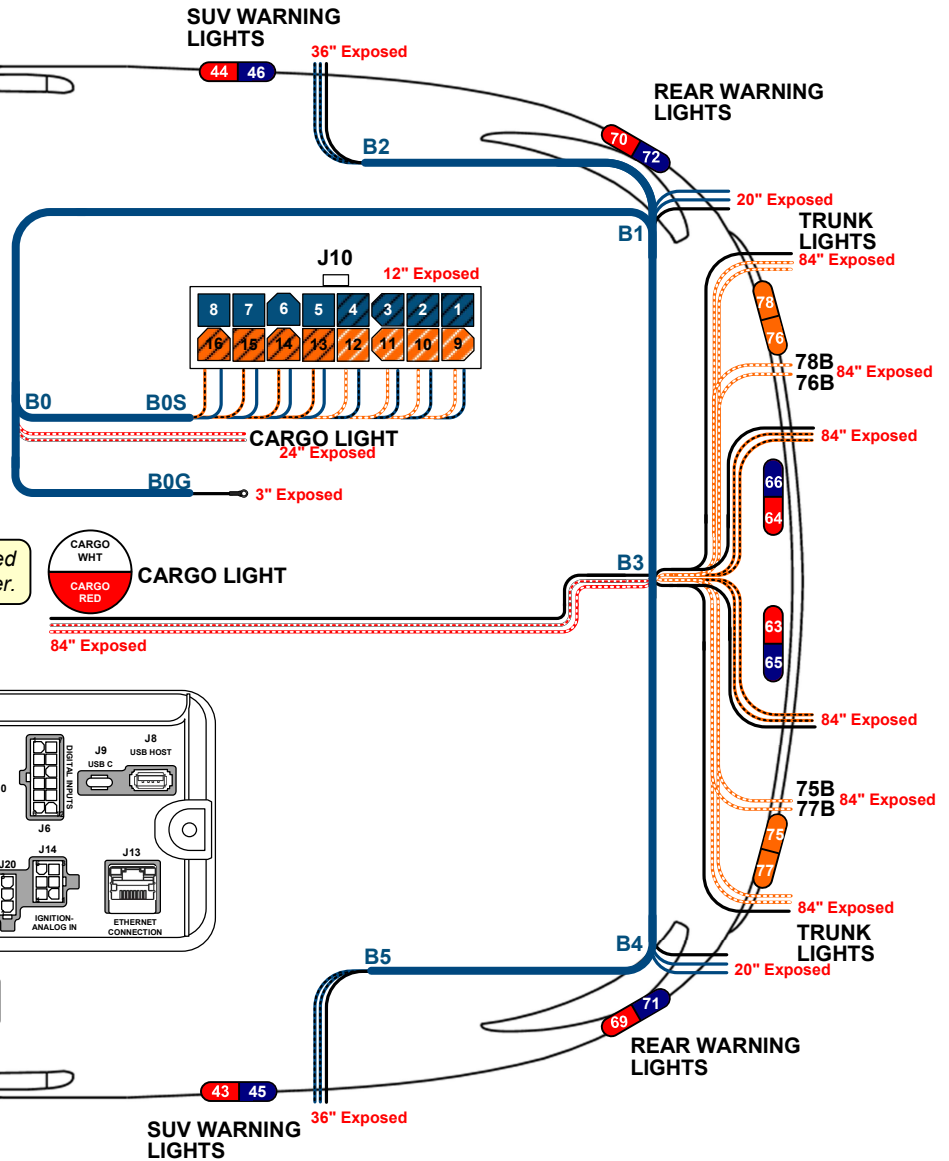
**J11 – DRY CONTACT RELAY**

- Pin 1 Normally Open – 16 Ga. YW/RD Horn Relay Transfer “HORN TRANS” to J6 Pin 1
- Pin 2 Common – 16 Ga. YW/RD Horn Relay Input “HORN RING” to Vehicle Interface Area & Underhood
- Pin 3 Normally Closed – 16 Ga. YW/RD Horn Relay Output “HORN” to Vehicle Interface Area & Underhood

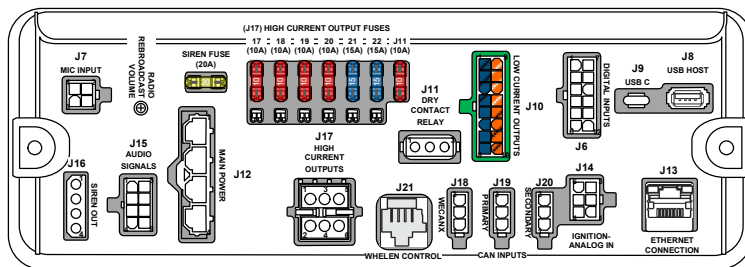
Note: Connectors shown in rear view.

B MEASUREMENTS

- B0S to B0 = 12"
- B0G to B0 = 21"
- B0 to B1 = 101"
- B1 to B2 = 27"
- B1 to B3 = 44"
- B3 to B4 = 49"
- B4 to B5 = 24"



Note: Cargo Light can be installed on the Liftgate or in the Headliner.



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

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 24"
- 18 Ga. WH/RD Cargo Light White "CAR LT WHT" Pigtail 24"
- 18 Ga. BK Cargo Light Ground "CARGO GND" to Ground Assembly

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

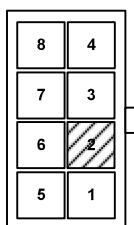
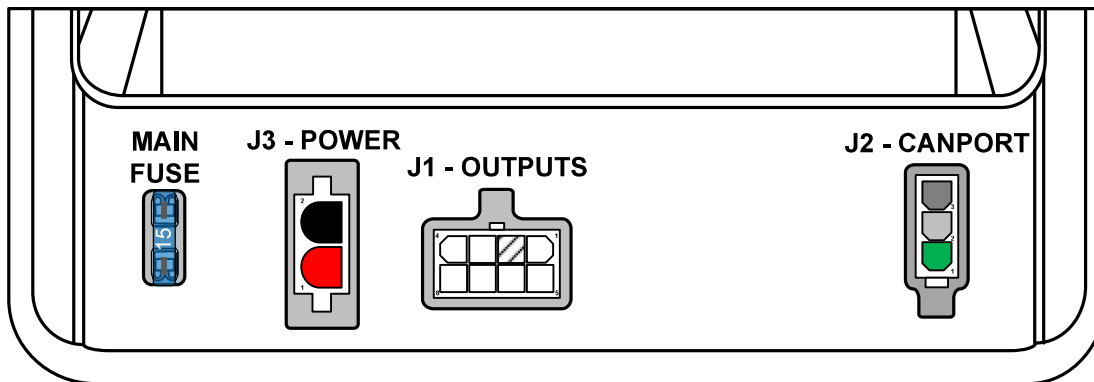
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 100422

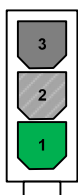
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Note: Connectors shown in rear view.



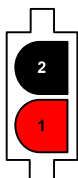
J1 – CEXAMP AMPLIFIER – FROM MW-DC25-2CH

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



J2 – CANPORT – FROM WCX-PWR24-D

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



J3 – CANPORT – FROM WCX-PWR24-D

- Pin 1 Main Power (15A) – 14 Ga. RD Howler Amplifier Power “PWR”
- Pin 2 Main Ground – 14 Ga. BK Howler Amplifier Ground “GND”

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

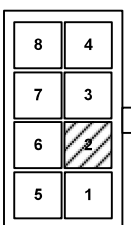
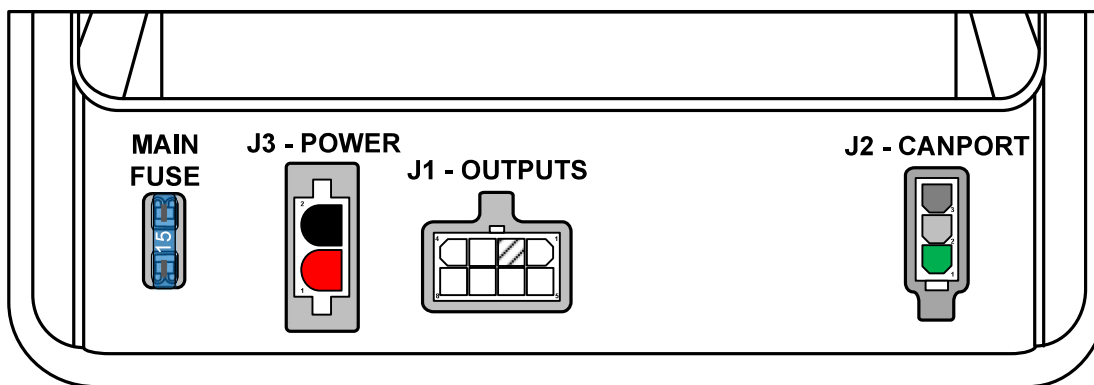
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 110725

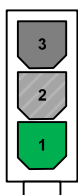
ECN 000000

Note: Connectors shown in rear view.



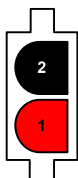
J1 – HOWLER AMPLIFIER – FROM MW-DC25-2CH

- Pin 1 Amp Out 1 (+) –
- Pin 2 Amp Out 2 (+) – 16 Ga. WH/BK Chowler Speaker Positive "CHOWLR POS" to Chowler Speaker
- Pin 3 Amp Out 1 (–) –
- Pin 4 Amp Out 2 (–) – 16 Ga. WH Chowler Speaker Common "CHOWLR COM" to Chowler Speaker
- Pin 5 Aux Out 1 (+) –
- Pin 6 Aux Out 1 (–) –
- Pin 7 Aux In 1 (+) –
- Pin 8 Aux In 1 (–) –



J2 – CANPORT – FROM WCX-PWR24-D

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



J3 – CANPORT – FROM WCX-PWR24-D

- Pin 1 Main Power (15A) – 14 Ga. RD Howler Amplifier Power "PWR"
- Pin 2 Main Ground – 14 Ga. BK Howler Amplifier Ground "GND"

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

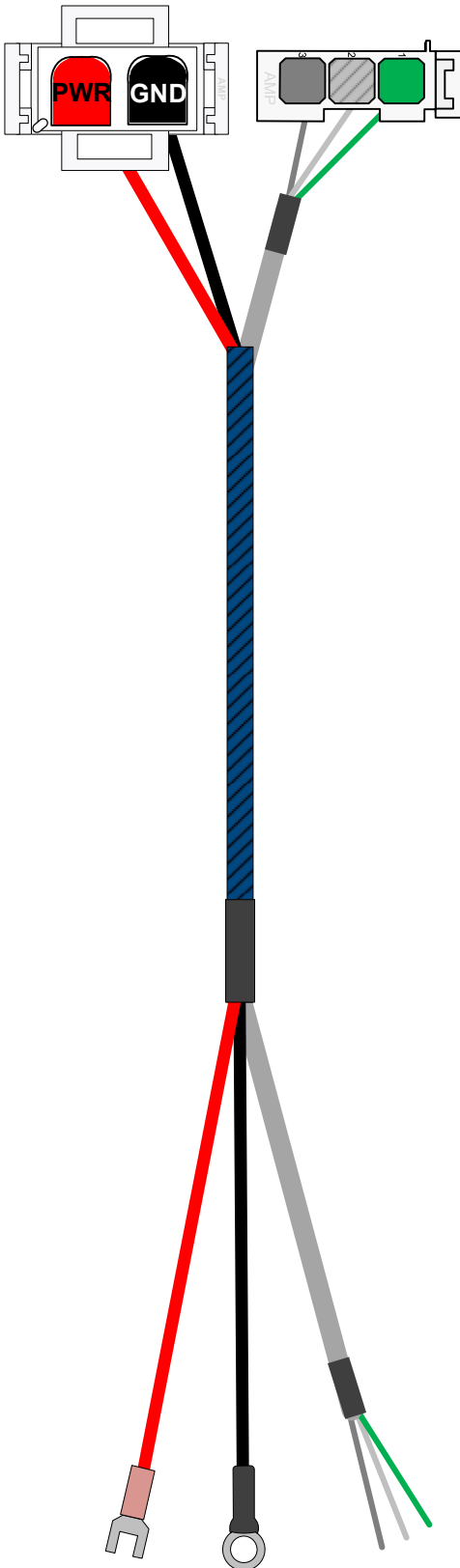
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 110725

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Note: Connectors shown in rear view.



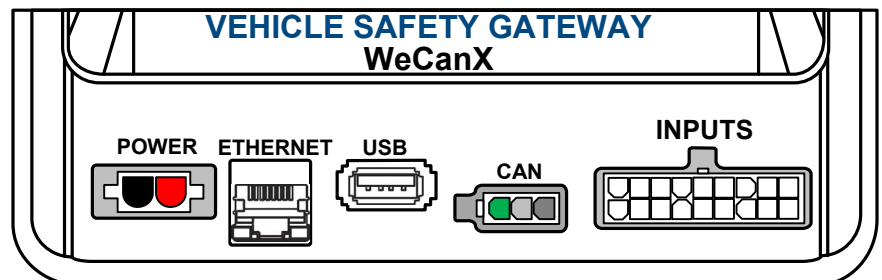
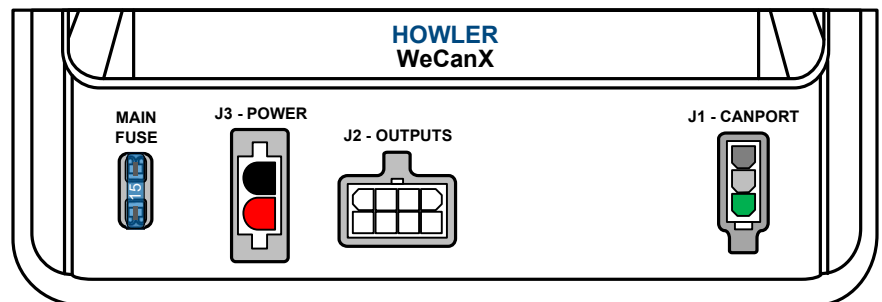
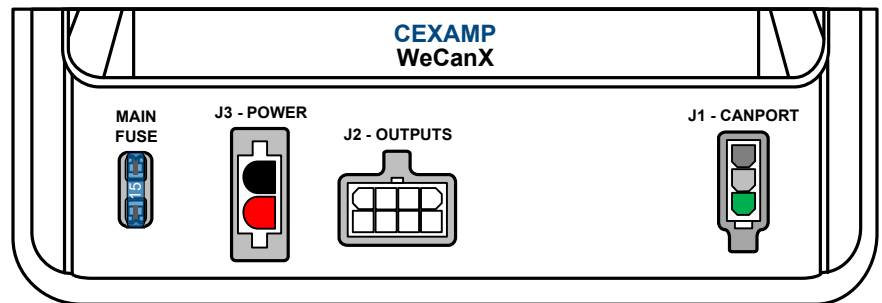
To Fuse Panel

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”

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



Note: This cable will provide power and data to the above WeCanX devices.

TECHNICAL SUPPORT & SALES CONTACT:

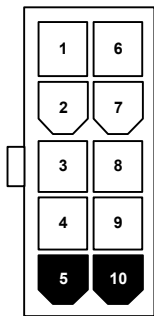
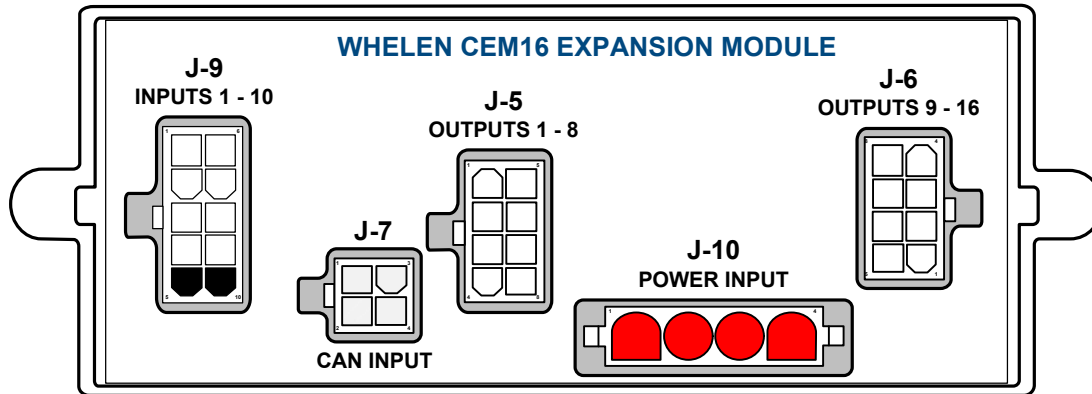
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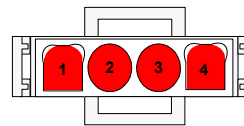
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ECN 000000



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”



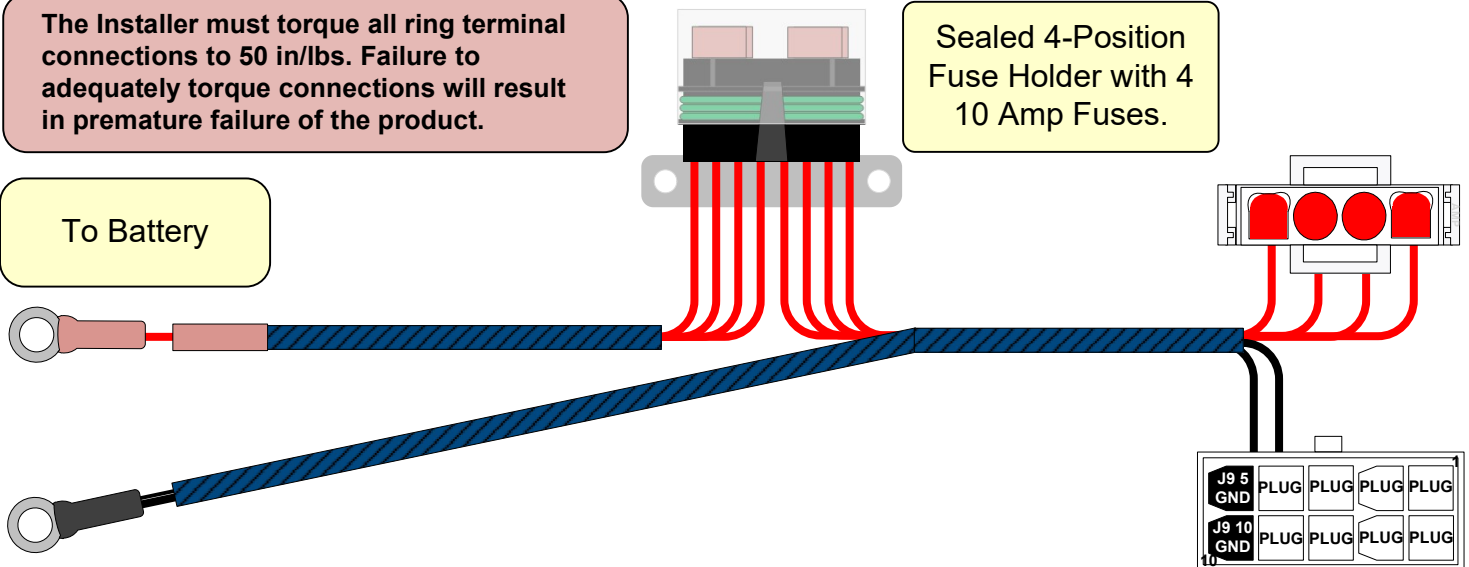
J-10 – POWER INPUT

- 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”

The Installer must torque all ring terminal connections to 50 in/lbs. Failure to adequately torque connections will result in premature failure of the product.

To Battery

Sealed 4-Position Fuse Holder with 4 10 Amp Fuses.



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:

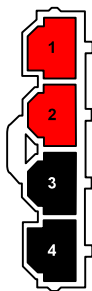
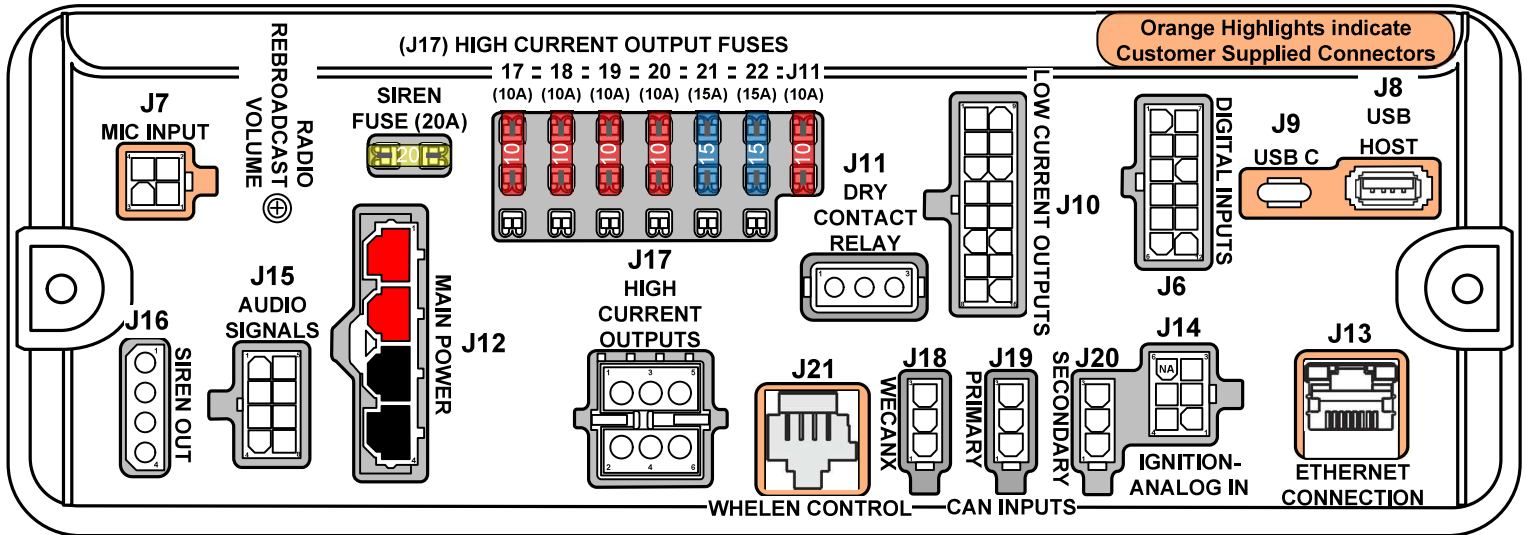
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 070720

ECN 000000



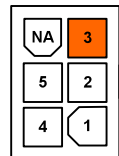
J12 – MAIN POWER

- 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”



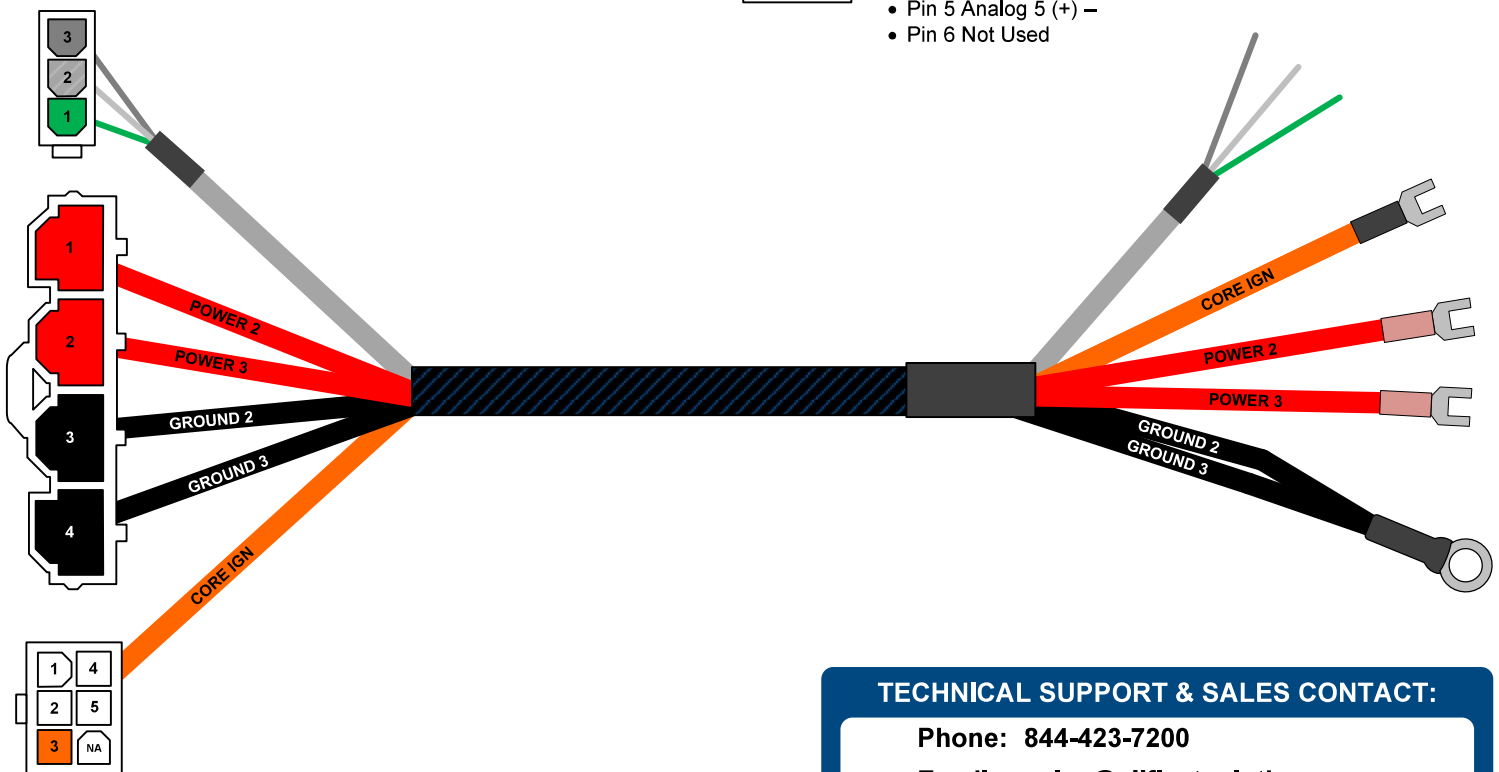
J18 CAN INPUTS

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



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 (+) –
- Pin 6 Not Used



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Input Wire Fuse and Gauge:

- Fuse the input wire as close to the power source as is practical.
- The power input wire and ground stud wire must be the same gauge and should be sized based upon the intended load and wire length.
- 125 amps or less at 25' = 6 Ga.
- 50 amps or less at 25' = 8 Ga.

M6 Ground Bus:

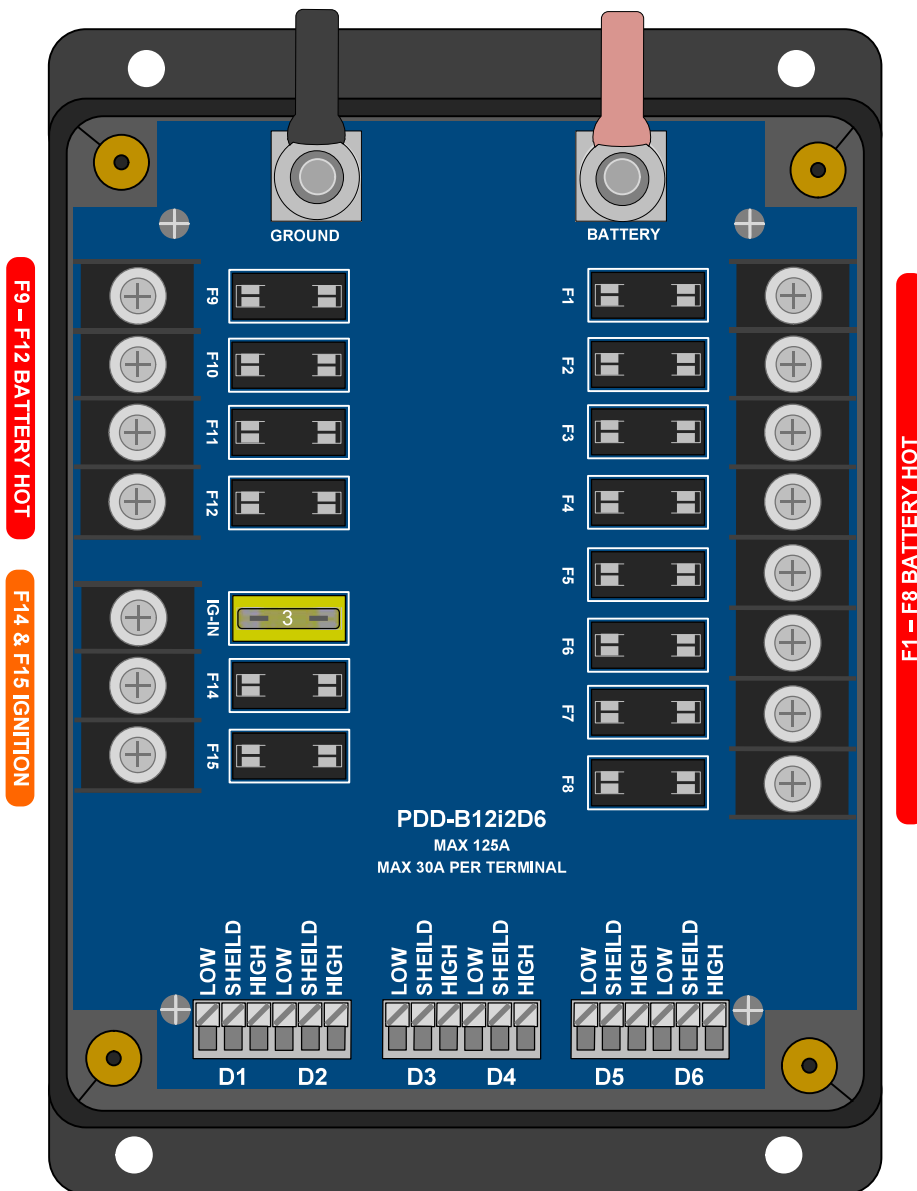
- M6 Stud: Main Ground to Battery
- 120 Amp Max Total Load

M6 Power Input:

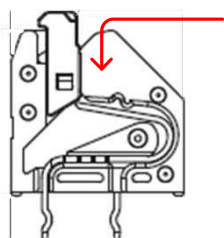
- M6 Power Input, 125 Amp Fuse
Required with a 6 Ga. Wire.

Can Data Connectivity:

- H – Can High
- S – Shield
- L – Can Low

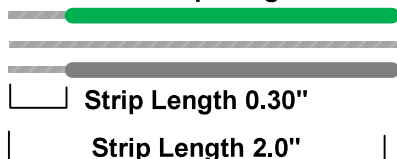


Lever Lock
Push Down to Release



Insert Wire to the
Mechanical Stop

Data Cable Strip Length Guide



Data Connector:

The CAN bus connector features a spring lock design and does not require a terminal connector on the wire.

Drawing Scale 1:1

Do Not Exceed Torque Setting Damage Will Occur!

- Power and Ground M6 Inch Studs: 50 in/lb.
- Terminals Block Screws Torque: 15 in/lb.

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Email: sales@allfleetsolutions.com

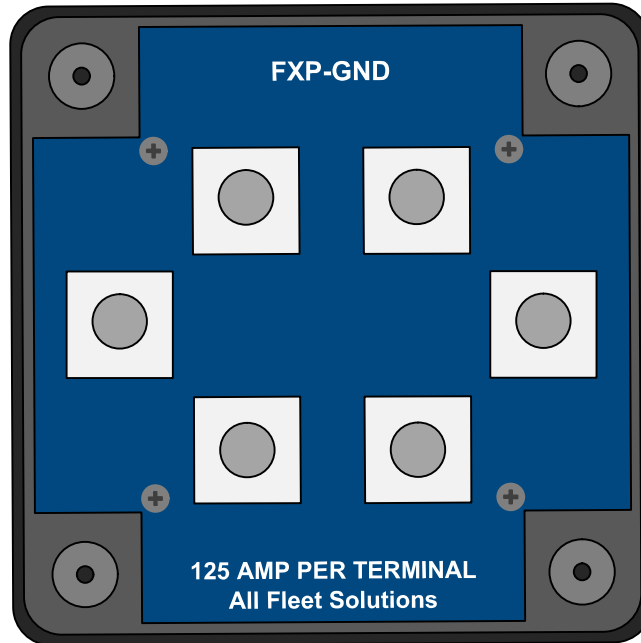
Web: www.allfleetsolutions.com

EDD 031825

ECN 000000

AFS 6-Stud Ground Bus

- AFS # FXP-GND



- Stud Torque – 50 in/lbs

1/4" Ring



(1) 12-6GA GND BLK 18-22

- 1/4" Ring to 1/4" Ring
- Midi Fuse Torque Spec Label
- Recommended Ground wire from FXP-GND to CTF or Power Series Fuse Panels

TECHNICAL SUPPORT & SALES CONTACT:

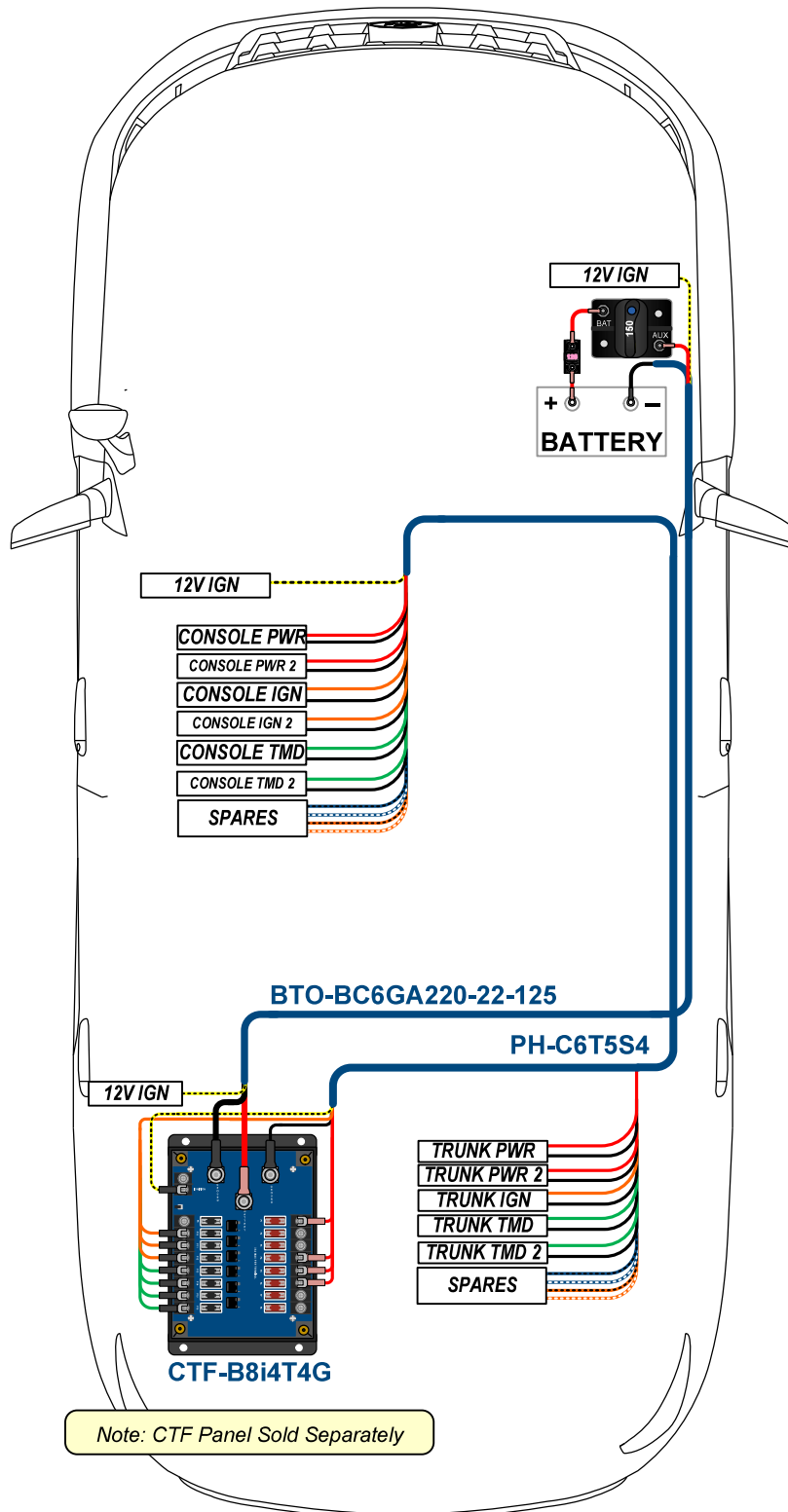
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 021324

ECN 000000



BATTERY CABLE:

BTO-BC6GA220-22-125

- 6 Ga. RD Power (125A) 220"
- 6 Ga. BK Ground 220"
- 18 Ga. YW/BK 12V Ignition Sense
- 150 Amp Circuit Breaker
- 125 Amp Midi Fuse
- Midi Fuse Holder
- 6 Ga. Power 6" Battery to Midi Fuse
- 6 Ga. Power 12" Circuit Breaker to Fuse Panel

CONSOLE POWER CIRCUITS:

CONSOLE POWER

- 10 Ga. RD Console Power 1 (30A) "POWER 1" from CTF F1
- 10 Ga. BK Console Ground 1 "GROUND 1" from Ground Stud

CONSOLE POWER 2

- 12 Ga. RD Console Power 2 (20A) "POWER 4" from CTF F4
- 12 Ga. BK Console Ground 2 "GROUND 4" to from Ground Stud

CONSOLE IGNITION 1

- 12 Ga. OR Console Ignition 2 (20A) "IGN 2" from CTF F10
- 12 Ga. BK Console Ignition Ground 2 "IGN 2 GND" from Ground Stud

CONSOLE IGNITION 2

- 12 Ga. OR Console Ignition 3 (20A) "IGN 3" from CTF F11
- 12 Ga. BK Console Ignition Ground 3 "IGN 3 GND" from Ground Stud

CONSOLE TIMED 1

- 12 Ga. GN Console Timed 1 (20A) "TIMED 1" from CTF F13
- 12 Ga. BK Console Timed Ground 1 "TMD 1 GND" from Ground Stud

CONSOLE TIMED 2

- 12 Ga. GN Console Timed 2 (20A) "TIMED 2" from CTF F14
- 12 Ga. BK Console Timed Ground 2 "TMD 2 GND" from Ground Stud

SPARE TRIGGERS

- 18 Ga. BL/BK Spare Trigger 1 "TRIGGER 1" from Trunk Breakout
- 18 Ga. BL/WH Spare Trigger 2 "TRIGGER 2" from Trunk Breakout
- 18 Ga. OR/BK Spare Trigger 3 "TRIGGER 3" from Trunk Breakout
- 18 Ga. OR/WH Spare Trigger 4 "TRIGGER 4" from Trunk Breakout

REAR POWER CIRCUITS:

TRUNK POWER

- 10 Ga. RD Trunk Power (30A) "POWER 5" from CTF F5
- 10 Ga. BK Trunk Ground "GROUND 5" from Ground Stud

TRUNK POWER 2

- 12 Ga. RD Trunk Power 2 (20A) "POWER 6" to CTF F6
- 12 Ga. BK Trunk Ground 2 "GROUND 6" to Ground Stud

TRUNK IGNITION

- 12 Ga. OR Trunk Ignition (20A) "IGN 4" from CTF F12
- 12 Ga. BK Trunk Ignition Ground "IGN 4 GND" from Ground Stud

TRUNK TIMED 1

- 12 Ga. GN Trunk Timed 1 (20A) "TIMED 3" from CTF F15
- 12 Ga. BK Console Timed Ground 1 "TMD 3 GND" from Ground Stud

TRUNK TIMED 2

- 12 Ga. GN Trunk Timed 2 (20A) "TIMED 4" from CTF F16
- 12 Ga. BK Trunk Timed Ground 2 "TMD 4 GND" from Ground Stud

SPARE TRIGGERS

- 18 Ga. BL/BK Spare Trigger 1 "TRIGGER 1" to Trunk Breakout
- 18 Ga. BL/WH Spare Trigger 2 "TRIGGER 2" to Trunk Breakout
- 18 Ga. OR/BK Spare Trigger 3 "TRIGGER 3" to Trunk Breakout
- 18 Ga. OR/WH Spare Trigger 4 "TRIGGER 4" to Trunk Breakout

CTF-B8i4T4G FUSE PANEL

- See CTF-B8i4T4G Instructions

Note: The power distribution solution shown here is sold separately.

PRODUCTS SHOWN ON LAYOUT:

Fuse Panel: CTF-B8i4T4G

Fuse Panel Output Harness: PH-C6T5S4

Battery Cable: BTO-BC6GA220-22-125

Products Shown on these pages are not included in the QK-WCX-250PB.

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Email: sales@allfleetsolutions.com

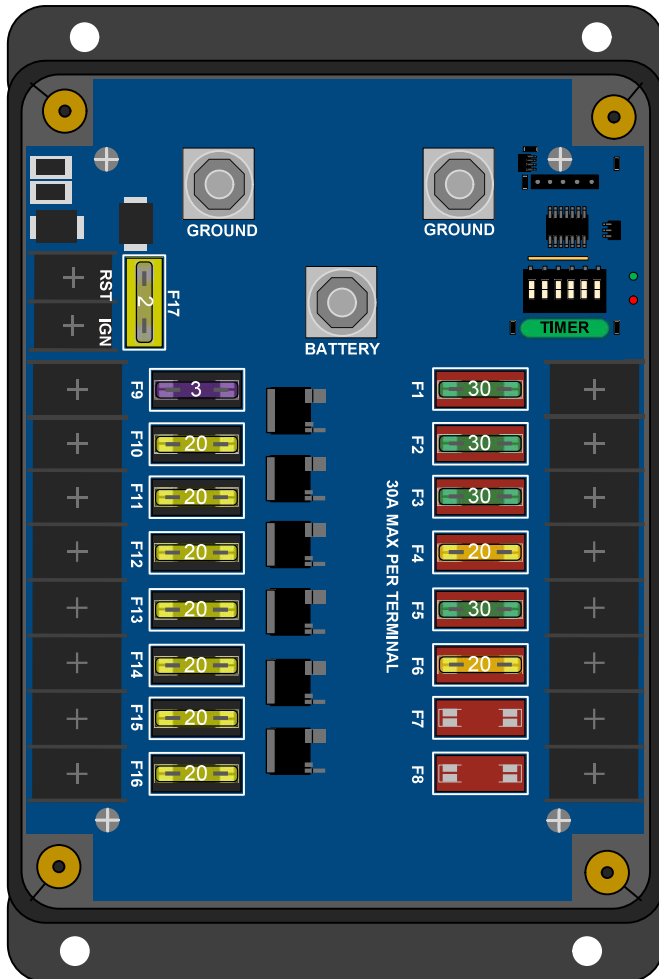
Web: www.allfleetsolutions.com

EDD 110725

ECN 000000

CTF-B8i4T4G Customer Configuration:

The CTF-B8i4T4G Power Distribution Center provides 8 Battery Hot, 4 Ignition Hot, and 4 Timed Hot outputs. The CTF-B8i4T4G is rated for 125A of total load and 30A per terminal.



Specifications:

- 30A max per terminal.
- #6 Fork Terminals should be torqued to 18 in/lbs.
- M6 Bolts on Power and Ground studs should be torqued to 50 in/lbs.
- Customer supplied MINI fuses should be sized to 125% of the designed circuit load.

Inputs:

- M6 Power Input, 125 amp fuse required with a 6 Ga. wire.
- Ignition Input activates Timer and Ignition circuits.
- Reset Terminal: When 12 VDC is present at this terminal the Timed Outputs shut off.

Ground Studs:

- Two M6 Studs Utilized as a ground bus.
- 125 amp max total load

Battery Hot Circuits: 30 Amps Max Per Fuse, F1 to F8

- F1: 10 Ga. RD Console Power 1 (30A) "POWER 1" to Console
- F2: 10 Ga. RD Core Power (30A) "POWER 2" from Core Power Cable
- F3: 10 Ga. RD Core Power (30A) "POWER 3" from Core Power Cable
- F4: 12 Ga. RD Console Power 2 (20A) "POWER 4" to Console
- F5: 10 Ga. RD Trunk Power 1 (30A) "POWER 5" to Rear Tray
- F6: 12 Ga. RD Trunk Power 2 (20A) "POWER 6" to Rear Tray
- F7:
- F8:

Ignition Hot Circuits: 30 Amps Max Per Fuse, F9 to F12

- F9: 18 Ga. OR Core Ignition (3A) "CORE IGN" from Core Power Cable
- F10: 12 Ga. OR Console Ignition 1 (20A) "IGN 2" to Console
- F11: 12 Ga. OR Console Ignition 2 (20A) "IGN 3" to Console
- F12: 12 Ga. OR Trunk Ignition (20A) "IGN 4" to Rear Tray

Timed Hot Circuits: 30 Amps Max Per Fuse, F13 to F16

- F9: 12 Ga. GN Console Timed 1 (20A) "TIMED 1" to Console
- F10: 12 Ga. GN Console Timed 2 (20A) "TIMED 2" to Console
- F11: 12 Ga. GN Trunk Timed 1 (20A) "TIMED 3" to Rear Tray
- F12: 12 Ga. GN Trunk Timed 2 (20A) "TIMED 4" to Rear Tray



To see our full line of power distribution systems, visit www.allfleetsolutions.com



AFS Part #	Part Description	QTY.	Shipped	Received
MW-B22-PB	Front Lighting Harness for Whelen CEM16	1.00	✓	✓
12-WCX-PWR36	Whelen CEM16 Power Cable	1.00		
MW-DC25-2CH	Data Cable & Speaker Harness for Whelen Core C399	1.00		
RLH20-C	Rear Lighting Harness for Whelen Core C399	1.00		
WCSP-PDI-28G	Whelen Core C399 Power , Data & Ignition Pigtail	1.00		
PDD-B12i2D6	Power & Data Distribution Panel	1.00		
WCX-PWR24-D	Power & Data Cable for Whelen Amplifier – <i>Utilize with Amplifiers</i>	2.00		
FXP-GND-18	Ground Buss Expansion Panel	1.00		

Notes

VEHICLE SPECIFIC PARTS NOT INCLUDED IN KIT

Chevrolet Tahoe

00-1402-L	Battery Cable	1.00	
MB-CT001	Mounting Bracket	1.00	

Ford PIU

BTO-BC6GA220-22-125	Battery Cable	1.00	
MB-FPI001	Mounting Bracket	1.00	

Dodge Durango

BTO-PC6GA110-22-125	Battery Cable	1.00	
MB-UH001	Mounting Bracket	1.00	

Don't forget the power distribution systems!

AFS has a full selection of Fuse Panels, Timers, and Power Distribution Systems that can be paired with a harness designed to meet your specification.

All Fleet Solutions offers more than a generic prep package or fuse panel. Our products support a wide array of installation techniques and an even wider array of equipment. Our team can assist in selecting the right power distribution, harness, and options for your installation to build a solution tailored to you fleet. The items depicted inside this flyer are part of a harness kit designed to support Whelen Core. If this kit does not meet you needs contact your Sales Representative to help design a kit for you application.

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