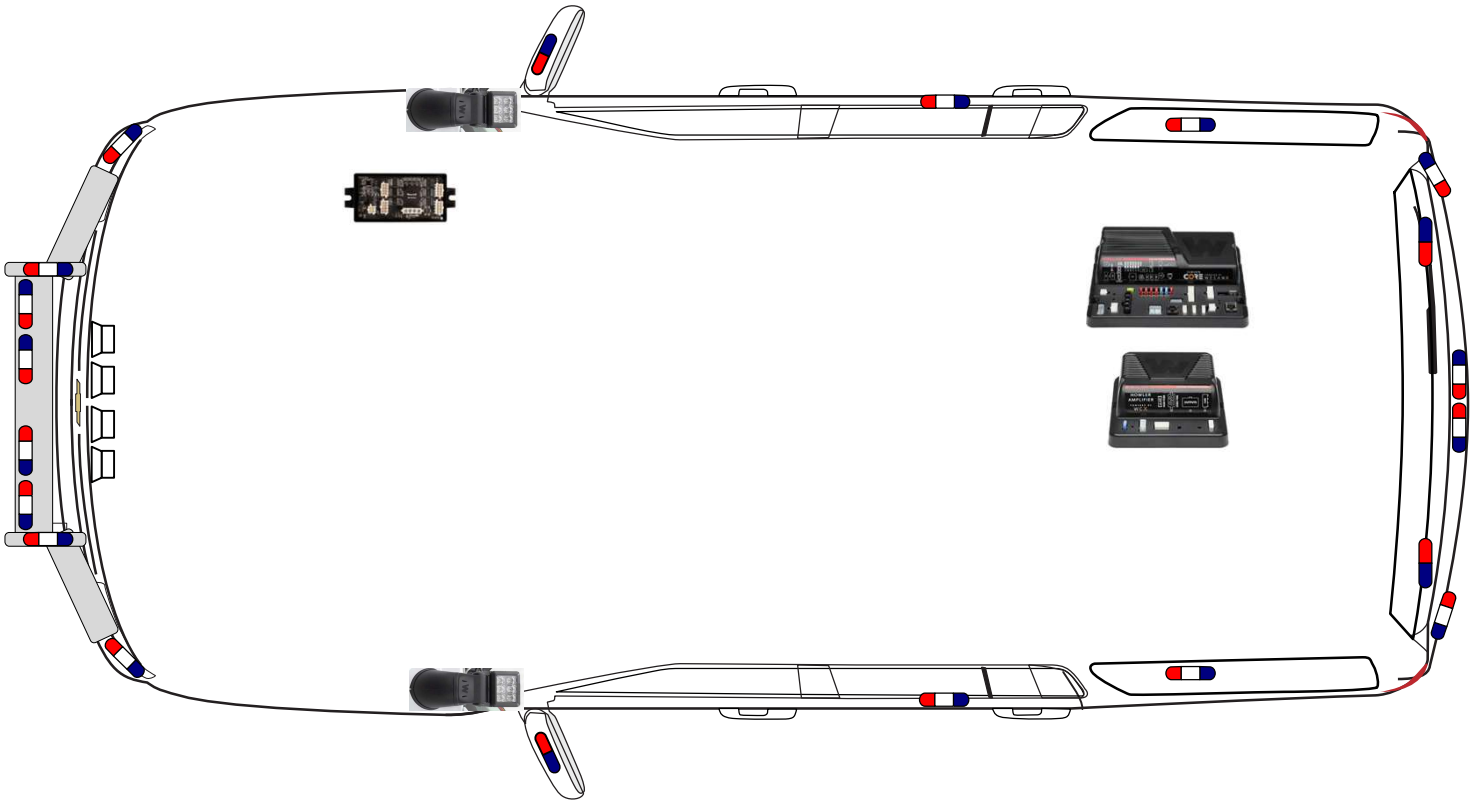
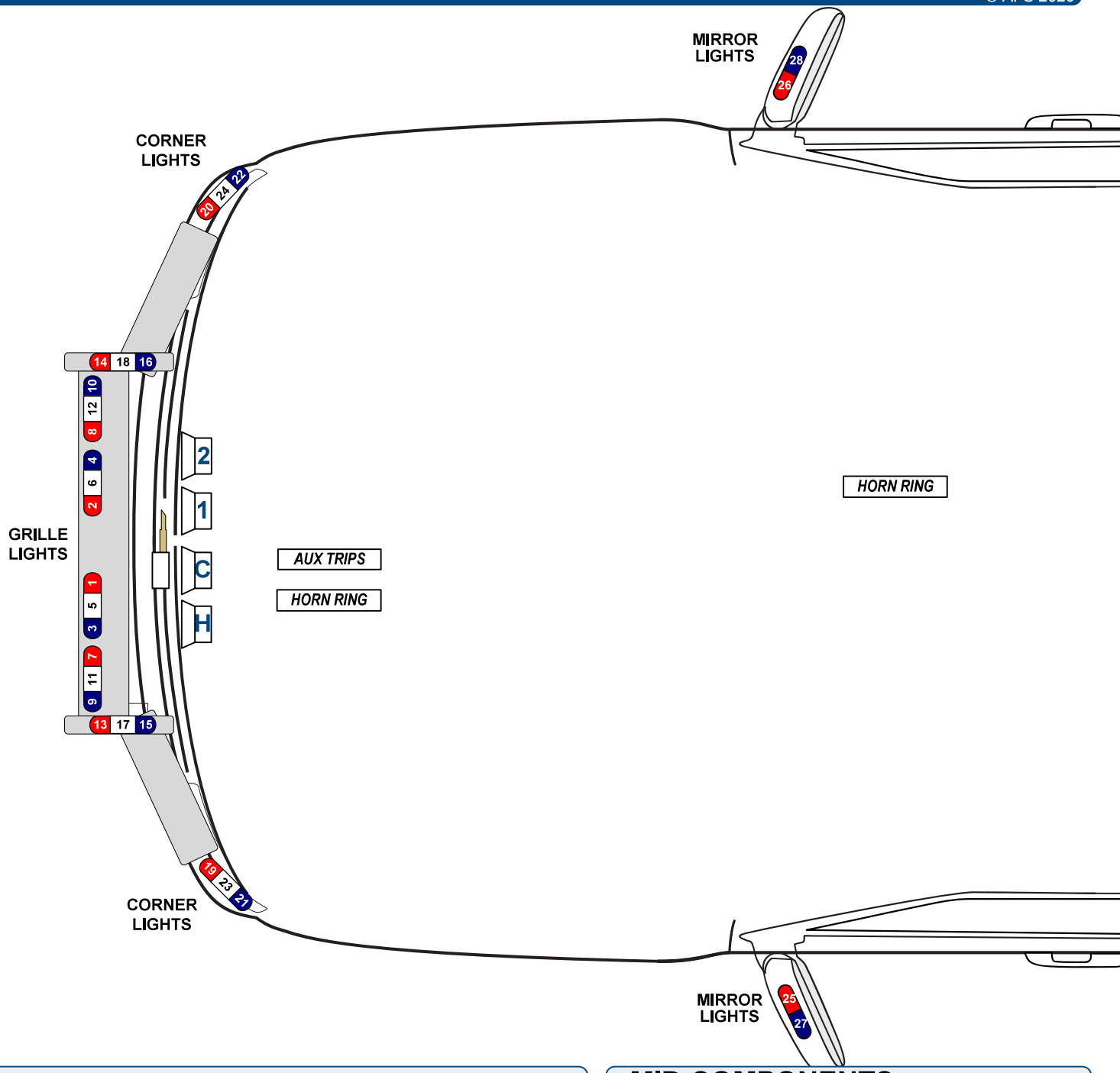
ALL FLEET SOLUTIONS



QK-WCX-600
Harness Kit for Whelen Core

QK-WCX-600
Equipment Layout



FRONT COMPONENTS:

GRILLE LIGHTS
- See MW-T8-PB-C24 Layout

CORNER LIGHTS
- See MW-T8-PB-C24 Layout

HORN / HORN RING
- See MW-DC25-2CH Layout

SPEAKERS
- See MW-DC25-2CH Layout

AUX TRIPS
- See MW-DC25-2CH Layout

MID COMPONENTS:

MIRROR LIGHTS
- See RLH34-C-WCX Layout

RUNNING BOARD LIGHTS
- See RLH34-C-WCX Layout

HORN / HORN RING
- See MW-DC25-2CH Layout

FLASH C
- See MW-DC25-2CH Layout

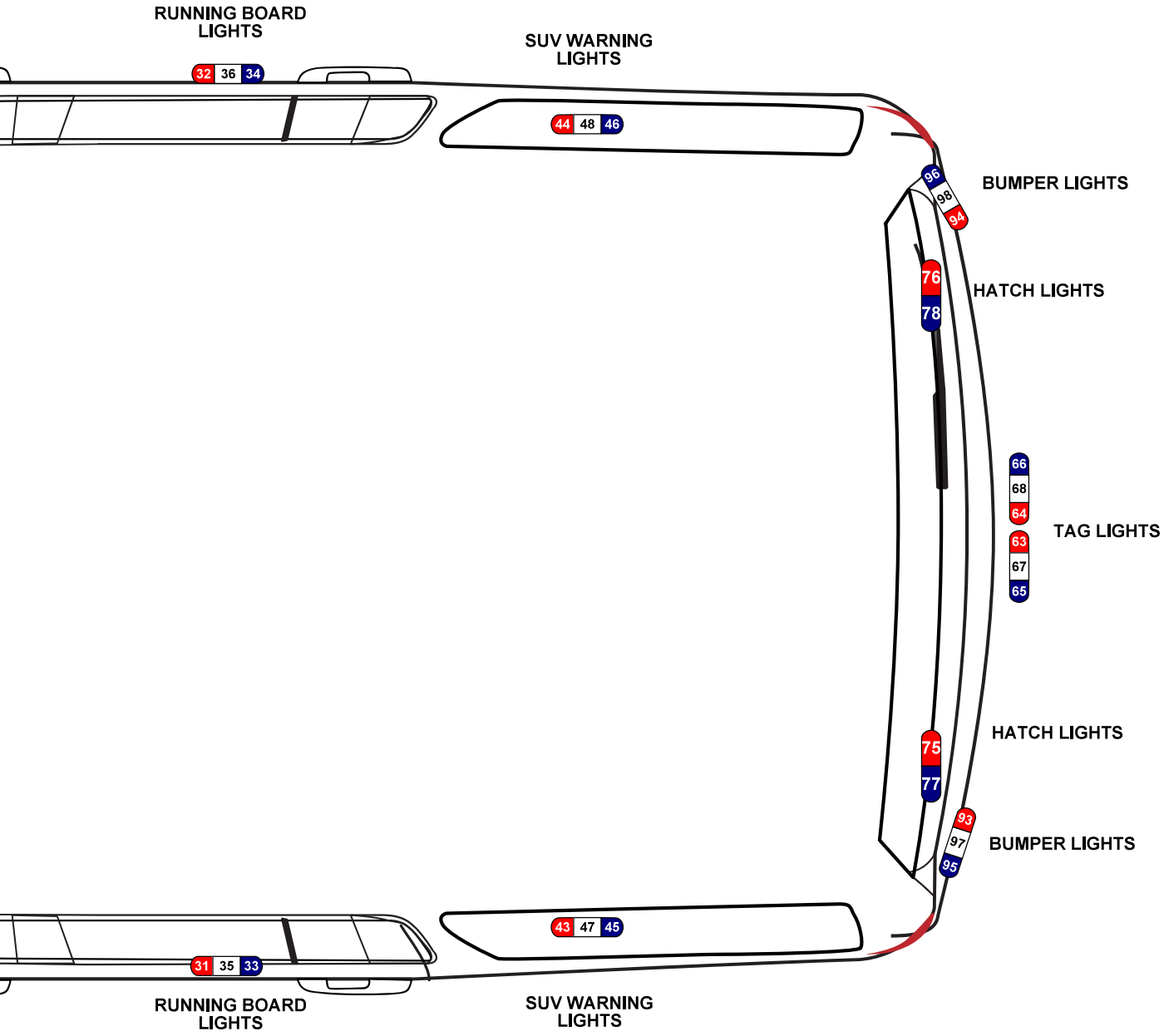
PRODUCTS SHOWN ON LAYOUT:

Front Harness: MW-T8-PB-C24
Main Harness: MW-DC25-2CH
Rear Harness: RLH34-C-WCX
Underhood Power: WCX-PWR36-C24

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200
Email: sales@allfleetsolutions.com
Web: www.allfleetsolutions.com

EDD 070825 *ECN 000000*



REAR COMPONENTS:

SUV WARNING LIGHTS
- See RLH34-C-WCX Layout

HATCH LIGHTS
- See RLH34-C-WCX Layout

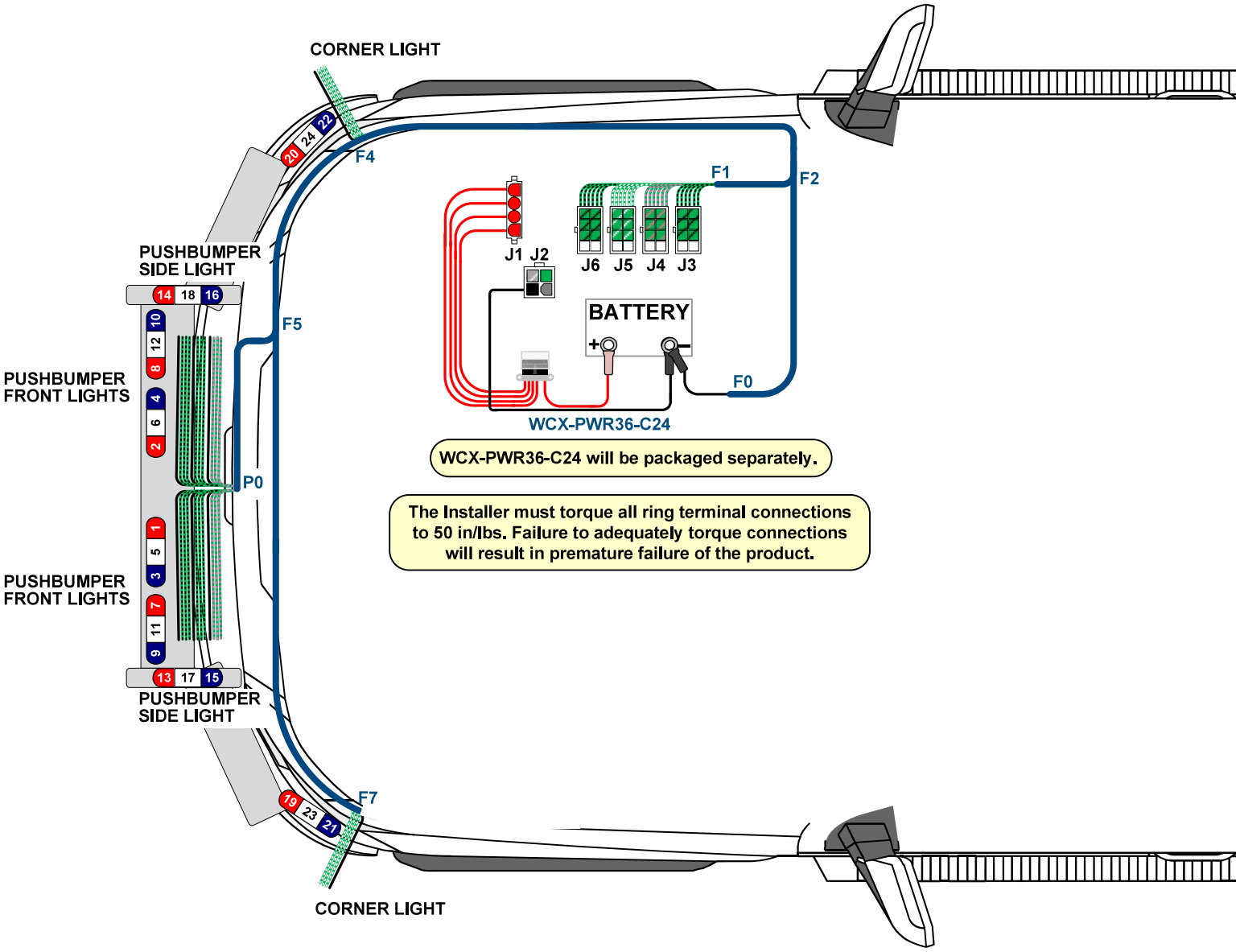
CARGO LIGHT
- See RLH34-C-WCX Layout

BUMPER LIGHTS
- See RLH34-C-WCX Layout

TAG LIGHTS
- See RLH34-C-WCX Layout

CARGO SWITCH
- See RLH34-C-WCX Layout

MW-T8-PB-C24
Front Lighting Harness



CORNER LIGHTS

- 18 Ga. GN/WH Pass. Corner Light 20 “LT 20”
- 18 Ga. GN/WH Pass. Corner Light 22 “LT 22”
- 18 Ga. GN/WH Pass. Corner Light 24 “LT 24”
- 18 Ga. BK Pass. Corner Lights Ground “LT 20 GND”
- 18 Ga. GN/WH Driver Corner Light 19 “LT 19”
- 18 Ga. GN/WH Driver Corner Light 21 “LT 21”
- 18 Ga. GN/WH Driver Corner Light 23 “LT 23”
- 18 Ga. BK Driver Corner Lights Ground “LT 19 GND”

PUSHBUMPER FRONT LIGHTS

- 18 Ga. GN/BK Driver Pushbumper Front Light 1 “LT 1”
- 18 Ga. GN/BK Driver Pushbumper Front Light 3 “LT 3”
- 18 Ga. GN/BK Driver Pushbumper Front Light 5 “LT 5”
- 18 Ga. BK Driver Pushbumper Front Lights Ground “LT 1 GND”
- 18 Ga. GN/BK Driver Pushbumper Front Light 2 “LT 2”
- 18 Ga. GN/BK Pass. Pushbumper Front Light 4 “LT 4”
- 18 Ga. GN/BK Driver Pushbumper Front Light 6 “LT 6”
- 18 Ga. BK Pass Pushbumper Front Lights Ground “LT 2 GND”

PUSHBUMPER SIDE LIGHTS

- 18 Ga. GN/PK Driver Pushbumper Side Light 13 “LT 13”
- 18 Ga. GN/PK Driver Pushbumper Side Light 15 “LT 15”
- 18 Ga. GN/PK Driver Pushbumper Side Light 17 “LT 17”
- 18 Ga. BK Driver Pushbumper Side Lights Ground “LT 13 GND”
- 18 Ga. GN/PK Driver Pushbumper Side Light 14 “LT 14”
- 18 Ga. GN/PK Pass. Pushbumper Side Light 16 “LT 16”
- 18 Ga. GN/PK Driver Pushbumper Side Light 18 “LT 18”
- 18 Ga. BK Pass Pushbumper Side Lights Ground “LT 14 GND”

PUSHBUMPER FRONT LIGHTS

- 18 Ga. GN/BK Driver Pushbumper Front Light 7 “LT 7”
- 18 Ga. GN/BK Driver Pushbumper Front Light 9 “LT 9”
- 18 Ga. GN/BK Driver Pushbumper Front Light 11 “LT 11”
- 18 Ga. BK Driver Pushbumper Front Lights Ground “LT 7 GND”
- 18 Ga. GN/BK Driver Pushbumper Front Light 8 “LT 8”
- 18 Ga. GN/BK Pass. Pushbumper Front Light 10 “LT 10”
- 18 Ga. GN/BK Driver Pushbumper Front Light 12 “LT 12”
- 18 Ga. BK Pass Pushbumper Front Lights Ground “LT 8 GND”

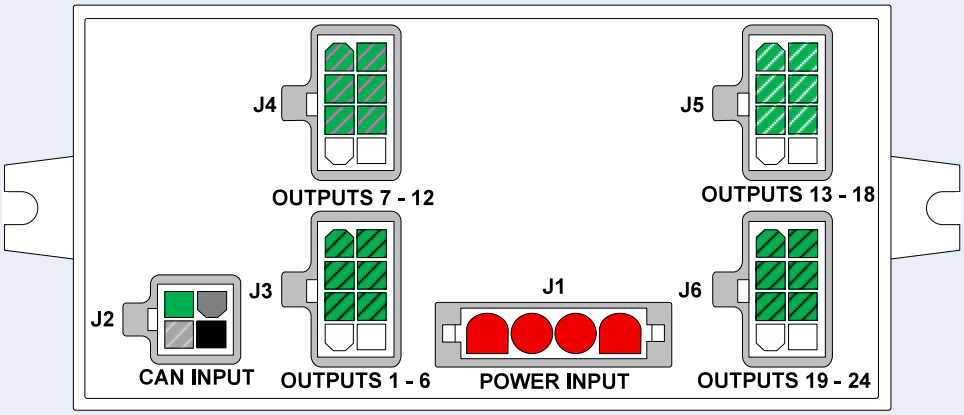
PRODUCTS SHOWN ON LAYOUT:

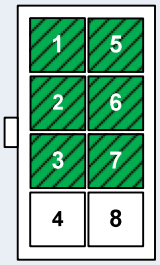
Main Harness:
Front Harness: MW-T8-PB-C24
Rear Harness:
Battery Cable:

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200
Email: sales@allfleetsolutions.com
Web: www.allfleetsolutions.com

EDD 073125 *ECN 000000*

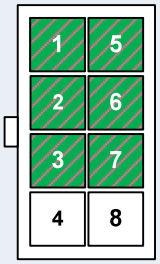




J-3 – OUTPUTS 1 thru 6 FROM CEM16

- Pin 1 Output 1 (2.5A) – 18 Ga. GN/BK Driver Pushbumper Front Light 1 “LT 1”
- Pin 2 Output 2 (2.5A) – 18 Ga. GN/BK Driver Pushbumper Front Light 3 “LT 3”
- Pin 3 Output 3 (2.5A) – 18 Ga. GN/BK Driver Pushbumper Front Light 5 “LT 5”
- Pin 4 – *Not Used* – *Sealing Plug*
- Pin 5 Output 4 (2.5A) – 18 Ga. GN/BK Pass. Pushbumper Front Light 2 “LT 2”
- Pin 6 Output 5 (2.5A) – 18 Ga. GN/BK Pass. Pushbumper Front Light 4 “LT 4”
- Pin 7 Output 6 (2.5A) – 18 Ga. GN/BK Pass. Pushbumper Front Light 6 “LT 6”
- Pin 8 – *Not Used* – *Sealing Plug*

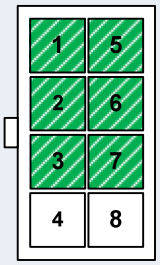
1 3 5 2 4 6



J-4 – OUTPUTS 1 thru 6 FROM CEM16

- Pin 1 Output 7 (2.5A) – 18 Ga. GN/PK Driver Pushbumper Side Light 13 “LT 13”
- Pin 2 Output 8 (2.5A) – 18 Ga. GN/PK Driver Pushbumper Side Light 15 “LT 15”
- Pin 3 Output 9 (2.5A) – 18 Ga. GN/PK Driver Pushbumper Side Light 17 “LT 17”
- Pin 4 – *Not Used* – *Sealing Plug*
- Pin 5 Output 10 (2.5A) – 18 Ga. GN/PK Pass. Pushbumper Side Light 14 “LT 14”
- Pin 6 Output 11 (2.5A) – 18 Ga. GN/PK Pass. Pushbumper Side Light 16 “LT 16”
- Pin 7 Output 12 (2.5A) – 18 Ga. GN/PK Pass. Pushbumper Side Light 18 “LT 18”
- Pin 8 – *Not Used* – *Sealing Plug*

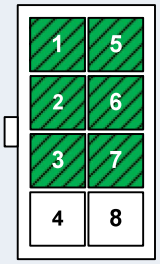
13 15 17 14 16 18



J-5 – OUTPUTS 1 thru 6 FROM CEM16

- Pin 1 Output 13 (2.5A) – 18 Ga. GN/WH Driver Corner Light 20 “LT 20”
- Pin 2 Output 14 (2.5A) – 18 Ga. GN/WH Driver Corner Light 22 “LT 22”
- Pin 3 Output 15 (2.5A) – 18 Ga. GN/WH Driver Corner Light 24 “LT 24”
- Pin 4 – *Not Used* – *Sealing Plug*
- Pin 5 Output 16 (2.5A) – 18 Ga. GN/WH Pass. Corner Light 19 “LT19”
- Pin 6 Output 17 (2.5A) – 18 Ga. GN/WH Pass. Corner Light 21 “LT 21”
- Pin 7 Output 18 (2.5A) – 18 Ga. GN/WH Pass. Corner Light 23 “LT 23”
- Pin 8 – *Not Used* – *Sealing Plug*

20 22 24 19 21 23



J-6 – OUTPUTS 1 thru 6 FROM CEM16

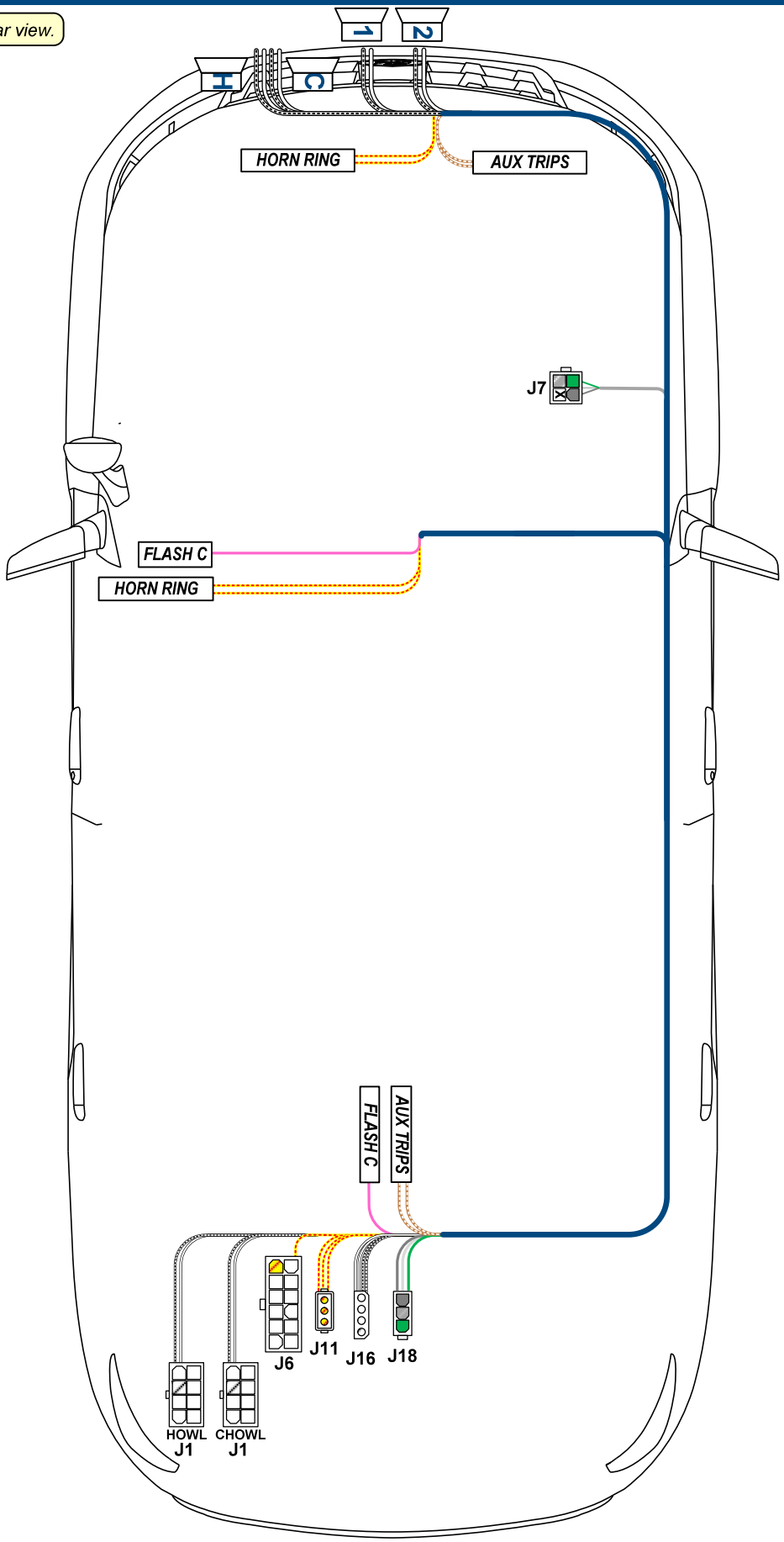
- Pin 1 Output 19 (2.5A) – 18 Ga. GN/BK Driver Pushbumper Front Light 7 “LT 7”
- Pin 2 Output 20 (2.5A) – 18 Ga. GN/BK Driver Pushbumper Front Light 9 “LT 9”
- Pin 3 Output 21 (2.5A) – 18 Ga. GN/BK Driver Pushbumper Front Light 11 “LT 11”
- Pin 4 – *Not Used* – *Sealing Plug*
- Pin 5 Output 22 (2.5A) – 18 Ga. GN/BK Pass. Pushbumper Front Light 8 “LT 8”
- Pin 6 Output 23 (2.5A) – 18 Ga. GN/BK Pass. Pushbumper Front Light 10 “LT 10”
- Pin 7 Output 24 (2.5A) – 18 Ga. GN/BK Pass. Pushbumper Front Light 12 “LT 12”
- Pin 8 – *Not Used* – *Sealing Plug*

7 9 11 8 10 12

MW-DC25-2CH

Data Cable & Speaker Harness for Whelen Core C399 with Speaker, Aux Trips, Horn Ring & Flash C, 2nd Speaker, Chowler & Howler Low Frequency Speakers

Note: Connectors shown in rear view.



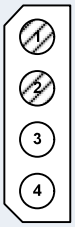
PRODUCTS SHOWN ON LAYOUT:

Main Harness: MW-DC25-2CH
Front Harness:
Rear Harness:
Battery Cable:

TECHNICAL SUPPORT & SALES CONTACT:

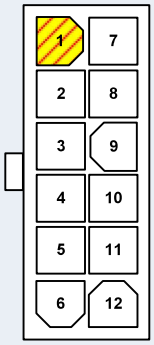
Phone: 844-423-7200
Email: sales@allfleetsolutions.com
Web: www.allfleetsolutions.com

EDD 120523 ECN 000000



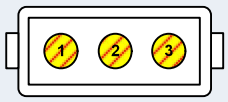
J16 – SIREN OUT

- 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”



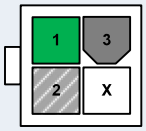
J6 – DIGITAL INPUTS

- 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 –



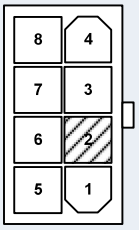
J11 – DRY CONTACT RELAY

- 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”



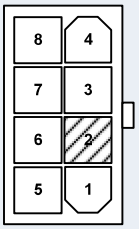
J-7 – CAN INPUT TO CEM16

- 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 (–) –

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

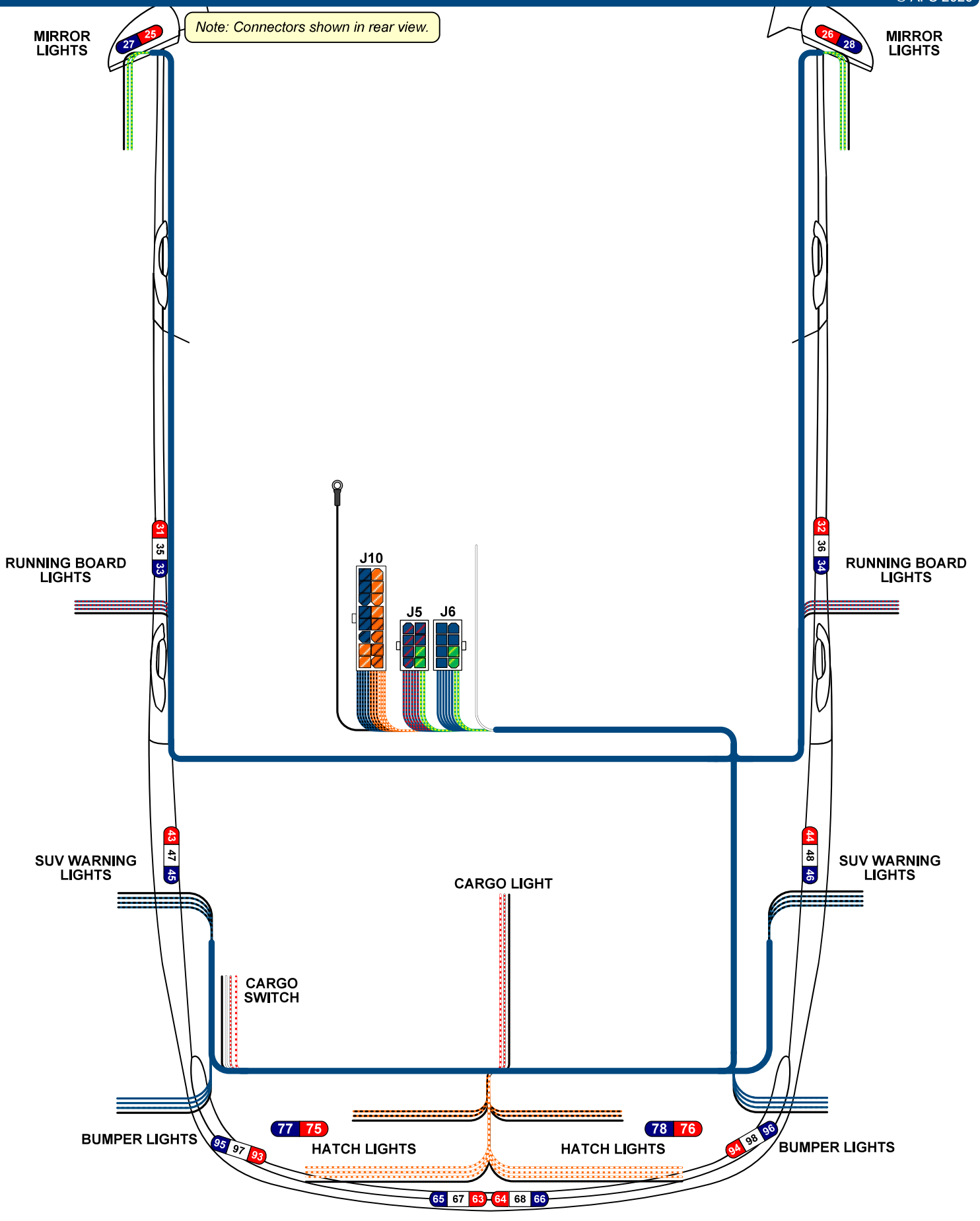
FLASH C

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

CORE MODULE

- *See CORE Module Layout for detailed information.*

RLH34-C-WCX
Rear Lighting Harness for Whelen Core C399 & CEM16 WeCanX Expansion Module



PRODUCTS SHOWN ON LAYOUT:

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

TECHNICAL SUPPORT & SALES CONTACT:

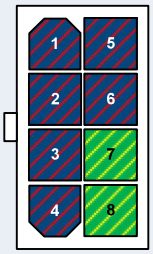
Phone: 844-423-7200
Email: sales@allfleetsolutions.com
Web: www.allfleetsolutions.com

EDD 111424 ECN 000000

LIGHT & SIREN CONTROLLER:

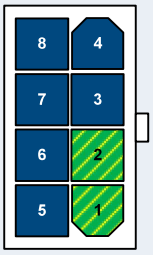
J10 – LOW CURRENT OUTPUTS

- 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. 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

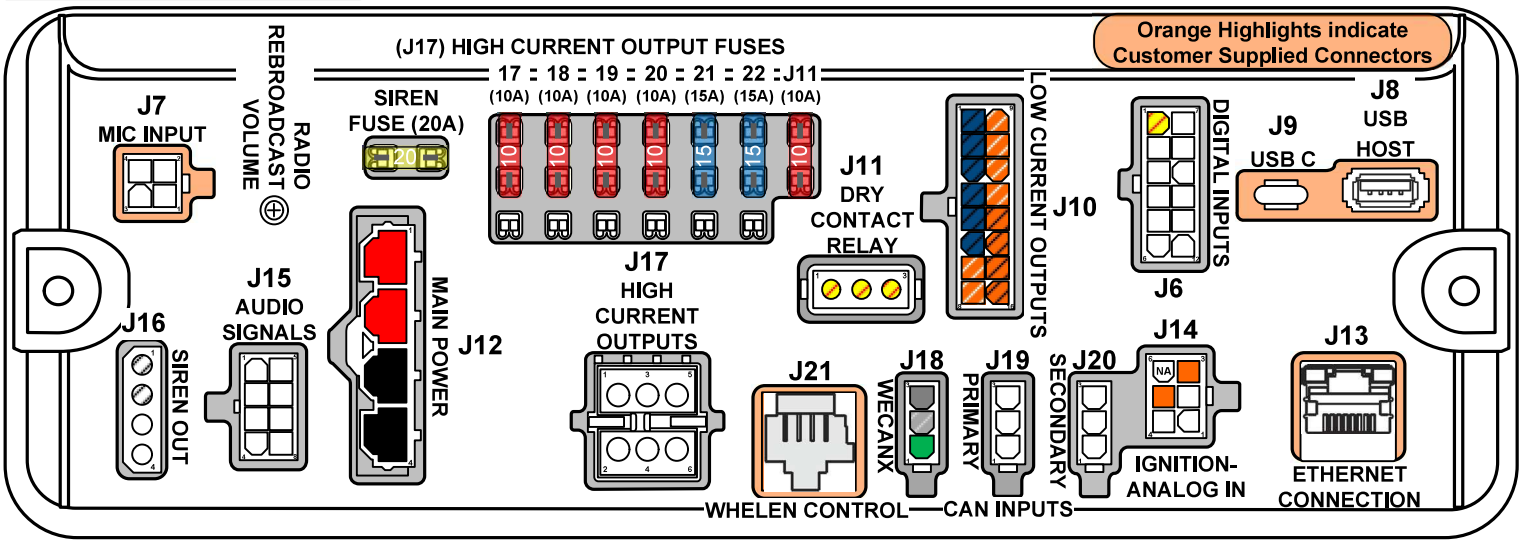
- 18 Ga. RD/WH Cargo Light Red "CAR LT RED" from Switch
- 18 Ga. WH/RD Cargo Light White "CAR LT WHT" from Switch
- 18 Ga. BK Cargo Light Ground "CARGO GND" from Ground Assembly

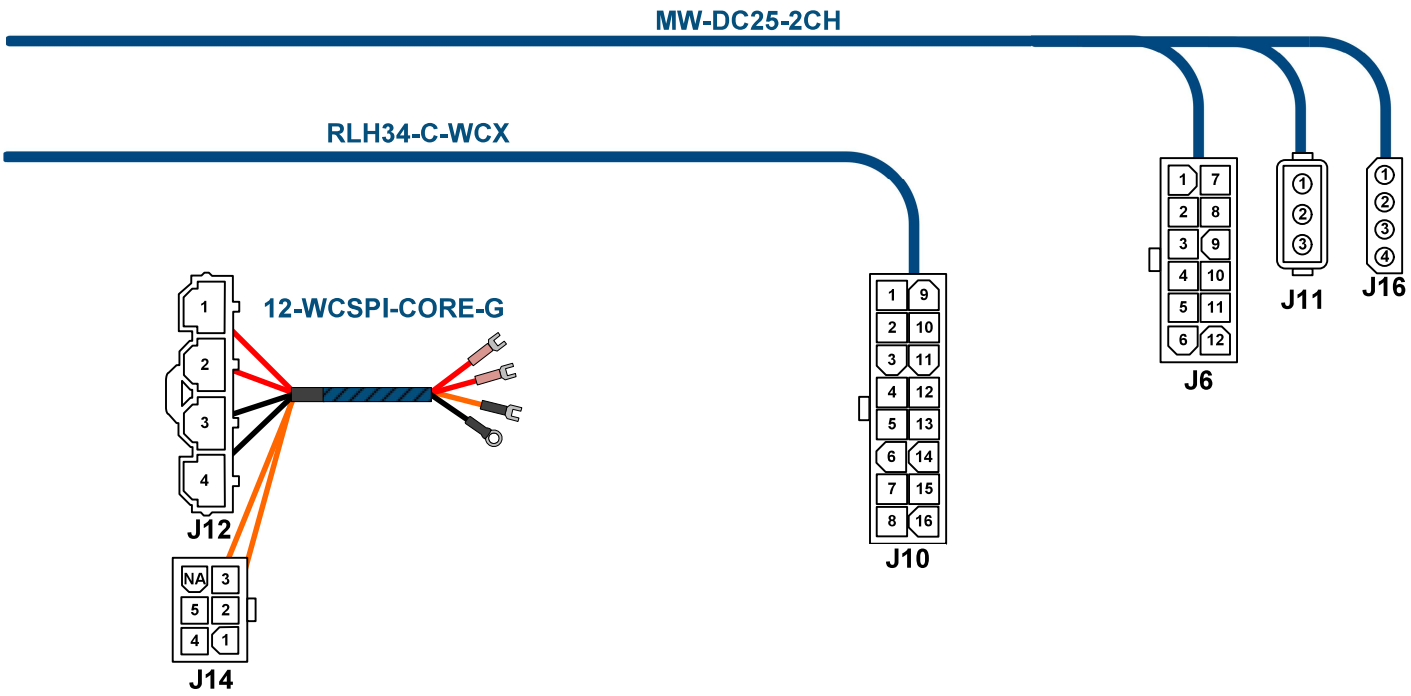
CARGO LIGHT SWITCH

- 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

CORE Module Layout
For QK-WCX-600

Note: Connectors shown in rear view.





J16 – SIREN OUT
- Pin 1 Speaker 1 (+) – 16 Ga. WH/BK Speaker 1 Positive "SPKR 1 POS"
- Pin 2 Speaker 2 (+) – 16 Ga. WH/BK Speaker 2 Positive "SPKR 2 POS"
- Pin 3 Speaker 1 (–) – 16 Ga. WH Speaker 1 Common "SPKR 1 COM"
- Pin 4 Speaker 2 (–) – 16 Ga. WH Speaker 2 Common "SPKR 2 COM"

J12 – MAIN POWER
- Pin 1 Power In (40A) –
- Pin 2 Power In (40A) –
- Pin 3 Ground In –
- Pin 4 Ground In –

J18, J19, J20 – 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

J7 – MIC INPUT
- Pin 1
- Pin 2
- Pin 3
- Pin 4

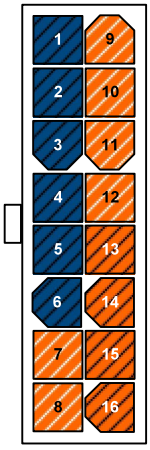
DIAGRAM KEY:

Speaker & Data Harness: MW-DC25-2CH
Rear Lighting Harness: RLH34-C-WCX
Whelen Core C399 Power Cable: 12-WCSPI-CORE-G

TECHNICAL SUPPORT & SALES CONTACT:

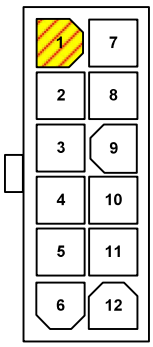
Phone: 844-423-7200
Email: sales@allfleetsolutions.com
Web: www.allfleetsolutions.com

EDD 070825 *ECN 000000*



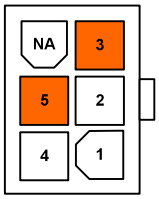
J10 – LOW CURRENT OUTPUTS

- 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"



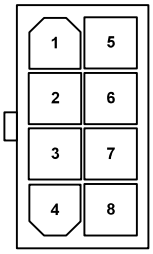
J6 – DIGITAL INPUTS

- Pin 1 Input 1 – 16 Ga. YW/RD Horn Relay Transfer "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 –



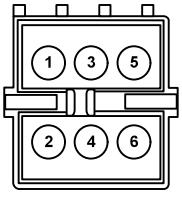
J14 – IGNITION-ANALOG IN

- Pin 1 Analog 1 (+) –
- Pin 2 Analog 2 (+) –
- Pin 3 Ignition In – 18 Ga. OR Core Siren Ignition Input, (3A) "CORE IGN" from Power & Data Distribution Panel
- Pin 4 Analog 4 (+) –
- Pin 5 Analog 5 (+) – 18 Ga. OR Core Siren Backlight Input "CORE BKLT" from Power & Data Distribution Panel
- Pin 6 Not Used



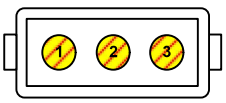
J15 – AUDIO SIGNALS

- 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) –

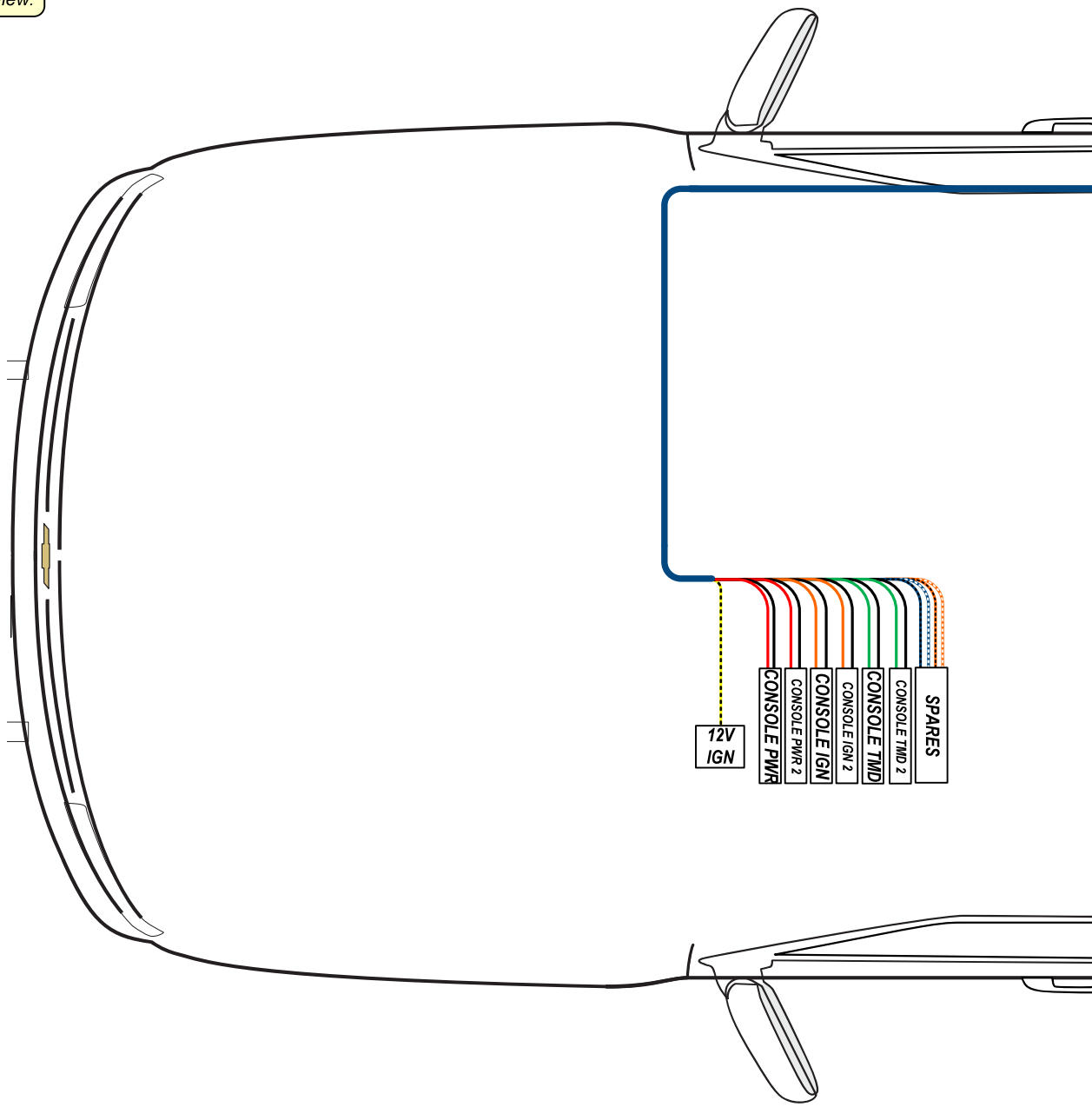


J11 – DRY CONTACT RELAY

- 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 Underhood
- Pin 3 Normally Closed – 16 Ga. YW/RD Horn Relay Output "HORN" to Underhood

PH-C6T5S4
Power Solution Layout

Note: Connectors shown in rear view.



CONSOLE POWER CIRCUITS:

12VDC IGNITION
- 18 Ga. YW/BK 12VDC Ignition Sense “12V IGN” to CTF IGN Input

CONSOLE POWER
- 10 Ga. RD Console Power 1 (30A) “POWER 1” from CTF F1
- 10 Ga. BK Console Ground 1 “GROUND 1” from Ground assembly

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 Assembly

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 Assembly

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 Assembly

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 Assembly

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 Assembly

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

PRODUCTS SHOWN ON LAYOUT:

Fuse Panel Output Harness: PH-C6T5S4
Fuse Panel: CTF-B8i4T4G
Battery Cable: BTO-BC6GA220-22-125
Power Cable:

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200
Email: sales@allfleetsolutions.com
Web: www.allfleetsolutions.com

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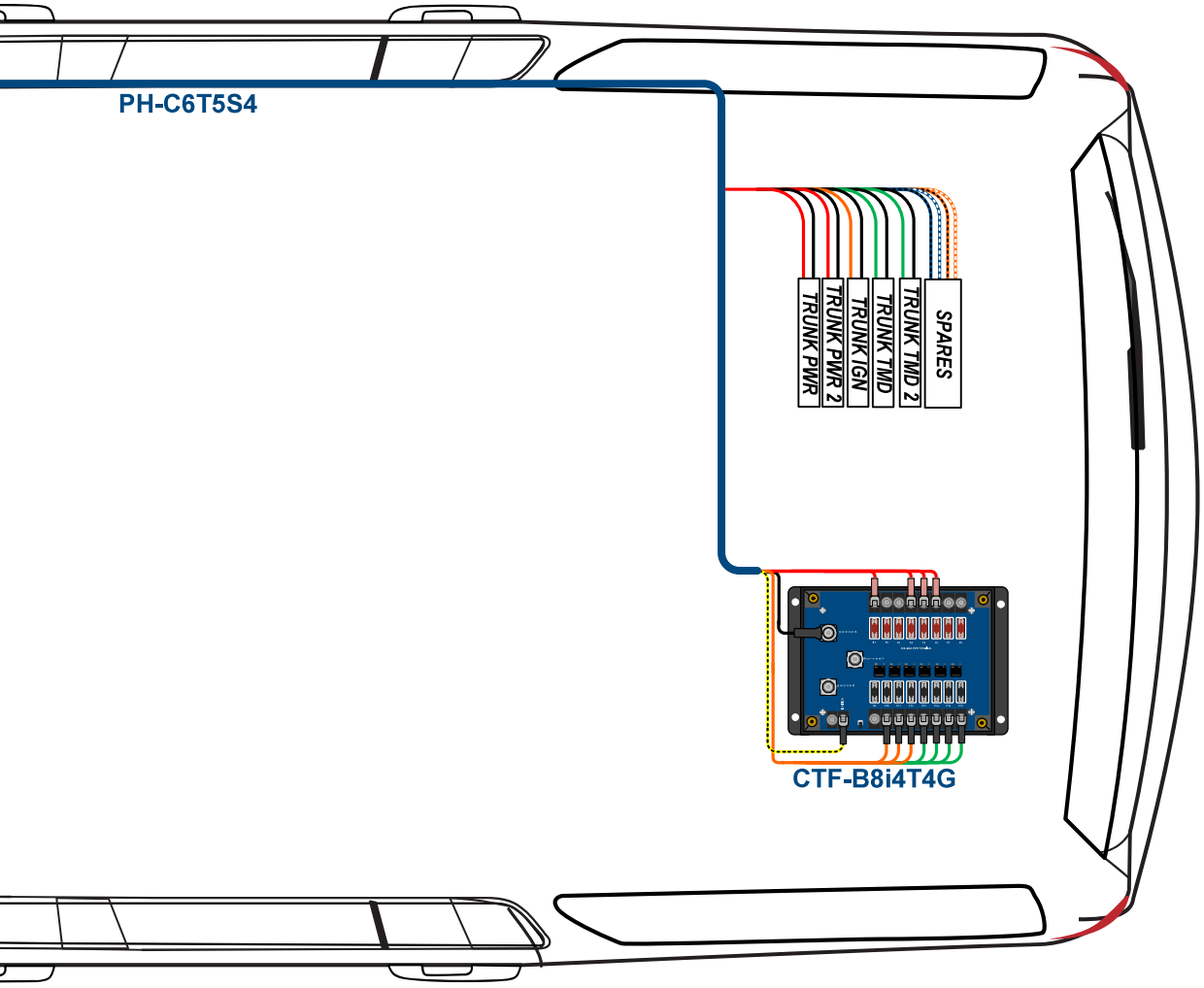


REAR POWER CIRCUITS:

TRUNK POWER
- 10 Ga. RD Trunk Power (30A) “POWER 5” from CTF F5
- 10 Ga. BK Trunk Ground “GROUND 5” from Ground Assembly

TRUNK POWER 2
- 12 Ga. RD Trunk Power 2 (20A) “POWER 6” to CTF F6
- 12 Ga. BK Trunk Ground 2 “GROUND 6” to P18 Ground Bus

TRUNK IGNITION
- 12 Ga. OR Trunk Ignition (20A) “IGN 4” from CTF F12
- 12 Ga. BK Trunk Ignition Ground “IGN 4 GND” from Ground Assembly

CTF-B8i4T4G FUSE PANEL
- See CTF-B8i4T4G Instructions

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 Assembly

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 Assembly

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

Combined Battery, Ignition & Timed Fuse Panel

Amp Rating: 125A Maximum Total Load

- The eight Battery Hot fuses, F1 to F8, are rated at 30A per terminal, 100A combined load, Mini fuses.
- The four Ignition Hot fuses, F9 to F12 are rated at 30A per terminal, 75A max total load.
- The four Timed Hot fuses, F13 to F16 are rated at, 30A per terminal, 75A max total load.

Ground Studs:

- The two M6 Ground Studs should be utilized as a ground bus, 125A max.
- The timer requires ground to battery at one of these locations to function.

Reset Pin RST:

- A momentary 12VDC + input to the RST pin will shut down the timer.
- The Reset pin will clear the LED fault codes.
- The Reset pin can also be utilized to power off the timer and to restart onboard IT devices.

Timed Circuits:

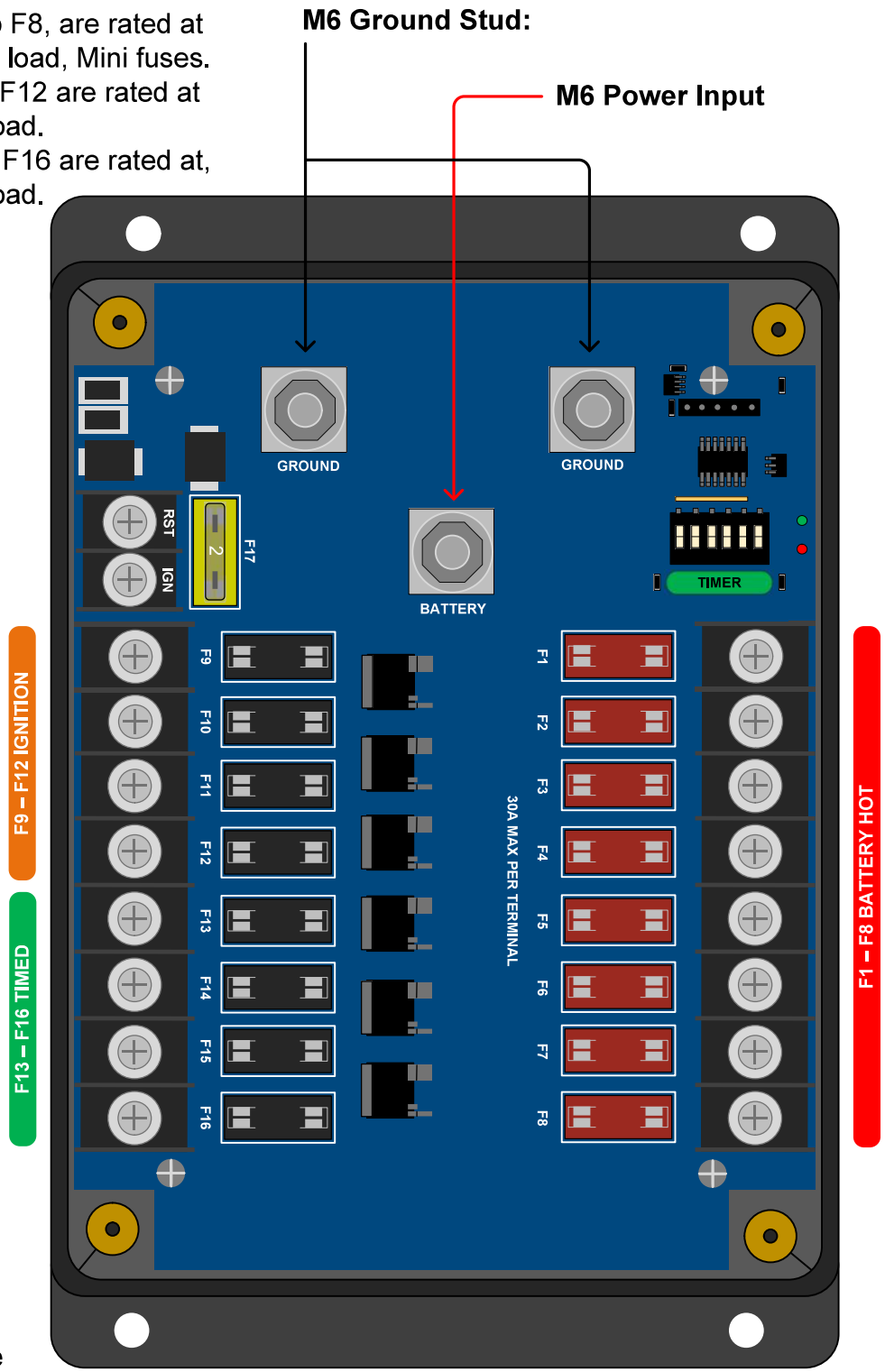
- Ignition input pin activates the timer card.
- DIP switches 1-4 control the timed interval.
- DIP switch 5 controls the Ignition Optional feature.
- DIP switch 6 controls the Low Voltage Disconnect.

Red LED Fault Status:

- Off: No Faults
- Slow Flashing 15 Seconds: Low Voltage is occurring
- Steady Red: Under Voltage has occurred
- Rapid Flash: Over Voltage has occurred
- The Indicator LED will remain active for three ignition cycles after a fault occurs.

Green LED Timer Status:

- Solid Green: Ignition On
- Flashing Green: Timed Mode
- Off: Outputs Off



Do Not Exceed Torque Setting Damage Will Occur!

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

Drawing Scale 1:1

CTF-B8i4T4G
Customer Worksheet

The CTF-B8I4T4G Fuse Panel provides 8 Battery Hot, 4 Ignition Hot, and 4 Timed Hot circuits with a two stud Ground Bus. The compact enclosure allows for installation in center consoles and electronic trays. The CTF Series Timers include the same full feature program as the Power Series Timers including: Low Voltage Disconnect, Timed Intervals, Infinite Mode Operation, and diagnostic LED status indicators. The Timer can be activated by a momentary input allowing instant activation of two-way radios even when the vehicle is off.

12VDC Ignition Input

Fuse 17: 12VDC Ignition Input, (2A)

Battery Hot Circuits: 30 Amps Max Per Fuse

Fuse 1: _____

Fuse 2: _____

Fuse 3: _____

Fuse 4: _____

Fuse 5: _____

Fuse 6: _____

Fuse 7: _____

Fuse 8: _____

Ignition Hot Circuits: 30 Amps Max Per Fuse,
75 Amp Max Load All Ignition

Fuse 9: _____

Fuse 10: _____

Fuse 11: _____

Fuse 12: _____

Timed Hot Circuits: 30 Amps Max Per Fuse,
75 Amp Max Load All Ignition

Fuse 13: _____

Fuse 14: _____

Fuse 15: _____

Fuse 16: _____

Mating Terminals for the CTF-B8i4T4G:

- SSFT-6-1822 – 18-22 Ga. #6 Block Fork
- SSFT-6-1416 – 14-16 Ga. #6 Block Fork
- SSFT-6-1012 – 10-12 Ga. #6 Block Fork
- SSRB-25-06NI – 6 Ga. M6 Ring Barrel

TECHNICAL SUPPORT & SALES CONTACT:

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Email: sales@allfleetsolutions.com
Web: www.allfleetsolutions.com

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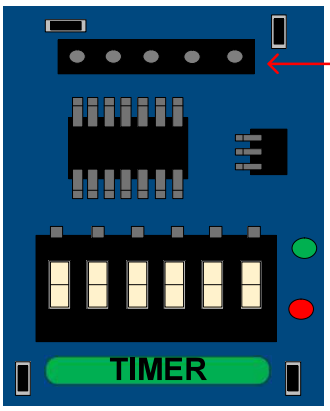
CTF-B8i4T4G

Voltage Monitoring Delay Timer Settings

Note: Timer is integrated onto the fuse panel, the illustration is for reference use.



Six-Position DIP Switch
- Positions 1 to 4 control the timed interval
- Position 5 controls the Ignition Sense function
- Position 6 controls the Low Voltage Disconnect

Programming Header

Green LED Timer Status
- Solid Green: Ignition On
- Flashing Green: Timed Mode
- Off: Outputs Off

Red LED Fault Status
- Off: No Faults
- Slow Flashing 15 Seconds: Low Voltage is occurring
- Steady Red: Undervoltage has occurred
- Rapid Flash: Overvoltage has occurred

Specifications: Software PS-6DV3-01 10-01-20

Low Voltage Disconnect:	11.0 VDC #6 Off
(Position 6 on the DIP Switch)	11.75 VDC #6 On
High Voltage Disconnect:	18.0 VDC
Disconnect Tolerance:	+/- 0.25V DC
Override Low Voltage:	Ignition On
Ignition Wire Required:	DIP switch #5 Off
Ignition Wire Optional:	DIP switch #5 On
Ignition On Voltage Set Point:	13.0 VDC
Ignition Off Voltage Set Point:	12.8 VDC
Stand by Current:	5 mA
Load Current Rating:	Logic Only
Minimum Time Delay:	1 Minute
Time Intervals:	16 Intervals
Time Interval Tolerance:	1%
Selectable Delay:	1 Min. to 24 Hr.

Circuit Protection for the timer includes: Surge, Brownout, Static, Spike, and Reverse Polarity.

Low Voltage Disconnect

In order to ensure that a temporary load does not create a nuisance shut-down the timer will wait 15 seconds before disconnecting the circuit. DIP switch #6 controls the Low Voltage Disconnect, please note that the DIP switch settings should only be changed when the device is powered down.

Overvoltage Protection

The device immediately disconnects the circuit when voltage exceeds 18 VDC. The device monitors the voltage and it will reset when the voltage returns to less than 18 VDC.

Infinite Mode

Setting the timer to Infinite Mode allows computers and radios to stand by for immediate response. When Infinite Mode is selected the device will only disconnect when the voltage falls below the low voltage setting. When the vehicle voltage recovers to 11.9 VDC or greater the device will reset. In order to change between Infinite Mode and Timed Delay the power must be removed from the timer, this allows the program to see the Infinite Mode setting. When the timer is in Infinite Mode the diagnostic LEDs will clear the trouble signal when the condition no longer exists. In Timed Mode the diagnostic LEDs will remain on for three ignition cycles.

Ignition Override

Turning on the vehicle's ignition will activate the timer. The vehicle will not disconnect the output for low voltage when the ignition is on; however, it will disconnect for overvoltage regardless of the ignition status. The timer senses ignition when voltage is applied to the input terminal, or when DIP switch #5 is "ON" and the vehicle voltage is above 13.0 VDC (Ignition Optional feature).

Loose Connections

Loose connections anywhere in the vehicle's electrical system can create voltage spikes as loads are temporarily disconnected. Nuisance disconnects will typically occur after vehicle servicing or while driving on rough roads. Utilize a power probe or similar tool to check for voltage drop or impedance on the ground typical of loose connections.

Installation Notes & Best Practices

Complete all installations with the vehicle battery power and ground lines disconnected.
- Use proper fusing or an unsafe condition may occur.
- Utilize a Run/Start circuit for the ignition sense (12v+) to prevent interruption of the signal while starting the vehicle.
- The Time Interval should be set while the timer is not connected to either power or ignition feeds.
- The amperage of the timed outputs is determined by the motherboard. Please consult those instructions.
- To clear a fault code on the LEDs remove the ground wire or cycle the ignition four times.

TECHNICAL SUPPORT & SALES CONTACT:

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Web: www.allfleetsolutions.com

CTF-B8i4T4G

Power Distribution Center

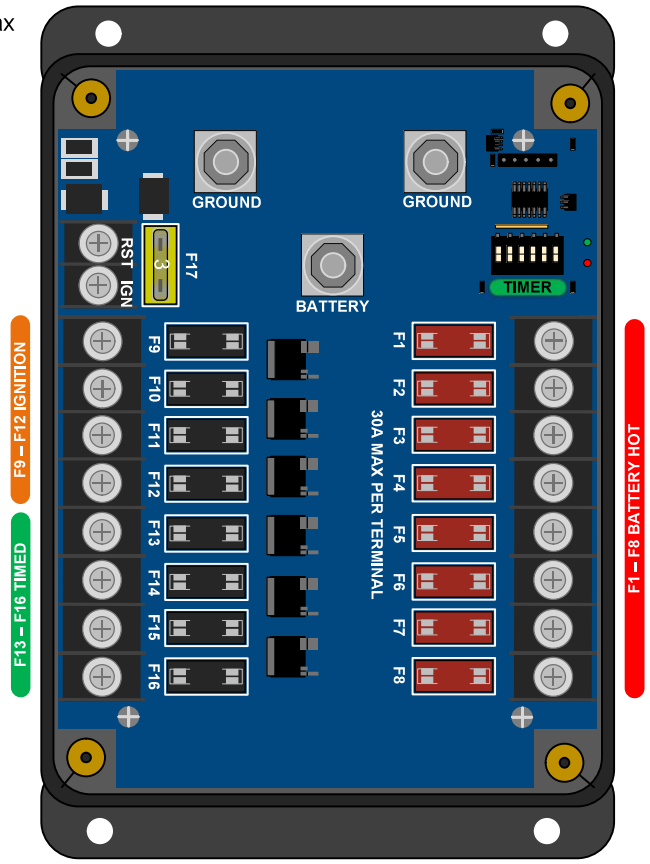
CTF-B8i4T4G Configuration:

The CTF-B8I4T4G Fuse Panel provides 8 Battery Hot, 4 Ignition Hot, and 4 Timed Hot circuits with a two stud Ground Bus. The compact enclosure allows for installation in center consoles and electronic trays. The CTF Series Timers include the same full feature program as the Power Series Timers including: Low Voltage Disconnect, Timed Intervals, Infinite Mode Operation, and diagnostic LED status indicators.

The Timer can be activated by a momentary input allowing instant activation of two-way radios even when the vehicle is off.

Amp Rating by Zone

- The eight Battery Hot fuses, F1 to F8, are rated at 30A per terminal, 100A max total load, mini fuses.
- IG: Ignition Hot 4 mini fuses, 30A per terminal, 75A max total load.
- T: Timed Delayed 4 mini fuses, 30A per terminal, 75A max total load.
- The combined maximum total load for the fuse panel with Battery, Ignition, Master, and Timed circuits is 125 amps.
- 3A Maximum for ignition input fuse.



Battery Hot Circuits:

- 8 Battery Hot circuits are provided.
- Fuses F1 to F8 are the Battery Hot Circuits
- Provide Battery Power to the (M6) Power Stud to activate the battery hot circuits.

Ignition Hot Circuits:

- 4 Ignition Hot circuits are provided.
- Fuses F9 to F12 are the Ignition Hot Circuits
- Provide 12 VDC+ to the IG input pin to activate the ignition hot circuits.

Timed Circuits:

- 4 Timed circuits are provided.
- The IG input pin activates the timer card.
- Black DIP switches 1-4 control the timed interval.
- Black DIP switch 5 controls the Ignition Optional feature.
- Black DIP switch 6 controls the Low Voltage Disconnect.

Reset Pin RST:

- A momentary 12VDC + input to the RST pin will shut down the timer.
- The RST pin will clear the LED fault codes on the DC-TMD.

Ignition Input Pin IGN:

- A momentary 12 VDC + input to the IGN pin will start the timer, and a constant signal is needed for the Ignition Hot Circuits to be active.
- The yellow fuse holder, F17, fuses the ignition input. A MINI fuse rated 3 amps or less is required for the fuse panel to operate.

Torque Specification:
M6 inputs 50 in/lb.
#6 Screw 15 in/lb.
Do not exceed torque specification as damage will occur.

Delay Timer: The timer cards are programmed by the six position black DIP switch.

Infinite On					30 Minutes					2:00 Hours					8:00 Hours					Ignition		
On	1	2	3	4	On		2			On			3	4	On		2		4	On		IGN. wire is required for timer activation.
Off					Off	1		3	4	Off	1	2			Off	1		3		Off	5	
1 Minute					45 Minutes					2:30 Hours					12:00 Hours					Ignition Optional		
On					On	1			4	On				4	On	1	2		4	On	5	Voltage ≥13.0V will activate timer.
Off	1	2	3	4	Off		2	3		Off	1	2	3		Off			3		Off		
5 Minutes					60 Minutes					3:00 Hours					18:00 Hours					Low Voltage		
On	1				On		2	3	4	On	1		3		On		2	3		On		Disconnect at 11.0V >15 seconds.
Off		2	3	4	Off	1				Off		2		4	Off	1			4	Off	6	
15 Minutes					1:30 Hours					4:00 Hours					24:00 Hours					Low Voltage		
On	1	2			On			3		On	1		3	4	On	1	2	3		On	6	Disconnect at 11.75V >15 seconds.
Off			3	4	Off	1	2		4	Off		2			Off				4	Off		

PDD-B12i2D6
12 Power, 2 Ignition & 6 Data Distribution Panel

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:

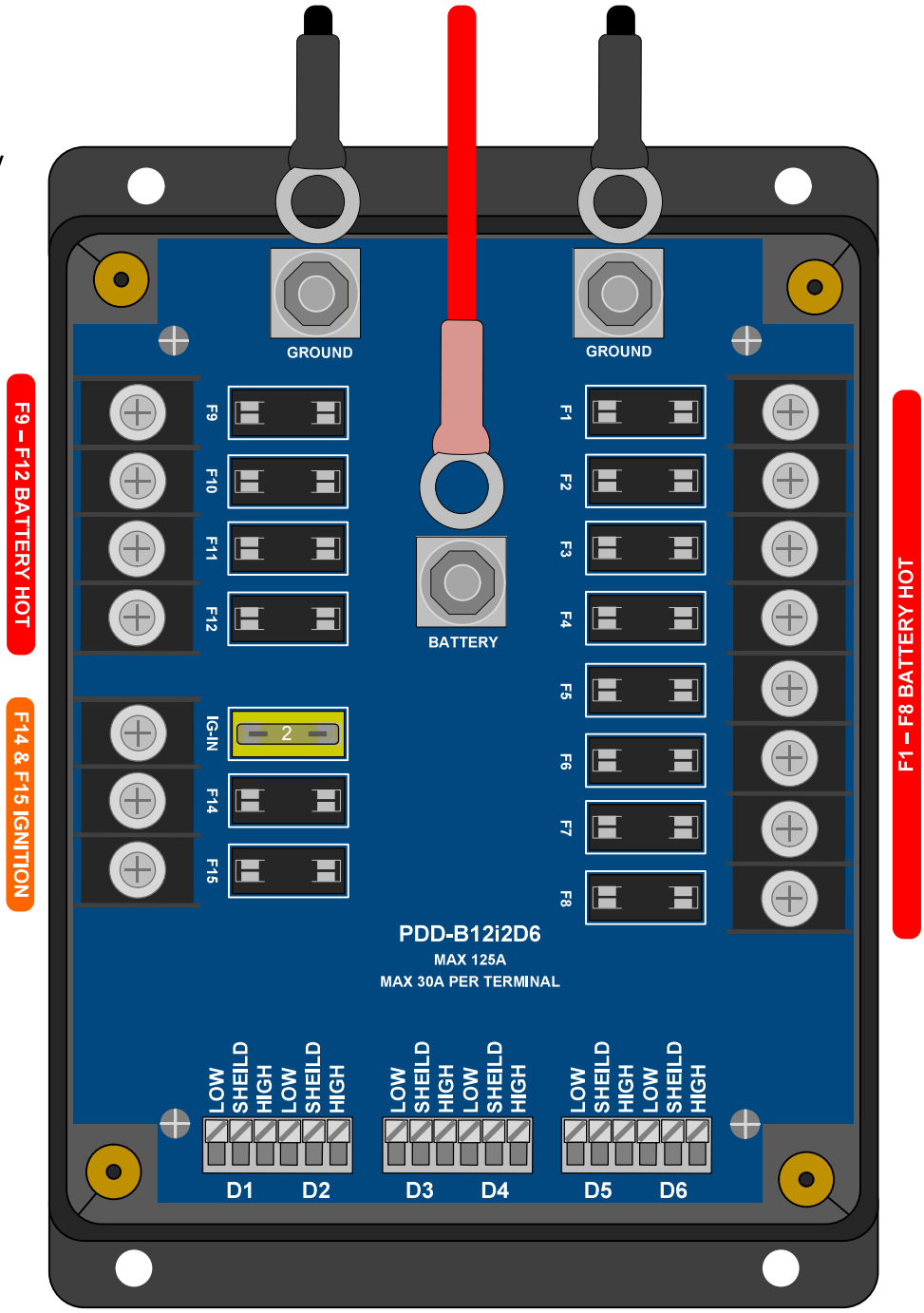
- M6 Stud: Main Ground to Battery
- 120 Amp Max Total Load

M6 Power Input:

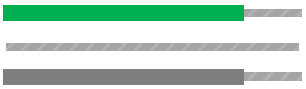
- M6 Power Input, 125 Amp Fuse Required with a 6 Ga. Wire.

Can Data Connectivity:

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



DATA WIRE
STRIP LENGTH 0.30"



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

Do Not Exceed Torque Setting
Damage Will Occur!

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

TECHNICAL SUPPORT & SALES CONTACT:

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Web: www.allfleetsolutions.com

EDD 031825 ECN 000000

Drawing Scale 1:1

PDD-B12i2D6
Customer Worksheet

The PDD-B12i2D6 Fuse Panel provides twelve Battery Hot circuits, two Ignition circuits and Can Data with a M6 stud ground bus. With all emergency vehicle installations the Vehicle Manufacturer and Component Manufacturer modifier guides and instructions should be followed at all times. The installation and servicing of these components should only be completed by a trained emergency vehicle technician.

12VDC Ignition Input

Fuse 13: 12VDC Ignition Input, (2A)

Battery Hot Circuits: 30 Amps Max Per Fuse

Fuse 1: _____

Fuse 2: _____

Fuse 3: _____

Fuse 4: _____

Fuse 5: _____

Fuse 6: _____

Fuse 7: _____

Fuse 8: _____

Fuse 9: _____

Fuse 10: _____

Fuse 11: _____

Fuse 12: _____

Ignition Hot Circuits: 30 Amps Max Per Fuse

Fuse 14: _____

Fuse 15: _____

Data CanBus Connections D1-D6:

D1 Data Connection:

Can Low: _____

Can Shield: _____

Can High: _____

D2 Data Connection:

Can Low: _____

Can Shield: _____

Can High: _____

D3 Data Connection:

Can High: _____

Can Shield: _____

Can Low: _____

D4 Data Connection:

Can High: _____

Can Shield: _____

Can Low: _____

D5 Data Connection:

Can High: _____

Can Shield: _____

Can Low: _____

D6 Data Connection:

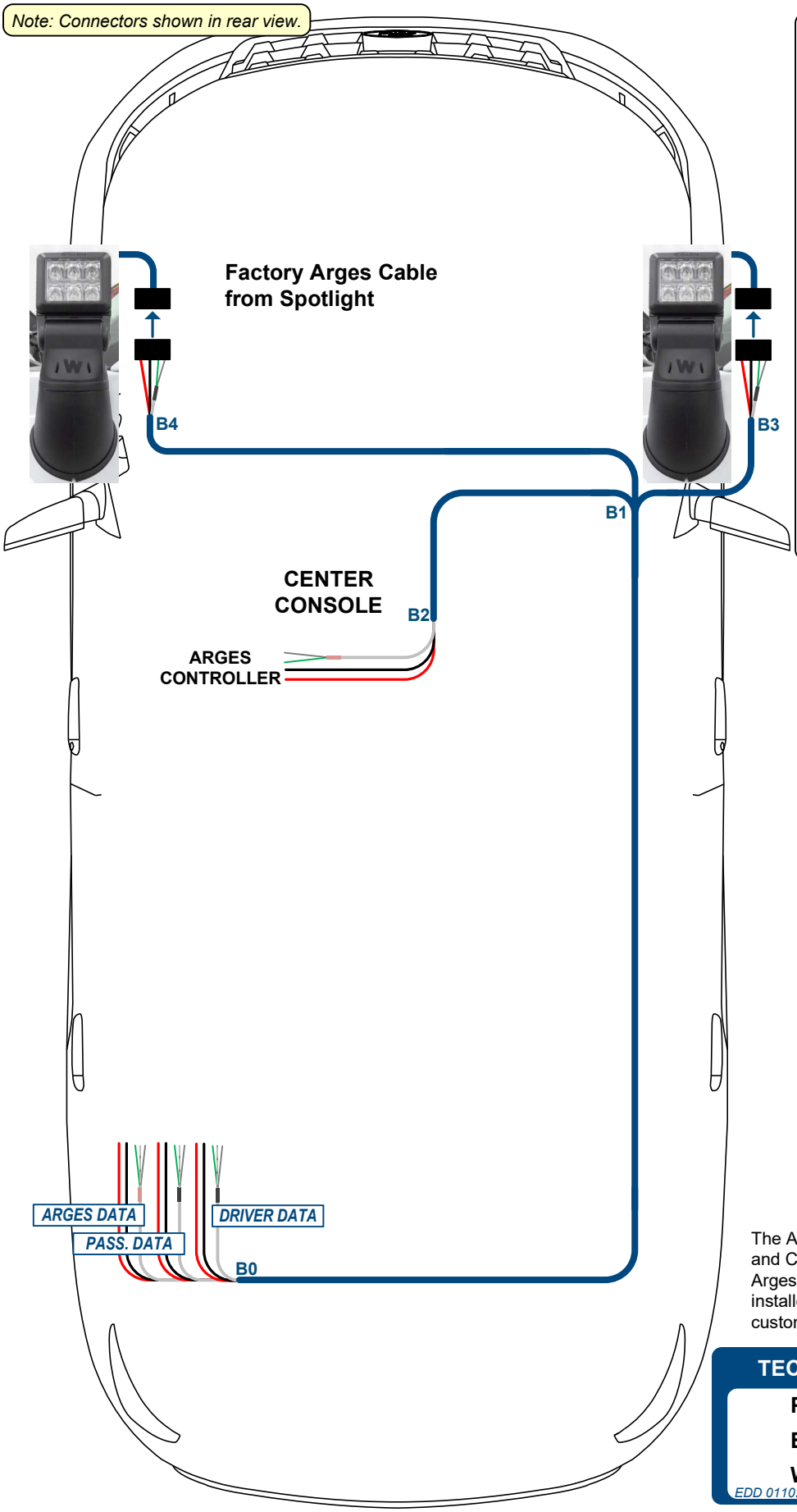
Can High: _____

Can Shield: _____

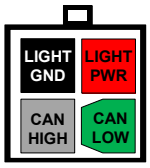
Can Low: _____

MW-ACD24-R
Arges Controller & Dual Spotlight Power Cable with Rear Connection Point

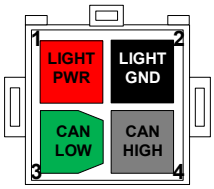
Note: Connectors shown in rear view.



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 High
- Pin 4 – 20 Ga. GY CAN Low
- 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 High
- 20 Ga. GY CAN Low
- 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 High
- 20 Ga. GY CAN Low
- 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 High
- 20 Ga. GY CAN Low
- 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.

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Email: sales@allfleetsolutions.com
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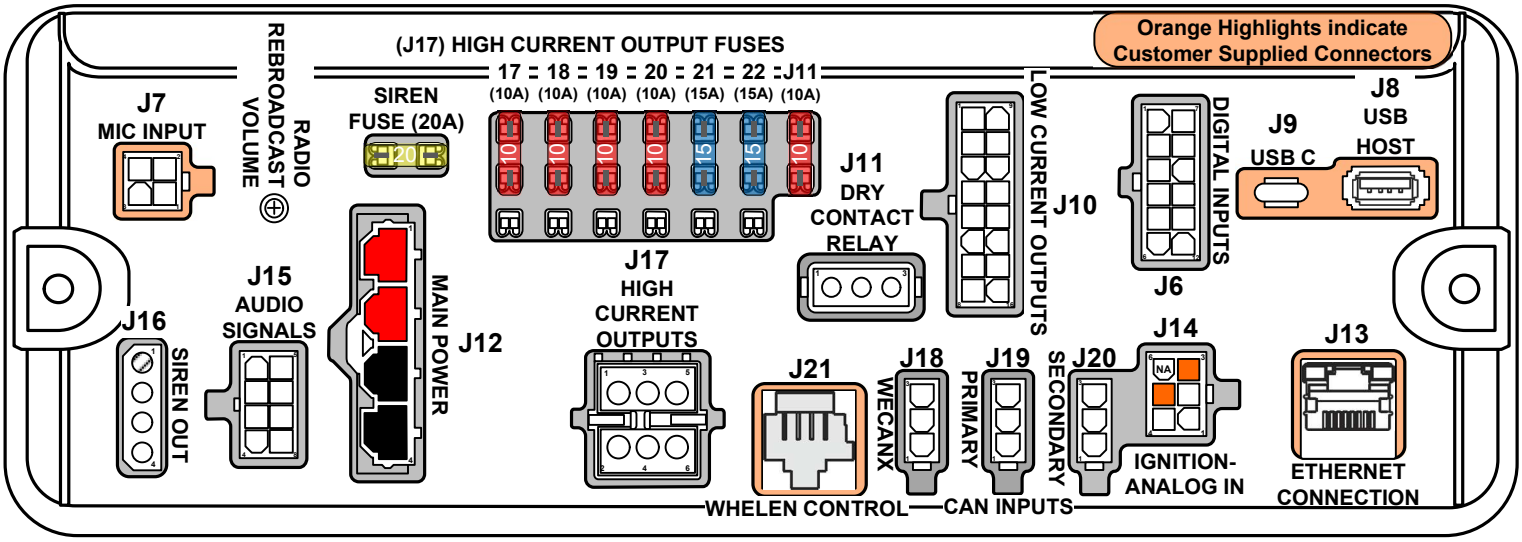
EDD 011025 04-11 ECN 000000

12-WCSPI-CORE-G

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



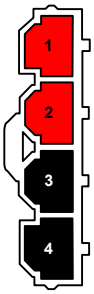
12-WCSPI-CORE-G

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”

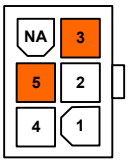
J14 Ignition Connector

- 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

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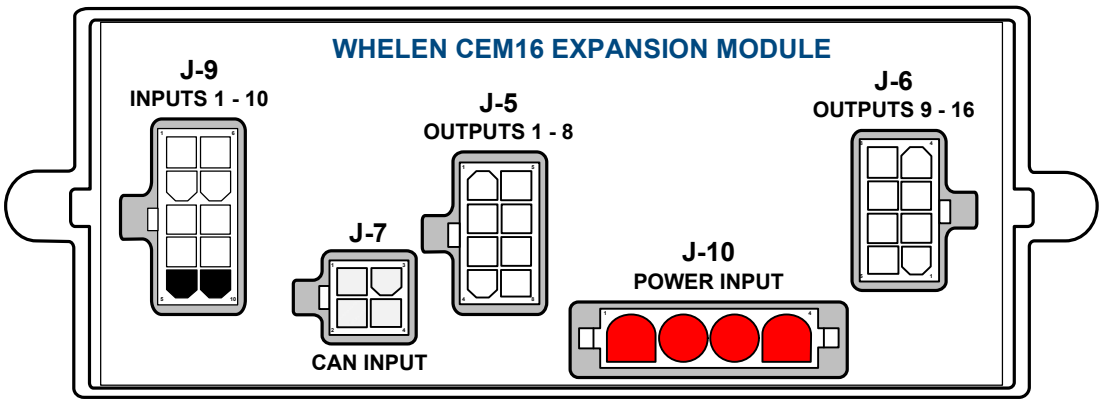
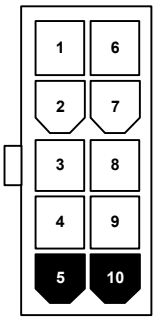
Web: www.allfleetsolutions.com

EDD 061125 ECN 120623

12-WCX-PWR36-G

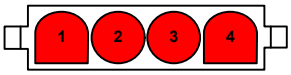
36" Power Cable for Whelen CEM16 Expansion Module to Fuse Panel





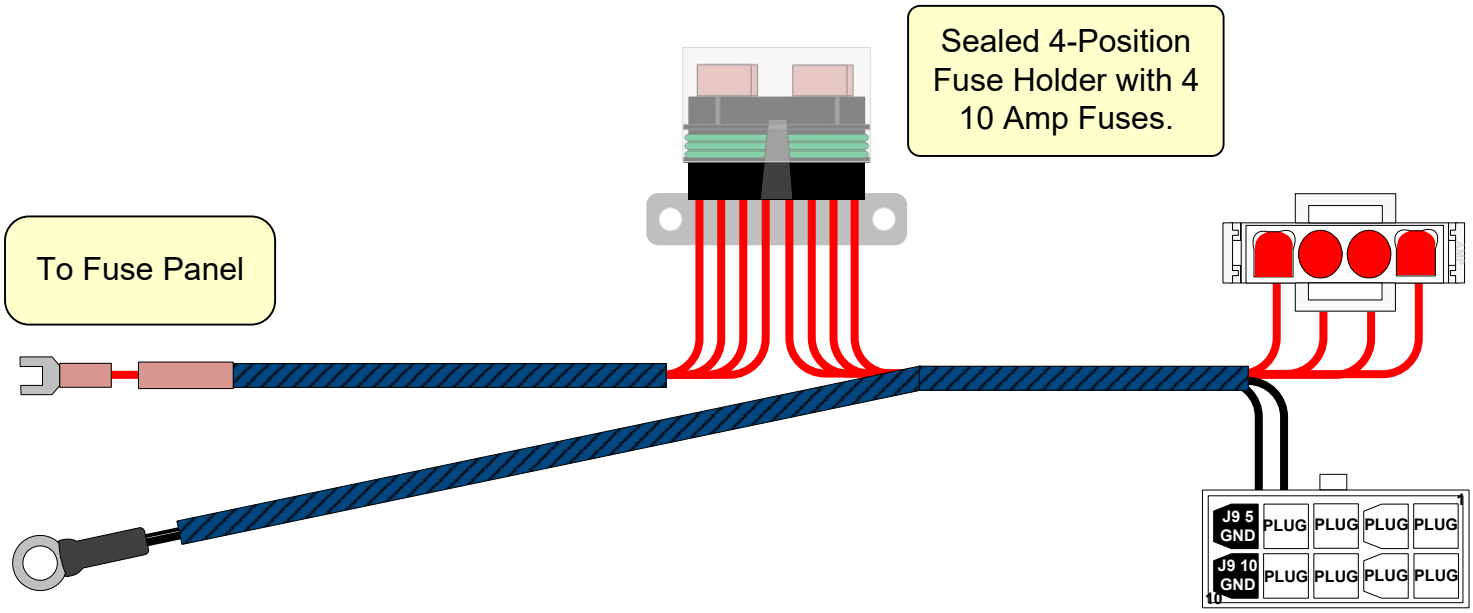
J-9 – INPUTS 1 thru 10

- 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 – 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

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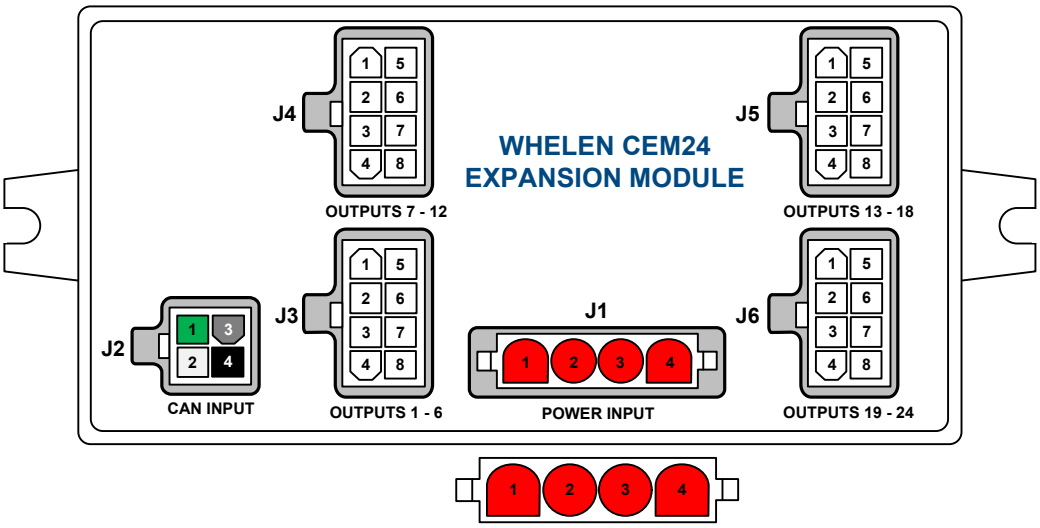
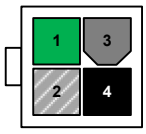
EDD 121622 ECN 000000

WCX-PWR36-C24

36" Power Cable for Whelen CEM24 Expansion Module





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

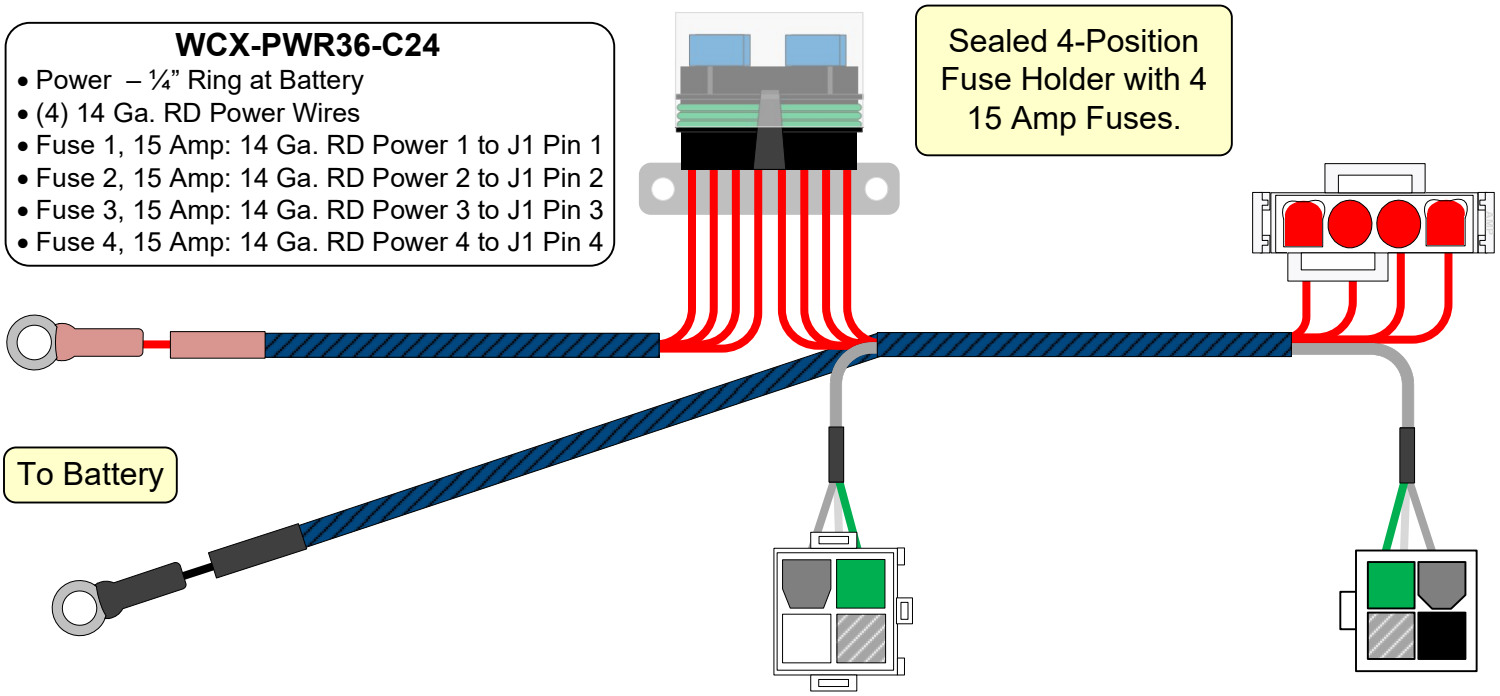
J1 – POWER INPUT

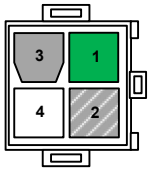
- Pin 1 Power Input 1 (15A) – 14 Ga. RD Power "POWER 1"
- Pin 2 Power Input 2 (15A) – 14 Ga. RD Power "POWER 2"
- Pin 3 Power Input 3 (15A) – 14 Ga. RD Power "POWER 3"
- Pin 4 Power Input 4 (15A) – 14 Ga. RD Power "POWER 4"

WCX-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*"

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EDD 021825 ECN 000000

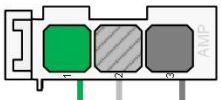
WCX-M10

Data Cable Junction Box with 3-Position Connectors (Qty. 9), Female Socket Terminals (Qty. 27) & 18" Data Cable (Qty. 1)

AFS# 3-009-F3 x 9

AFS# 3-009-S1-1620 x 27

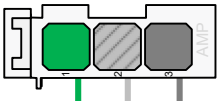
TO CORE



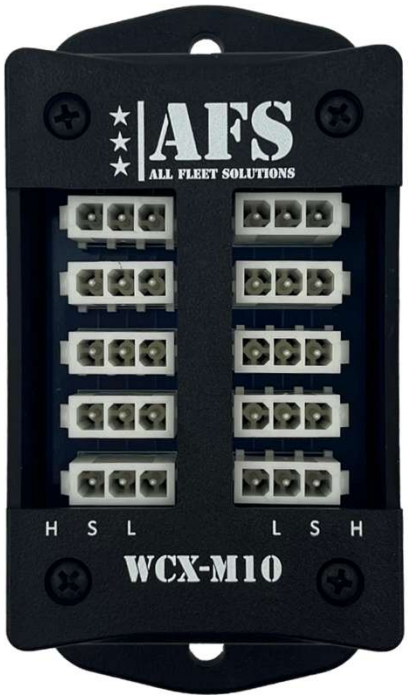
Data Communication

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

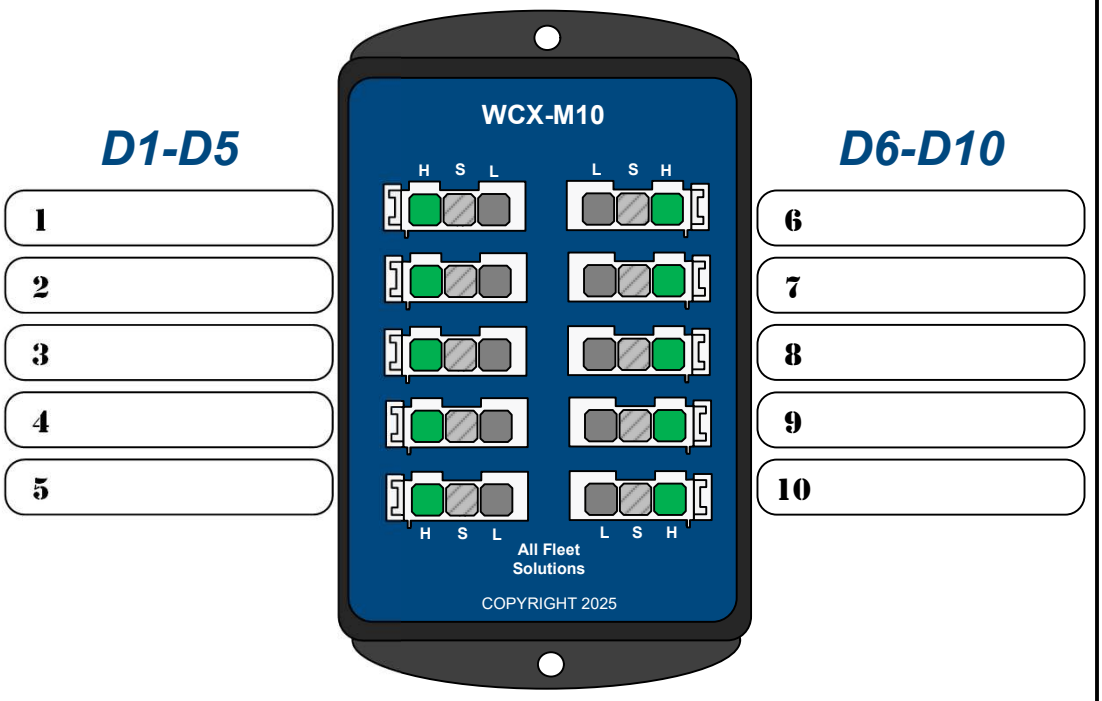
WCX-M10



Top Of Panel



DATA PORT LAYOUT



Installer: Please note the device name and location above for future reference.

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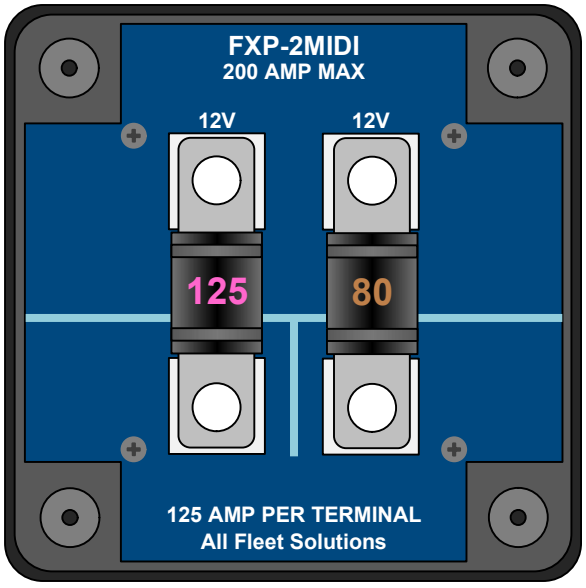
Web: www.allfleetsolutions.com

EDD 070925 ECN 000000

FXP-2MIDI-18

Fusel Panel Expansion Module with 18" Power Lead

FXP-2MIDI



- Stud Torque – 50Inch/Lbs

¼" Ring **¼" Ring**

(1) 12-6GA PWR RED 18-22

- ¼" Ring to ¼" Ring
- Midi Fuse Torque Spec Label
- Recommended Power wire from FXP-2MIDI to CTF or Power Series Fuse Panels

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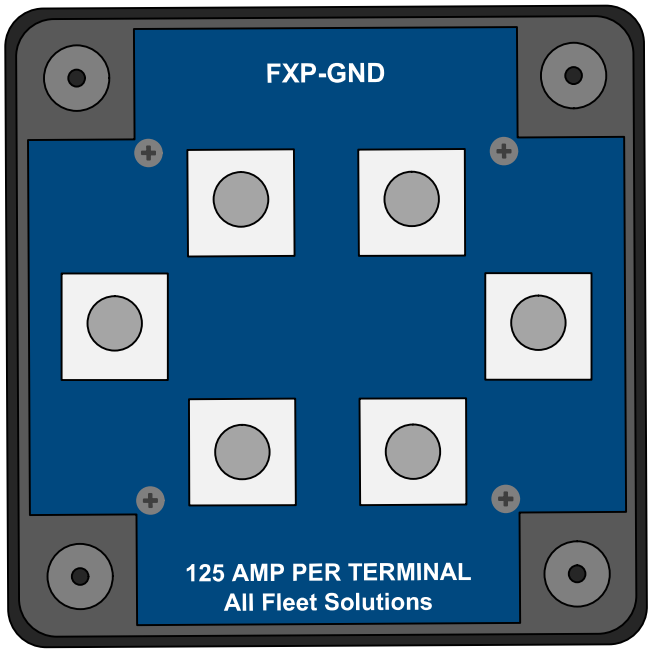
Web: www.allfleetsolutions.com

EDD 032224 *ECN 103025*

FXP-GND-18
AFS 6-Stud Ground Bus with 18" 6 Ga. Ground Lead

AFS 6-Stud Ground Bus
- AFS # FXP-GND



- Stud Torque – 50 in/lbs

¼" Ring

¼" Ring

FXP-GND
50 in/lbs

(1) 12-6GA GND BLK 18-22
- ¼" Ring to ¼" Ring
- Midi Fuse Torque Spec Label
- Recommended Ground wire from FXP-GND to CTF or Power Series Fuse Panels

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EDD 021324 *ECN 000000*

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Web: www.allfleetsolutions.com

QK-WCX-600
Kit Inventory Sheet

AFS Part #	Part Description	QTY.	Shipped	Received
MW-T8-PB-C24	Front Lighting Harness for Whelen CEM24	1.00	✓	✓
WCX-PWR36-C24	36" Power Cable for Whelen CEM24 – *Utilize with front Cem24*	1.00		
MW-DC25-2CH	Data & Speaker Harness for Whelen Core C399	1.00		
RLH34-C-WCX	Rear Lighting Harness for Whelen Core C399 & CEM16	1.00		
12-WCX-PWR36-G	36" Power Cable for Whelen CEM16 – *Utilize with rear Cem16*	1.00		
PDD-B12i2D6	Power & Data Distribution Panel	1.00		
12-WCSPI-CORE-G	28" Whelen Core C399 Power Cable W/ Ignition	1.00		
MW-ACD24-R	Arges Controller & Dual Spotlight Power Cable	1.00		
WCX-M10	WeCanX Data Distribution Module	1.00		
FXP-2MIDI-18	Fuse Panel Expansion Module with 18" Power Lead	1.00		
FXP-GND-18	AFS 6 Stud Ground Bus with 18" Ground Lead	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.

Notes

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 your fleet. The items depicted inside this flyer are part of a harness kit designed to support Whelen Core. If this kit does not meet your needs contact your Sales Representative to help design a kit for your application.

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