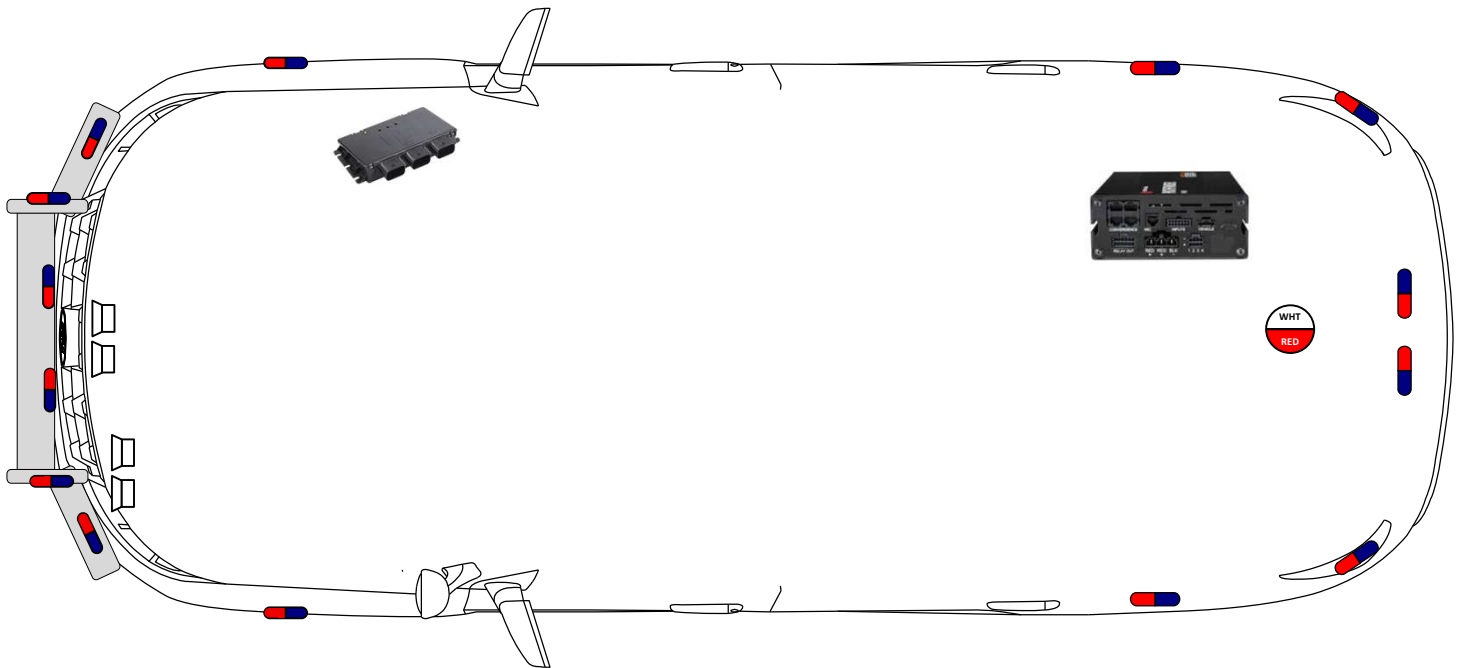
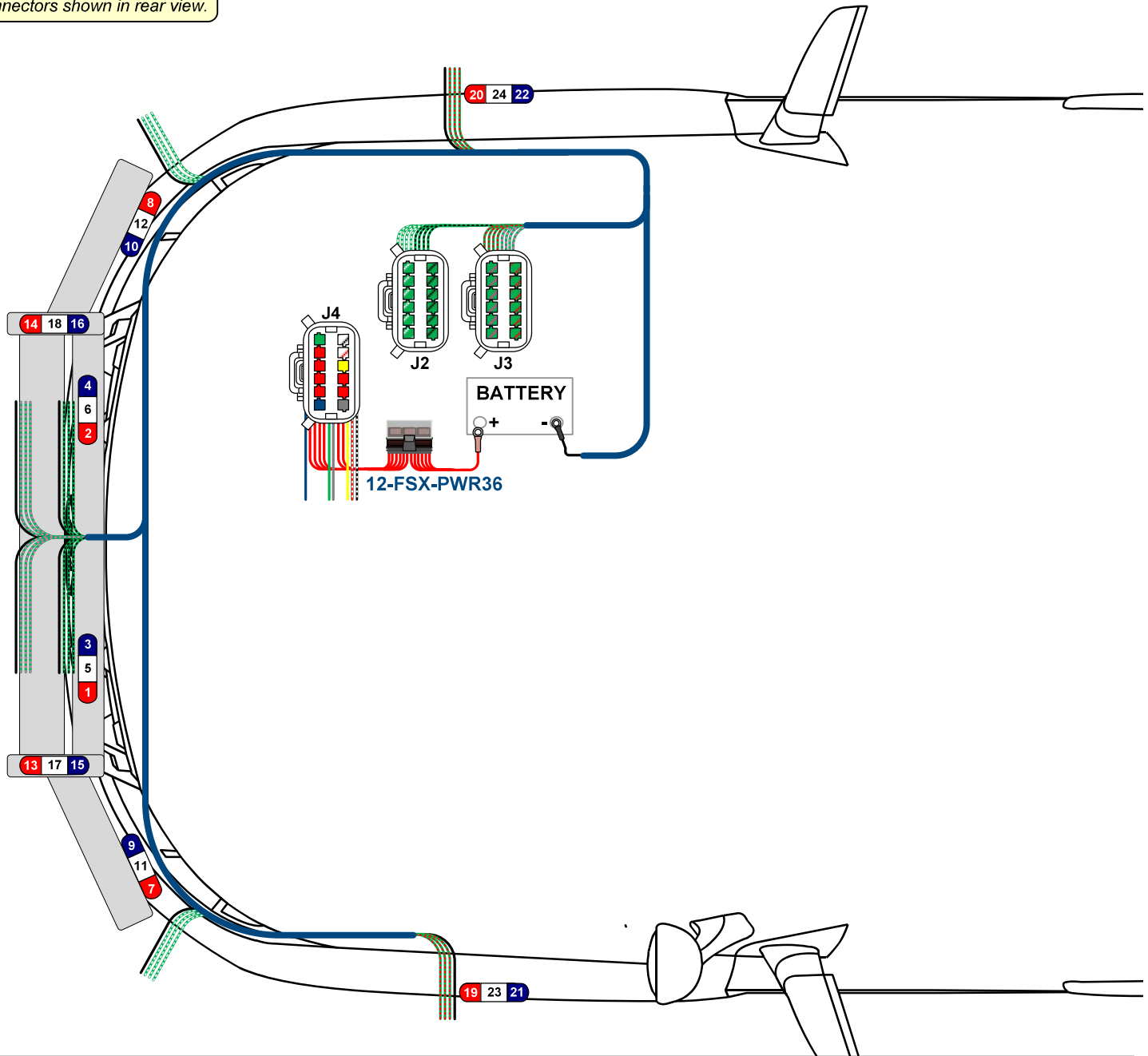




QK-FSX-250PB
Dual Color Lighthouse Kit Supports
Federal Signal Pathfinder PF400 Siren

Note: Connectors shown in rear view.



FRONT LIGHTING:

PUSH BUMPER FRONT LIGHTS

- 18 Ga. GN/BK Driver PB Front Light 1 "XO 7 L1" to EXP24 J2 Pin 7
- 18 Ga. GN/BK Driver PB Front Light 3 "XO 8 L3" to EXP24 J2 Pin 8
- 18 Ga. GN/BK Driver PB Front Light 5 "XO 9 L5" to EXP24 J2 Pin 9
- 18 Ga. BK Driver PB Front Lights Ground "OUT 7 GND" to Ground Assembly
- 18 Ga. GN/BK Pass. PB Front Light 2 "XO 10 L2" to EXP24 J2 Pin 10
- 18 Ga. GN/BK Pass. PB Front Light 4 "XO 11 L4" to EXP24 J2 Pin 11
- 18 Ga. GN/BK Pass. PB Front Light 6 "XO 12 L6" to EXP24 J2 Pin 12
- 18 Ga. BK Driver PB Front Lights Ground "OUT 10 GND" to Ground Assembly

PUSH BUMPER SIDE LIGHTS

- 18 Ga. GN/PK Driver PB Side Light 13 "XO 13 L13" to EXP24 J3 Pin 1
- 18 Ga. GN/PK Driver PB Side Light 15 "XO 14 L15" to EXP24 J3 Pin 2
- 18 Ga. GN/PK Driver PB Side Light 17 "XO 15 L17" to EXP24 J3 Pin 3
- 18 Ga. BK Driver PB Side Lights Ground "OUT 13 GND" to Ground Assembly
- 18 Ga. GN/PK Pass. PB Side Light 14 "XO 16 L14" to EXP24 J3 Pin 4
- 18 Ga. GN/PK Pass. PB Side Light 16 "XO 17 L16" to EXP24 J3 Pin 5
- 18 Ga. GN/PK Pass. PB Side Light 18 "XO 18 L18" to EXP24 J3 Pin 6
- 18 Ga. BK Pass. PB Side Lights Ground "OUT 16 GND" to Ground Assembly

CORNER LIGHTS

- 18 Ga. GN/WH Driver Corner Light 7 "XO 1 L7" to EXP24 J2 Pin 1
- 18 Ga. GN/WH Driver Corner Light 9 "XO 2 L9" to EXP24 J2 Pin 2
- 18 Ga. GN/WH Driver Corner Light 11 "XO 3 L11" to EXP24 J2 Pin 3
- 18 Ga. BK Driver Corner Lights Ground "OUT 1 GND" to Ground Assembly
- 18 Ga. GN/WH Pass. Corner Light 8 "XO 4 L8" to EXP24 J2 Pin 4
- 18 Ga. GN/WH Pass. Corner Light 10 "XO 5 L10" to EXP24 J2 Pin 5
- 18 Ga. GN/WH Pass. Corner Light 12 "XO 6 L12" to EXP24 J2 Pin 6
- 18 Ga. BK Pass. Corner Lights Ground "OUT 4 GND" to Ground Assembly

FENDER LIGHTS

- 18 Ga. GN/RD Driver Fender Light 19 "XO 19 L19" to EXP24 J3 Pin 7
- 18 Ga. GN/RD Driver Fender Light 21 "XO 20 L21" to EXP24 J3 Pin 8
- 18 Ga. GN/RD Driver Fender Light 23 "XO 21 L23" to EXP24 J3 Pin 9
- 18 Ga. BK Driver Fender Lights Ground "OUT 19 GND" to Ground Assembly
- 18 Ga. GN/RD Pass. Fender Light 20 "XO 22 L20" to EXP24 J3 Pin 10
- 18 Ga. GN/RD Pass. Fender Light 22 "XO 23 L22" to EXP24 J3 Pin 11
- 18 Ga. GN/RD Pass. Fender Light 24 "XO 24 L24" to EXP24 J3 Pin 12
- 18 Ga. BK Pass. Fender Lights Ground "OUT 22 GND" to Ground Assembly

PRODUCTS SHOWN ON LAYOUT:

Front Lighting Harness: FS-FL-3T24
Underhood Power: 12-FSX-PWR36

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

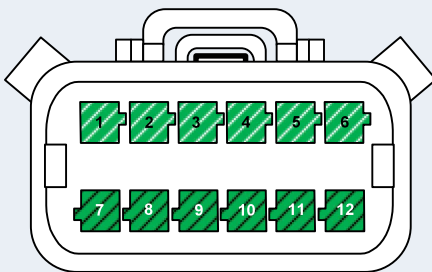
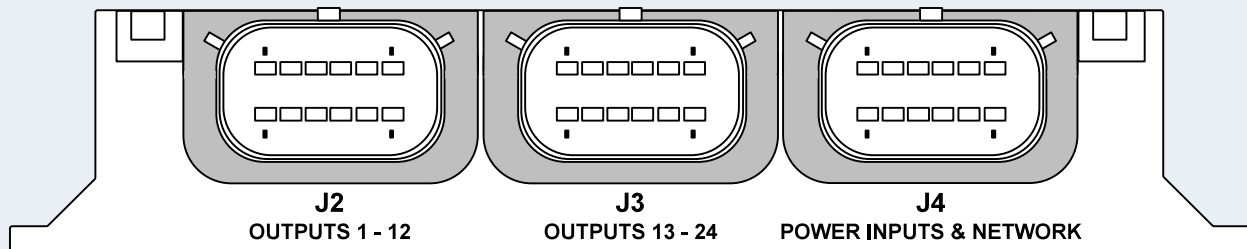
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 071724

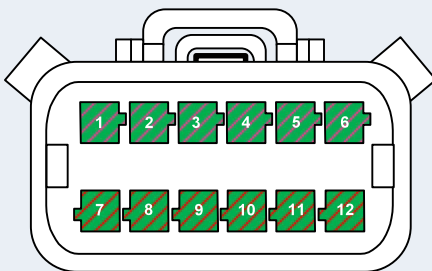
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EXPMOD24 EXPANSION MODULE



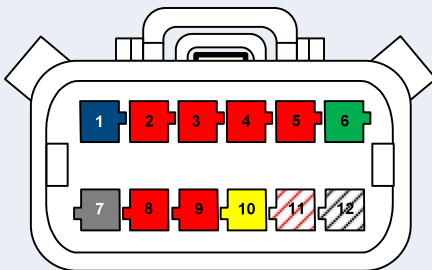
J2 – OUTPUTS 1 thru 12 FROM EXPMOD24

- Pin 1 Output 1 (2.5A) – 18 Ga. GN/WH Driver Corner Light 7 “XO 1 L7”
- Pin 2 Output 2 (2.5A) – 18 Ga. GN/WH Driver Corner Light 9 “XO 2 L9”
- Pin 3 Output 3 (2.5A) – 18 Ga. GN/WH Driver Corner Light 11 “XO 3 L11”
- Pin 4 Output 4 (2.5A) – 18 Ga. GN/WH Pass. Corner Light 8 “XO 4 L8”
- Pin 5 Output 5 (2.5A) – 18 Ga. GN/WH Pass. Corner Light 10 “XO 5 L10”
- Pin 6 Output 6 (2.5A) – 18 Ga. GN/WH Pass. Corner Light 12 “XO 6 L12”
- Pin 7 Output 7 (2.5A) – 18 Ga. GN/BK Driver PB Front Light 1 “XO 7 L1”
- Pin 8 Output 8 (2.5A) – 18 Ga. GN/BK Driver PB Front Light 3 “XO 8 L3”
- Pin 9 Output 9 (2.5A) – 18 Ga. GN/BK Driver PB Front Light 5 “XO 9 L5”
- Pin 10 Output 10 (2.5A) – 18 Ga. GN/BK Pass. PB Front Light 2 “XO 10 L2”
- Pin 11 Output 11 (2.5A) – 18 Ga. GN/BK Pass. PB Front Light 4 “XO 11 L4”
- Pin 12 Output 12 (2.5A) – 18 Ga. GN/BK Pass. PB Front Light 6 “XO 12 L6”



J3 – OUTPUTS 13 thru 24 FROM EXPMOD24

- Pin 1 Output 13 (2.5A) – 18 Ga. GN/PK Driver PB Side Light 13 “XO 13 L13”
- Pin 2 Output 14 (2.5A) – 18 Ga. GN/PK Driver PB Side Light 15 “XO 14 L15”
- Pin 3 Output 15 (2.5A) – 18 Ga. GN/PK Driver PB Side Light 17 “XO 15 L17”
- Pin 4 Output 16 (2.5A) – 18 Ga. GN/PK Pass. PB Side Light 14 “XO 16 L14”
- Pin 5 Output 17 (2.5A) – 18 Ga. GN/PK Pass. PB Side Light 16 “XO 17 L16”
- Pin 6 Output 18 / Input 1 18 Ga. GN/PK Pass. PB Side Light 18 “XO 18 L18”
- Pin 7 Output 19 (2.5A) – 18 Ga. GN/RD Driver Fender Light 19 “XO 19 L19”
- Pin 8 Output 20 (2.5A) – 18 Ga. GN/RD Driver Fender Light 21 “XO 20 L21”
- Pin 9 Output 21 (2.5A) – 18 Ga. GN/RD Driver Fender Light 23 “XO 21 L23”
- Pin 10 Output 22 (2.5A) – 18 Ga. GN/RD Pass. Fender Light 20 “XO 22 L20”
- Pin 11 Output 23 (2.5A) – 18 Ga. GN/RD Pass. Fender Light 22 “XO 23 L22”
- Pin 12 Output 24 / Input 2 (2.5A) – 18 Ga. GN/RD Pass. Fender Light 24 “XO 24 L24”

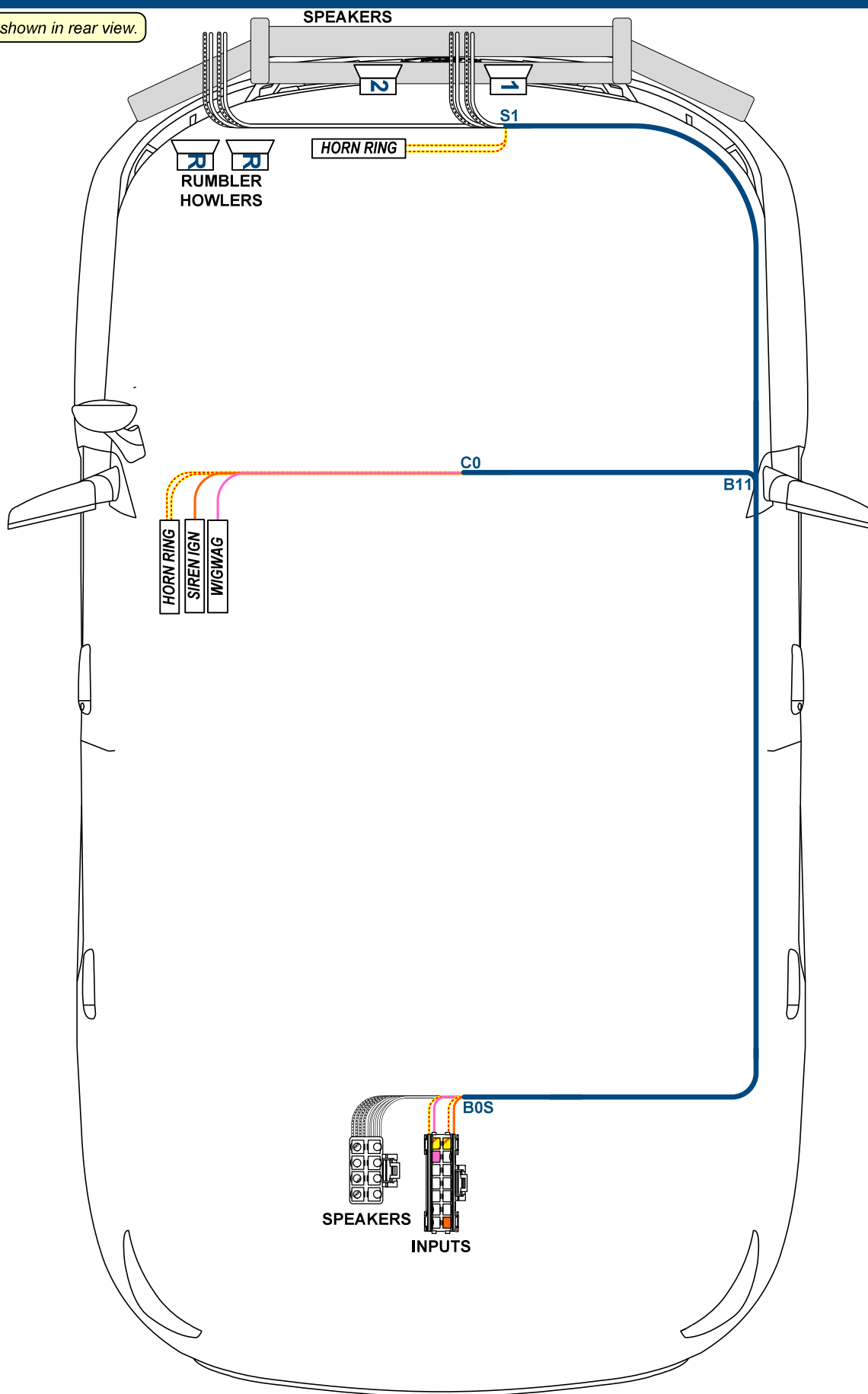


J4 – POWER INPUT & NETWORK COMMUNICATION TO EXPMOD24

- Pin 1 Input 1 (2.5A) – 18 Ga. BL “INPUT 1”
- Pin 2 Output 5-8 Power Input (10A) – 16 Ga. RD “PWR 5-8”
- Pin 3 Output 21-24 Power Input (10A) – 16 Ga. RD “PWR 21-24”
- Pin 4 Output 13-16 Power Input (10A) – 16 Ga. RD “PWR 13-16”
- Pin 5 Output 17-20 Power Input (10A) – 16 Ga. RD “PWR 17-20”
- Pin 6 Convergence Data A – RJ45 (Pos 3) – 18 Ga. GN “DATA A”
- Pin 7 Input 2 (2.5A) – 18 Ga. GY “INPUT 2”
- Pin 8 Output 1-4 Power Input (10A) – 16 Ga. RD “PWR 1-4”
- Pin 9 Output 9-12 Power Input (10A) – 16 Ga. RD “PWR 9-12”
- Pin 10 Convergence Data B – RJ45 (Pos 6) – 18 Ga. YW “DATA B”
- Pin 11 Convergence Net Power – RJ45 (Pos 8) – 18 Ga. WH/RD “NET PWR”
- Pin 12 Convergence Net Ground – RJ45 (Pos 1) – 18 Ga. WH/BK “NET GND”

**Note: See 12-FSX-PWR36 Layout, if applicable, for detailed information on Power Distribution (J4 Connector)*

Note: Connectors shown in rear view.



PRODUCTS SHOWN ON LAYOUT:

Speaker & Horn Harness: FS-SH-2H

TECHNICAL SUPPORT & SALES CONTACT:

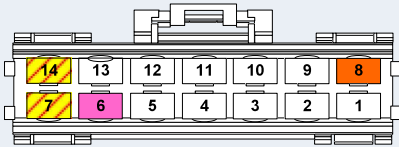
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

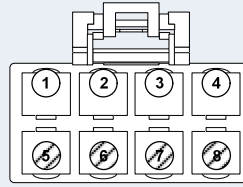
EDD 073125

ECN 000000



INPUTS –

- Pin 1 Radio In (+) –
- Pin 2 Radio In (-) –
- Pin 3 Relay 16 Low 4 Output (0.5A) –
- Pin 4 Relay 15 Low 3 Output (0.5A) –
- Pin 5 Relay 14 Low 2 Output (0.5A) –
- Pin 6 Relay 13 Low 1 Output (0.5A) – 16 Ga. PK “WIGWAG”
- Pin 7 Horn Relay Output (5A) – 16 Ga/ YW/RD “HORN”
- Pin 8 Ignition Input – 18 Ga. OR “SIREN IGN”
- Pin 9 Park Input –
- Pin 10 Input 1 (+) –
- Pin 11 Input 2 (+) –
- Pin 12 Input 3 (+) –
- Pin 13 Input 4 (+) –
- Pin 14 Horn Input – 16 Ga. YW/RD “HORN RING”



SPEAKER OUTOUTS –

- Pin 1 Speaker 1 Common (-) – 16 Ga. WH “SPKR 1 COM”
- Pin 2 Speaker 2 Common (-) – 16 Ga. WH “SPKR 2 COM”
- Pin 3 Speaker 3 Common (-) – 16 Ga. WH “HOWL 1 COM”
- Pin 4 Speaker 4 Common (-) – 16 Ga. WH “HOWL 2 COM”
- Pin 5 Speaker 1 Positive (+) – 16 Ga. WH/BK “SPKR 1 POS”
- Pin 6 Speaker 2 Positive (+) – 16 Ga. WH/BK “SPKR 2 POS”
- Pin 7 Speaker 3 Positive (+) – 16 Ga. WH/BK “HOWL 1 POS”
- Pin 8 Speaker 4 Positive (+) – 16 Ga. WH/BK “HOWL 2 POS”

FRONT COMPONENTS:

SPEAKERS

- 16 Ga. WH/BK Speaker 1 Positive “SPKR 1 POS” from PF400 Speaker Pin 5
- 16 Ga. WH Speaker 1 Common “SPKR 1 COM” from PF400 Speaker Pin 1
- 16 Ga. WH/BK Speaker 2 Positive “SPKR 2 POS” from PF400 Speaker Pin 6
- 16 Ga. WH Speaker 2 Common “SPKR 2 COM” from PF400 Speaker Pin 2

RUMBLER HOWLERS

- 16 Ga. WH/BK Howler 1 Positive “HOWL 1 POS” from PF400 Speaker Pin 7
- 16 Ga. WH Howler 1 Common “HOWL 1 COM” from PF400 Speaker Pin 3
- 16 Ga. WH/BK Howler 2 Positive “HOWL 2 POS” from PF400 Speaker Pin 8
- 16 Ga. WH Howler 2 Common “HOWL 2 COM” from PF400 Speaker Pin 4

HORN RING

- 16 Ga. YW/RD Horn “HORN 2” from HORN Asm. Input Pin 7
- 16 Ga. YW/RD Horn Ring “HORN RG 2” from HORN RING Asm. Input Pin 13

MID COMPONENTS:

HORN RING

- 16 Ga. YW/RD Horn “HORN 1” from HORN Asm. Output Pin 7
- 16 Ga. YW/RD Horn Ring “HORN RG 1” from HORN RING Asm. Input Pin 14

SIREN IGNITION

- 18 Ga. OR Pathfinder 12V Ignition Input “SIREN IGN” Input Pin 8

WIGWAG

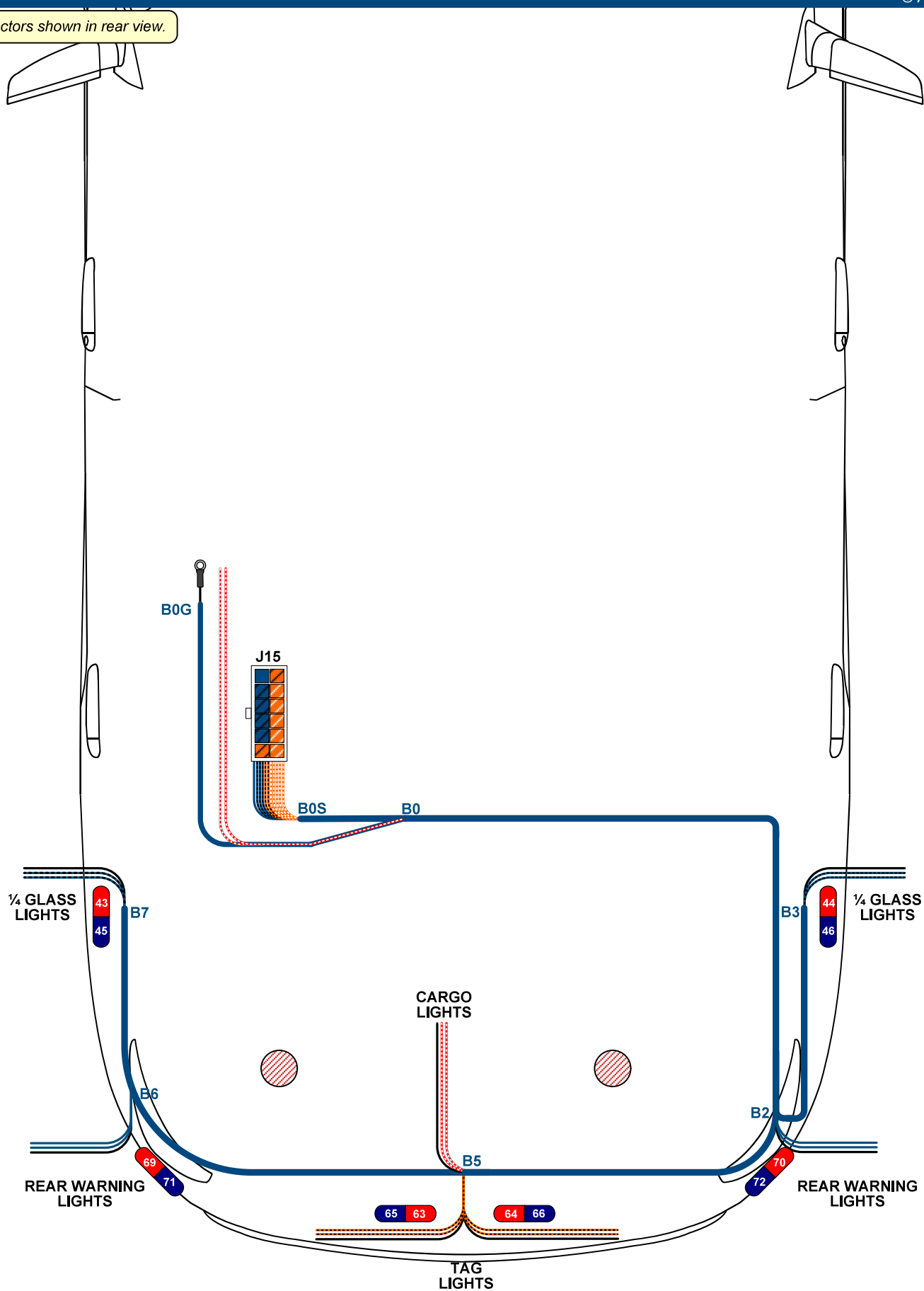
- 16 Ga. PK WigWag Flash Trigger “WIGWAG” from PF400 Input Pin 6

REAR COMPONENTS:

PATHFINDER MODULE

- See Pathfinder PF400 Module Layout for detailed information.

Note: Connectors shown in rear view.



PRODUCTS SHOWN ON LAYOUT:

Rear Lighting Harness: FS-RLH12-C

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

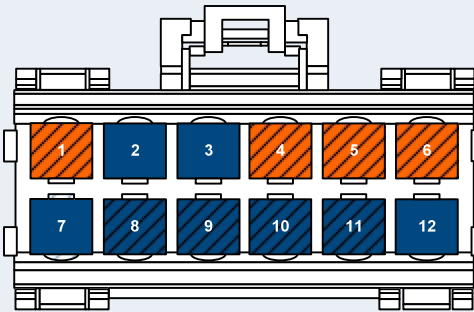
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 071725

ECN 000000

LIGHT & SIREN CONTROLLER:



CONNECTOR 2 – RELAY OUTPUTS

- Pin 1 Relay 9 Output (5A) – 18 Ga. OR/BK “LT 63”
- Pin 2 Relay 8 Output (5A) – 18 Ga. BL “LT 72”
- Pin 3 Relay 7 Output (5A) – 18 Ga. BL “LT 71”
- Pin 4 Relay 10 Output (5A) – 18 Ga. OR/BK “LT 64”
- Pin 5 Relay 11 Output (5A) – 18 Ga. OR/BK “LT 65”
- Pin 6 Relay 12 Output (5A) – 18 Ga. OR/BK “LT 66”
- Pin 7 Relay 5 Output (10A) – 18 Ga. BL “LT 69”
- Pin 8 Relay 1 Output (10A) – 18 Ga. BL/BK “LT 43”
- Pin 9 Relay 2 Output (10A) – 18 Ga. BL/BK “LT 44”
- Pin 10 Relay 3 Output (10A) – 18 Ga. BL/BK “LT 45”
- Pin 11 Relay 4 Output (10A) – 18 Ga. BL/BK “LT 46”
- Pin 12 Relay 6 Output (10A) – 18 Ga. BL “LT 70”

REAR GROUND

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

REAR LIGHTING:

¼ GLASS LIGHTS

- 18 Ga. BL/BK Driver ¼ Glass Light 43 “LT 43” from PF400 Relay Out Pin 8
- 18 Ga. BL/BK Driver ¼ Glass Light 45 “LT 45” from PF400 Relay Out Pin 10
- 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 PF400 Relay Out Pin 9
- 18 Ga. BL/BK Pass. ¼ Glass Light 46 “LT 46” from PF400 Relay Out Pin 11
- 18 Ga. BK Pass. ¼ Glass Lights Ground “LT 44 GND” from Ground Assembly



REAR WARNING LIGHTS

- 18 Ga. BL Driver Rear Warning Light 69 “LT 69” from PF400 Relay Out Pin 7
- 18 Ga. BL Driver Rear Warning Light 71 “LT 71” from PF400 Relay Out Pin 3
- 18 Ga. BK Driver Rear Warning Lights Ground “LT 69 GND” from Ground Assembly
- 18 Ga. BL Pass. Rear Warning Light 70 “LT 70” from PF400 Relay Out Pin 12
- 18 Ga. BL Pass. Rear Warning Light 72 “LT 72” from PF400 Relay Out Pin 2
- 18 Ga. BK Pass. Rear Warning Lights Ground “LT 70 GND” from Ground Assembly



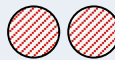
TAG LIGHTS

- 18 Ga. OR/BK Driver Tag Light 63 “LT 63” from PF400 Relay Out Pin 1
- 18 Ga. OR/BK Driver Tag Light 65 “LT 65” from PF400 Relay Out Pin 5
- 18 Ga. BK Driver Tag Lights Ground “LT 63 GND” from Ground Assembly
- 18 Ga. OR/BK Pass. Tag Light 64 “LT 64” from PF400 Relay Out Pin 4
- 18 Ga. OR/BK Pass. Tag Light 66 “LT 66” from PF400 Relay Out Pin 6
- 18 Ga. BK Pass. Tag Lights Ground “LT 64 GND” from Ground Assembly

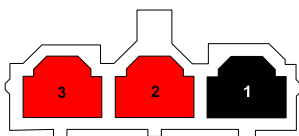
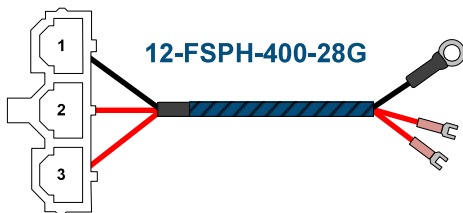
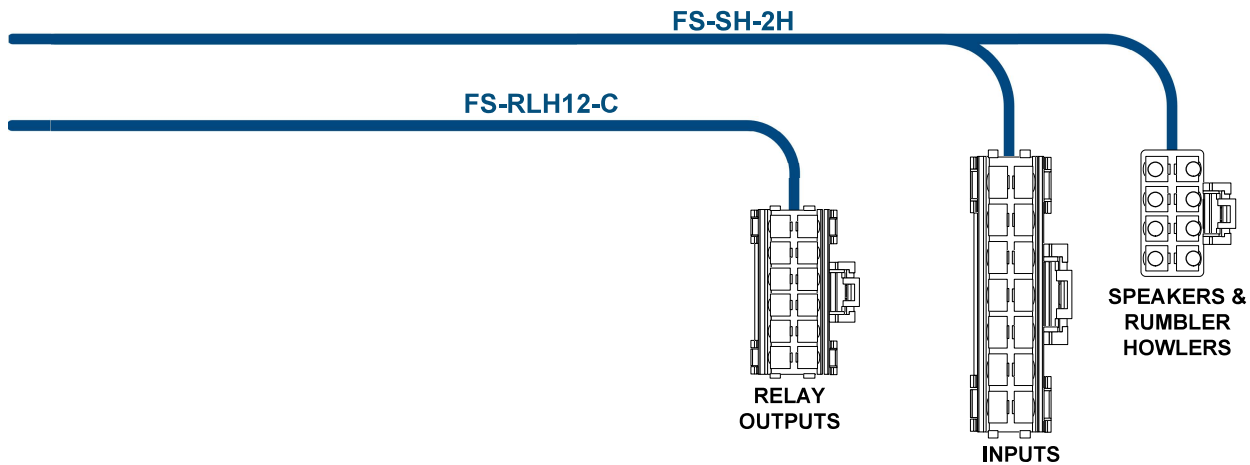
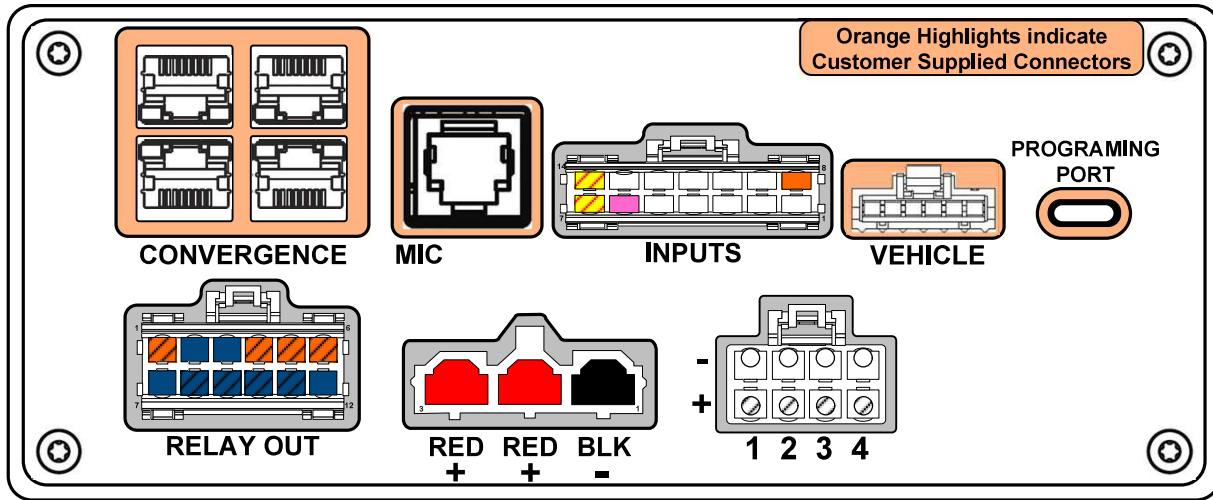


CARGO LIGHTS

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



Note: Connectors shown in rear view.



MAIN POWER –

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

Speaker & Horn Harness: FS-SH-2H
Rear Lighting Harness: FS-RLH12-C
Federal Signal Pathfinder PF400 Power Cable: 12-FSPF-400-28G

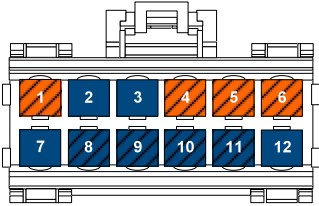
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

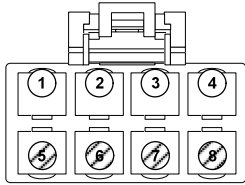
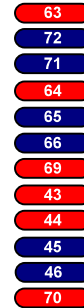
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ECN 000000



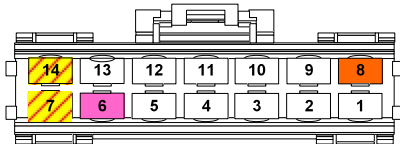
RELAY OUTPUTS –

- Pin 1 Relay 9 Output (5A) – 18 Ga. OR/BK Driver Tag Light 63 “LT 63” to Rear License Plate Area
- Pin 2 Relay 8 Output (5A) – 18 Ga. BL Pass. Rear Warning Light 72 “LT 72” to Pass. Rear Tail
- Pin 3 Relay 7 Output (5A) – 18 Ga. BL Driver Rear Warning Light 71 “LT 71” to Driver Rear Tail
- Pin 4 Relay 10 Output (5A) – 18 Ga. OR/BK Pass. Tag Light 64 “LT 64” to Rear License Plate Area
- Pin 5 Relay 11 Output (5A) – 18 Ga. OR/BK Driver Tag Light 65 “LT 65” to Rear License Plate Area
- Pin 6 Relay 12 Output (5A) – 18 Ga. OR/BK Pass. Tag Light 66 “LT 66” to Rear License Plate Area
- Pin 7 Relay 5 Output (10A) – 18 Ga. BL Driver Rear Warning Light 69 “LT 69” to Driver Rear Tail
- Pin 8 Relay 1 Output (10A) – 18 Ga. BL/BK Driver ¼ Glass light 43 “LT 43” to Driver Rear ¼ Glass
- Pin 9 Relay 2 Output (10A) – 18 Ga. BL/BK Pass. ¼ Glass light 44 “LT 44” to Pass. Rear ¼ Glass
- Pin 10 Relay 3 Output (10A) – 18 Ga. BL/BK Driver ¼ Glass light 45 “LT 45” to Driver Rear ¼ Glass
- Pin 11 Relay 4 Output (10A) – 18 Ga. BL/BK Pass. ¼ Glass light 46 “LT 46” to Pass. Rear ¼ Glass
- Pin 12 Relay 6 Output (10A) – 18 Ga. BL Pass. Rear Warning Light 70 “LT 70” to Pass. Rear Tail



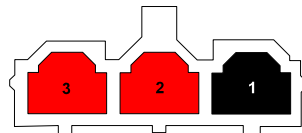
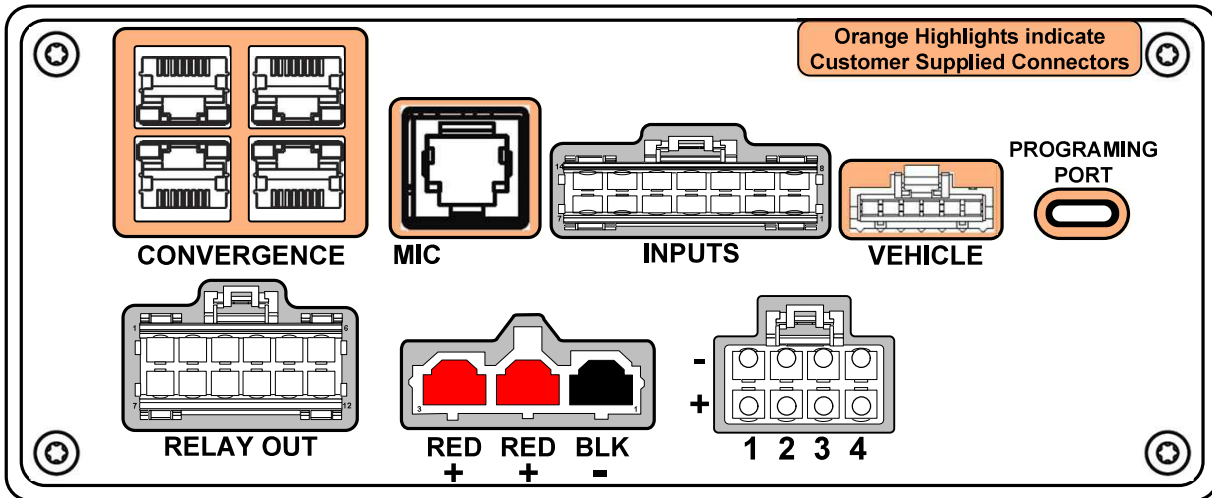
SPEAKER OUTPUTS –

- Pin 1 Speaker 1 Common (-) – 16 Ga. WH Speaker 1 Common “SPKR 1 COM” to Front Push Bumper
- Pin 2 Speaker 2 Common (-) – 16 Ga. WH Speaker 2 Common “SPKR 2 COM” to Front Push Bumper
- Pin 3 Speaker 3 Common (-) – 16 Ga. WH Howler 1 Common “HOWL 1 COM” to Front Underhood/Push Bumper Area
- Pin 4 Speaker 4 Common (-) – 16 Ga. WH Howler 2 Common “HOWL 2 COM” to Front Underhood/Push Bumper Area
- Pin 5 Speaker 1 Positive (+) – 16 Ga. WH/BK Speaker 1 Positive “SPKR 1 POS” to Front Push Bumper
- Pin 6 Speaker 2 Positive (+) – 16 Ga. WH/BK Speaker 2 Positive “SPKR 2 POS” to Front Push Bumper
- Pin 7 Speaker 3 Positive (+) – 16 Ga. WH/BK Howler 1 Positive “HOWL 1 POS” to Front Underhood/Push Bumper Area
- Pin 8 Speaker 4 Positive (+) – 16 Ga. WH/BK Howler 2 Positive “HOWL 2 POS” to Front Underhood/Push Bumper Area



INPUTS –

- Pin 1 Radio In (+) –
- Pin 2 Radio In (-) –
- Pin 3 Relay 16 Low 4 Output (0.5A) –
- Pin 4 Relay 15 Low 3 Output (0.5A) –
- Pin 5 Relay 14 Low 2 Output (0.5A) –
- Pin 6 Relay 13 Low 1 Output (0.5A) – 16 Ga. PK WigWag Flash Output Trigger “WIGWAG” to Interface Area
- Pin 7 Horn Relay Output (5A) – 16 Ga. YW/RD Horn Relay Output “HORN” to Assembly Appearing at Interface Area and Underhood Locations
- Pin 8 Ignition Input – 18 Ga. OR 12V Siren Ignition “SIREN IGN” to Interface Area
- Pin 9 Park Input –
- Pin 10 Input 1 (+) –
- Pin 11 Input 2 (+) –
- Pin 12 Input 3 (+) –
- Pin 13 Input 4 (+) –
- Pin 14 Horn Input – 16 Ga. YW/RD Horn Ring Input “HORN RING” to Assembly Appearing at Interface Area and Underhood Locations



MAIN POWER –

- Pin 1 Ground In (40A) – 10 Ga. BK Ground 1
- Pin 2 Siren Power In (40A) – 10 Ga. RD Power 1
- Pin 3 Lighting Power In – 10 Ga. RD Power 2



12-FSPF-400-28G

Power Connector

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

Connect To
P12 or P18 Fuse Panels

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

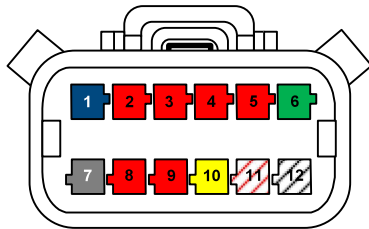
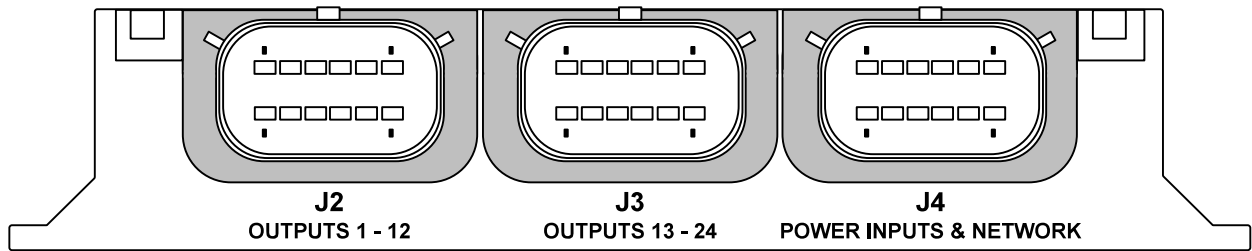
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 102125

ECN 000000

FEDERAL SIGNAL EXPMOD24 EXPANSION MODULE



J4 – POWER INPUT & NETWORK COMMUNICATION TO EXPMOD24

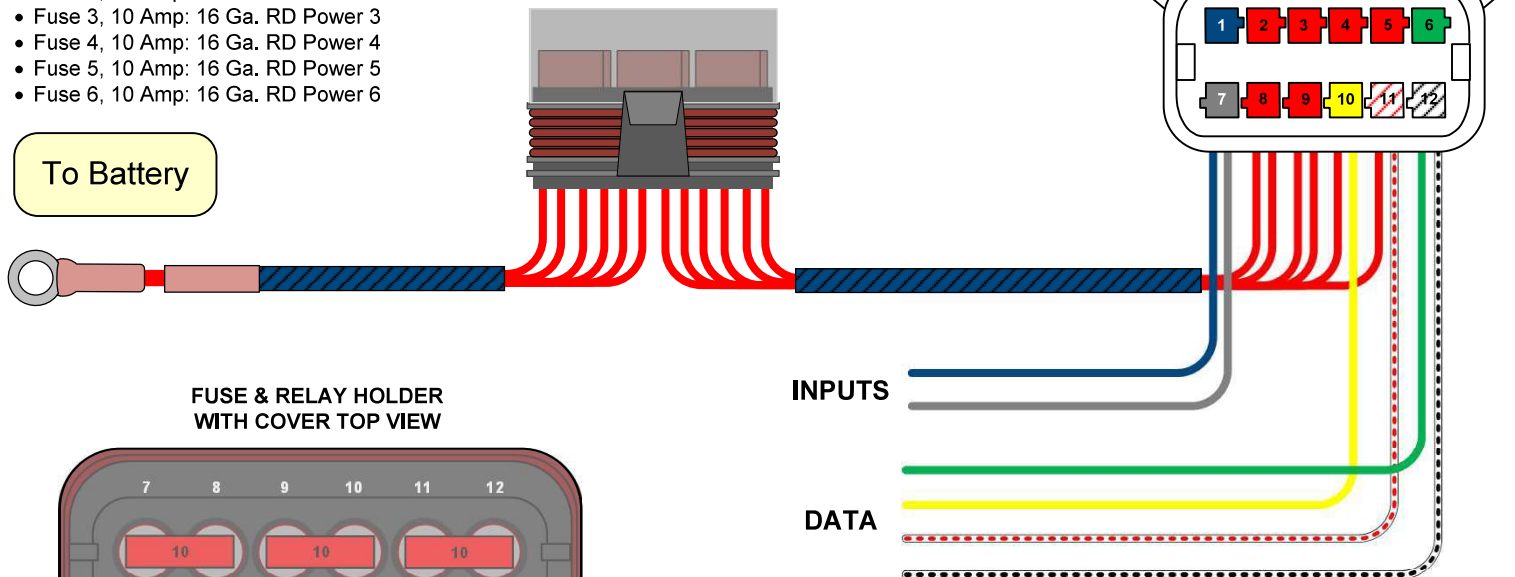
- Pin 1 Input 1 (2.5A) – 18 Ga. BL Input 1 “INPUT 1”
- Pin 2 Output 5-8 Power Input (10A) – 16 Ga. RD “POWER 5-8”
- Pin 3 Output 21-24 Power Input (10A) – 16 Ga. RD “PWR 21-24”
- Pin 4 Output 13-16 Power Input (10A) – 16 Ga. RD “PWR 13-16”
- Pin 5 Output 17-20 Power Input (10A) – 16 Ga. RD “PWR 17-20”
- Pin 6 Convergence Data A – RJ45 (Pos 3) – 18 Ga. GN Convergence Data A “DATA A”
- Pin 7 Input 2 (2.5A) – 18 Ga. GY Input 2 “INPUT 2”
- Pin 8 Output 1-4 Power Input (10A) – 16 Ga. RD “POWER 1-4”
- Pin 9 Output 9-12 Power Input (10A) – 16 Ga. RD “POWER 9-12”
- Pin 10 Convergence Data B – RJ45 (Pos 6) – 18 Ga. YW Convergence Data B “DATA B”
- Pin 11 Convergence Net Power – RJ45 (Pos 8) – 18 Ga. WH/RD Convergence Net Power “NET PWR”
- Pin 12 Convergence Net Ground – RJ45 (Pos 1) – 18 Ga. WH/BK Convergence Net Ground “NET GND”

POWER

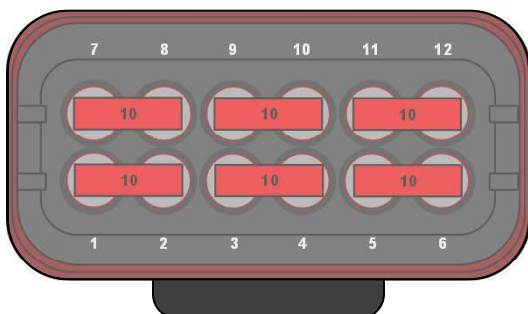
- Power – ¼" Ring at Battery
- (6) 16 Ga. RD Power Wires to Ring
- Fuse 1, 10 Amp: 16 Ga. RD Power 1
- Fuse 2, 10 Amp: 16 Ga. RD Power 2
- Fuse 3, 10 Amp: 16 Ga. RD Power 3
- Fuse 4, 10 Amp: 16 Ga. RD Power 4
- Fuse 5, 10 Amp: 16 Ga. RD Power 5
- Fuse 6, 10 Amp: 16 Ga. RD Power 6

Sealed 6 Position
Fuse Holder with 6
10 Amp Fuses.

To Battery



FUSE & RELAY HOLDER
WITH COVER TOP VIEW



TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

Email: sales@allfleetsolutions.com

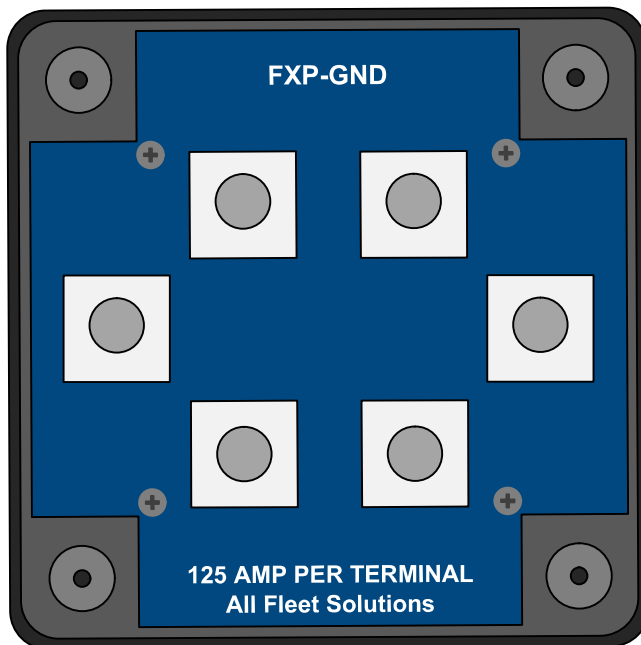
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EDD 070720

ECN 000000

AFS 6 Stud Ground Buss

- AFS # FXP-GND



- Stud Torque – 50 In/Lbs

¼" Ring

¼" Ring

(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

FXP-GND
 50Inch/Lbs

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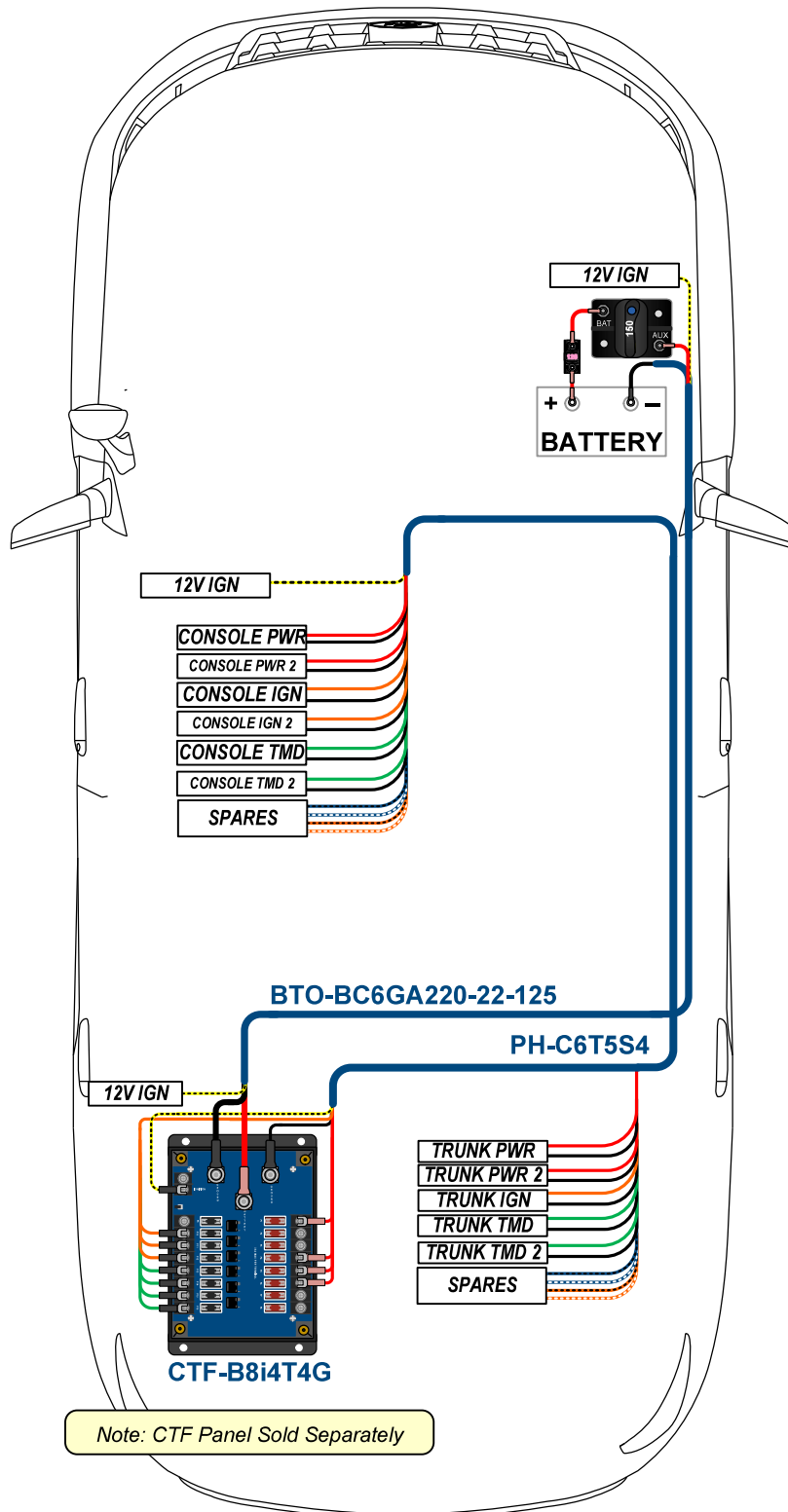
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EDD 021324

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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-FSX-250PB.

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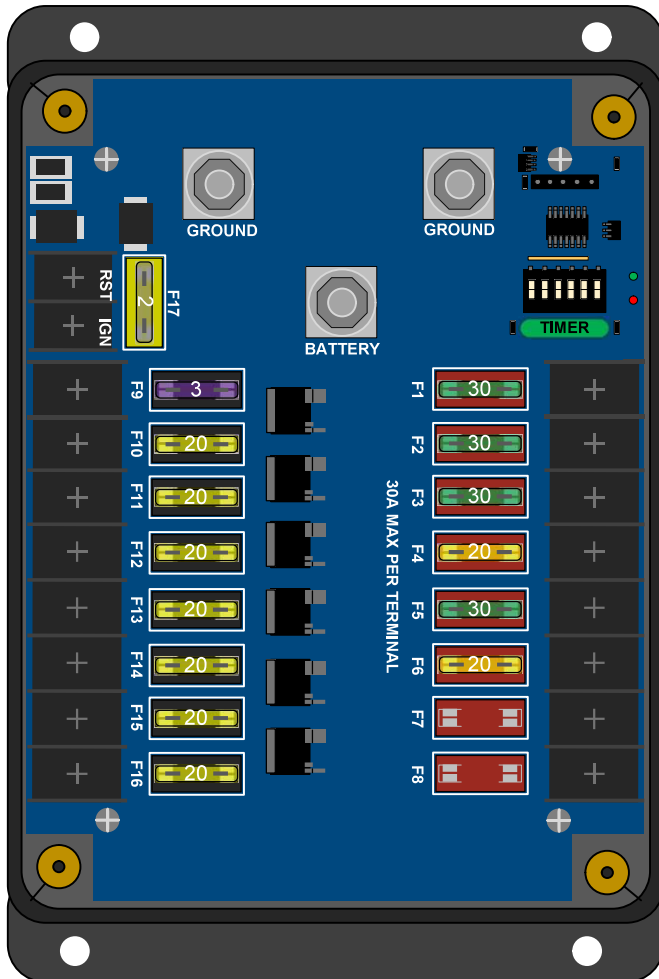
Web: www.allfleetsolutions.com

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 PF400 Power (30A) "POWER 1" from PF400 Power Cable
- F3: 10 Ga. RD PF400 Power (30A) "POWER 2" from PF400 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:
- 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
FS-FL-3T24	Front Lighting Harness for Federal Signal EXPMOD24	1.00	✓	✓
12-FSX-PWR36	Federal Signal EXPMOD24 Power Cable	1.00		
FS-SH-2H	Speaker & Howler Harness for Federal Signal Pathfinder PF400	1.00		
FS-RLH12-C	Rear Lighting Harness for Federal Signal Pathfinder PF400	1.00		
12-FSPF-400-28G	Federal Signal Pathfinder PF400 Power Cable	1.00		
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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