



AFS Design Guide

Federal Signal Products



Note: Connectors shown in rear view.

LIGHTING PIGTAILS:

J2 OUTPUTS

- 18 Ga. BL Output 1 "J2 1" from EXPMOD24 J2 Pin 1
- 18 Ga. RD Output 2 "J2 2" from EXPMOD24 J2 Pin 2
- 18 Ga. PU Output 3 "J2 3" from EXPMOD24 J2 Pin 3
- 18 Ga. BR Output 4 "J2 4" from EXPMOD24 J2 Pin 4
- 18 Ga. PK Output 5 "J2 5" from EXPMOD24 J2 Pin 5
- 18 Ga. TN Output 6 "J2 6" from EXPMOD24 J2 Pin 6
- 18 Ga. GY Output 7 "J2 7" from EXPMOD24 J2 Pin 7
- 18 Ga. BK Output 8 "J2 8" from EXPMOD24 J2 Pin 8
- 18 Ga. GN Output 9 "J2 9" from EXPMOD24 J2 Pin 9
- 18 Ga. WH Output 10 "J2 10" from EXPMOD24 J2 Pin 10
- 18 Ga. YW Output 11 "J2 11" from EXPMOD24 J2 Pin 11
- 18 Ga. OR Output 12 "J2 12" from EXPMOD24 J2 Pin 12

J3 OUTPUTS

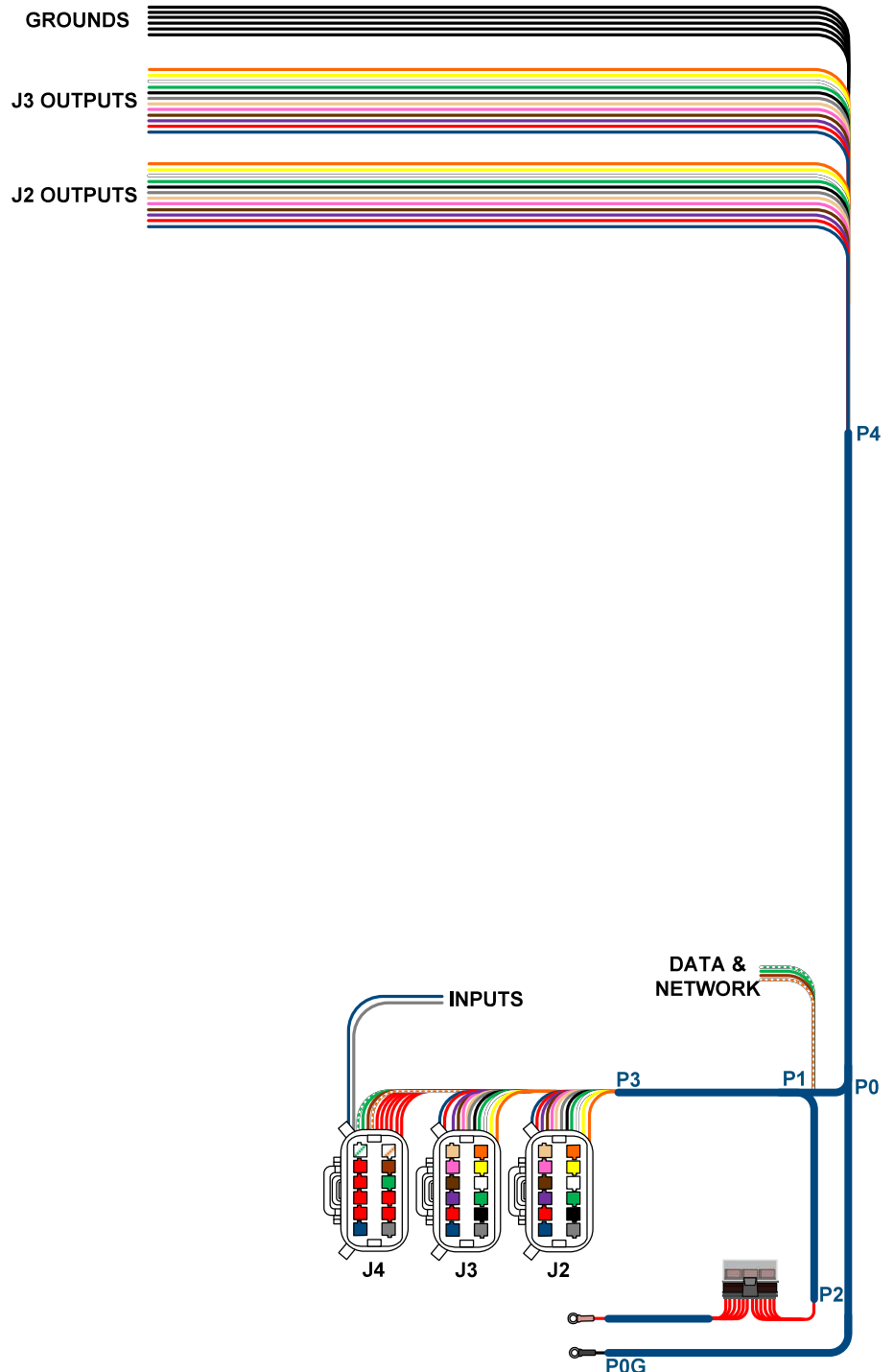
- 18 Ga. BL Output 13 "J3 1" from EXPMOD24 J3 Pin 1
- 18 Ga. RD Output 14 "J3 2" from EXPMOD24 J3 Pin 2
- 18 Ga. PU Output 15 "J3 3" from EXPMOD24 J3 Pin 3
- 18 Ga. BR Output 16 "J3 4" from EXPMOD24 J3 Pin 4
- 18 Ga. PK Output 17 "J3 5" from EXPMOD24 J3 Pin 5
- 18 Ga. TN Output 18 "J3 6" from EXPMOD24 J3 Pin 6
- 18 Ga. GY Output 19 "J3 7" from EXPMOD24 J3 Pin 7
- 18 Ga. BK Output 20 "J3 8" from EXPMOD24 J3 Pin 8
- 18 Ga. GN Output 21 "J3 9" from EXPMOD24 J3 Pin 9
- 18 Ga. WH Output 22 "J3 10" from EXPMOD24 J3 Pin 10
- 18 Ga. YW Output 23 "J3 11" from EXPMOD24 J3 Pin 11
- 18 Ga. OR Output 24 "J3 12" from EXPMOD24 J3 Pin 12

DATA & NETWORK

- 18 Ga. BL Input 1 "INPUT 1" from EXPMOD24 J4 Pin 1
- 18 Ga. GY Input 2 "INPUT 2" from EXPMOD24 J4 Pin 7
- 18 Ga. WH/GN Data "DATA A" from EXPMOD24 J4 Pin 6
- 18 Ga. GN Data "DATA B" from EXPMOD24 J4 Pin 10
- 18 Ga. BR "NET PWR" from EXPMOD24 J4 Pin 11
- 18 Ga. WH/OR "NET GND" from EXPMOD24 J4 Pin 12

GROUNDINGS

- 18 Ga. BK Ground 1 "GND 1" from Ground Assembly
- 18 Ga. BK Ground 2 "GND 2" from Ground Assembly
- 18 Ga. BK Ground 3 "GND 3" from Ground Assembly
- 18 Ga. BK Ground 4 "GND 4" from Ground Assembly
- 18 Ga. BK Ground 5 "GND 5" from Ground Assembly
- 18 Ga. BK Ground 6 "GND 6" from Ground Assembly



PRODUCTS SHOWN ON LAYOUT:

Federal Signal Expansion Pigtail Harness: FSX-PT120

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

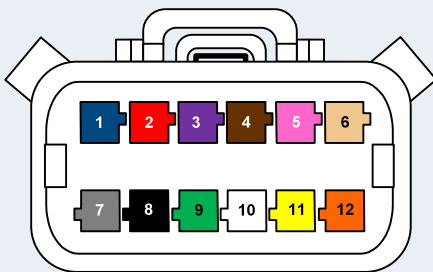
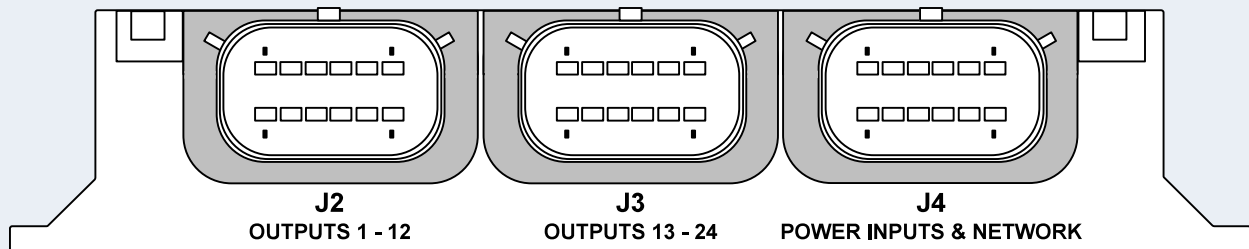
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

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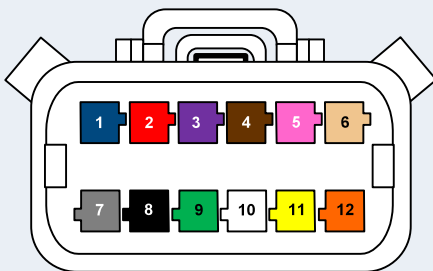
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EXPMOD24 EXPANSION MODULE



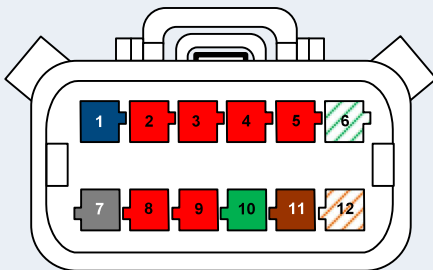
J2 – OUTPUTS 1 thru 12 FROM EXPMOD24

- Pin 1 Output 1 (2.5A) – 18 Ga. BL Output 1 “J2 1”
- Pin 2 Output 2 (2.5A) – 18 Ga. RD Output 2 “J2 2”
- Pin 3 Output 3 (2.5A) – 18 Ga. PU Output 3 “J2 3”
- Pin 4 Output 4 (2.5A) – 18 Ga. BR Output 4 “J2 4”
- Pin 5 Output 5 (2.5A) – 18 Ga. PK Output 5 “J2 5”
- Pin 6 Output 6 (2.5A) – 18 Ga. TN Output 6 “J2 6”
- Pin 7 Output 7 (2.5A) – 18 Ga. GY Output 7 “J2 7”
- Pin 8 Output 8 (2.5A) – 18 Ga. BK Output 8 “J2 8”
- Pin 9 Output 9 (2.5A) – 18 Ga. GN Output 9 “J2 9”
- Pin 10 Output 10 (2.5A) – 18 Ga. WH Output 10 “J2 10”
- Pin 11 Output 11 (2.5A) – 18 Ga. YW Output 11 “J2 11”
- Pin 12 Output 12 (2.5A) – 18 Ga. OR Output 12 “J2 12”



J3 – OUTPUTS 13 thru 24 FROM EXPMOD24

- Pin 1 Output 13 (2.5A) – 18 Ga. BL Output 13 “J3 1”
- Pin 2 Output 14 (2.5A) – 18 Ga. RD Output 14 “J3 2”
- Pin 3 Output 15 (2.5A) – 18 Ga. PU Output 15 “J3 3”
- Pin 4 Output 16 (2.5A) – 18 Ga. BR Output 16 “J3 4”
- Pin 5 Output 17 (2.5A) – 18 Ga. PK Output 17 “J3 5”
- Pin 6 Output 18 / Input 1 (2.5A) – 18 Ga. TN Output 18 “J3 6”
- Pin 7 Output 19 (2.5A) – 18 Ga. GY Output 19 “J3 7”
- Pin 8 Output 20 (2.5A) – 18 Ga. BK Output 20 “J3 8”
- Pin 9 Output 21 (2.5A) – 18 Ga. GN Output 21 “J3 9”
- Pin 10 Output 22 (2.5A) – 18 Ga. WH Output 22 “J3 10”
- Pin 11 Output 23 (2.5A) – 18 Ga. YW Output 23 “J3 11”
- Pin 12 Output 24 / Input 2 (2.5A) – 18 Ga. OR Output 24 “J3 12”



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 thru 8 “PWR 5-8”
- Pin 3 Output 21-24 Power Input (10A) – 16 Ga. RD Power 21 thru 24 “PWR 21-24”
- Pin 4 Output 13-16 Power Input (10A) – 16 Ga. RD Power 13 thru 16 “PWR 13-16”
- Pin 5 Output 17-20 Power Input (10A) – 16 Ga. RD Power 17 thru 20 “PWR 17-20”
- Pin 6 Convergence Data A – RJ45 (Pos 3) – 18 Ga. WH/GN Data “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 thru 4 “PWR 1-4”
- Pin 9 Output 9-12 Power Input (10A) – 16 Ga. RD Power 9 thru 12 “PWR 9-12”
- Pin 10 Convergence Data B – RJ45 (Pos 6) – 18 Ga. GN Data “DATA B”
- Pin 11 Convergence Net Power – RJ45 (Pos 8) – 18 Ga. BR Network Power “NET PWR”
- Pin 12 Convergence Net Ground – RJ45 (Pos 1) – 18 Ga. WH/OR Network Ground “NET GND”

Note: Connectors shown in rear view.

LIGHTING PIGTAILS:

J2 OUTPUTS

- 18 Ga. BL Output 1 "J2 1" from EXPMOD24 J2 Pin 1
- 18 Ga. RD Output 2 "J2 2" from EXPMOD24 J2 Pin 2
- 18 Ga. PU Output 3 "J2 3" from EXPMOD24 J2 Pin 3
- 18 Ga. BR Output 4 "J2 4" from EXPMOD24 J2 Pin 4
- 18 Ga. PK Output 5 "J2 5" from EXPMOD24 J2 Pin 5
- 18 Ga. TN Output 6 "J2 6" from EXPMOD24 J2 Pin 6
- 18 Ga. GY Output 7 "J2 7" from EXPMOD24 J2 Pin 7
- 18 Ga. BK Output 8 "J2 8" from EXPMOD24 J2 Pin 8
- 18 Ga. GN Output 9 "J2 9" from EXPMOD24 J2 Pin 9
- 18 Ga. WH Output 10 "J2 10" from EXPMOD24 J2 Pin 10
- 18 Ga. YW Output 11 "J2 11" from EXPMOD24 J2 Pin 11
- 18 Ga. OR Output 12 "J2 12" from EXPMOD24 J2 Pin 12

J3 OUTPUTS

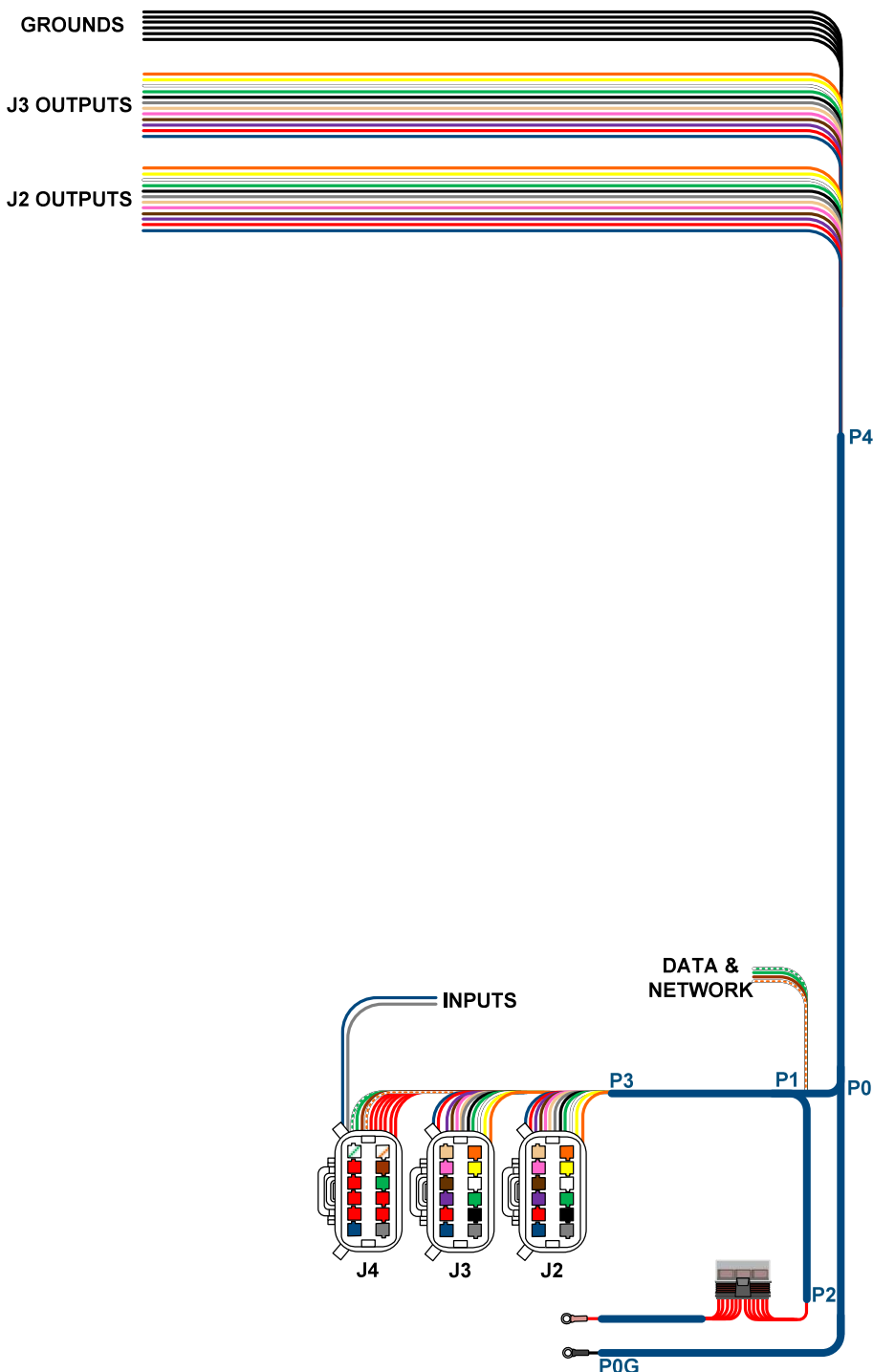
- 18 Ga. BL Output 13 "J3 1" from EXPMOD24 J3 Pin 1
- 18 Ga. RD Output 14 "J3 2" from EXPMOD24 J3 Pin 2
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- 18 Ga. PK Output 17 "J3 5" from EXPMOD24 J3 Pin 5
- 18 Ga. TN Output 18 "J3 6" from EXPMOD24 J3 Pin 6
- 18 Ga. GY Output 19 "J3 7" from EXPMOD24 J3 Pin 7
- 18 Ga. BK Output 20 "J3 8" from EXPMOD24 J3 Pin 8
- 18 Ga. GN Output 21 "J3 9" from EXPMOD24 J3 Pin 9
- 18 Ga. WH Output 22 "J3 10" from EXPMOD24 J3 Pin 10
- 18 Ga. YW Output 23 "J3 11" from EXPMOD24 J3 Pin 11
- 18 Ga. OR Output 24 "J3 12" from EXPMOD24 J3 Pin 12

DATA & NETWORK

- 18 Ga. BL Input 1 "INPUT 1" from EXPMOD24 J4 Pin 1
- 18 Ga. GY Input 2 "INPUT 2" from EXPMOD24 J4 Pin 7
- 18 Ga. WH/GN Data "DATA A" from EXPMOD24 J4 Pin 6
- 18 Ga. GN Data "DATA B" from EXPMOD24 J4 Pin 10
- 18 Ga. BR "NET PWR" from EXPMOD24 J4 Pin 11
- 18 Ga. WH/OR "NET GND" from EXPMOD24 J4 Pin 12

GROUNDINGS

- 18 Ga. BK Ground 1 "GND 1" from Ground Assembly
- 18 Ga. BK Ground 2 "GND 2" from Ground Assembly
- 18 Ga. BK Ground 3 "GND 3" from Ground Assembly
- 18 Ga. BK Ground 4 "GND 4" from Ground Assembly
- 18 Ga. BK Ground 5 "GND 5" from Ground Assembly
- 18 Ga. BK Ground 6 "GND 6" from Ground Assembly



PRODUCTS SHOWN ON LAYOUT:

Federal Signal Expansion Pigtail Harness: FSX-PT240

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

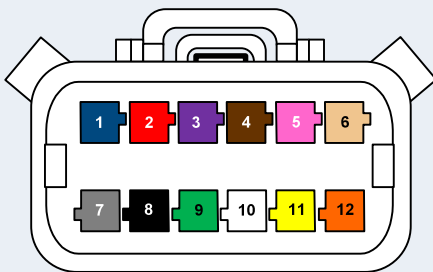
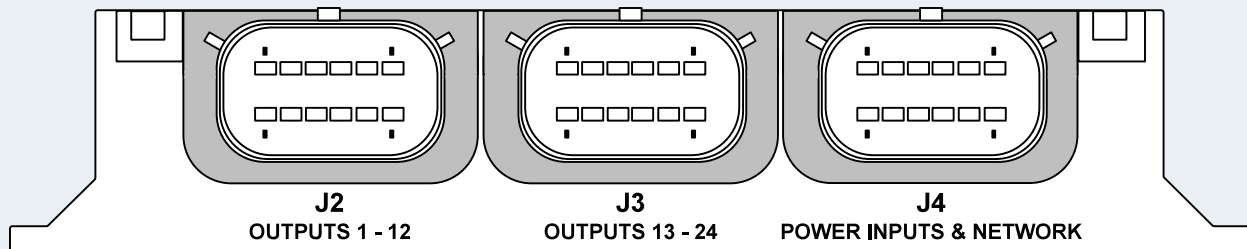
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

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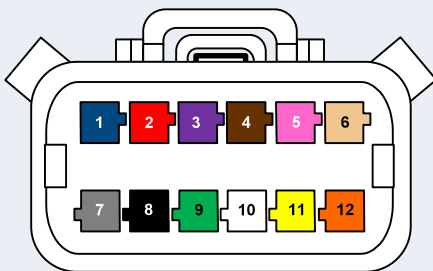
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EXPMOD24 EXPANSION MODULE



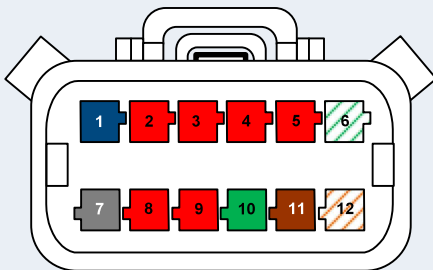
J2 – OUTPUTS 1 thru 12 FROM EXPMOD24

- Pin 1 Output 1 (2.5A) – 18 Ga. BL Output 1 “J2 1”
- Pin 2 Output 2 (2.5A) – 18 Ga. RD Output 2 “J2 2”
- Pin 3 Output 3 (2.5A) – 18 Ga. PU Output 3 “J2 3”
- Pin 4 Output 4 (2.5A) – 18 Ga. BR Output 4 “J2 4”
- Pin 5 Output 5 (2.5A) – 18 Ga. PK Output 5 “J2 5”
- Pin 6 Output 6 (2.5A) – 18 Ga. TN Output 6 “J2 6”
- Pin 7 Output 7 (2.5A) – 18 Ga. GY Output 7 “J2 7”
- Pin 8 Output 8 (2.5A) – 18 Ga. BK Output 8 “J2 8”
- Pin 9 Output 9 (2.5A) – 18 Ga. GN Output 9 “J2 9”
- Pin 10 Output 10 (2.5A) – 18 Ga. WH Output 10 “J2 10”
- Pin 11 Output 11 (2.5A) – 18 Ga. YW Output 11 “J2 11”
- Pin 12 Output 12 (2.5A) – 18 Ga. OR Output 12 “J2 12”



J3 – OUTPUTS 13 thru 24 FROM EXPMOD24

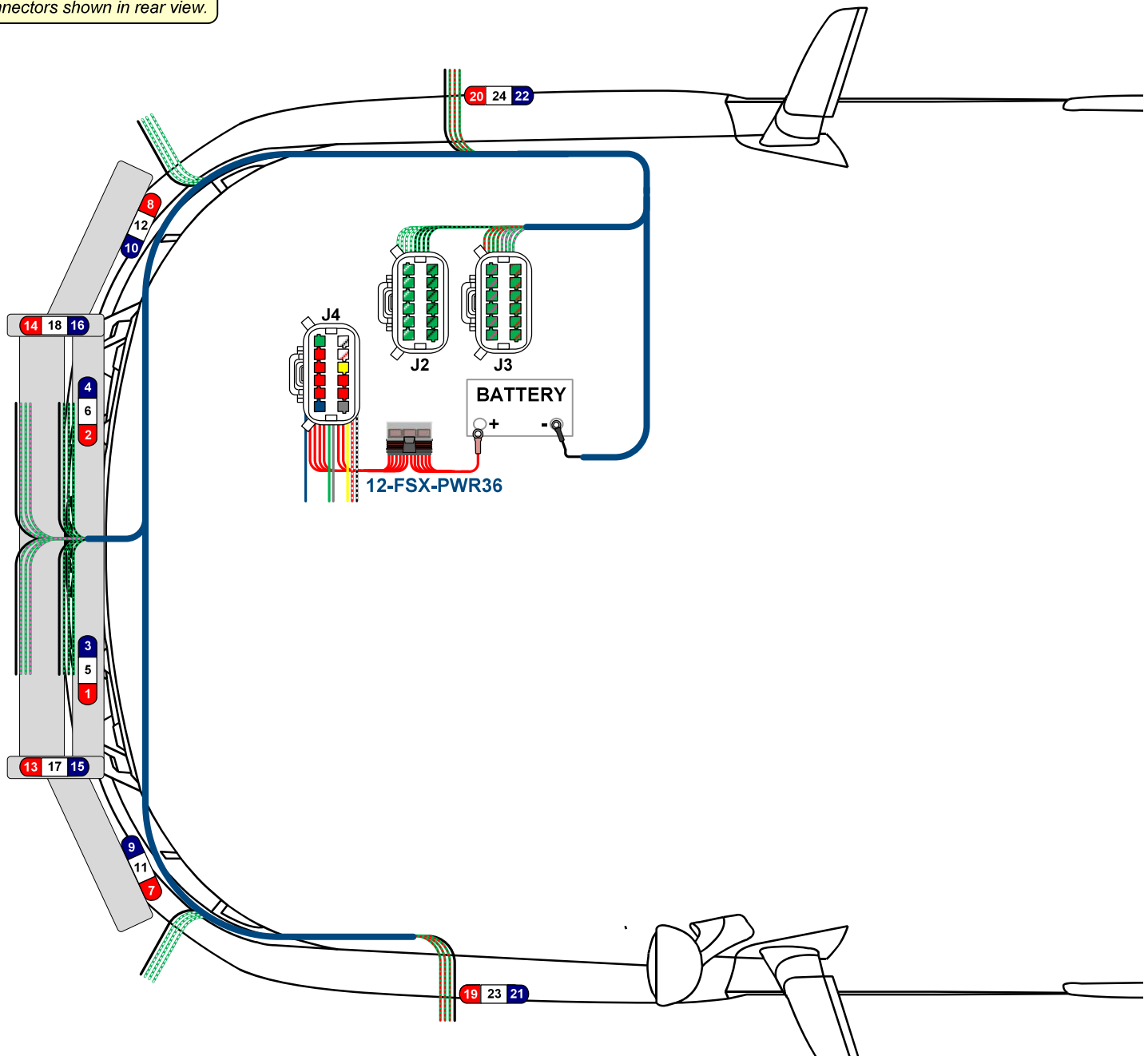
- Pin 1 Output 13 (2.5A) – 18 Ga. BL Output 13 “J3 1”
- Pin 2 Output 14 (2.5A) – 18 Ga. RD Output 14 “J3 2”
- Pin 3 Output 15 (2.5A) – 18 Ga. PU Output 15 “J3 3”
- Pin 4 Output 16 (2.5A) – 18 Ga. BR Output 16 “J3 4”
- Pin 5 Output 17 (2.5A) – 18 Ga. PK Output 17 “J3 5”
- Pin 6 Output 18 / Input 1 (2.5A) – 18 Ga. TN Output 18 “J3 6”
- Pin 7 Output 19 (2.5A) – 18 Ga. GY Output 19 “J3 7”
- Pin 8 Output 20 (2.5A) – 18 Ga. BK Output 20 “J3 8”
- Pin 9 Output 21 (2.5A) – 18 Ga. GN Output 21 “J3 9”
- Pin 10 Output 22 (2.5A) – 18 Ga. WH Output 22 “J3 10”
- Pin 11 Output 23 (2.5A) – 18 Ga. YW Output 23 “J3 11”
- Pin 12 Output 24 / Input 2 (2.5A) – 18 Ga. OR Output 24 “J3 12”



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 thru 8 “PWR 5-8”
- Pin 3 Output 21-24 Power Input (10A) – 16 Ga. RD Power 21 thru 24 “PWR 21-24”
- Pin 4 Output 13-16 Power Input (10A) – 16 Ga. RD Power 13 thru 16 “PWR 13-16”
- Pin 5 Output 17-20 Power Input (10A) – 16 Ga. RD Power 17 thru 20 “PWR 17-20”
- Pin 6 Convergence Data A – RJ45 (Pos 3) – 18 Ga. WH/GN Data “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 thru 4 “PWR 1-4”
- Pin 9 Output 9-12 Power Input (10A) – 16 Ga. RD Power 9 thru 12 “PWR 9-12”
- Pin 10 Convergence Data B – RJ45 (Pos 6) – 18 Ga. GN Data “DATA B”
- Pin 11 Convergence Net Power – RJ45 (Pos 8) – 18 Ga. BR Network Power “NET PWR”
- Pin 12 Convergence Net Ground – RJ45 (Pos 1) – 18 Ga. WH/OR Network Ground “NET GND”

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

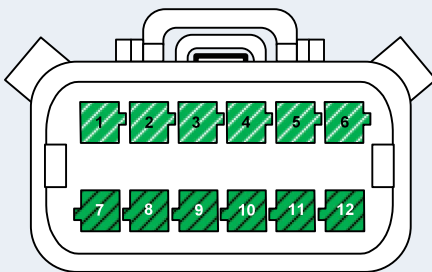
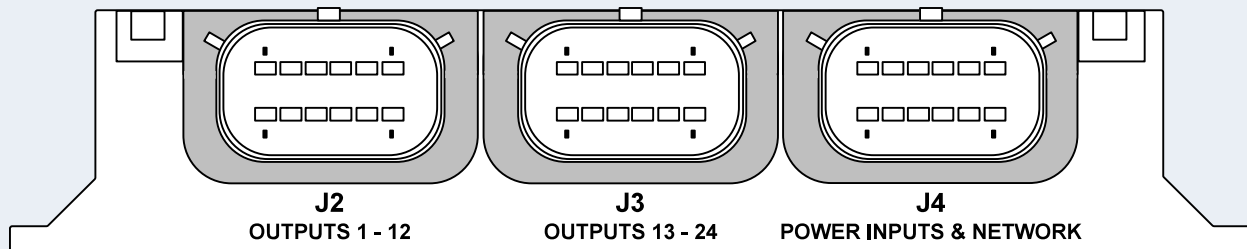
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

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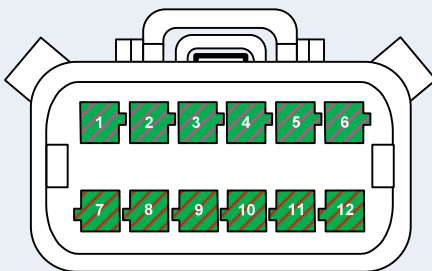
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EXPMOD24 EXPANSION MODULE



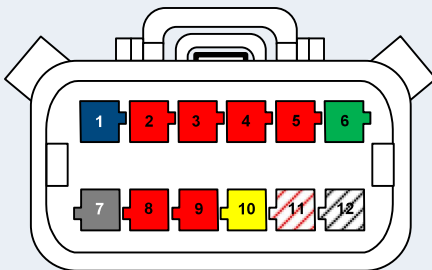
J2 – OUTPUTS 1 thru 12 FROM EXPMOD24

- 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”

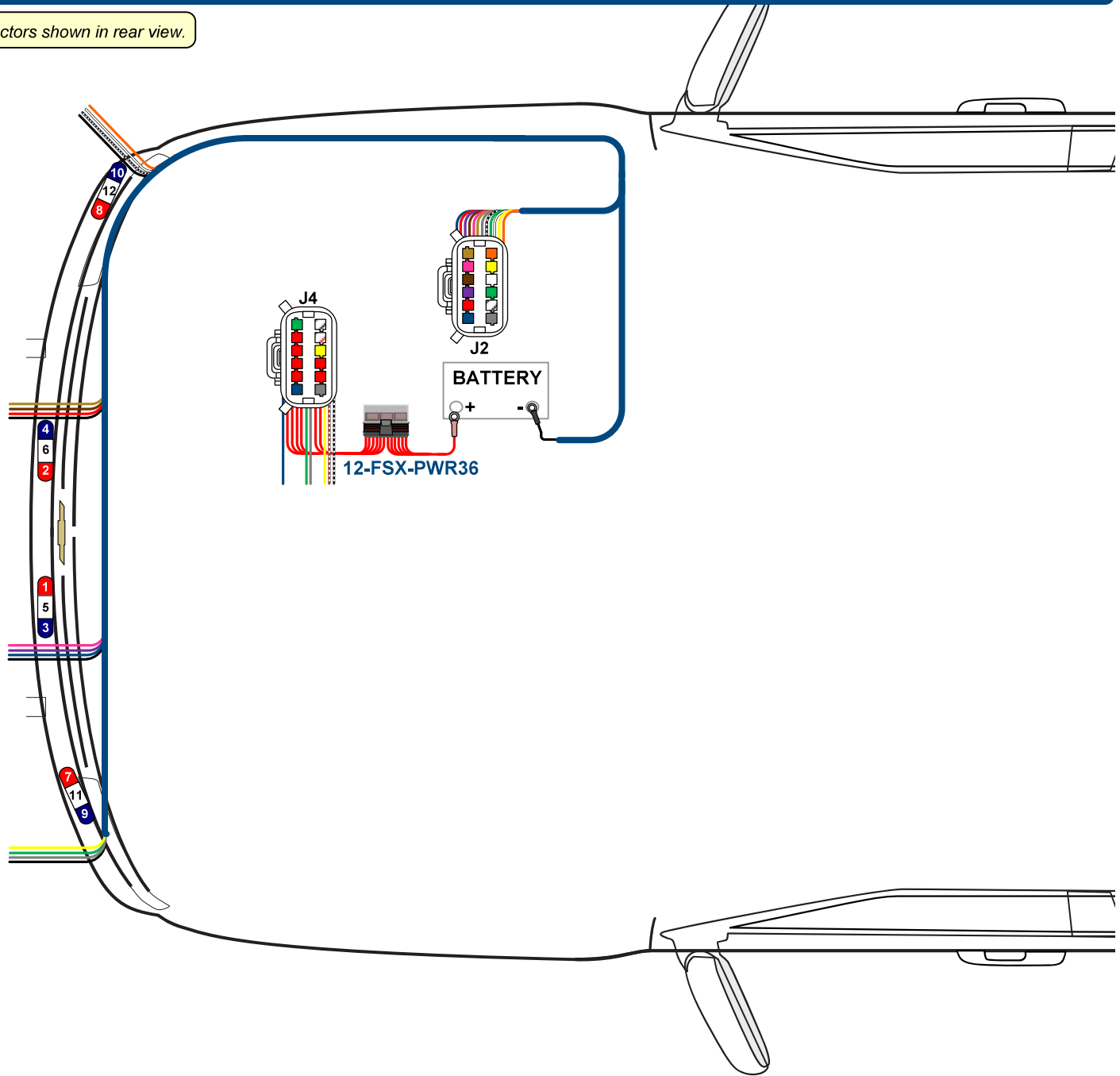


J4 – POWER INPUT & NETWORK COMMUNICATION TO EXPMOD24

- 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.



FRONT LIGHTING:

GRILLE LIGHTS

- 18 Ga. BL Driver Front Light 1 "XO 1 L1" to EXP24 J2 Pin 1
- 18 Ga. PU Driver Front Light 3 "XO 3 L3" to EXP24 J2 Pin 3
- 18 Ga. PK Driver Front Light 5 "XO 5 L5" to EXP24 J2 Pin 5
- 18 Ga. BK Driver Front Lights Ground "OUT 1 GND" to Ground Asm.
- 18 Ga. RD Pass. Front Light 2 "XO 2 L2" to EXP24 J2 Pin 2
- 18 Ga. BR Pass. Front Light 4 "XO 4 L4" to EXP24 J2 Pin 4
- 18 Ga. TN Pass. Front Light 6 "XO 6 L6" to EXP24 J2 Pin 6
- 18 Ga. BK Pass. Front Lights Ground "OUT 2 GND" to Ground Asm.

CORNER LIGHTS

- 18 Ga. GY Driver PB Corner Light 19 "XO 7 L7" to EXP24 J2 Pin 7
- 18 Ga. GN Driver PB Corner Light 21 "XO 9 L9" to EXP24 J2 Pin 9
- 18 Ga. YW Driver PB Corner Light 23 "XO 11 L11" to EXP24 J2 Pin 11
- 18 Ga. BK Driver PB Corner Lights Ground "OUT 7 GND" to Ground Asm.
- 18 Ga. WH/BK Pass. PB Corner Light 20 "XO 8 L8" to EXP24 J2 Pin 8
- 18 Ga. WH Pass. PB Corner Light 22 "XO 10 L10" to EXP24 J2 Pin 10
- 18 Ga. YW Pass. PB Corner Light 24 "XO 12 L12" to EXP24 J2 Pin 12
- 18 Ga. BK Pass. PB Corner Lights Ground "OUT 8 GND" to Ground Asm.

PRODUCTS SHOWN ON LAYOUT:

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

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

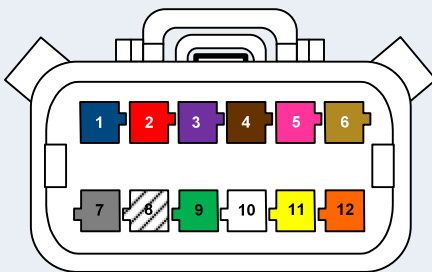
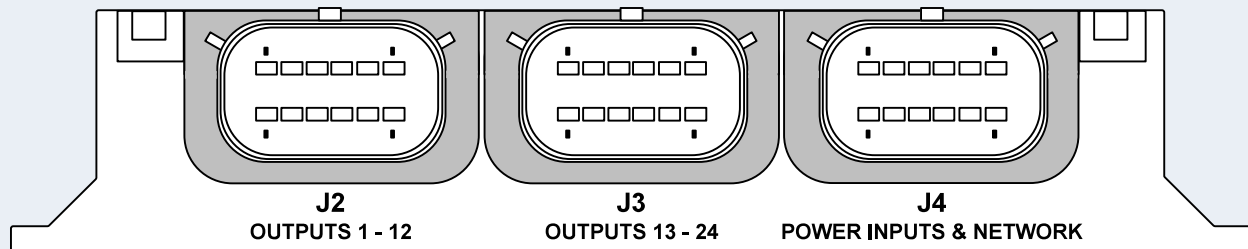
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

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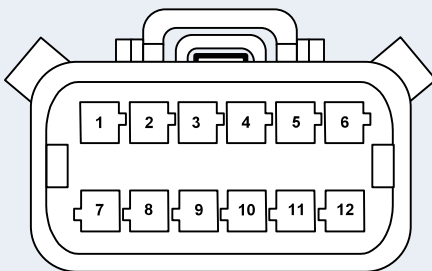
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EXPMOD24 EXPANSION MODULE



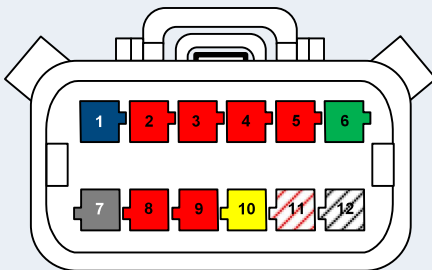
J2 – OUTPUTS 1 thru 12 FROM EXPMOD24

- Pin 1 Output 1 (2.5A) – 18 Ga. BL Driver Grille Light 1 “XO 1 L1”
- Pin 2 Output 2 (2.5A) – 18 Ga. RD Pass. Grille Light 2 “XO 2 L2”
- Pin 3 Output 3 (2.5A) – 18 Ga. PU Driver Grille Light 3 “XO 3 L3”
- Pin 4 Output 4 (2.5A) – 18 Ga. BR Pass. Grille Light 4 “XO 4 L4”
- Pin 5 Output 5 (2.5A) – 18 Ga. PK Driver Grille Light 5 “XO 5 L5”
- Pin 6 Output 6 (2.5A) – 18 Ga. TN Pass. Grille Light 6 “XO 6 L6”
- Pin 7 Output 7 (2.5A) – 18 Ga. GY Driver Corner Light 7 “XO 7 L7”
- Pin 8 Output 8 (2.5A) – 18 Ga. WH/BK Pass. Corner Light 8 “XO 8 L8”
- Pin 9 Output 9 (2.5A) – 18 Ga. GN Driver Corner Light 9 “XO 9 L9”
- Pin 10 Output 10 (2.5A) – 18 Ga. WH Pass. Corner Light 10 “XO 10 L10”
- Pin 11 Output 11 (2.5A) – 18 Ga. YW Driver Corner Light 11 “XO 11 L11”
- Pin 12 Output 12 (2.5A) – 18 Ga. OR Pass. Corner Light 12 “XO 12 L12”



J3 – OUTPUTS 13 thru 24 FROM EXPMOD24

- Pin 1 Output 13 (2.5A) –
- Pin 2 Output 14 (2.5A) –
- Pin 3 Output 15 (2.5A) –
- Pin 4 Output 16 (2.5A) –
- Pin 5 Output 17 (2.5A) –
- Pin 6 Output 18 / Input 1 (2.5A) –
- Pin 7 Output 19 (2.5A) –
- Pin 8 Output 20 (2.5A) –
- Pin 9 Output 21 (2.5A) –
- Pin 10 Output 22 (2.5A) –
- Pin 11 Output 23 (2.5A) –
- Pin 12 Output 24 / Input 2 (2.5A) –

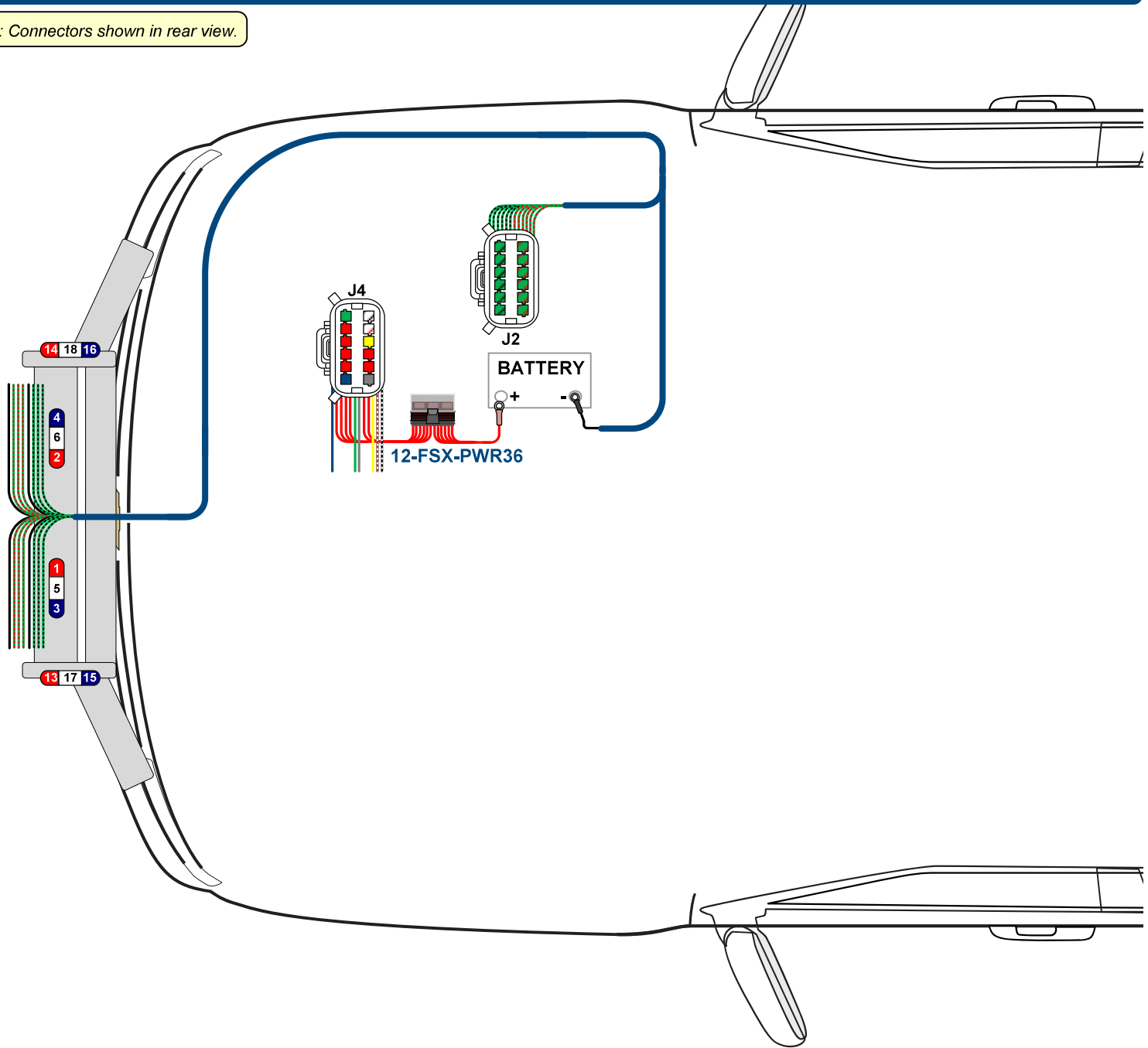


J4 – POWER INPUT & NETWORK COMMUNICATION TO EXPMOD24

- 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.



FRONT LIGHTING:

PUSH BUMPER UPPER FRONT LIGHTS

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

PUSH BUMPER SIDE LIGHTS

- 18 Ga. GN/RD Driver PB Side Light 13 "XO 7 L13" to EXP24 J2 Pin 7
- 18 Ga. GN/RD Driver PB Side Light 15 "XO 9 L15" to EXP24 J2 Pin 9
- 18 Ga. GN/RD Driver PB Side Light 17 "XO 11 L17" to EXP24 J2 Pin 11
- 18 Ga. BK Driver PB Side Lights Ground "OUT 7 GND" to Ground Asm.
- 18 Ga. GN/RD Pass. PB Side Light 14 "XO 8 L14" to EXP24 J2 Pin 8
- 18 Ga. GN/RD Pass. PB Side Light 16 "XO 10 L16" to EXP24 J2 Pin 10
- 18 Ga. GN/RD Pass. PB Side Light 18 "XO 12 L18" to EXP24 J2 Pin 12
- 18 Ga. BK Pass. PB Side Lights Ground "OUT 8 GND" to Ground Asm.

PRODUCTS SHOWN ON LAYOUT:

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

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

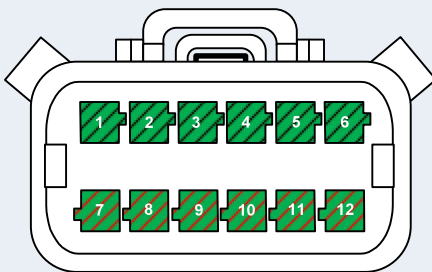
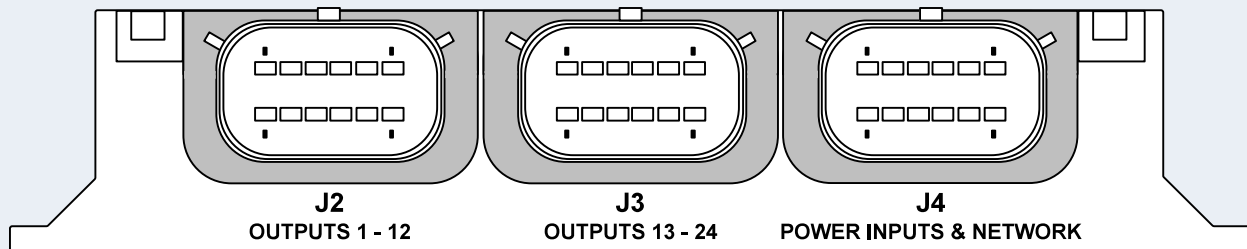
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

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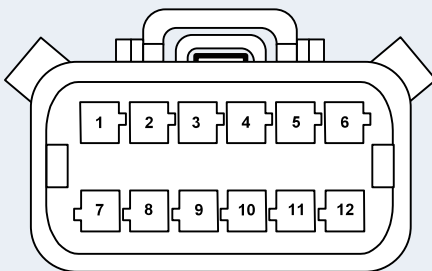
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EXPMOD24 EXPANSION MODULE



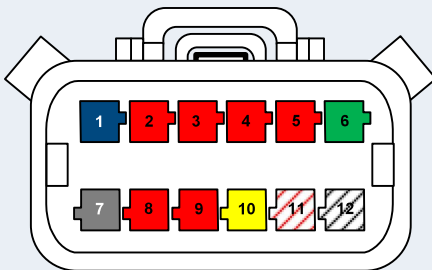
J2 – OUTPUTS 1 thru 12 FROM EXPMOD24

- Pin 1 Output 1 (2.5A) – 18 Ga. GN/BK Driver PB Upper Front Light 1 “XO 1 L1”
- Pin 2 Output 2 (2.5A) – 18 Ga. GN/BK Pass. PB Upper Front Light 2 “XO 2 L2”
- Pin 3 Output 3 (2.5A) – 18 Ga. GN/BK Driver PB Upper Front Light 3 “XO 3 L3”
- Pin 4 Output 4 (2.5A) – 18 Ga. GN/BK Pass. PB Upper Front Light 4 “XO 4 L4”
- Pin 5 Output 5 (2.5A) – 18 Ga. GN/BK Driver PB Upper Front Light 5 “XO 5 L5”
- Pin 6 Output 6 (2.5A) – 18 Ga. GN/BK Pass. PB Upper Front Light 6 “XO 6 L6”
- Pin 7 Output 7 (2.5A) – 18 Ga. GN/RD Driver PB Side Light 13 “XO 7 L13”
- Pin 8 Output 8 (2.5A) – 18 Ga. GN/RD Pass. PB Side Light 14 “XO 8 L14”
- Pin 9 Output 9 (2.5A) – 18 Ga. GN/RD Driver PB Side Light 15 “XO 9 L15”
- Pin 10 Output 10 (2.5A) – 18 Ga. GN/RD Pass. PB Side Light 16 “XO 10 L16”
- Pin 11 Output 11 (2.5A) – 18 Ga. GN/RD Driver PB Side Light 17 “XO 11 L17”
- Pin 12 Output 12 (2.5A) – 18 Ga. GN/RD Pass. PB Side Light 18 “XO 12 L18”



J3 – OUTPUTS 13 thru 24 FROM EXPMOD24

- Pin 1 Output 13 (2.5A) –
- Pin 2 Output 14 (2.5A) –
- Pin 3 Output 15 (2.5A) –
- Pin 4 Output 16 (2.5A) –
- Pin 5 Output 17 (2.5A) –
- Pin 6 Output 18 / Input 1 (2.5A) –
- Pin 7 Output 19 (2.5A) –
- Pin 8 Output 20 (2.5A) –
- Pin 9 Output 21 (2.5A) –
- Pin 10 Output 22 (2.5A) –
- Pin 11 Output 23 (2.5A) –
- Pin 12 Output 24 / Input 2 (2.5A) –

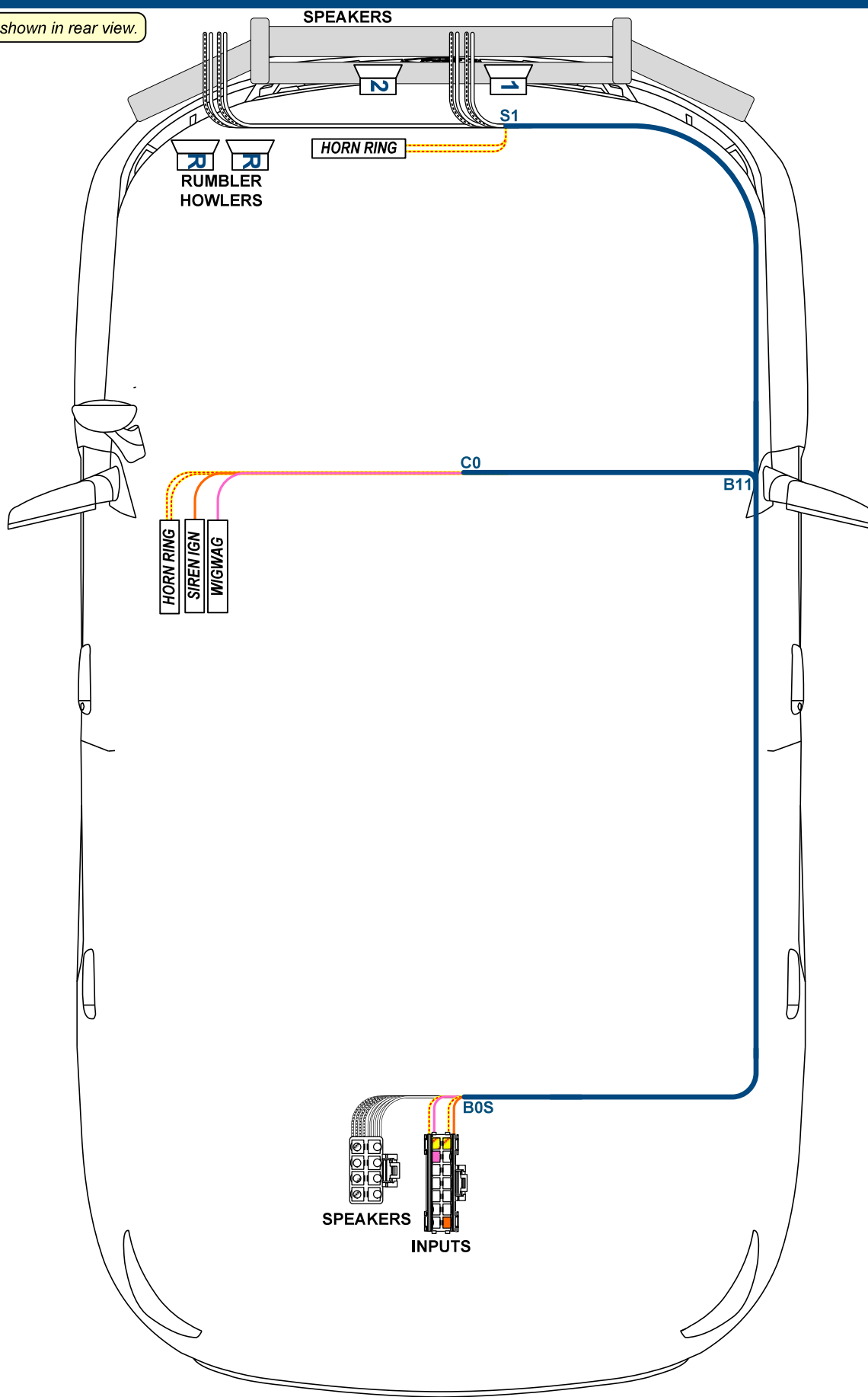


J4 – POWER INPUT & NETWORK COMMUNICATION TO EXPMOD24

- 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:

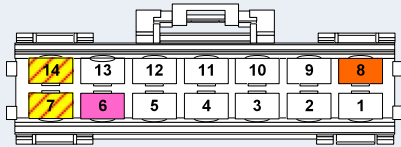
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

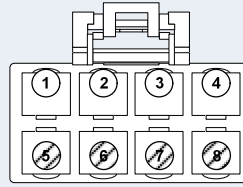
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INPUTS –

- 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

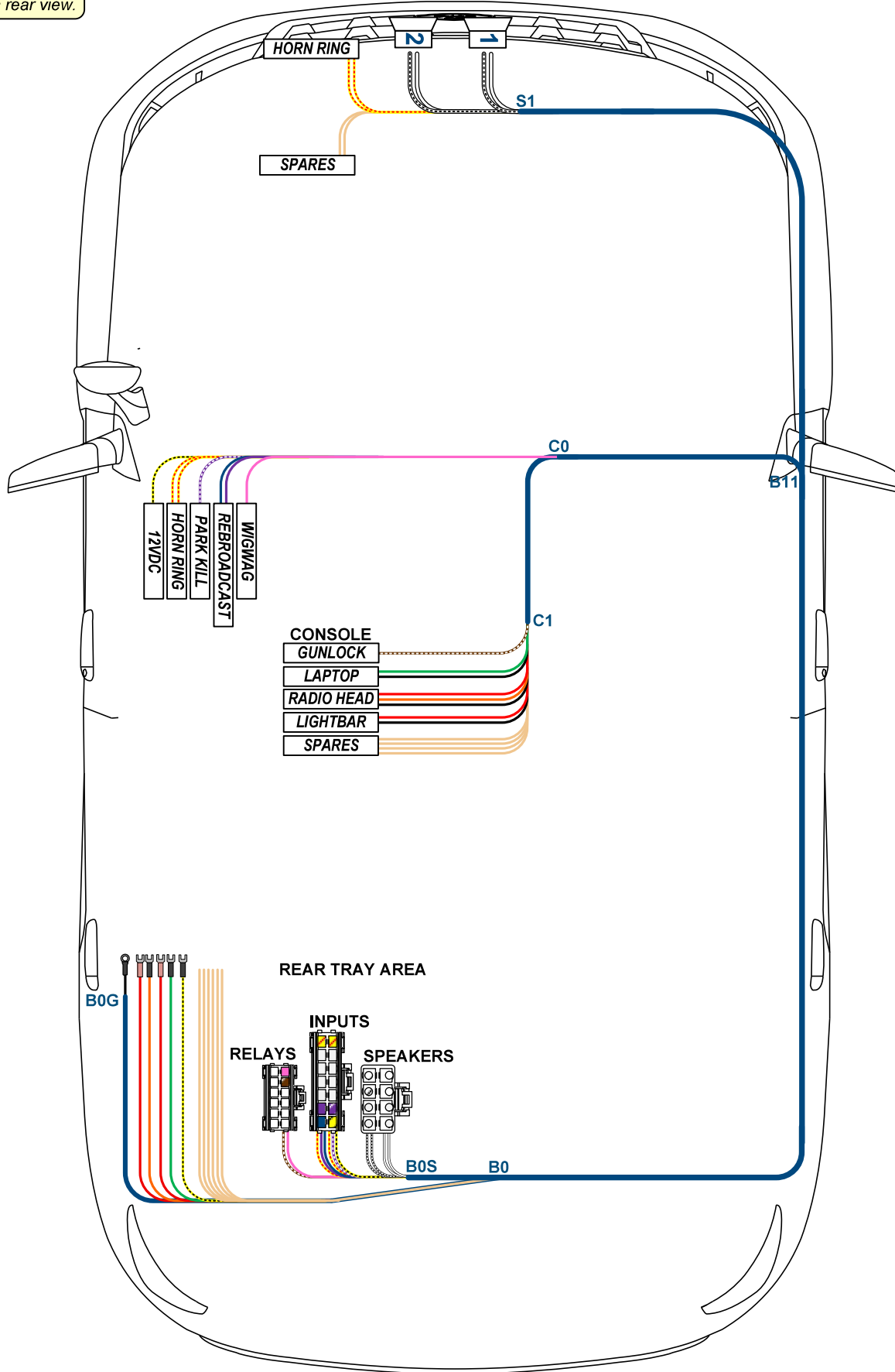
- 16 Ga. PK WigWag Flash Trigger “WIGWAG” from PF400 Input Pin 6

REAR COMPONENTS:

PATHFINDER MODULE

- See Pathfinder PF400 Module Layout for detailed information.

Note: Connectors shown in rear view.



PRODUCTS SHOWN ON LAYOUT:

Pathfinder PF400 Main Harness: FSX-MH-002

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

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FRONT COMPONENTS:

SPEAKERS

- 16 Ga. WH Speaker 1 Common "SPKR 1 COM" from SPEAKER Pin 1
- 16 Ga. WH Speaker 2 Common "SPKR 2 COM" from SPEAKER Pin 2
- 16 Ga. WH/BK Speaker 1 Positive "SPKR 1 POS" from SPEAKER Pin 5
- 16 Ga. WH/BK Speaker 2 Positive "SPKR 2 POS" from SPEAKER Pin 6

HORN RING

- 16 Ga. YW/RD Horn "HORN 2" from PF400 Input Pin 7 Assembly
- 16 Ga. YW/RD Horn Ring "HORN RG 2" from PF400 Input Pin 13 Assembly

FRONT SPARES

- 14 Ga. TN Front Spare 1 "SPARE 1" from Rear Tray
- 14 Ga. TN Front Spare 2 "SPARE 2" from Rear Tray

MID COMPONENTS:

12VDC IGNITION

- 18 Ga. YW/BK 12VDC Ignition Sense "12VDC" to PF400 Input Pin 8

HORN RING

- 16 Ga. YW/RD Horn "HORN 1" from PF400 Input Pin 7 Assembly
- 16 Ga. YW/RD Horn Ring "HORN RG 1" from PF400 Input Pin 13 Assembly

PARK KILL

- 18 Ga. PU/WH Park Kill Input Sense "PARK KILL" to PF400 Input Pin 9

RADIO REBROADCAST

- 18 Ga. BL Radio Rebroadcast Positive + "REBROAD" from PF400 Input Pin 1
- 18 Ga. PU Radio Rebroadcast Common - "REBROAD" from PF400 Input Pin 2

WIGWAG

- 16 Ga. PK WigWag Flash Trigger "WIGWAG" from PF400 Relay Pin 1

GUNLOCK

- 16 Ga. BR/WH Gunlock Output Trigger "GUNLOCK" from PF400 Relay Pin 2

LAPTOP

- 14 Ga. GN Laptop Power "LAPTOP PWR" from Rear Tray
- 14 Ga. BK Laptop Ground "LAPTOP GND" from Ground Ring

LIGHTBAR

- 10 Ga. RD Lightbar Power "LB PWR" from Rear Tray
- 10 Ga. BK Lightbar Ground "LB GND" from Ground Ring

RADIO HEAD

- 14 Ga. RD Radio Head Power "RDO HD PWR" from Rear Tray
- 14 Ga. OR Radio Head Ignition "RDO HD IGN" from Rear Tray
- 14 Ga. BK Radio Head Ground "RDO HD GND" from Ground Ring

CONSOLE SPARES

- 14 Ga. TN Console Spare 3 "SPARE 3" from Rear Tray
- 14 Ga. TN Console Spare 4 "SPARE 4" from Rear Tray
- 14 Ga. TN Console Spare 5 "SPARE 5" from Rear Tray
- 14 Ga. TN Console Spare 6 "SPARE 6" from Rear Tray

REAR COMPONENTS:

GROUND RING

- 10 Ga. BK Lightbar Ground "LB GND" to Console
- 14 Ga. BK Laptop Ground "LAPTOP GND" to Console
- 14 Ga. BK Radio Head Ground "RDO HD GND" to Console

RADIO HEAD

- 14 Ga. RD Radio Head Power "RDO HD PWR" to Console
- 14 Ga. OR Radio Head Ignition "RDO HD IGN" to Console

LIGHTBAR

- 10 Ga. RD Lightbar Power "LB PWR" to Console

LAPTOP

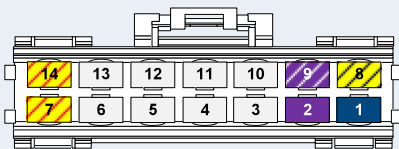
- 14 Ga. GN Laptop Power "LAPTOP PWR" to Console

12VDC

- 18 Ga. YW/BK 12VDC Ignition Sense "12V IGN" from Interface Area

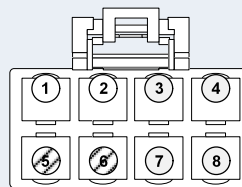
SPARES

- 14 Ga. TN Front Spare 1 "SPARE 1" to Underhood
- 14 Ga. TN Front Spare 2 "SPARE 2" to Underhood
- 14 Ga. TN Console Spare 3 "SPARE 3" to Console
- 14 Ga. TN Console Spare 4 "SPARE 4" to Console
- 14 Ga. TN Console Spare 5 "SPARE 5" to Console
- 14 Ga. TN Console Spare 6 "SPARE 6" to Console



INPUTS –

- Pin 1 Radio In (+) – 18 Ga. BL "REBROAD"
- Pin 2 Radio In (-) – 18 Ga. PU "REBROAD"
- 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) –
- Pin 7 Horn Relay Output (5A) – 16 Ga/ YW/RD "HORN"
- Pin 8 Ignition Input – 18 Ga. YW/BK "SIREN IGN"
- Pin 9 Park Input – 18 Ga. PU/WH "PARK KILL"
- 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"

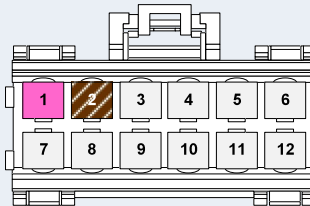


SPEAKER OUTOUTS –

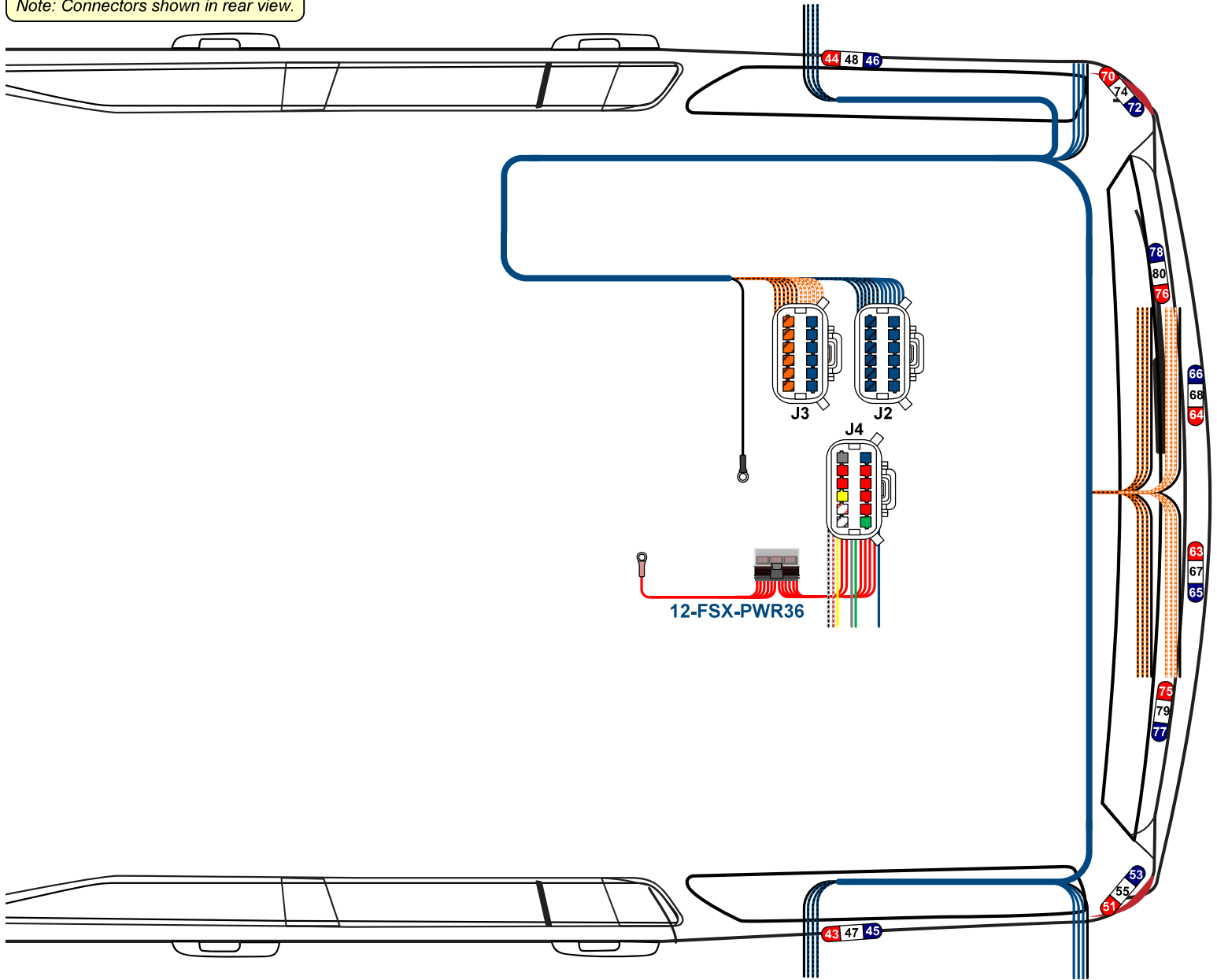
- Pin 1 Speaker 1 Common (-) – 16 Ga. WH "SPKR 1 COM"
- Pin 2 Speaker 2 Common (-) – 16 Ga. WH "SPKR 2 COM"
- Pin 3 Speaker 3 Common (-) –
- Pin 4 Speaker 4 Common (-) –
- Pin 5 Speaker 1 Positive (+) – 16 Ga. WH/BK "SPKR 1 POS"
- Pin 6 Speaker 2 Positive (+) – 16 Ga. WH/BK "SPKR 2 POS"
- Pin 7 Speaker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

RELAY OUTPUTS –

- Pin 1 Relay 1 Output (10A) – 16 Ga. PK "WIGWAG"
- Pin 2 Relay 2 Output (10A) – 16 Ga. BR/WH "GUNLOCK"
- Pin 3 Relay 3 Output (10A) –
- Pin 4 Relay 4 Output (10A) –
- Pin 5 Relay 5 Output (10A) –
- Pin 6 Relay 6 Output (10A) –
- Pin 7 Relay 7 Output (5A) –
- Pin 8 Relay 8 Output (5A) –
- Pin 9 Relay 9 Output (5A) –
- Pin 10 Relay 10 Output (5A) –
- Pin 11 Relay 11 Output (5A) –
- Pin 12 Relay 12 Output (5A) –



Note: Connectors shown in rear view.



REAR LIGHTING:

REAR WARNING LIGHTS

- 18 Ga. BL Driver Rear Warn. Light 69 "XO 1 L69" to EXP24 J2 Pin 1
- 18 Ga. BL Driver Rear Warn. Light 71 "XO 2 L71" to EXP24 J2 Pin 2
- 18 Ga. BL Driver Rear Warn. Light 73 "XO 3 L73" to EXP24 J2 Pin 3
- 18 Ga. BK Driver Rear Warn. Lights Ground "OUT 1 GND" to Ground Asm.
- 18 Ga. BL Pass. Rear Warn. Light 70 "XO 4 L70" to EXP24 J2 Pin 4
- 18 Ga. BL Pass. Rear Warn. Light 72 "XO 5 L72" to EXP24 J2 Pin 5
- 18 Ga. BL Pass. Rear Warn. Light 74 "XO 6 L74" to EXP24 J2 Pin 6
- 18 Ga. BK Pass. Rear Warn. Lights Ground "OUT 4 GND" to Ground Asm.

¼ GLASS LIGHTS

- 18 Ga. BL/BK Driver ¼ Glass Light 43 "XO 7 L43" to EXP24 J2 Pin 7
- 18 Ga. BL/BK Driver ¼ Glass Light 45 "XO 8 L45" to EXP24 J2 Pin 8
- 18 Ga. BL/BK Driver ¼ Glass Light 47 "XO 9 L47" to EXP24 J2 Pin 9
- 18 Ga. BK Driver ¼ Glass Lights Ground "OUT 7 GND" to Ground Asm.
- 18 Ga. BL/BK Pass. ¼ Glass Light 44 "XO 10 L44" to EXP24 J2 Pin 10
- 18 Ga. BL/BK Pass. ¼ Glass Light 46 "XO 11 L46" to EXP24 J2 Pin 11
- 18 Ga. BL/BK Pass. ¼ Glass Light 48 "XO 12 L48" to EXP24 J2 Pin 12
- 18 Ga. BK Pass. ¼ Glass Lights Ground "OUT 10 GND" to Ground Asm.

LICENSE PLATE LIGHTS

- 18 Ga. OR/WH Driver Lic. Plate Light 63 "XO 13 L63" to EXP24 J3 Pin 1
- 18 Ga. OR/WH Driver Lic. Plate Light 65 "XO 14 L65" to EXP24 J3 Pin 2
- 18 Ga. OR/WH Driver Lic. Plate Light 67 "XO 15 L67" to EXP24 J3 Pin 3
- 18 Ga. BK Driver Lic. Plate Lights Ground "OUT 13 GND" to Ground Asm.
- 18 Ga. OR/WH Pass. Lic. Plate Light 64 "XO 16 L63" to EXP24 J3 Pin 4
- 18 Ga. OR/WH Pass. Lic. Plate Light 66 "XO 17 L63" to EXP24 J3 Pin 5
- 18 Ga. OR/WH Pass. Lic. Plate Light 68 "XO 18 L63" to EXP24 J3 Pin 6
- 18 Ga. BK Pass. Hatch Lights Ground "OUT 16 GND" to Ground Asm.

HATCH LIGHTS

- 18 Ga. OR/BK Driver Hatch Light 75 "XO 19 L75" to EXP24 J3 Pin 7
- 18 Ga. OR/BK Driver Hatch Light 77 "XO 21 L77" to EXP24 J3 Pin 8
- 18 Ga. OR/BK Driver Hatch Light 79 "XO 23 L79" to EXP24 J3 Pin 9
- 18 Ga. BK Driver Hatch Lights Ground "OUT 19 GND" to Ground Asm.
- 18 Ga. OR/BK Pass. Hatch Light 76 "XO 20 L76" to EXP24 J3 Pin 10
- 18 Ga. OR/BK Pass. Hatch Light 78 "XO 22 L78" to EXP24 J3 Pin 11
- 18 Ga. OR/BK Pass. Hatch Light 80 "XO 24 L80" to EXP24 J3 Pin 12
- 18 Ga. BK Pass. Hatch Lights Ground "OUT 20 GND" to Ground Asm.

PRODUCTS SHOWN ON LAYOUT:

Rear Lighting Harness: FS-RLH
Underhood Power: 12-FSX-PWR36

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

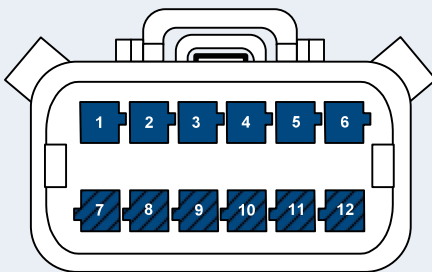
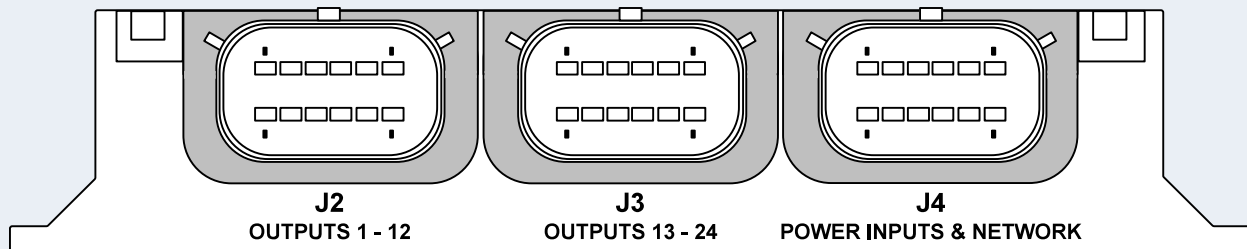
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

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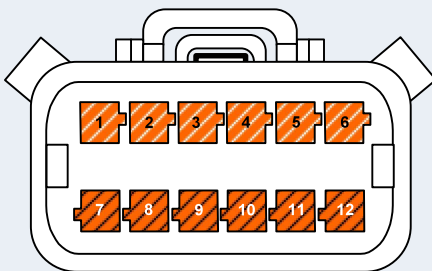
EXPMOD24 EXPANSION MODULE



J2 – OUTPUTS 1 thru 12 FROM EXPMOD24

- Pin 1 Output 1 (2.5A) – 18 Ga. BL Driver Rear Warn. Light 69 “XO 1 L69”
- Pin 2 Output 2 (2.5A) – 18 Ga. BL Driver Rear Warn. Light 71 “XO 2 L71”
- Pin 3 Output 3 (2.5A) – 18 Ga. BL Driver Rear Warn Light 73 “XO 3 L73”
- Pin 4 Output 4 (2.5A) – 18 Ga. BL Pass. Rear Warn Light 70 “XO 4 L70”
- Pin 5 Output 5 (2.5A) – 18 Ga. BL Pass. Rear Warn Light 72 “XO 5 L72”
- Pin 6 Output 6 (2.5A) – 18 Ga. BL Pass. Rear Warn Light 74 “XO 6 L74”
- Pin 7 Output 7 (2.5A) – 18 Ga. BL/BK Driver ¼ Glass Light 43 “XO 7 L43”
- Pin 8 Output 8 (2.5A) – 18 Ga. BL/BK Driver ¼ Glass Light 45 “XO 8 L45”
- Pin 9 Output 9 (2.5A) – 18 Ga. BL/BK Driver ¼ Glass Light 47 “XO 9 L47”
- Pin 10 Output 10 (2.5A) – 18 Ga. BL/BK Pass. ¼ Glass Light 44 “XO 10 L44”
- Pin 11 Output 11 (2.5A) – 18 Ga. BL/BK Pass. ¼ Glass Light 46 “XO 11 L46”
- Pin 12 Output 12 (2.5A) – 18 Ga. BL/BK Pass. ¼ Glass Light 48 “XO 12 L48”

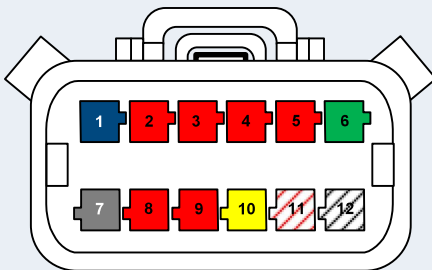
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J3 – OUTPUTS 13 thru 24 FROM EXPMOD24

- Pin 1 Output 13 (2.5A) – 18 Ga. OR/WH Driver Lic. Plate Light 63 “XO 13 L63”
- Pin 2 Output 14 (2.5A) – 18 Ga. OR/WH Driver Lic. Plate Light 65 “XO 14 L65”
- Pin 3 Output 15 (2.5A) – 18 Ga. OR/WH Driver Lic. Plate Light 67 “XO 15 L67”
- Pin 4 Output 16 (2.5A) – 18 Ga. OR/WH Pass. Lic. Plate Light 64 “XO 16 L64”
- Pin 5 Output 17 (2.5A) – 18 Ga. OR/WH Pass. Lic. Plate Light 66 “XO 17 L66”
- Pin 6 Output 18 / Input 1 (2.5A) – 18 Ga. OR/WH Pass. Lic. Plate Light 68 “XO 18 L68”
- Pin 7 Output 19 (2.5A) – 18 Ga. OR/BK Driver Hatch Light 75 “XO 19 L75”
- Pin 8 Output 20 (2.5A) – 18 Ga. OR/BK Driver Hatch Light 77 “XO 20 L77”
- Pin 9 Output 21 (2.5A) – 18 Ga. OR/BK Driver Hatch Light 79 “XO 21 L79”
- Pin 10 Output 22 (2.5A) – 18 Ga. OR/BK Pass. Hatch Light 76 “XO 22 L76”
- Pin 11 Output 23 (2.5A) – 18 Ga. OR/BK Pass. Hatch Light 78 “XO 23 L78”
- Pin 12 Output 24 / Input 2 (2.5A) – 18 Ga. OR/BK Pass. Hatch Light 80 “XO 24 L80”

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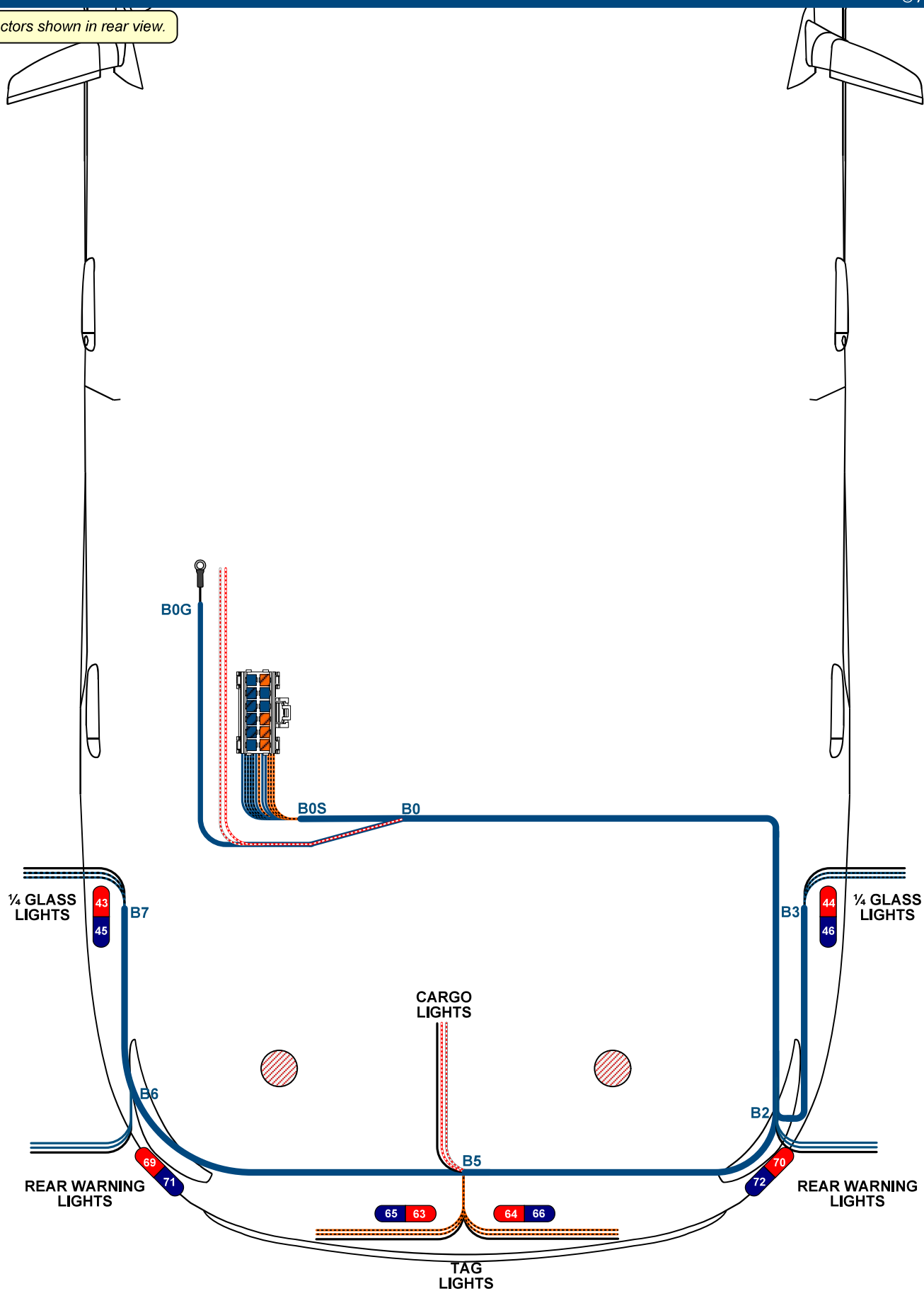


J4 – POWER INPUT & NETWORK COMMUNICATION TO EXPMOD24

- 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)*

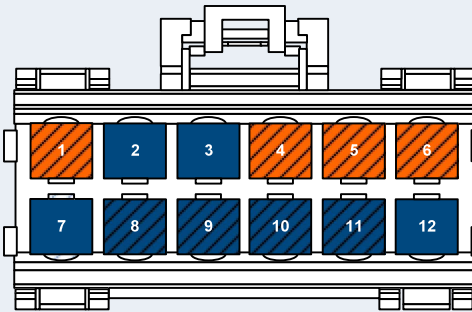
Note: Connectors shown in rear view.



PRODUCTS SHOWN ON LAYOUT:**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

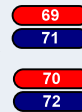
- 10 Ga. BK Rear Ground “REAR GND” to Ground Assembly

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**

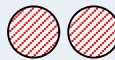
- 18 Ga. BL Driver Rear Warning Light 69 “LT 69” from PF400 Relay Out Pin 7
- 18 Ga. BL Driver Rear Warning Light 71 “LT 71” from PF400 Relay Out Pin 3
- 18 Ga. BK Driver Rear Warning Lights Ground “LT 69 GND” from Ground Assembly
- 18 Ga. BL Pass. Rear Warning Light 70 “LT 70” from PF400 Relay Out Pin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



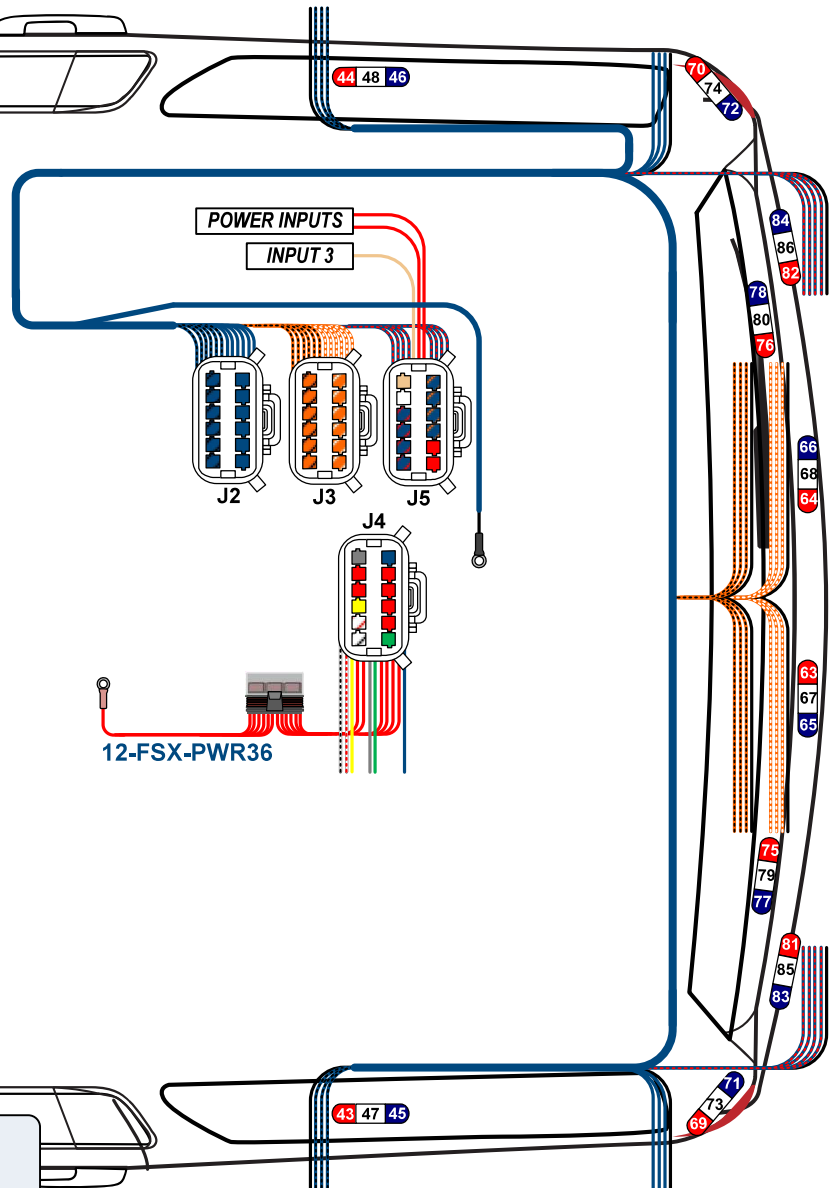
Note: Connectors shown in rear view.

POWER INPUTS

- 16 Ga. RD Power 21-27 & 32 "PWR 21-27" - 24" Pigtail
- 16 Ga. RD Power 28-31 "PWR 28-31" - 24" Pigtail

INPUT 3

- 18 Ga. TN Input 3 Signal "INPUT 3" - 24" Pigtail



REAR LIGHTING:

REAR WARNING LIGHTS

- 18 Ga. BL Driver Rear Warn. Light 69 "LT 69" to EXP32 J2 Pin 1
- 18 Ga. BL Driver Rear Warn. Light 71 "LT 71" to EXP32 J2 Pin 2
- 18 Ga. BL Driver Rear Warn. Light 73 "LT 73" to EXP32 J2 Pin 3
- 18 Ga. BK Driver Rear Warn. Lights Ground "LT 69 GND" to Ground Asm.
- 18 Ga. BL Pass. Rear Warn. Light 70 "LT 70" to EXP32 J2 Pin 4
- 18 Ga. BL Pass. Rear Warn. Light 72 "LT 72" to EXP32 J2 Pin 5
- 18 Ga. BL Pass. Rear Warn. Light 74 "LT 74" to EXP32 J2 Pin 6
- 18 Ga. BK Pass. Rear Warn. Lights Ground "LT 70 GND" to Ground Asm.

¼ GLASS LIGHTS

- 18 Ga. BL/BK Driver ¼ Glass Light 43 "LT 43" to EXP32 J2 Pin 7
- 18 Ga. BL/BK Driver ¼ Glass Light 45 "LT 45" to EXP32 J2 Pin 8
- 18 Ga. BL/BK Driver ¼ Glass Light 47 "LT 47" to EXP32 J2 Pin 9
- 18 Ga. BK Driver ¼ Glass Lights Ground "LT 43 GND" to Ground Asm.
- 18 Ga. BL/BK Pass. ¼ Glass Light 44 "LT 44" to EXP32 J2 Pin 10
- 18 Ga. BL/BK Pass. ¼ Glass Light 46 "LT 46" to EXP32 J2 Pin 11
- 18 Ga. BL/BK Pass. ¼ Glass Light 48 "LT 48" to EXP32 J2 Pin 12
- 18 Ga. BK Pass. ¼ Glass Lights Ground "LT 44 GND" to Ground Asm.

TAG LIGHTS

- 18 Ga. OR/BK Driver Tag Light 63 "LT 63" to EXP32 J3 Pin 1
- 18 Ga. OR/BK Driver Tag Light 65 "LT 65" to EXP32 J3 Pin 2
- 18 Ga. OR/BK Driver Tag Light 67 "LT 67" to EXP32 J3 Pin 3
- 18 Ga. BK Driver Tag Lights Ground "LT 63 GND" to Ground Asm.
- 18 Ga. OR/BK Pass. Tag Light 64 "LT 64" to EXP32 J3 Pin 4
- 18 Ga. OR/BK Pass. Tag Light 66 "LT 66" to EXP32 J3 Pin 5
- 18 Ga. OR/BK Pass. Tag Light 68 "LT 68" to EXP32 J3 Pin 6
- 18 Ga. BK Pass. Tag Lights Ground "LT 64 GND" to Ground Asm.

HATCH LIGHTS

- 18 Ga. OR/WH Driver Hatch Light 75 "LT 75" to EXP32 J3 Pin 7
- 18 Ga. OR/WH Driver Hatch Light 77 "LT 77" to EXP32 J3 Pin 8
- 18 Ga. OR/WH Driver Hatch Light 79 "LT 79" to EXP32 J3 Pin 9
- 18 Ga. BK Driver Hatch Lights Ground "LT 75 GND" to Ground Asm.
- 18 Ga. OR/WH Pass. Hatch Light 76 "LT 76" to EXP32 J3 Pin 10
- 18 Ga. OR/WH Pass. Hatch Light 78 "LT 78" to EXP32 J3 Pin 11
- 18 Ga. OR/WH Pass. Hatch Light 80 "LT 80" to EXP32 J3 Pin 12
- 18 Ga. BK Pass. Hatch Lights Ground "LT 76 GND" to Ground Asm.

BUMPER LIGHTS

- 18 Ga. BL/RD Driver Bumper Light 81 "LT 81" to EXP32 J5 Pin 1
- 18 Ga. BL/RD Driver Bumper Light 83 "LT 83" to EXP32 J5 Pin 2
- 18 Ga. BL/RD Driver Bumper Light 85 "LT 85" to EXP32 J5 Pin 3
- 18 Ga. BL/RD Driver Spare Light Trigger "DR SPARE" to EXP32 J5 Pin 4
- 18 Ga. BK Driver Bumper Lights Ground "LT 81 GND" to Ground Asm.
- 18 Ga. BL/RD Pass. Bumper Light 82 "LT 82" to EXP32 J2 Pin 9
- 18 Ga. BL/RD Pass. Bumper Light 84 "LT 84" to EXP32 J2 Pin 10
- 18 Ga. BL/RD Pass. Bumper Light 86 "LT 86" to EXP32 J2 Pin 11
- 18 Ga. BL/RD Pass. Spare Light Trigger "PS SPARE" to EXP32 J2 Pin 12
- 18 Ga. BK Pass. Bumper Lights Ground "LT 82 GND" to Ground Asm.

PRODUCTS SHOWN ON LAYOUT:

Rear Lighting Harness: FSX-RLH-32
EXPMOD** Power Cable: 12-FSX-PWR36

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

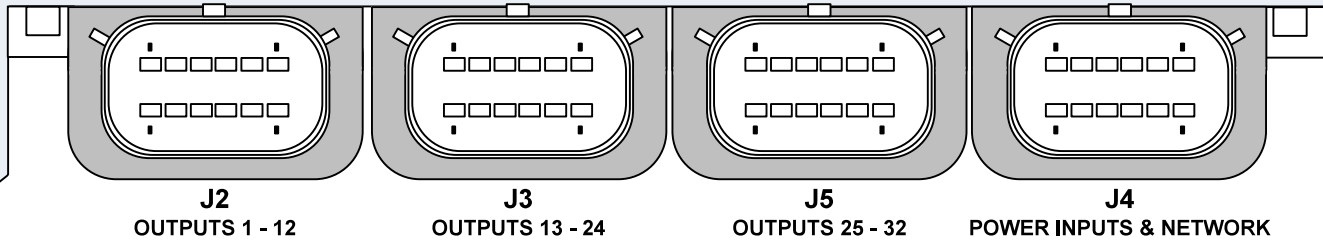
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

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ECN 000000

EXPMOD32 EXPANSION MODULE



J2 – OUTPUTS 1 thru 12 FROM EXPMOD32

- Pin 1 Output 1 (2.5A) – 18 Ga. BL Driver Rear Warn. Light 69 “LT 69”
- Pin 2 Output 2 (2.5A) – 18 Ga. BL Driver Rear Warn. Light 71 “LT 71”
- Pin 3 Output 3 (2.5A) – 18 Ga. BL Driver Rear Warn. Light 73 “LT 73”
- Pin 4 Output 4 (2.5A) – 18 Ga. BL Pass. Rear Warn Light 70 “LT 70”
- Pin 5 Output 5 (2.5A) – 18 Ga. BL Pass. Rear Warn Light 72 “LT 72”
- Pin 6 Output 6 (2.5A) – 18 Ga. BL Pass. Rear Warn Light 74 “LT 74”
- Pin 7 Output 7 (2.5A) – 18 Ga. BL/BK Driver ¼ Glass Light 43 “LT 43”
- Pin 8 Output 8 (2.5A) – 18 Ga. BL/BK Driver ¼ Glass Light 45 “LT 45”
- Pin 9 Output 9 (2.5A) – 18 Ga. BL/BK Driver ¼ Glass Light 47 “LT 47”
- Pin 10 Output 10 (2.5A) – 18 Ga. BL/BK Pass. ¼ Glass Light 44 “LT 44”
- Pin 11 Output 11 (2.5A) – 18 Ga. BL/BK Pass. ¼ Glass Light 46 “LT 46”
- Pin 12 Output 12 (2.5A) – 18 Ga. BL/BK Pass. ¼ Glass Light 48 “LT 48”

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J3 – OUTPUTS 13 thru 24 FROM EXPMOD32

- Pin 1 Output 13 (2.5A) – 18 Ga. OR/BK Driver Tag Light 63 “LT 63”
- Pin 2 Output 14 (2.5A) – 18 Ga. OR/BK Driver Tag Light 65 “LT 65”
- Pin 3 Output 15 (2.5A) – 18 Ga. OR/BK Driver Tag Light 67 “LT 67”
- Pin 4 Output 16 (2.5A) – 18 Ga. OR/BK Pass. Tag Light 64 “LT 64”
- Pin 5 Output 17 (2.5A) – 18 Ga. OR/BK Pass. Tag Light 66 “LT 66”
- Pin 6 Output 18 / Input 1 (2.5A) – 18 Ga. OR/BK Pass. Tag Light 68 “LT 68”
- Pin 7 Output 19 (2.5A) – 18 Ga. OR/WH Driver Hatch Light 75 “LT 75”
- Pin 8 Output 20 (2.5A) – 18 Ga. OR/WH Driver Hatch Light 77 “LT 77”
- Pin 9 Output 21 (2.5A) – 18 Ga. OR/WH Driver Hatch Light 79 “LT 79”
- Pin 10 Output 22 (2.5A) – 18 Ga. OR/WH Pass. Hatch Light 76 “LT 76”
- Pin 11 Output 23 (2.5A) – 18 Ga. OR/WH Pass. Hatch Light 78 “LT 78”
- Pin 12 Output 24 / Input 2 (2.5A) – 18 Ga. OR/WH Pass. Hatch Light 80 “LT 80”

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J5 – OUTPUTS 25 thru 32 FROM EXPMOD32

- Pin 1 Output 25 (2.5A) – 18 Ga. BL/RD Driver Bumper Light 81 “LT 81”
- Pin 2 Output 26 (2.5A) – 18 Ga. BL/RD Driver Bumper Light 83 “LT 83”
- Pin 3 Output 27 (2.5A) – 18 Ga. BL/RD Driver Bumper Light 85 “LT 85”
- Pin 4 Output 32 / Input 3 (2.5A) – 18 Ga. BL/RD Driver Spare Trigger “DR SPARE”
- Pin 5 – Output 21-27 & 32 Power Input (10A) – 16 Ga. RD Power “PWR 21-27”
- Pin 6 – Output 28-31 Power Input (10A) – 16 Ga. RD Power “PWR 28-31”
- Pin 7 Input 3 (2.5A) – 18 Ga. TN “INPUT 3”
- Pin 8 N/C – Not Used – Sealing Plug
- Pin 9 Output 28 (2.5A) – 18 Ga. BL/RD Pass. Bumper Light 82 “LT 82”
- Pin 10 Output 29 (2.5A) – 18 Ga. BL/RD Pass. Bumper Light 84 “LT 84”
- Pin 11 Output 30 (2.5A) – 18 Ga. BL/RD Pass. Bumper Light 86 “LT 86”
- Pin 12 Output 31 (2.5A) – 18 Ga. BL/RD Pass. Spare Trigger “PS SPARE”

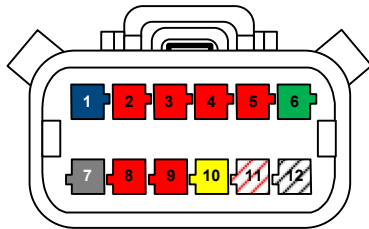
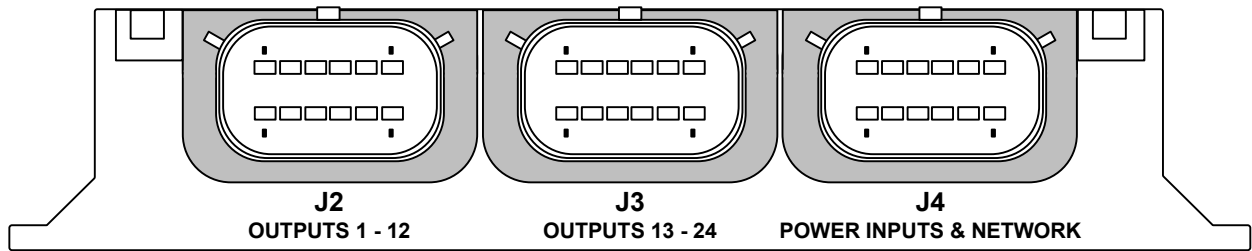
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J4 – POWER INPUT & NETWORK COMMUNICATION TO EXPMOD32

- Pin 1 Input 1 (2.5A) – 18 Ga. BL “INPUT 1”
- Pin 2 Output 5-8 Power Input (10A) – 16 Ga. RD Power “PWR 5-8”
- Pin 3 Output 21-24 Power Input (10A) – 16 Ga. RD Power “PWR 21-24”
- Pin 4 Output 13-16 Power Input (10A) – 16 Ga. RD Power “PWR 13-16”
- Pin 5 Output 17-20 Power Input (10A) – 16 Ga. RD Power “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 Power “PWR 1-4”
- Pin 9 Output 9-12 Power Input (10A) – 16 Ga. RD Power “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)

FEDERAL SIGNAL EXPMOD24 EXPANSION MODULE



J4 – POWER INPUT & NETWORK COMMUNICATION TO EXPMOD24

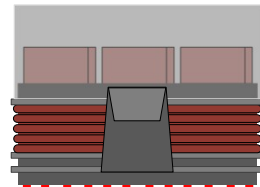
- Pin 1 Input 1 (2.5A) – 18 Ga. BL Input 1 "INPUT 1"
- Pin 2 Output 5-8 Power Input (10A) – 16 Ga. RD "POWER 5-8"
- Pin 3 Output 21-24 Power Input (10A) – 16 Ga. RD "PWR 21-24"
- Pin 4 Output 13-16 Power Input (10A) – 16 Ga. RD "PWR 13-16"
- Pin 5 Output 17-20 Power Input (10A) – 16 Ga. RD "PWR 17-20"
- 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

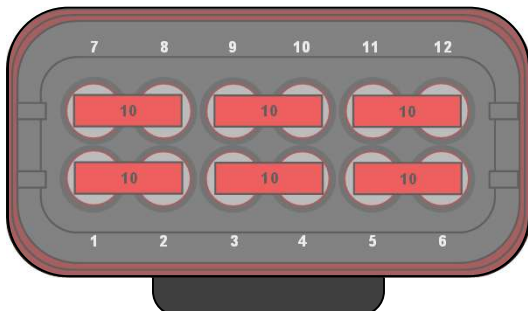
- Power – ¼" Ring at Battery
- (6) 16 Ga. RD Power Wires to Ring
- Fuse 1, 10 Amp: 16 Ga. RD Power 1
- Fuse 2, 10 Amp: 16 Ga. RD Power 2
- Fuse 3, 10 Amp: 16 Ga. RD Power 3
- Fuse 4, 10 Amp: 16 Ga. RD Power 4
- Fuse 5, 10 Amp: 16 Ga. RD Power 5
- Fuse 6, 10 Amp: 16 Ga. RD Power 6

To Battery

Sealed 6-Position
Fuse Holder with 6
10 Amp Fuses.



FUSE & RELAY HOLDER
WITH COVER TOP VIEW



INPUTS

DATA

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

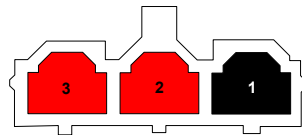
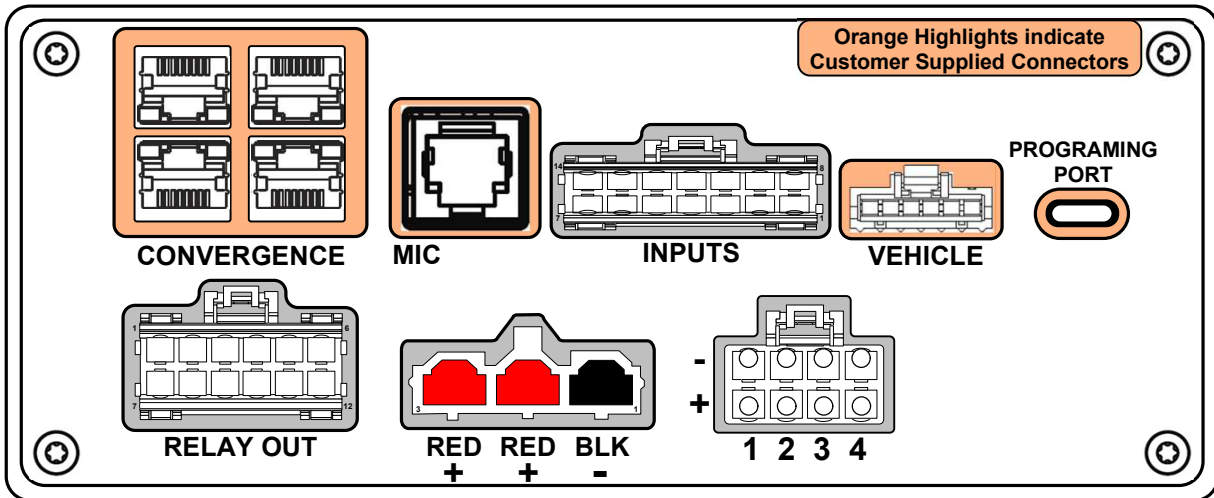
EDD 070720

ECN 000000

12-FSPF-400-28G

28" Federal Signal Pathfinder 400 Power Cable

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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
Fuse Panel

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 102125

ECN 000000

