

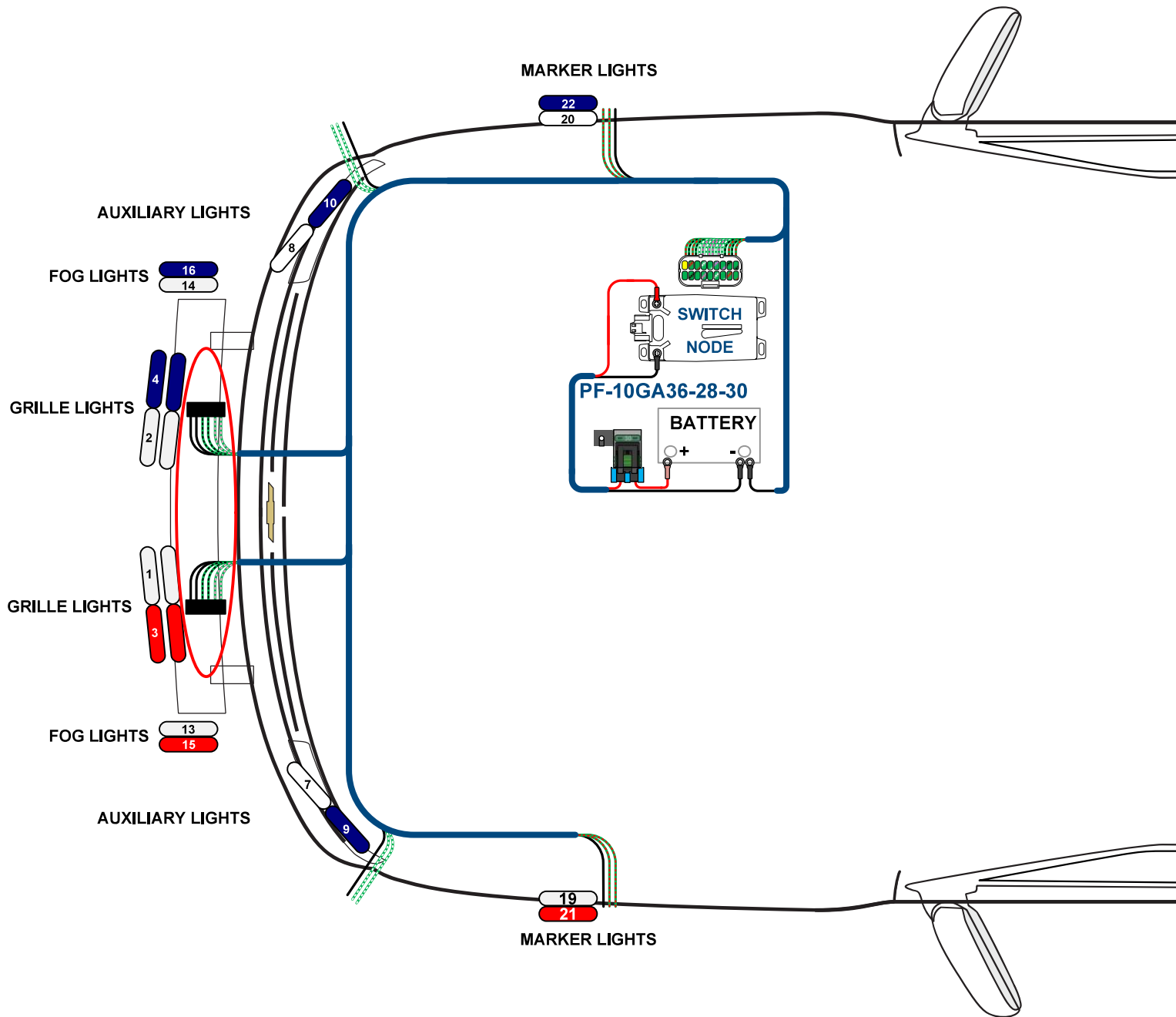


AFS

ALL FLEET SOLUTIONS



QK-C3-200PBC-CT
Dual Color Lighthead Kit Supports
Code 3 Matrix Siren



FRONT LIGHTING:

GRILLE LIGHTS – SO-362-FLH

- 18 Ga. GN/BK Driver Grille Light 1 “GRL LT 1” to SWITCH NODE Pin 18
- 18 Ga. GN/BK Driver Grille Light 3 “GRL LT 3” to SWITCH NODE Pin 17
- 18 Ga. BK Driver Grille Lights Ground “LT 1 GND” to Ground Assembly
- 18 Ga. GN/BK Pass. Grille Light 2 “GRL LT 2” to SWITCH NODE Pin 2
- 18 Ga. GN/BK Pass. Grille Light 4 “GRL LT 4” to SWITCH NODE Pin 3
- 18 Ga. BK Pass. Grille Lights Ground “LT 2 GND” to Ground Assembly

FOG LIGHTS – SO-362-FLH

- 18 Ga. GN/PK Driver Fog Light 13 “FOG LT 13” to SWITCH NODE Pin 16
- 18 Ga. GN/PK Driver Fog Light 15 “FOG LT 15” to SWITCH NODE Pin 15
- 18 Ga. BK Driver Fog Lights Ground “LT 13 GND” to Ground Assembly
- 18 Ga. GN/PK Pass. Fog Light 14 “FOG LT 14” to SWITCH NODE Pin 5
- 18 Ga. GN/PK Pass. Fog Light 16 “FOG LT 16” to SWITCH NODE Pin 4
- 18 Ga. BK Pass. Fog Lights Ground “LT 14 GND” to Ground Assembly

AUXILIARY LIGHTS – SO-362-FLH

- 18 Ga. GN/WH Driver Auxiliary Light 7 “AUX LT 7” to SWITCH NODE Pin 14
- 18 Ga. GN/WH Driver Auxiliary Light 9 “AUX LT 9” to SWITCH NODE Pin 13
- 18 Ga. BK Driver Auxiliary Lights Ground “LT 7 GND” to Ground Assembly
- 18 Ga. GN/WH Pass. Auxiliary Light 8 “AUX LT 8” to SWITCH NODE Pin 7
- 18 Ga. GN/WH Pass. Auxiliary Light 10 “AUX LT 10” to SWITCH NODE Pin 6
- 18 Ga. BK Pass. Auxiliary Lights Ground “LT 8 GND” to Ground Assembly

MARKER LIGHTS – SO-362-FLH

- 18 Ga. GN/RD Driver Marker Light 19 “MRK LT 19” to SWITCH NODE Pin 12
- 18 Ga. GN/RD Driver Marker Light 21 “MRK LT 21” to SWITCH NODE Pin 11
- 18 Ga. BK Driver Marker Lights Ground “LT 19 GND” to Ground Assembly
- 18 Ga. GN/RD Pass. Marker Light 20 “MRK LT 20” to SWITCH NODE Pin 9
- 18 Ga. GN/RD Pass. Marker Light 22 “MRK LT 22” to SWITCH NODE Pin 8
- 18 Ga. BK Pass. Marker Lights Ground “LT 20 GND” to Ground Assembly

PRODUCTS SHOWN ON LAYOUT:

Front Harness: SO-362-FLH
Front Node Power: PF-10GA36-28-30
Push Bumper Pigtails: SO-362-PBPT

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

Email: sales@allfleetsolutions.com

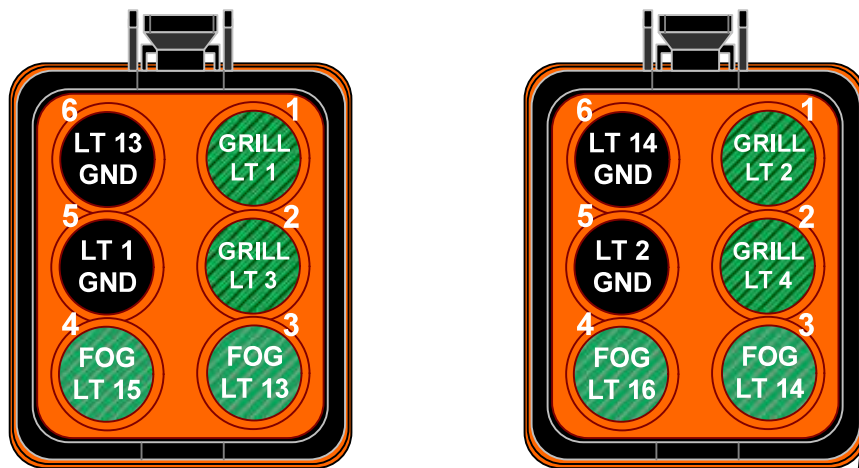
Web: www.allfleetsolutions.com

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Note: Grille & Fog Light wires are terminated and pinned into connectors with 37" Braided & 3" Exposed to be utilized with SO-362-PBPT Push Bumper Pigtails

PUSH BUMPER CONNECTORS REAR VIEW



ADDITIONAL INFORMATION:

SWITCH NODE POWER – PF-10GA36-28-30

- 10 Ga. RD Power Wire to 1 Position Sealed Fuse Block with one (30A) Mini Fuse for CODE 3 Switch Node Expansion Module
- 10 Ga. BK Ground Wire for CODE 3 Switch Node Expansion Module

SWITCH NODE CONNECTOR

- Switch Node Layout

N2 – FOG LIGHTS

- 18 Ga. GN/PK Fog Lt. 14
- 18 Ga. GN/PK Fog Lt. 16
- 18 Ga. BK Lt 14 Gnd

GRILLE LIGHTS

- 18 Ga. GN/BK Grille Lt. 2
- 18 Ga. GN/BK Grille Lt. 4
- 18 Ga. BK Lt. 2 Gnd

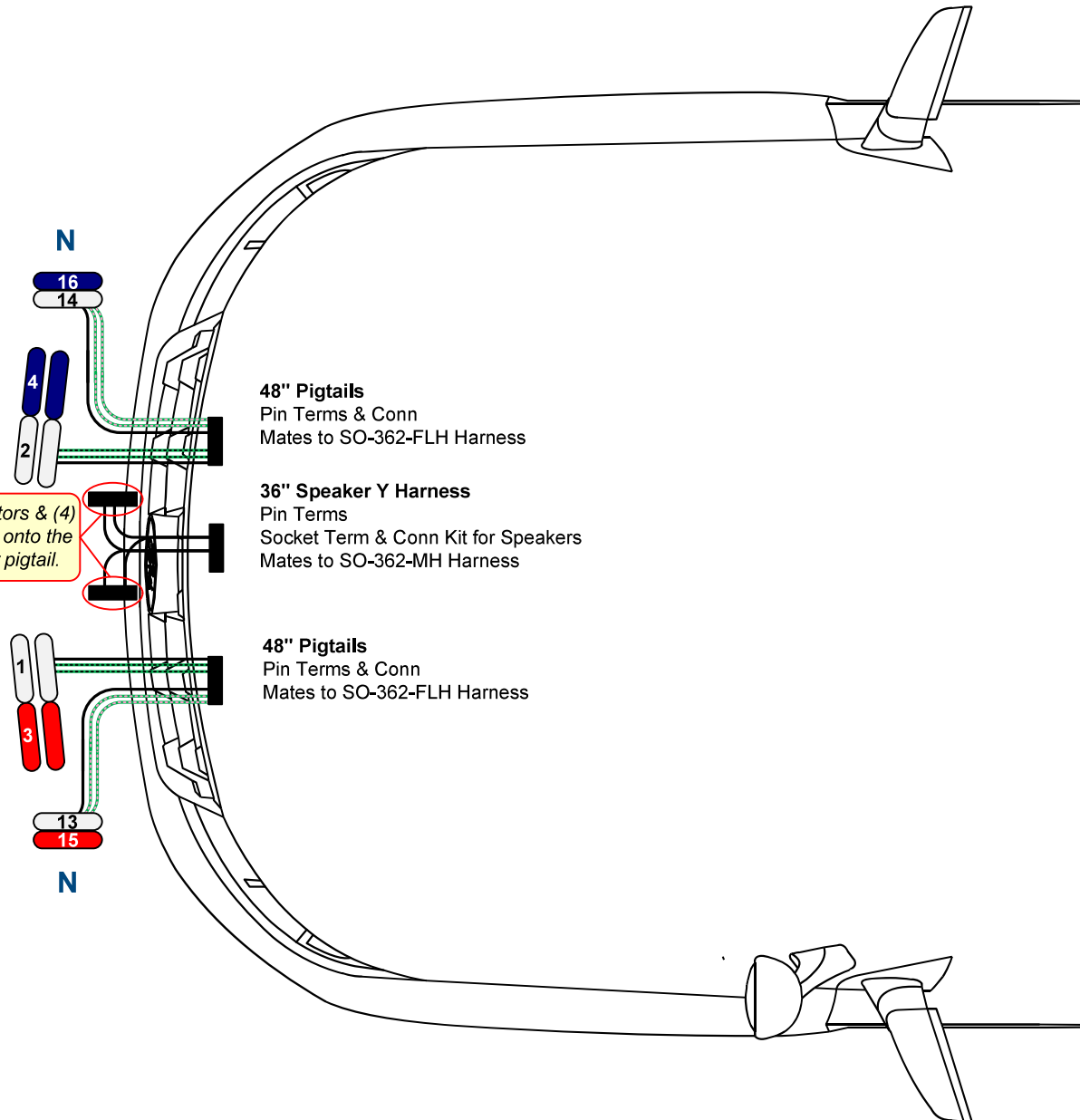
Note: Includes (2) DT 2 Position Connectors & (4) Female Socket Terminals to be installed onto the speakers that will plug into the speaker pigtail.

GRILLE LIGHTS

- 18 Ga. GN/BK Grille Lt. 1
- 18 Ga. GN/BK Grille Lt. 3
- 18 Ga. BK Lt. 1 Gnd

N2 – FOG LIGHTS

- 18 Ga. GN/PK Fog Lt. 13
- 18 Ga. GN/PK Fog Lt. 15
- 18 Ga. BK Lt 13 Gnd



48" Pigtails

Pin Terms & Conn
Mates to SO-362-FLH Harness

36" Speaker Y Harness

Pin Terms
Socket Term & Conn Kit for Speakers
Mates to SO-362-MH Harness

48" Pigtails

Pin Terms & Conn
Mates to SO-362-FLH Harness

PRODUCTS SHOWN ON LAYOUT:

Push Bumper Pigtails: SO-362-PBPT

TECHNICAL SUPPORT & SALES CONTACT:

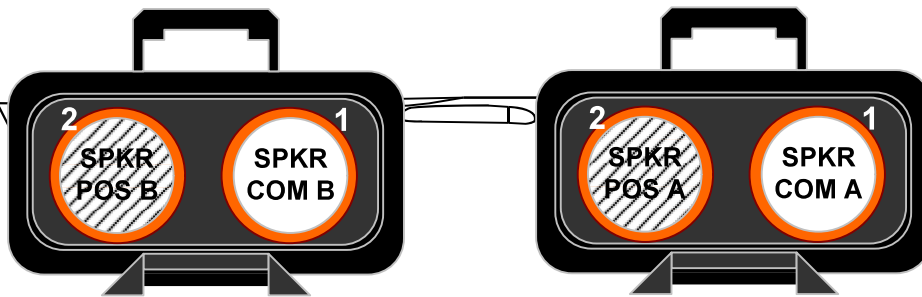
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

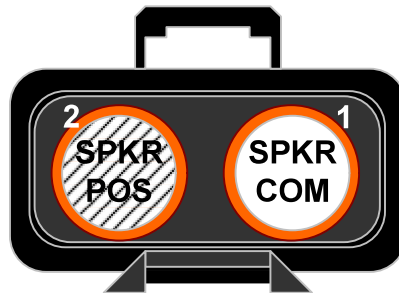
Web: www.allfleetsolutions.com

EDD 051222

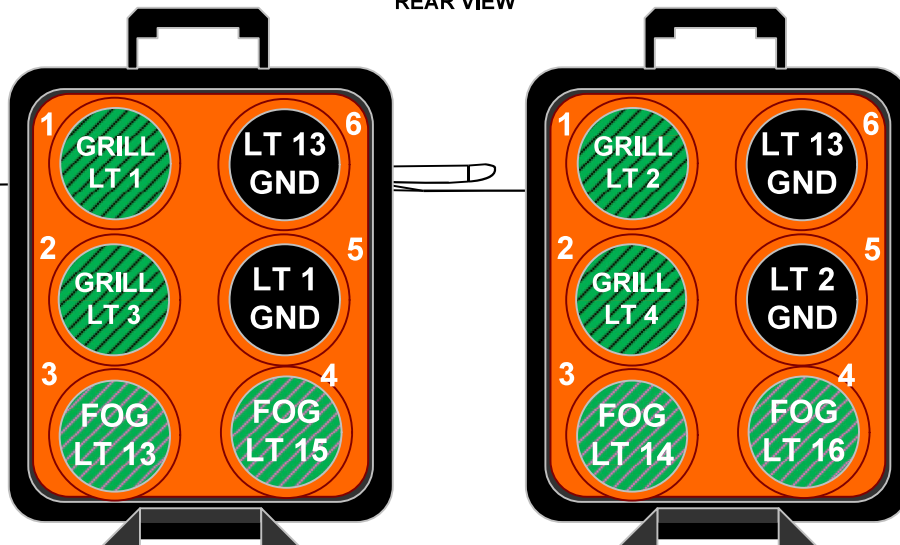
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**SPEAKER
PIGTAIL CONNECTORS
REAR VIEW**

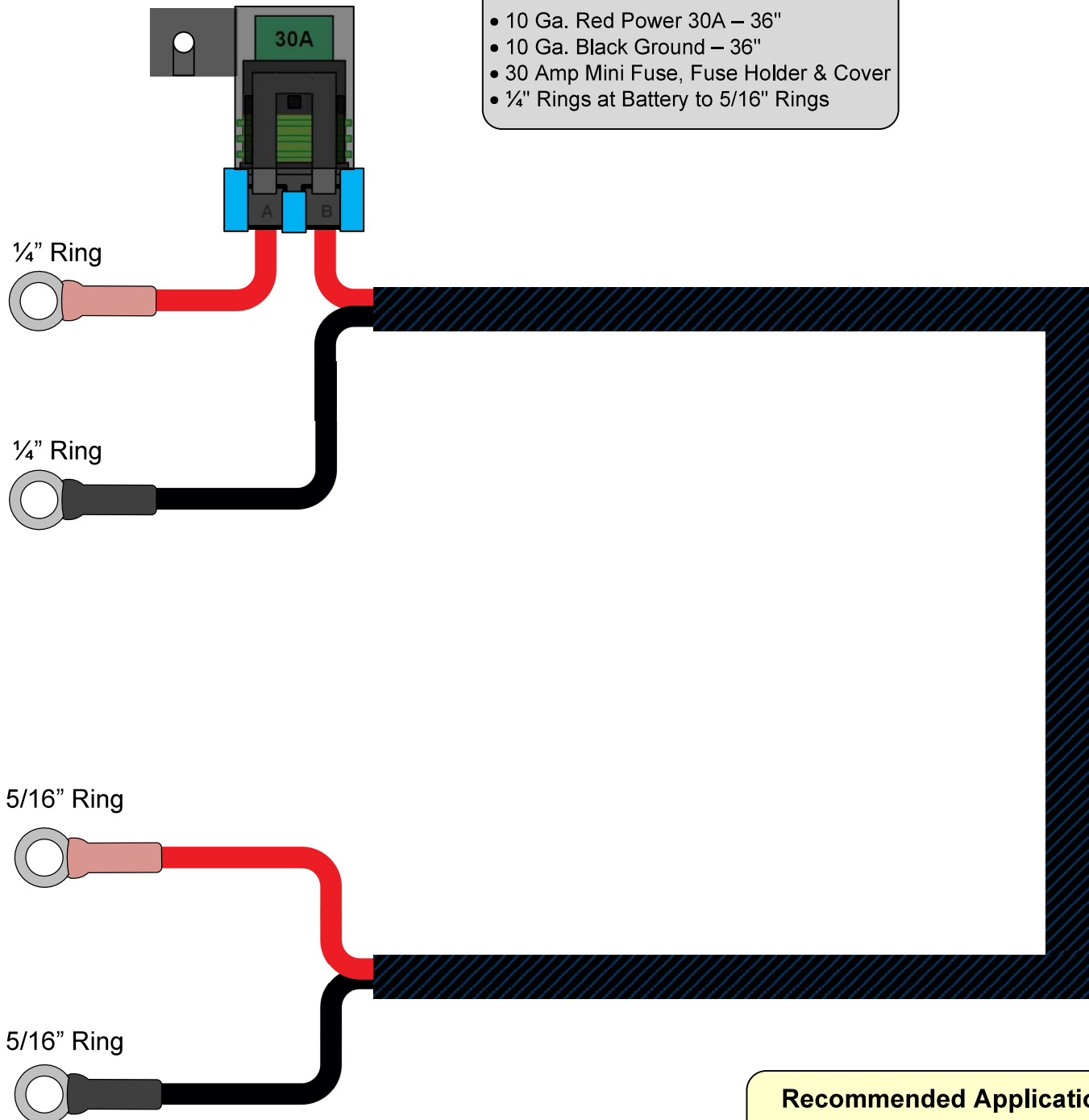


**PUSH BUMPER
PIGTAIL CONNECTORS
REAR VIEW**



PF-10GA36-28-30 Power Feed

- 10 Ga. Red Power 30A – 36"
- 10 Ga. Black Ground – 36"
- 30 Amp Mini Fuse, Fuse Holder & Cover
- 1/4" Rings at Battery to 5/16" Rings



Recommended Applications

- Utilize with Code 3 Switch Node

EDD 051222

ECN 000000

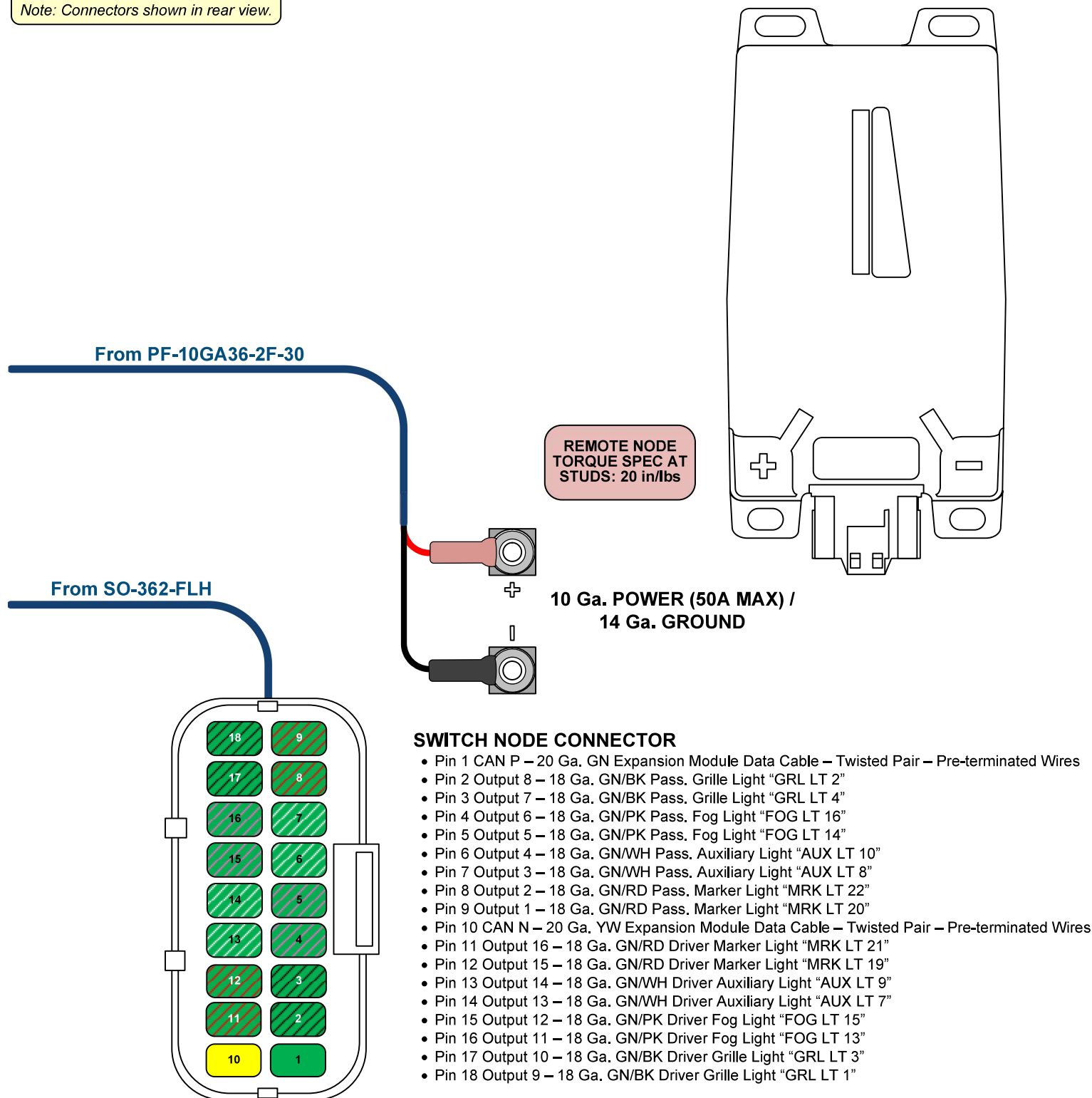
TECHNICAL SUPPORT & SALES CONTACT:

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Note: Connectors shown in rear view.



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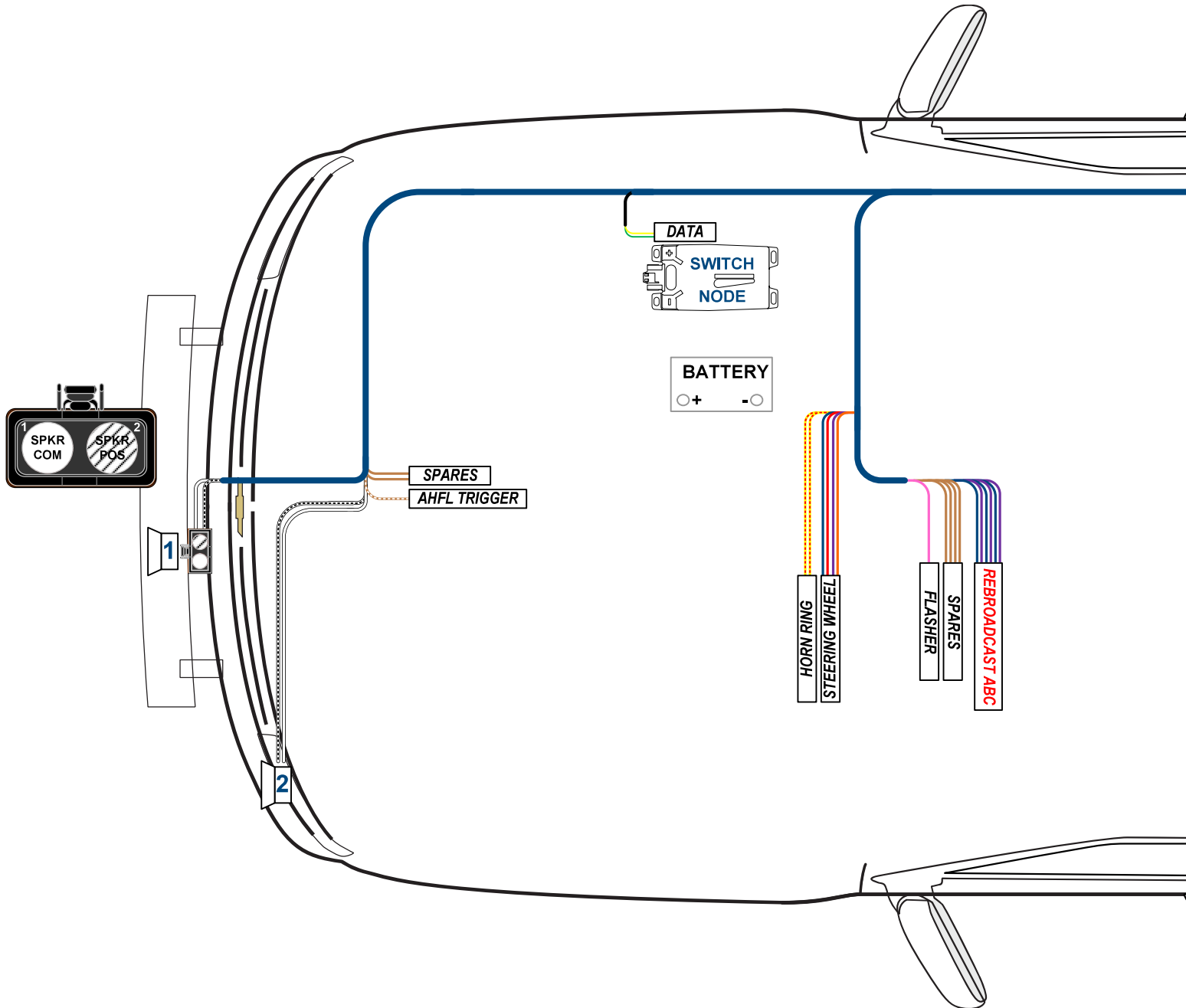
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UNDERHOOD:

SPEAKER 1 – SO-362-MH

- 14 Ga. WH Speaker 1 Common “SPKR COM” to MATRIX Aux C Pin 5
- 14 Ga. WH/BK Speaker 1 Positive “SPKR POS” to MATRIX Aux C Pin 10

SPEAKER 2 – SO-362-MH

- 14 Ga. WH Speaker 2 Common “SPKR COM 2” to Rear Breakout
- 14 Ga. WH/BK Speaker 2 Positive “SPKR POS 2” to Rear Breakout

AHFL RELAY TRIGGER – SO-362-MH

- 18 Ga. TN/WH AHFL Relay Trigger “RLY TRG” to MATRIX Aux C Pin 6

FRONT SPARES – SO-362-MH

- 14 Ga. TN Spare Circuit 1 “SPARE 1” to Console
- 14 Ga. TN Spare Circuit 2 “SPARE 2” to Console

SWITCH NODE DATA – SO-362-MH

- 20 Ga. GN CAN N – Twisted Pair Data Cable to MATRIX Can Pin 1
- 20 Ga. YW CAN P – Twisted Pair Data Cable to MATRIX Can Pin 2

CONSOLE:

STEERING WHEEL BUTTONS – SO-362-MH

- 20 Ga. OR Wheel Button 1 “S WHEEL 1” to Rear Breakout
- 20 Ga. PU Wheel Button 2 “S WHEEL 2” to Rear Breakout
- 20 Ga. RD Wheel Button 3 “S WHEEL 3” to MATRIX Inputs Pin 3
- 20 Ga. BL Wheel Button 4 “S WHEEL 4” to MATRIX Inputs Pin 4

HORN / HORN RING – SO-362-MH

- 16 Ga. YW/RD Horn “HORN” to MATRIX Inputs Pin 11
- 16 Ga. YW/RD Horn Ring “HORN RING” to MATRIX Inputs Pin 9

FLASHER – SO-362-MH

- 18 Ga. PK HLF “FLASH TRG” to MATRIX Aux C Pin 1

PRODUCTS SHOWN ON LAYOUT:

Main Harness: SO-362-MH

TECHNICAL SUPPORT & SALES CONTACT:

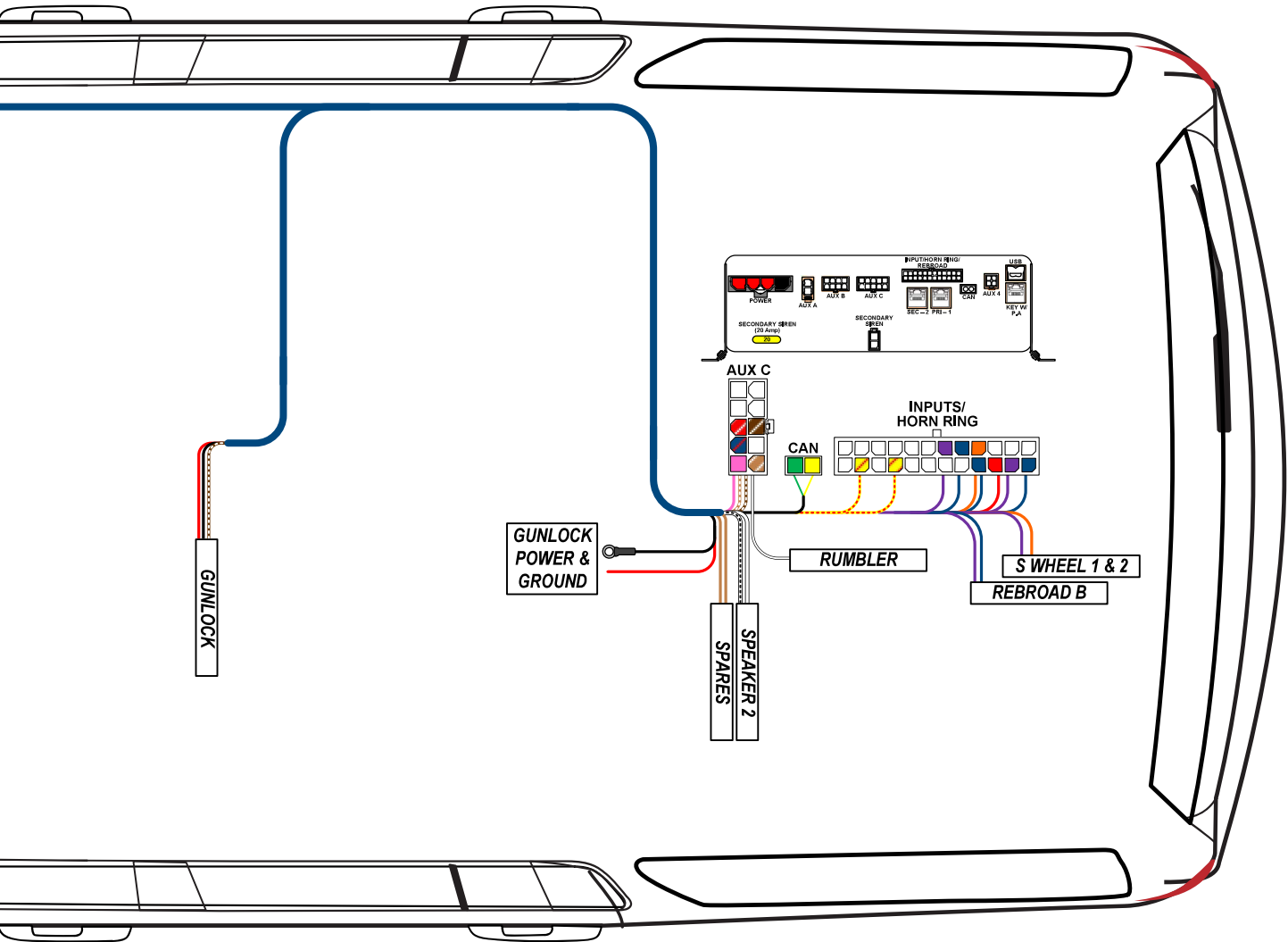
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CONSOLE:

SPARES – SO-362-MH

- 14 Ga. TN Spare Circuit 1 "SPARE 1" to Underhood
- 14 Ga. TN Spare Circuit 2 "SPARE 2" to Underhood
- 14 Ga. TN Spare Circuit 3 "SPARE 3" to Rear Breakout
- 14 Ga. TN Spare Circuit 4 "SPARE 4" to Rear Breakout

RADIO REBROADCAST A, B & C – SO-362-MH

- 18 Ga. BL Radio Rebroadcast A "REBROAD A" to MATRIX Inputs Pin 1
- 18 Ga. PU Radio Rebroadcast A "REBROAD A" to MATRIX Inputs Pin 2
- 18 Ga. BL Radio Rebroadcast B "REBROAD B" to Rear Breakout
- 18 Ga. PU Radio Rebroadcast B "REBROAD B" to Rear Breakout
- 18 Ga. BL Radio Rebroadcast C "REBROAD C" to MATRIX Inputs Pin 17
- 18 Ga. PU Radio Rebroadcast C "REBROAD C" to MATRIX Inputs Pin 18

GUNLOCK – SO-362-MH

- 14 Ga. RD Gunlock Power "GUNLOCK" to P32 Fuse 20
- 16 Ga. BR/WH Gunlock "GUNLOCK" to MATRIX Aux C Pin 8
- 14 Ga. BK Gunlock Ground "GUN GND" to P32 Ground Stud

REAR:

MATRIX CONNECTORS

- See MATRIX Module drawing

SPARES – SO-362-MH

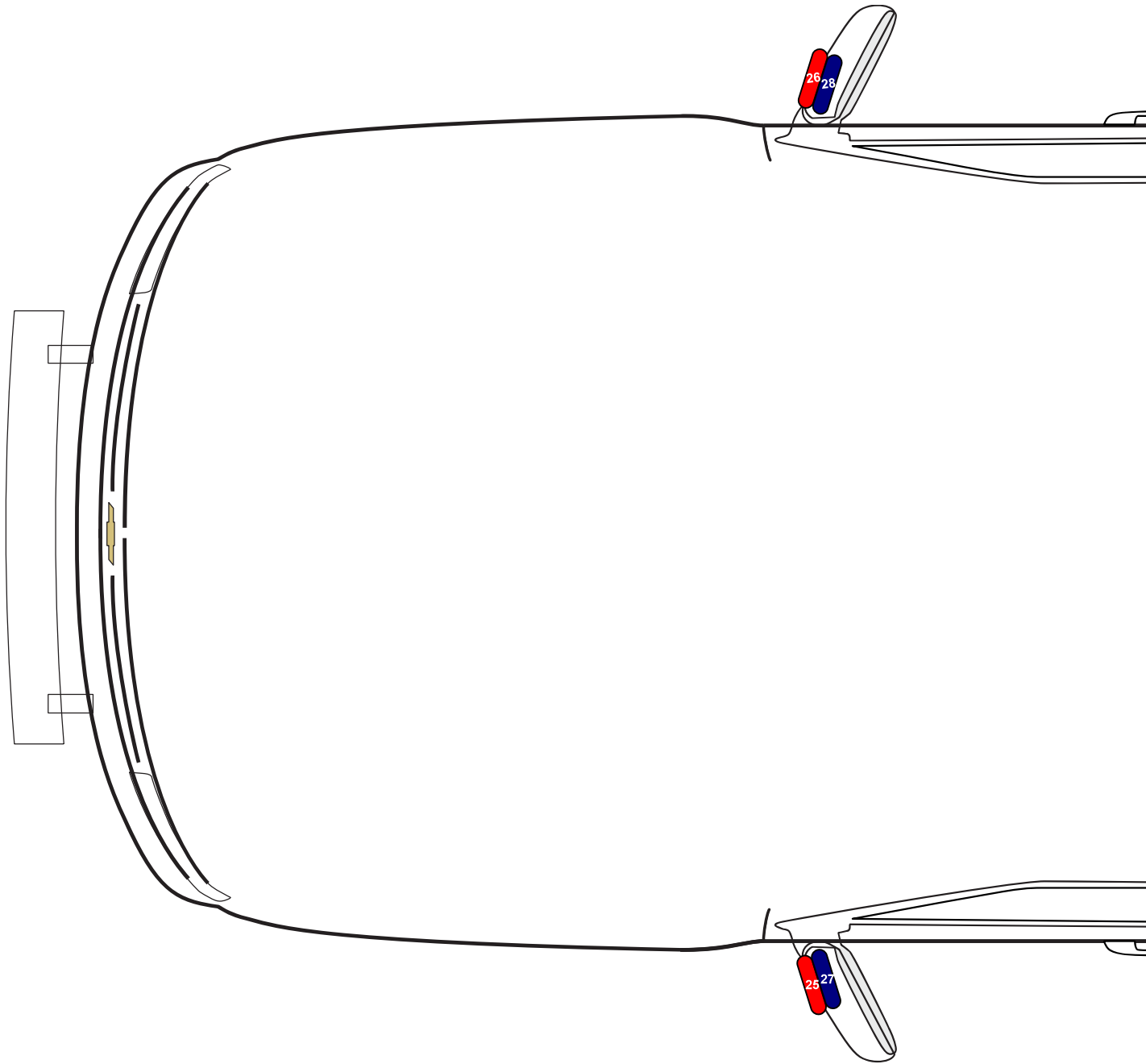
- 14 Ga. TN Spare Circuit 3 "SPARE 3" to Console
- 14 Ga. TN Spare Circuit 4 "SPARE 4" to Console

SPEAKER 2 – SO-362-MH

- 14 Ga. WH Speaker 2 Common "SPKR COM 2" to Underhood
- 14 Ga. WH/BK Speaker 2 Positive "SPKR POS 2" to Underhood

RUMBLER – SO-362-MH

- 18 Ga. WH Rumbler Amplifier "RUMBLE TRG" 24" Pigtail



REAR LIGHTING:

MIRROR LIGHTS – SO-362-RLH

- 18 Ga. GN/YW Driver Mirror Light "MIR LT 25" Spliced to MATRIX Aux B Pin 5
- 18 Ga. GN/YW Driver Mirror Light "MIR LT 27" Spliced to MATRIX Aux B Pin 6
- 18 Ga. BK Driver Mirror Lights Ground "LT 25 GND" to Ground Assembly
- 18 Ga. GN/YW Pass. Mirror Light "MIR LT 26" Spliced to MATRIX Aux B Pin 7
- 18 Ga. GN/YW Pass. Mirror Light "MIR LT 28" Spliced to MATRIX Aux B Pin 8
- 18 Ga. BK Pass. Mirror Lights Ground "LT 26 GND" to Ground Assembly

SUV WARNING LIGHTS – SO-362-RLH

- 18 Ga. BL/BK Driver SUV Warning Light "SUV LT 43" to MATRIX Aux B Pin 5
- 18 Ga. BL/BK Driver SUV Warning Light "SUV LT 45" to MATRIX Aux B Pin 6
- 18 Ga. BK Driver SUV Warning Lights Ground "LT 43 GND" to Ground Assembly
- 18 Ga. BL/BK Pass. SUV Warning Light "SUV LT 44" to MATRIX Aux B Pin 7
- 18 Ga. BL/BK Pass. SUV Warning Light "SUV LT 46" to MATRIX Aux B Pin 8
- 18 Ga. BK Pass. SUV Warning Lights Ground "LT 44 GND" to Ground Assembly

PRODUCTS SHOWN ON LAYOUT:

Rear Harness: SO-362-RLH

TECHNICAL SUPPORT & SALES CONTACT:

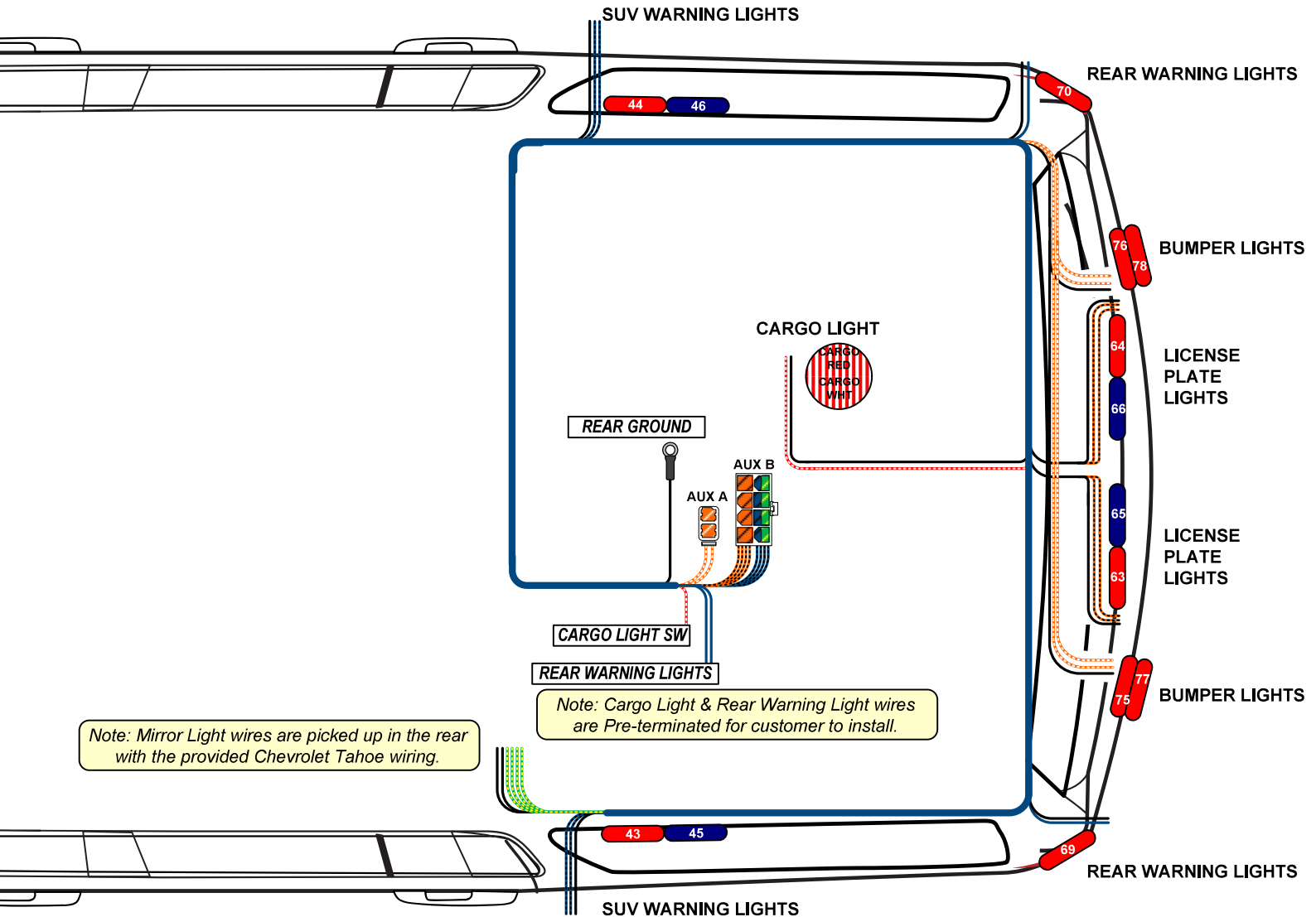
Phone: 844-423-7200

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Web: www.allfleetsolutions.com

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REAR LIGHTING:

LICENSE PLATE LIGHTS – SO-362-RLH

- 18 Ga. OR/BK Driver License Plate Light Red "LP LT 63" to MATRIX Aux B Pin 1
- 18 Ga. OR/BK Driver License Plate Light White "LP LT 65" to MATRIX Aux B Pin 2
- 18 Ga. BK Driver License Plate Lights Ground "LT 63 GND" to Ground Assembly
- 18 Ga. OR/BK Pass. License Plate Light Blue "LP LT 66" to MATRIX Aux B Pin 3
- 18 Ga. OR/BK Pass. License Plate Light White "LP LT 64" to MATRIX Aux B Pin 4
- 18 Ga. BK Pass. License Plate Lights Ground "LT 64 GND" to Ground Assembly

BUMPER LIGHTS – SO-362-RLH

- 18 Ga. OR/WH Driver & Pass. Bumper Lights 75 & 76 "TRUNK LT75" & "TRUNK LT76" to MATRIX Aux A Pin 1
- 18 Ga. BK Driver Bumper Lights Ground "LT 75 GND" to Ground Assembly
- 18 Ga. OR/WH Driver & Pass. Bumper Lights 77 & 78 "TRUNK LT77" & "TRUNK LT78" to MATRIX Aux A Pin 2
- 18 Ga. BK Pass. Bumper Lights Ground "LT 76 GND" to Ground Assembly

CARGO LIGHT – SO-362-RLH

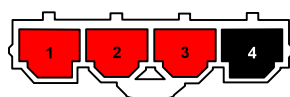
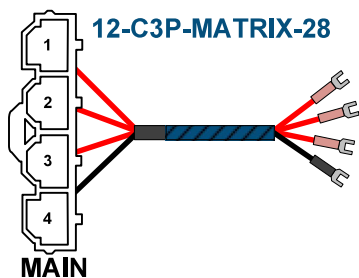
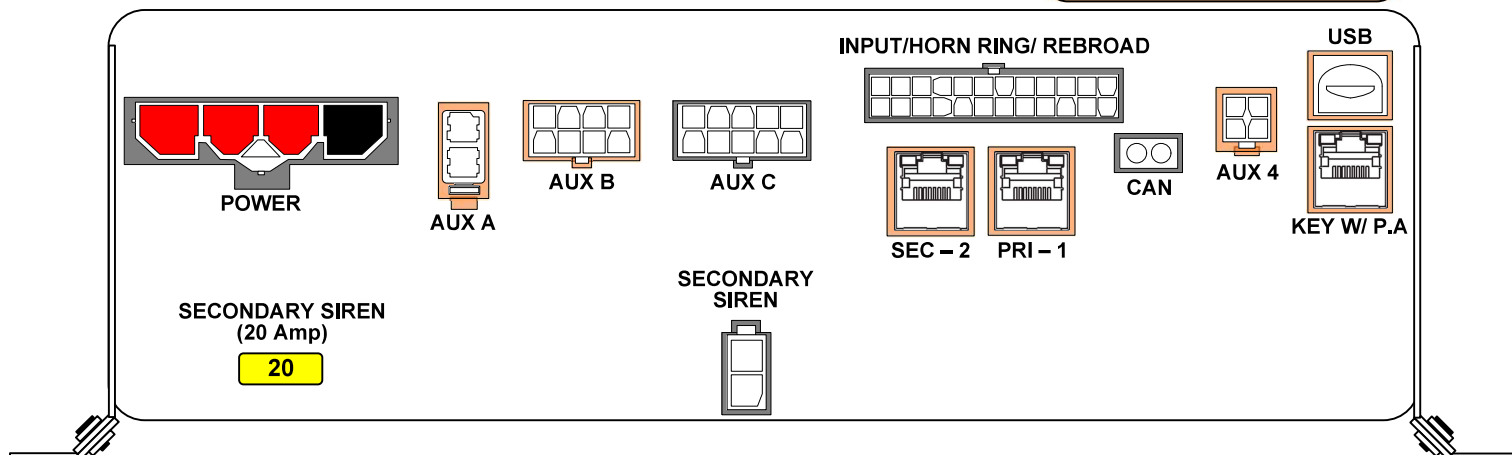
- 18 Ga. RD/WH Cargo Lights Switch "CARGO LTS" to MATRIX Aux C Pin 3
- 18 Ga. BK Cargo Light Ground "CARGO GND" to Ground Assembly

REAR WARNING LIGHTS – SO-362-RLH

- 18 Ga. BL Driver Rear Warning Light 69 "RER W LT69" to MATRIX Aux C Pin 4
- 18 Ga. BK Driver Rear Warning Light Ground "LT 69 GND" to Ground Assembly
- 18 Ga. BL Pass. Rear Warning Light 70 "RER W LT70" to MATRIX Aux C Pin 9
- 18 Ga. BK Pass. Rear Warning Light Ground "LT 70 GND" to Ground Assembly

Note: Connectors shown in rear view.

Orange Highlights indicate
Customer Supplied Connectors



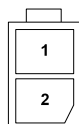
MAIN POWER

- Pin 1 Power In (30A) – 10 Ga. RD “POWER 1” from 12-C3P-MATRIX-28
- Pin 2 Power In (30A) – 10 Ga. RD “POWER 2” from 12-C3P-MATRIX-28
- Pin 3 Power In (30A) – 10 Ga. RD “POWER 3” from 12-C3P-MATRIX-28
- Pin 4 Ground In – 10 Ga. BK “GROUND 3” from 12-C3P-MATRIX-28



AUX A – HIGH CURRENT OUTPUTS

- Pin 1 Output 1 – 18 Ga. OR/WH Bumper Lights Red “TRUNK LT75” & “TRUNK LT76”
- Pin 2 Output 2 – 18 Ga. OR/WH Bumper Lights Red “TRUNK LT77” & “TRUNK LT78”



SECONDARY SIREN

- Pin 1 Siren 2 (+) –: _____
- Pin 2 Siren 2 (–) –: _____

DIAGRAM KEY:

18 Ga: Wire Gauge
YW/BK: Wire Color
"12V IGN": Wire Text

CH: Cabin Harness
RLH: Rear Lighting Harness
B1: Wire Breakout Location

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

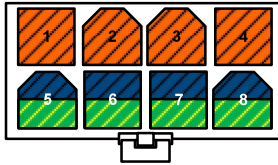
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

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AUX B – LOW CURRENT OUTPUTS



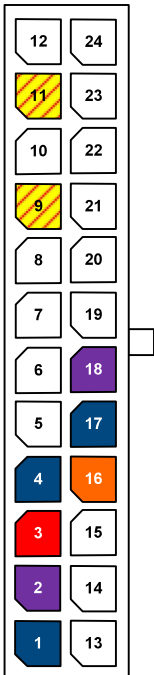
- Pin 1 Output 1 – 18 Ga. OR/BK Driver License Plate Light Red "LP LT 63"
- Pin 2 Output 2 – 18 Ga. OR/BK Driver License Plate Light White "LP LT 65"
- Pin 3 Output 3 – 18 Ga. OR/BK Pass. License Plate Light Blue "LP LT 66"
- Pin 4 Output 4 – 18 Ga. OR/BK Pass. License Plate Light White "LP LT 64"
- Pin 5 Output 5 – 18 Ga. GN/YW Driver Mirror & 18 Ga. BL/BK SUV Warning Light "MIR LT 25" & "SUV LT 43"
- Pin 6 Output 6 – 18 Ga. GN/YW Driver Mirror & 18 Ga. BL/BK SUV Warning Light "MIR LT 27" & "SUV LT 45"
- Pin 7 Output 7 – 18 Ga. GN/YW Pass. Mirror & 18 Ga. BL/BK SUV Warning Light "MIR LT 26" & "SUV LT 44"
- Pin 8 Output 8 – 18 Ga. GN/YW Pass. Mirror & 18 Ga. BL/BK SUV Warning Light "MIR LT 28" & "SUV LT 46"

AUX C – OUTPUTS / SPEAKER



- Pin 1 Output 1 – 18 Ga. PK Head Light Flasher Trigger "FLASH TRG"
- Pin 2 Output 2 – 18 Ga. BL/RD Running Board Outliner – Relay Trigger "RB RLY TRG" to P32 Relay
- Pin 3 Output 3 – 18 Ga. RD/WH Cargo Lights Switch – Relay Trigger "CARGO LTS"
- Pin 4 Output 4 – 18 Ga. BL Driver Rear Tail Light "RER W LT69"
- Pin 5 Speaker 1 – 14 Ga. WH Speaker 1 Common "SPKR COM"
- Pin 6 Output 5 – 18 Ga. TN/WH AHFL Relay Trigger "RLY TRIG"
- Pin 7 Output 6 – 18 Ga. WH Rumbler Amplifier "RUMBLE TRG" 24" Pigtail
- Pin 8 Output 7 – 16 Ga. BR/WH Gunlock "GUNLOCK"
- Pin 9 Output 8 – 18 Ga. BL Pass. Rear Tail Light "RER W LT70"
- Pin 10 Speaker 1 – 14 Ga. WH/BK Speaker 1 Positive "SPKR POS"

INPUTS / HORN RING



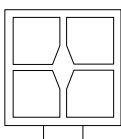
- Pin 1 Input 1 – 20 Ga. BL Radio Rebroadcast A "REBROAD A"
- Pin 2 Input 2 – 20 Ga. PU Radio Rebroadcast A "REBROAD A"
- Pin 3 RRB 1 – 20 Ga. RD Steering Wheel 3 "S WHEEL 3"
- Pin 4 RRB 2 – 20 Ga. BL Steering Wheel 4 "S WHEEL 4"
- Pin 5 N/A – _____
- Pin 6 N/A – _____
- Pin 7 N/A – _____
- Pin 8 N/A – _____
- Pin 9 Horn Ring – 16 Ga. YW/RD Vehicle Horn Ring "HORN RING"
- Pin 10 Horn Ring – _____
- Pin 11 Horn – 16 Ga. YW/RD Vehicle Horn "HORN"
- Pin 12 Horn – _____
- Pin 13 Input 3 – _____
- Pin 14 Input 4 – _____
- Pin 15 Input 5 – _____
- Pin 16 Input 6 – 18 Ga. OR Matrix Ignition "MATRIX IGN" from I-W14-B6i4T4
- Pin 17 Input 7 – 20 Ga. BL Radio Rebroadcast C "REBROAD C"
- Pin 18 Input 8 – 20 Ga. PU Radio Rebroadcast C "REBROAD C"
- Pin 19 Input 9 – _____
- Pin 20 Input 10 – _____
- Pin 21 Input 11 – _____
- Pin 22 Input 12 – _____
- Pin 23 Input 13 – _____
- Pin 24 Input 14 – _____

• Customer to plug Matrix Ignition wire into position 16 after I-W14-B6i4T4 harness is routed through the vehicle.

CAN

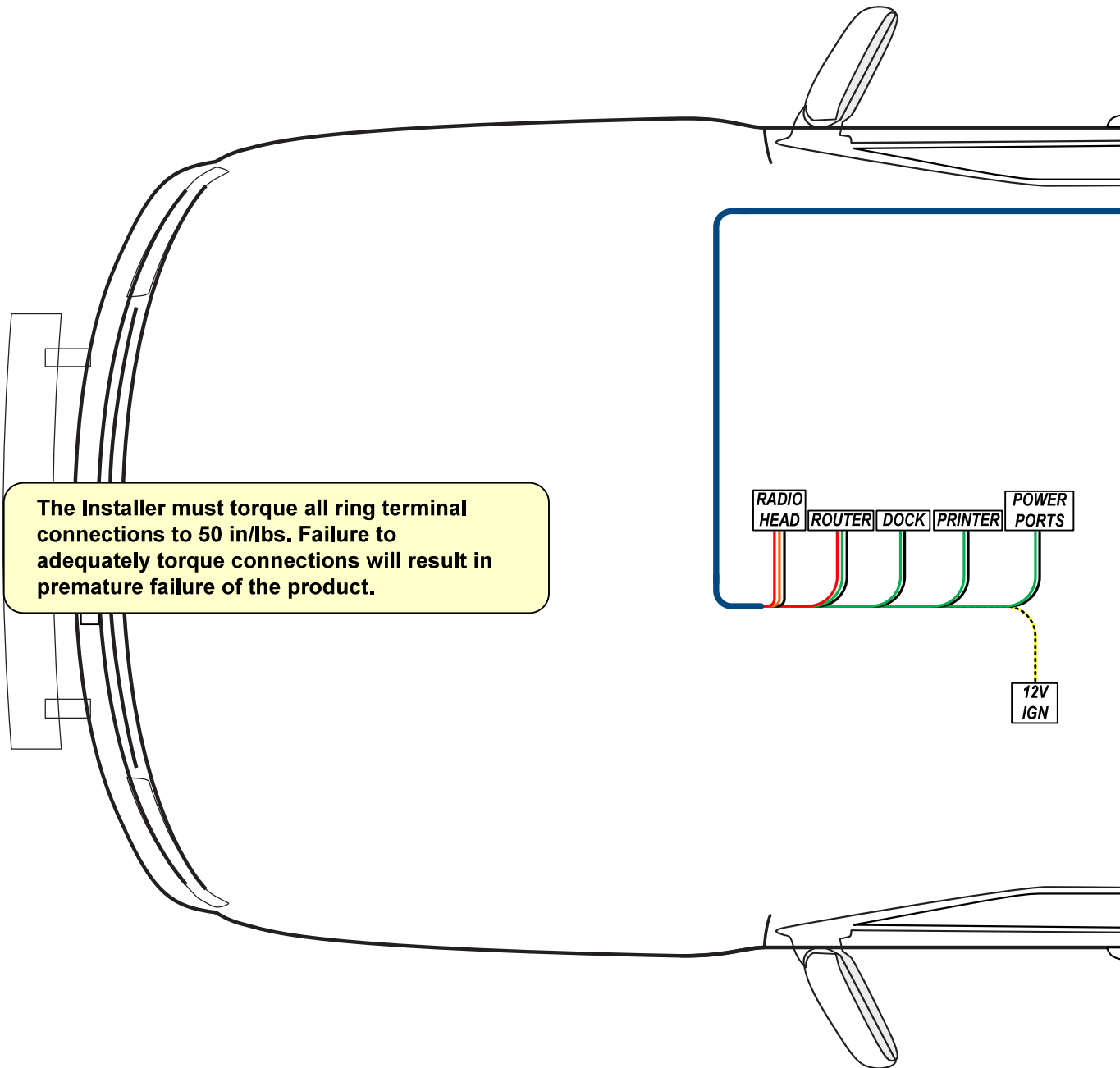


- Pin 1 CAN N – 20 Ga. GN Can N – Twisted Pair
- Pin 2 CAN P – 20 Ga. YW Can P – Twisted Pair



AUX 4

- Pin 1 – _____
- Pin 2 – _____
- Pin 3 – _____
- Pin 4 – _____



UNDERHOOD:

CONSOLE POWER CIRCUITS:

RADIO HEAD

- 18 Ga. RD Radio Head Power (5A) "RDO HD PWR" to P18 F9
- 18 Ga. OR Radio Head Ignition (3A) "RDO HD IGN" to P18 F13
- 18 Ga. BK Radio Head Ground "RDO HD GND" to P18 Ground Bus

ROUTER

- 16 Ga. RD Router Power (10A) "ROUTER PWR" to P18 F8
- 16 Ga. GN Router Timed (7.5A) "ROUTER TMD" to P18 F18
- 16 Ga. BK Router Ground "ROUTER GND" to P18 Ground Bus

PRINTER

- 14 Ga. GN Printer Timed (15A) "PRINT TMD" to P18 F16
- 14 Ga. BK Printer Ground "PRINT GND" to P18 Ground Bus

POWER PORTS

- 14 Ga. GN Power Ports Timed (15A) "P PORT TMD" to P18 F17
- 14 Ga. BK Power Ports Ground "P PORT GND" to P18 Ground Bus

DOCK

- 14 Ga. GN Dock Timed (15A) "DOCK TMD" to P18 F15
- 14 Ga. BK Dock Ground "DOCK GND" to P18 Ground Bus

PRODUCTS SHOWN ON LAYOUT:

Panel Output Harness: I-W14-B6i4T4
Fuse Panel: P18-B9i5T4

TECHNICAL SUPPORT & SALES CONTACT:

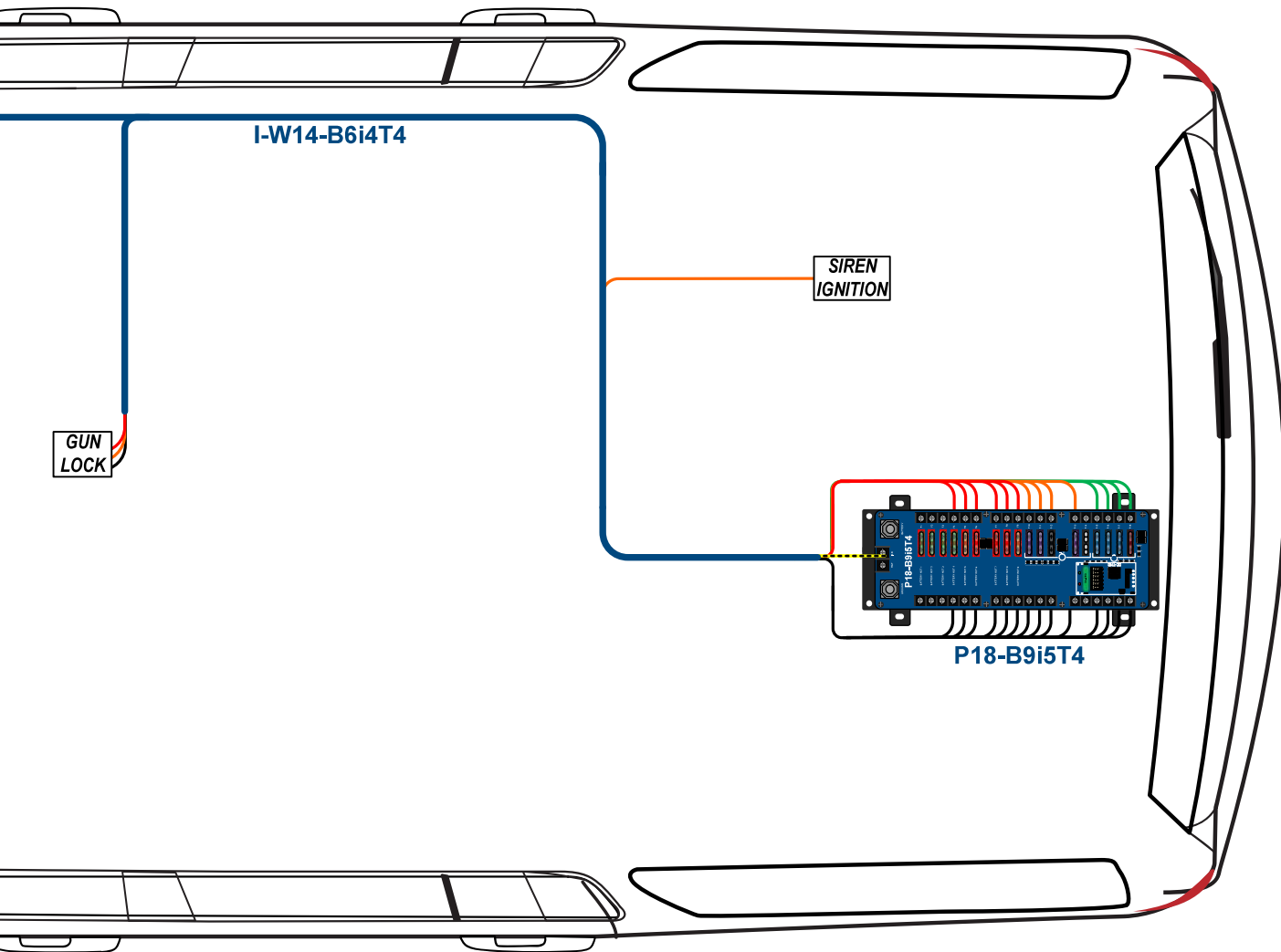
Phone: 844-423-7200

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REAR POWER CIRCUITS:

RADIO

- 10 Ga. RD Radio Power (30A) "RADIO HOT" to P18 F4
- 10 Ga. BK Radio Ground "RADIO GND" to P18 Ground Bus

GUNLOCK

- 16 Ga. RD Gunlock Power (5A) "GUNLCK PWR" to P18 F5
- 18 Ga. OR Gunlock Ignition (3A) "GUNLCK IGN" to P18 F11
- 16 Ga. BK Gunlock Ground "GUNLCK GND" to P18 Ground Bus

WATCH GUARD

- 16 Ga. RD Watch Guard Power (10A) "WG PWR" to P18 F6
- 18 Ga. OR Watch Guard Ignition (1A) "WG IGN" to P18 F12
- 16 Ga. BK Watch Guard Ground "WG GND" to P18 Ground Bus

POWER OVER ETHERNET (POE)

- 16 Ga. RD POE Power (10A) "POE PWR" to P18 F7
- 16 Ga. BK POE Ground "POE GND" to P18 Ground Bus

SIREN IGNITION

- 18 Ga. OR Siren Ignition (3A) "SIREN IGN" to P18 F10

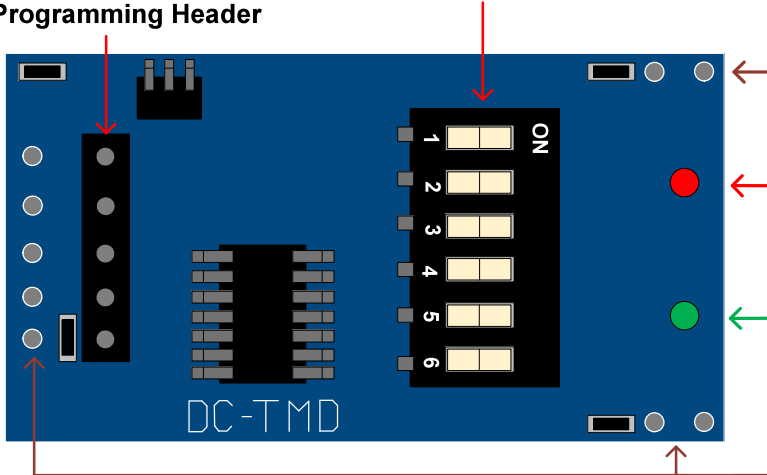
POWER 18 FUSE PANEL

- See P18-B9i5T4 Instructions

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



Warning! The Timer Logic Card is only rated for use in AFS Power Series Fuse Panels, it should not be used in any other application.

Communication Connector to Mother Board

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

Green LED Timer Status

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

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.

Over Voltage 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 over voltage 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.

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.

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 mother board. Please consult those instructions.
- To clear a fault code on the LEDs remove the ground wire or cycle the ignition four times.

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P18-B9i5T4 Configuration:

The Power 18 Power Distribution Center provides Battery Hot, Ignition Hot, and Timed Hot outputs. The Timer Control Card Instructions, "Power Series Timer", will provide programming instructions for changing the Low Voltage Disconnect Setting, Timed Interval Setting, Infinite Mode Operation, and the diagnostic LED status codes.

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.

Amp Rating by Zone

- The nine Battery Hot fuses, F1 to F9, are rated at 30A per terminal, 100A max total load, ATO fuses.
- IG: Ignition Hot 5 ATO fuses, 30A per terminal, 60A max total load.
- T: Timed Delayed 4 ATO fuses, 30A per terminal, 60A max total load.
- The combined maximum total load for the fuse panel with Battery, Ignition, Master, and Timed circuits is 125 amps.

Ignition Hot Circuits:

- 5 Ignition Hot circuits are provided.
- Fuses F10 to F14 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:

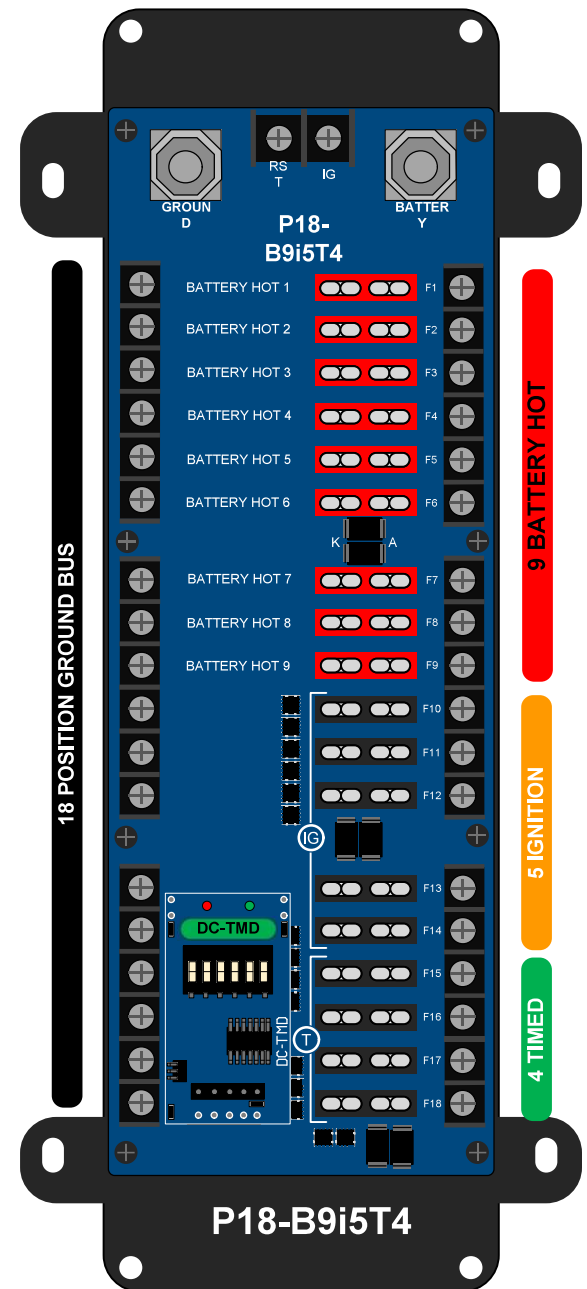
- A momentary 12VDC + input to the RST pin will shut down the timer.
- The RST pin will clear the LED fault codes on the DC-TMD.

Torque Specification:

M6 inputs 50 in-lb.

#6 Screw 15 in-lb.

Do not exceed torque specification as damage will occur.



DC-TMD Timer Card: 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		2	3		On				4	On	1	2		4	On	Voltage ≥13.0V will activate timer.
Off	1	2	3	4	Off	1			4	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	Disconnect at 11.75V >15 seconds.
Off			3	4	Off	1	2		4	Off		2			Off				4	Off	

Ground Bus:

- M6 Stud: Main Ground to Battery
- 30 Amp Max per Terminal
- 125 Amp Max Total Load
- #6 Fork Terminal Required

Inputs:

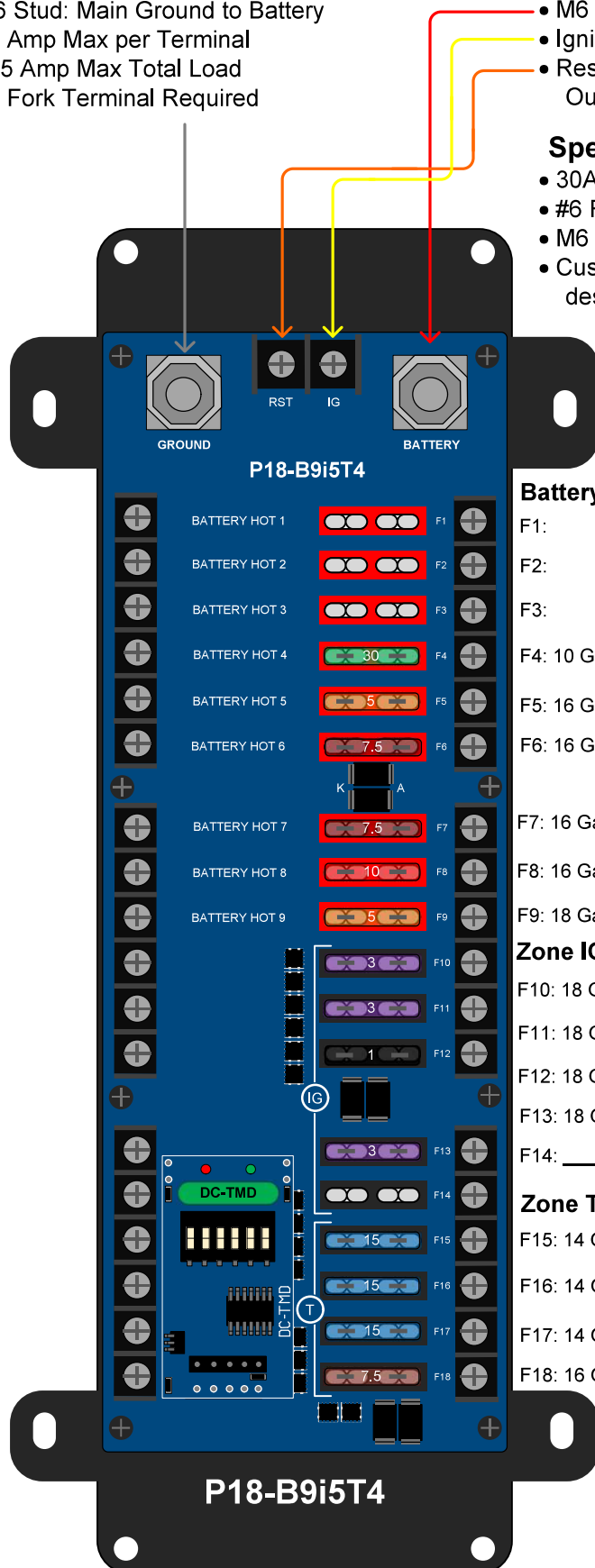
- M6 Power Input, 125 Amp Fuse required with a 6 Ga. wire.
- Ignition Input activates Timer and Ignition circuits.
- Reset Terminal: When 12 VDC is present at this terminal the Timed Outputs shut off.

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 ATO Fuses should be sized to 125% of the designed load of the circuit.

DC-TMD: Timer Card

- Field Replaceable
- Status & Diagnostic LEDs
- Controls Time Delayed Circuits



Battery Hot Circuits: 30 Amps Max Per Fuse, F1 to F9

F1:

F2:

F3:

F4: 10 Ga. RD Radio Power (30A) "RADIO HOT" from I-W14-B6i4T4 to Console

F5: 16 Ga. RD Gunlock Power (5A) "GUNLCK PWR" from I-W14-B6i4T4 to Gunlock

F6: 16 Ga. RD Watch Guard Power (7.5A) "WG PWR" from I-W14-B6i4T4 to Radio Tray

F7: 16 Ga. RD POE Power (7.5A) "POE PWR" to from I-W14-B6i4T4 to POE

F8: 16 Ga. RD Router Power (10A) "ROUTER PWR" from I-W14-B6i4T4 to Console

F9: 18 Ga. RD Radio Head Power (5A) "RDO HD PWR" from I-W14-B6i4T4 to Console

Zone IG: Ignition Hot, 60 Amps Max Combined, F10 to F14

F10: 18 Ga. OR Siren Ignition (3A) "SIREN IGN" from I-W14-B6i4T4 to Rear

F11: 18 Ga. OR Gunlock Ignition (3A) "GUNLCK IGN" from I-W14-B6i4T4 to Gunlock

F12: 18 Ga. OR Watch Guard Ignition (1A) "WG IGN" from I-W14-B6i4T4 to Watch Guard

F13: 18 Ga. OR Radio Head Ignition (3A) "RDO HD IGN" from I-W14-B6i4T4 to Radio Head

F14: _____

Zone T: Timed Delayed, 60 Amps Max Combined, F15 to F18

F15: 14 Ga. GN Dock Timed (15A) "DOCK TMD" from I-W14-B6i4T4 to Console

F16: 14 Ga. GN Printer Timed (15A) "PRINT TMD" from I-W14-B6i4T4 to Console

F17: 14 Ga. GN Power Ports Timed (15A) "P PORT TMD" from I-W14-B6i4T4 to Console

F18: 16 Ga. GN Router Timed (7.5A) "ROUTER TMD" from I-W14-B6i4T4 to Console

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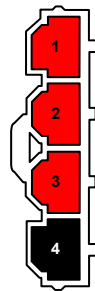
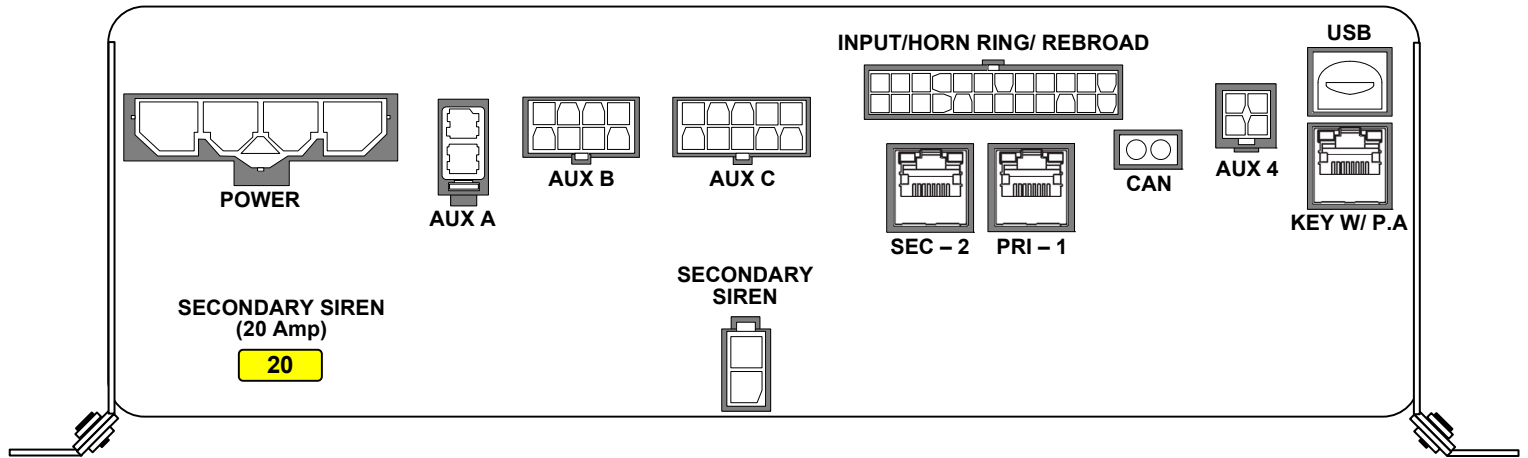
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12-C3P-MATRIX-28

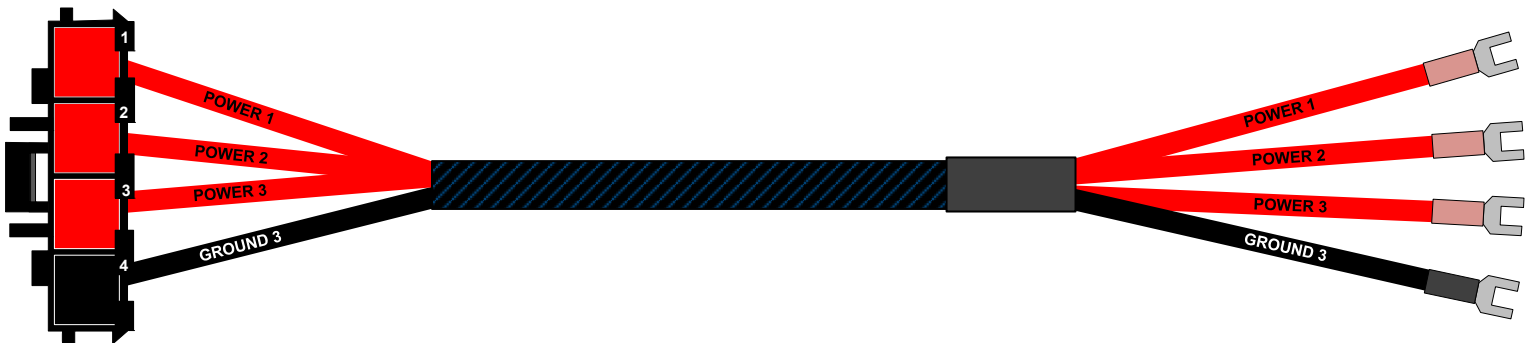
28" CODE 3 Matrix Power Cable

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MAIN POWER

- Pin 1 Power In (30A) – 10 Ga. RD Power "POWER 1"
- Pin 2 Power In (30A) – 10 Ga. RD Power "POWER 2"
- Pin 3 Power In (30A) – 10 Ga. RD Power "POWER 3"
- Pin 4 Ground In – 10 Ga. BK Ground "GROUND 3"



12-C3P-MATRIX-28

Power Connector

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

Connect To
P12 or P18 Fuse Panels

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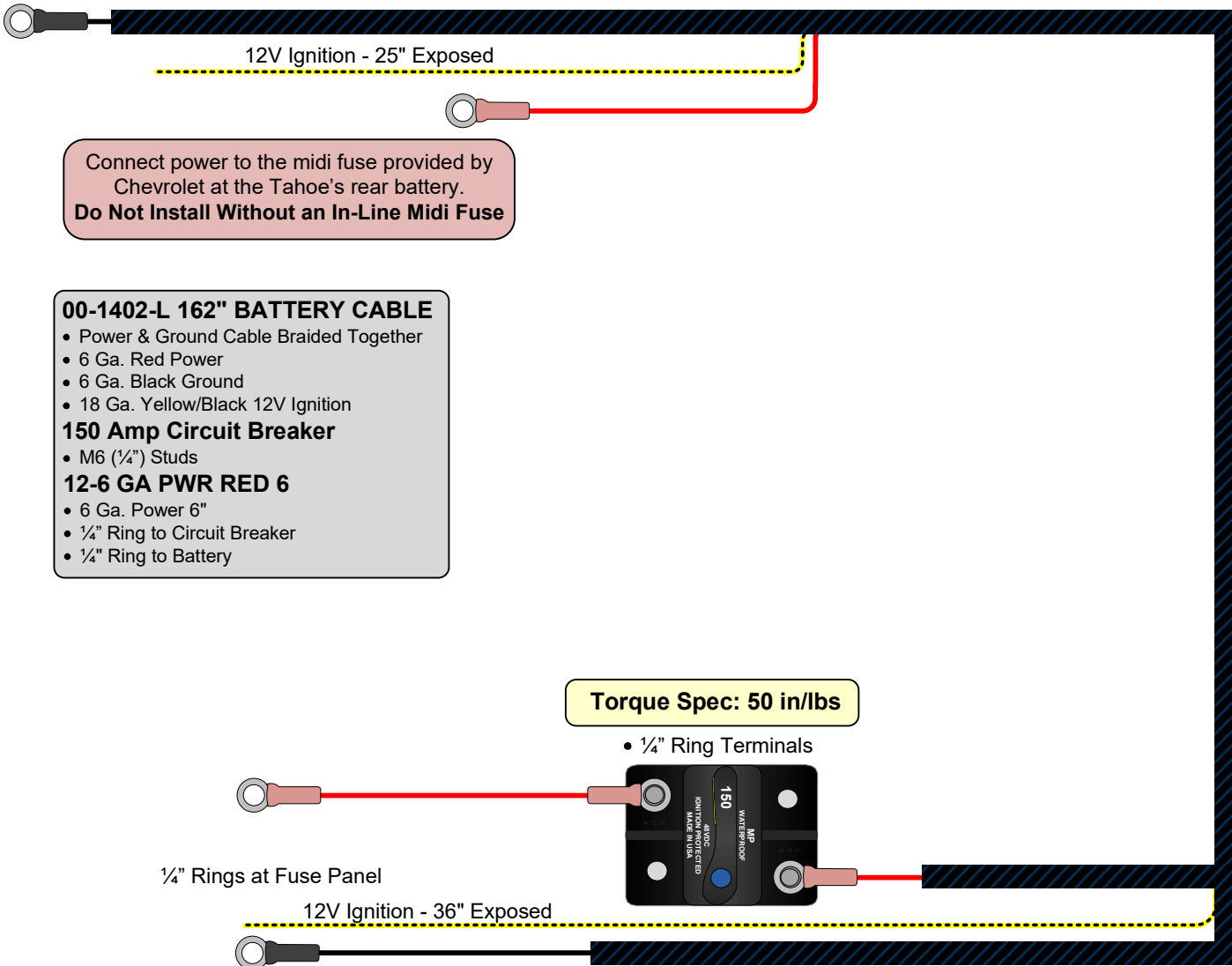
EDD 050222

ECN 000000

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

The 00-1402-L is designed to connect to the Chevrolet Tahoe's rear battery and ground when the fuse panel is mounted to the radio tray.

5/16" Rings at Power Source



Additional Battery Cable lengths and gauges are available. If your project requires a different configuration please contact your local distributor or All Fleet Solutions.

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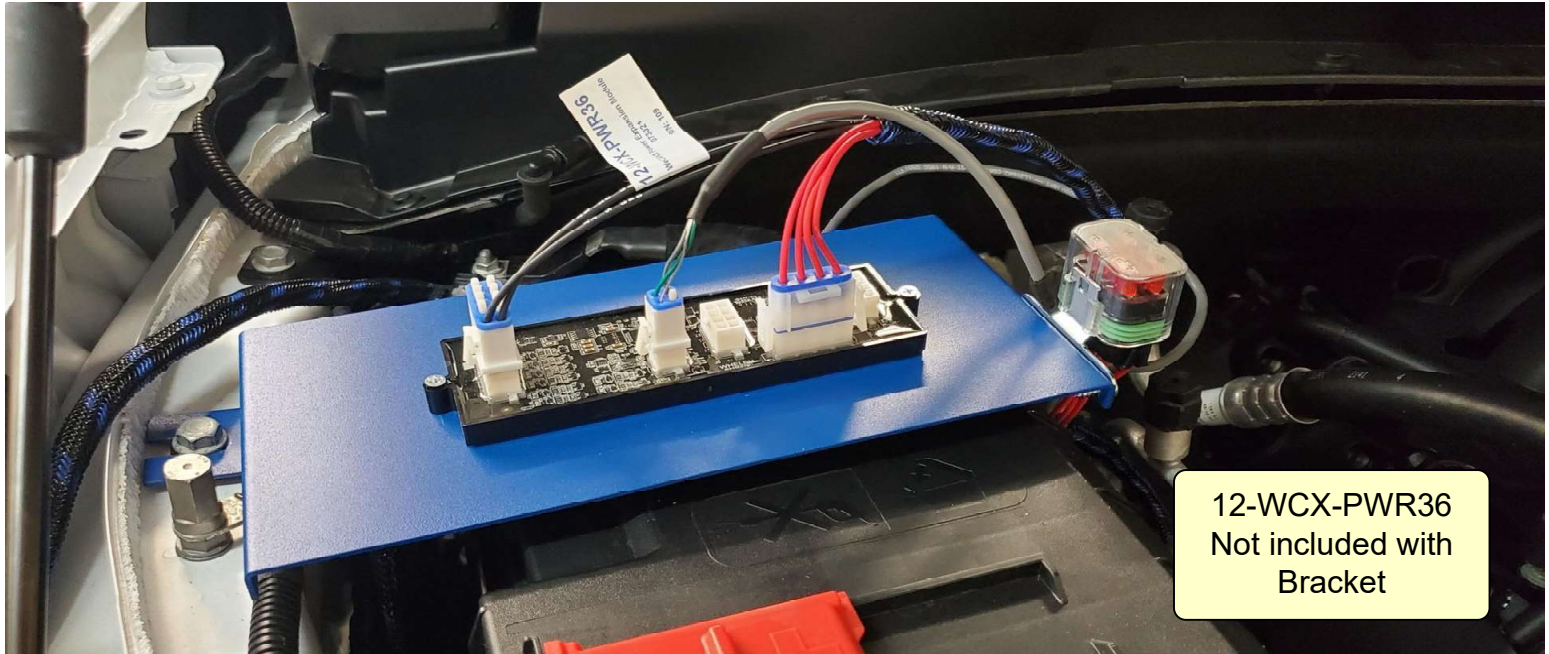
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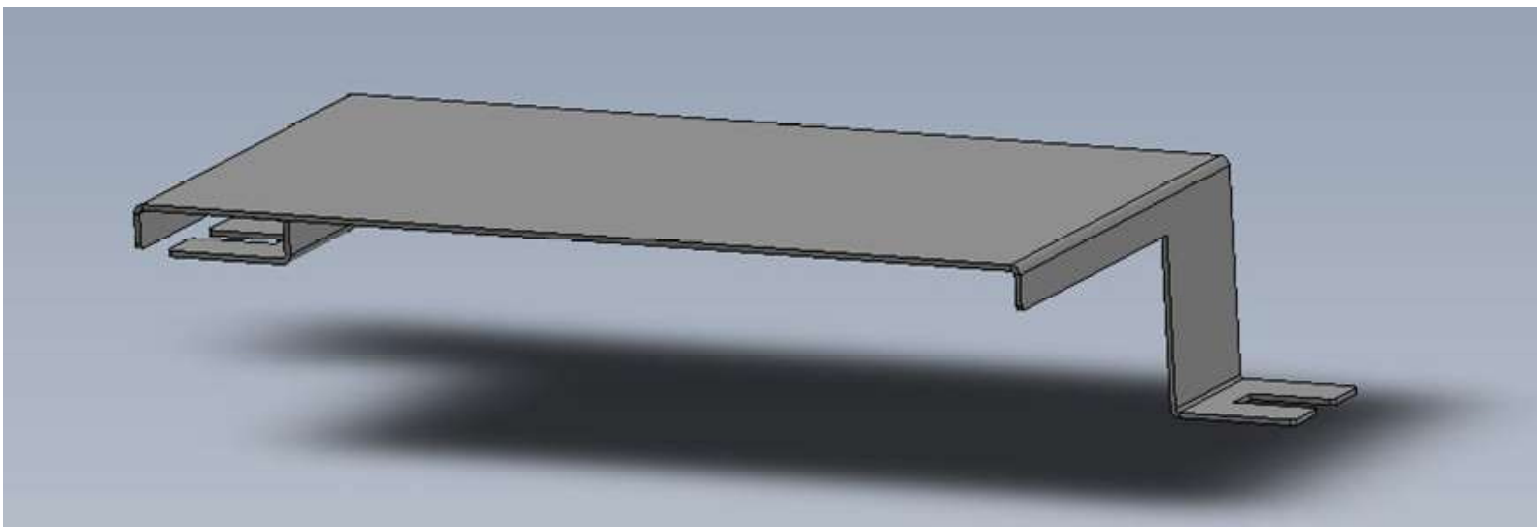
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MB-CT001

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



EDD 070720

ECN 000000

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