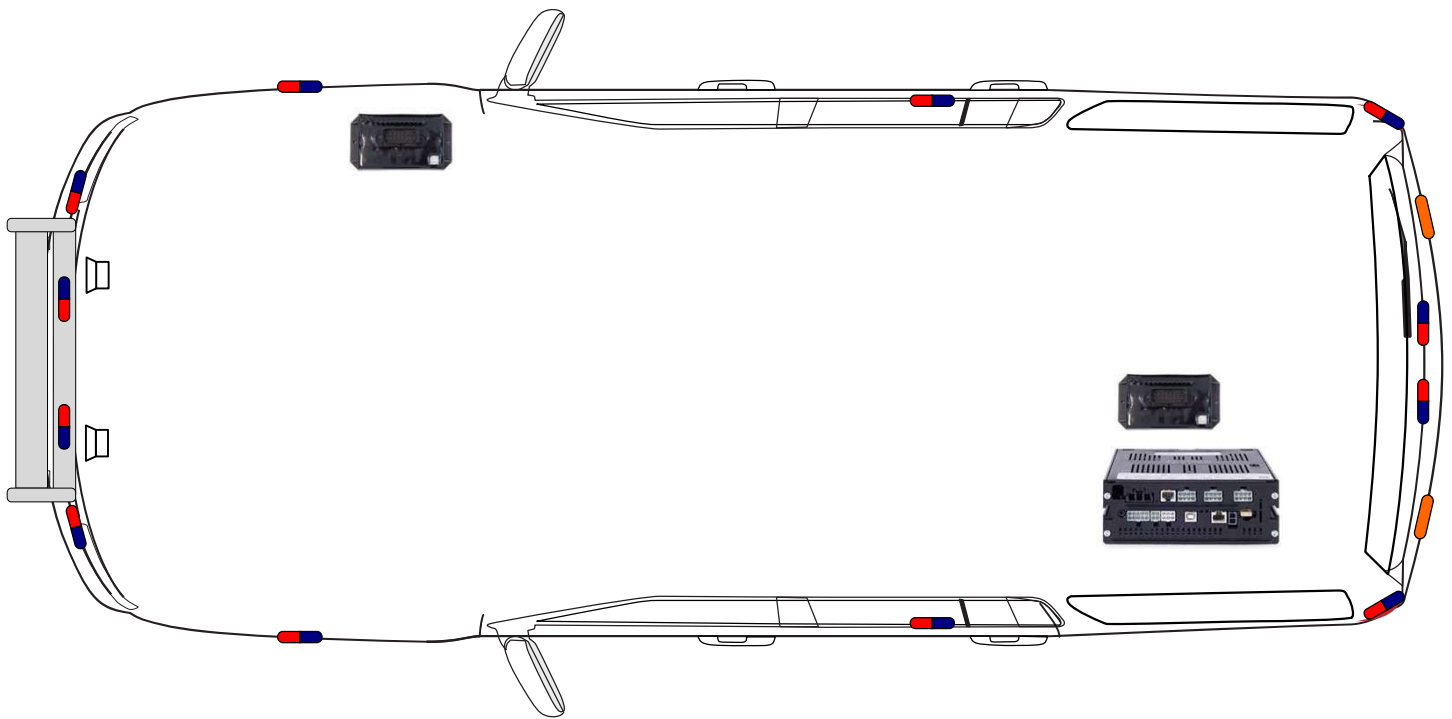
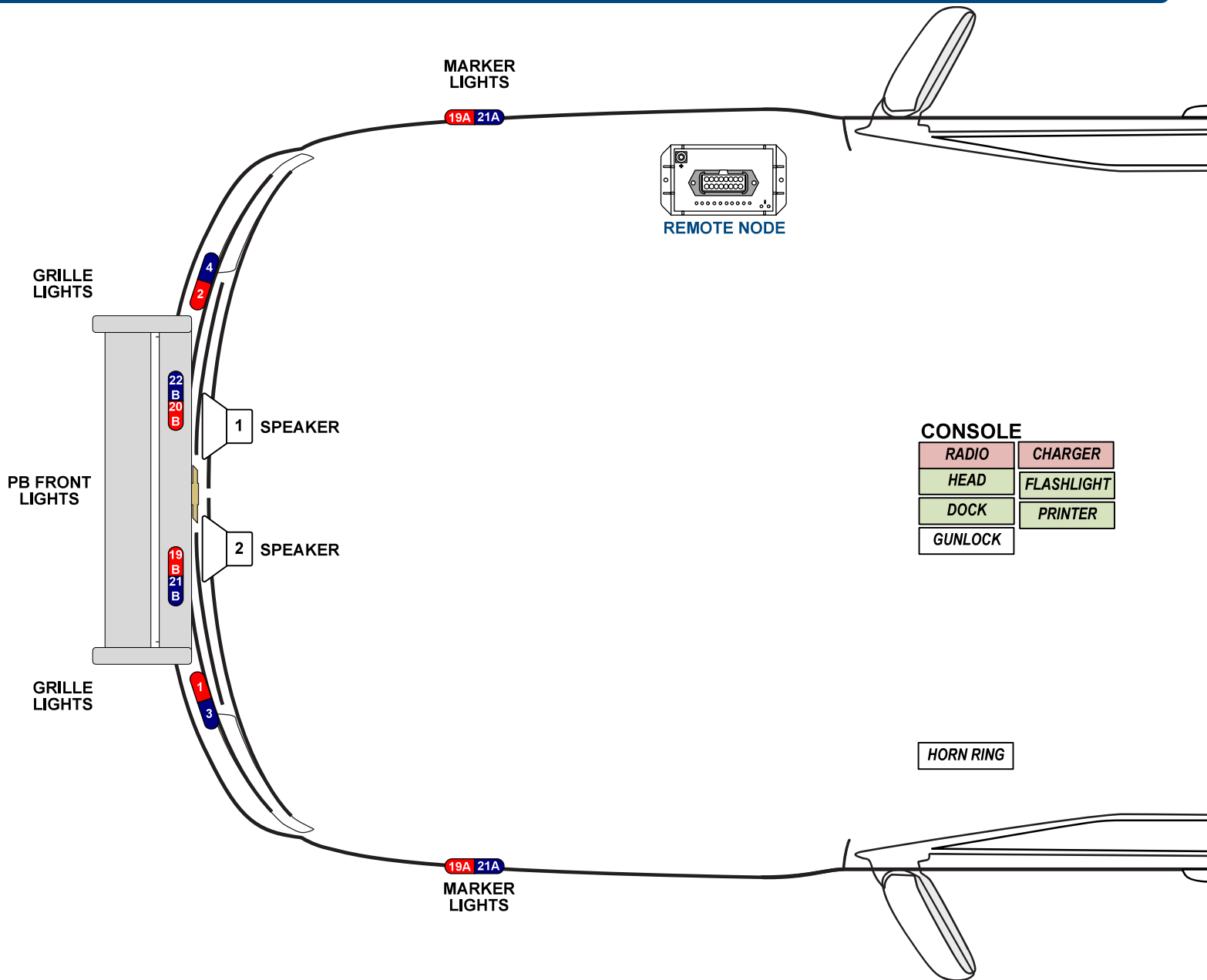


AFS

ALL FLEET SOLUTIONS



QK-SOX-200
Duo Color Lighthouse Kit Supports
SoundOff Signal 500 Series Siren



FRONT COMPONENTS:

PUSH BUMPER FRONT LIGHTS

- 4 Output Wires from Remote Node
- 2 Grounds from Ground Assembly

GRILLE LIGHTS

- 4 Output Wires from Remote Node
- 2 Grounds from Ground Assembly

FENDER LIGHTS

- 4 Output Wires from Remote Node
- 2 Grounds from Ground Assembly

SPEAKERS

- 2 Positive Wires from 500 Siren
- 2 Common Wires from 500 Siren

REMOTE NODE

- 1 Power HOT (15A)
- 1 Ground Wire
- 1 Data from 500 Siren

CONSOLE/MID COMPONENTS:

HORN RING

- 1 Horn Input to 500 Siren
- 1 Horn Output from 500 Siren

RADIO HEAD

- 1 Power HOT (30A)
- 1 Power TIMED (20A)
- 1 Ground Wire

LAPTOP DOCK

- 1 Power TIMED (15A)
- 1 Ground Wire

BATTERY CHARGER

- 1 Power HOT (5A)
- 1 Ground Wire

FLASHLIGHT

- 1 Power TIMED (5A)
- 1 Ground Wire

PRINTER

- 1 Power TIMED (5A)
- 1 Ground Wire

GUNLOCK

- 1 Output from 500 Siren

REAR DOOR LIGHTS

- 4 Output Wires from 500 Siren
- 2 Grounds from Ground Assembly

NOTES FOR LAYOUT:

TECHNICAL SUPPORT & SALES CONTACT:

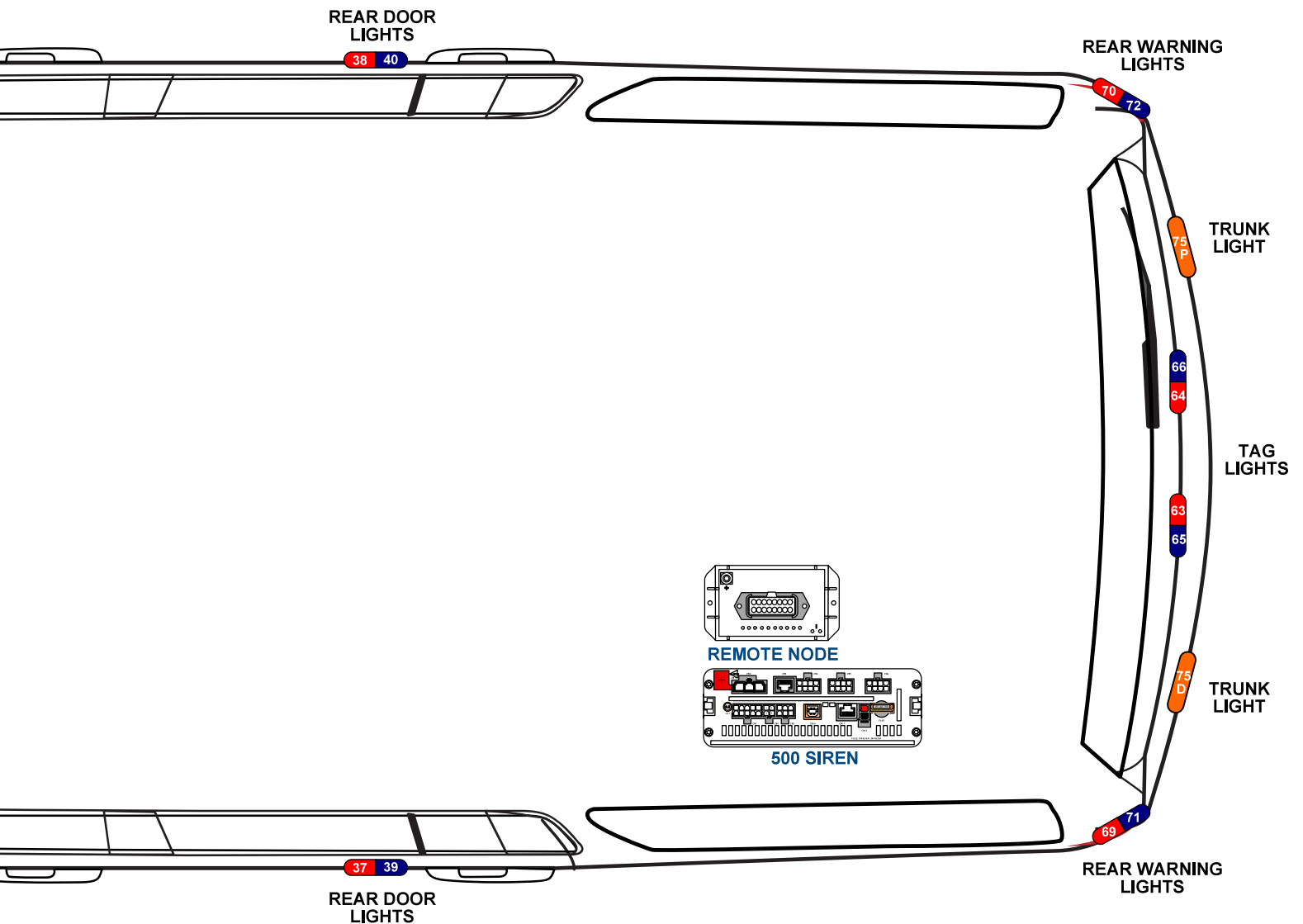
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 062326

ECN 000000



REAR COMPONENTS:

500 SIREN MODULE

- 2 Power Hot (30A)
- 1 Power Hot (25A)
- 1 Ignition (3A)
- 1 Ground Wire
- 15 Output Wires

REMOTE NODE

- 1 Power HOT (15A)
- 1 Ground Wire
- 1 Data from 500 Siren

REAR WARNING LIGHTS

- 4 Output Wires from Remote Node
- 2 Grounds from Ground Assembly

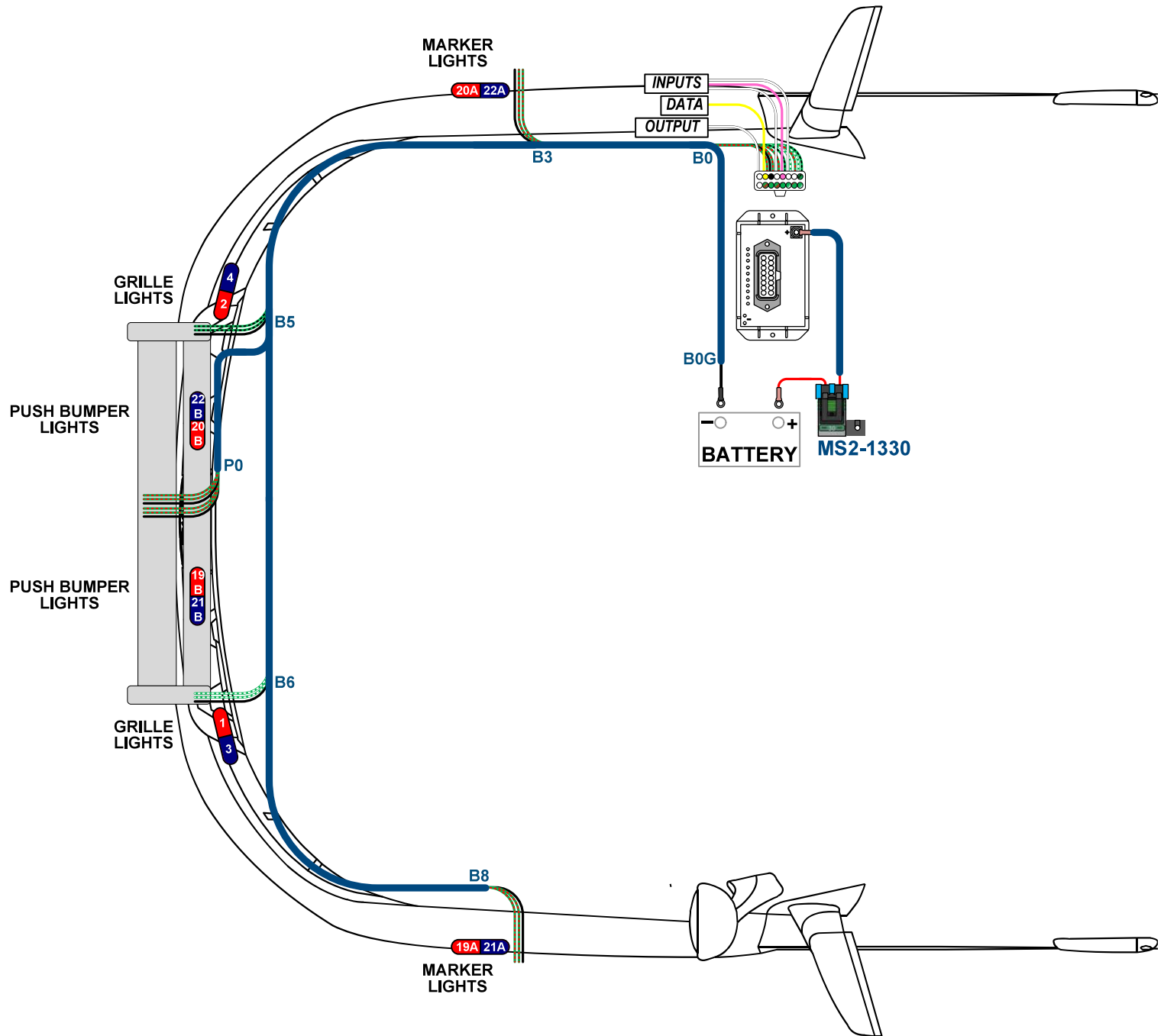
TAG LIGHTS

- 4 Output Wires from Remote Node
- 2 Grounds from Ground Assembly

TRUNK LIGHTS

- 1 Output Wire from Remote Node
- 2 Grounds from Ground Assembly

Note: Connectors shown in rear view.



FRONT LIGHTING:

GRILLE LIGHTS

- 18 Ga. GN/WH Driver Grille Light 1 "LT 1" from Node Pin 1
- 18 Ga. GN/WH Driver Grille Light 3 "LT 3" from Node Pin 3
- 18 Ga. BK Driver Grille Lights Ground "LT 1 GND" from Ground Assembly
- 18 Ga. GN/BK Pass. Grille Light 2 "LT 2" from Node Connector Pin 4
- 18 Ga. GN/BK Pass. Grille Light 4 "LT 4" from Node Connector Pin 9
- 18 Ga. BK Pass. Grille Lights Ground "LT 2 GND" from Ground Assembly

PUSH BUMPER LIGHTS

- 18 Ga. GN/RD Driver Marker Light 19B "LT 19B" from Node Pin 7 Assembly
- 18 Ga. GN/RD Driver Marker Light 21B "LT 21B" from Node Pin 2 Assembly
- 18 Ga. BK Driver Marker Lights Ground "LT 19B GND" from Ground Assembly
- 18 Ga. GN/RD Pass. Marker Light 20B "LT 20B" from Node Pin 5 Assembly
- 18 Ga. GN/RD Pass. Marker Light 22B "LT 22B" from Node Pin 6 Assembly
- 18 Ga. BK Pass. Marker Lights Ground "LT 20B GND" from Ground Assembly

MARKER LIGHTS

- 18 Ga. GN/RD Driver Marker Light 19A "LT 19A" from Node Pin 7 Assembly
- 18 Ga. GN/RD Driver Marker Light 21A "LT 21A" from Node Pin 2 Assembly
- 18 Ga. BK Driver Marker Lights Ground "LT 19A GND" from Ground Assembly
- 18 Ga. GN/RD Pass. Marker Light 20A "LT 20A" from Node Pin 5 Assembly
- 18 Ga. GN/RD Pass. Marker Light 22A "LT 22A" from Node Pin 6 Assembly
- 18 Ga. BK Pass. Marker Lights Ground "LT 20A GND" from Ground Assembly

REMOTE NODE DATA – 12" PIGTAIL

- 18 Ga. YW Data Wire "DATA" from Node Pin 15

INPUTS – 12" PIGTAILS

- 18 Ga. WH Input 2 "INPUT 2" to Node Pin 11
- 18 Ga. PK Input 3 "FOG INPUT" to Node Pin 12
- 18 Ga. WH Input 4 "INPUT 4" to Node Pin 13

SPARE OUTPUT – 12" PIGTAIL

- 18 Ga. WH Spare Output "OUTPUT 1" from Node Pin 16

PRODUCTS SHOWN ON LAYOUT:

Front Lighting Harness: MS-FN-06
Remote Node Power Cable: MS2-1330

TECHNICAL SUPPORT & SALES CONTACT:

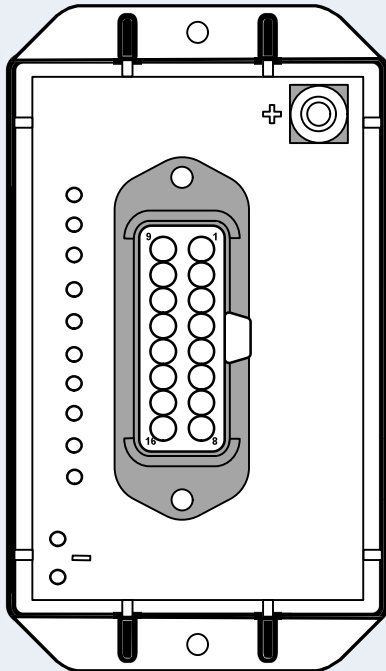
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

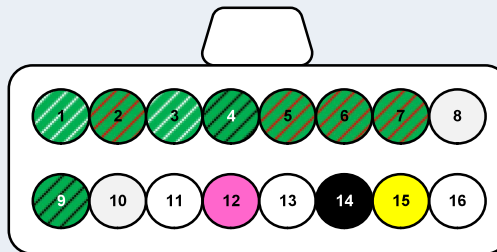
Web: www.allfleetsolutions.com

EDD 032526

ECN 000000



**REMOTE NODE
TORQUE SPEC AT
STUDS: 7 ft/lbs**



REMOTE NODE CONNECTOR

- Pin 1 Output 9 (10A) – 18 Ga. GN/WH Driver Grille Light 1 "LT 1"
- Pin 2 Output 8 (5A) – 18 Ga. GN/RD Driver Marker & PB Front Lights 21 "LTS 21"
- Pin 3 Output 7 (10A) – 18 Ga. GN/WH Driver Grille Light 3 "LT 3"
- Pin 4 Output 6 (5A) – 18 Ga. GN/BK Pass. Grille Light 2 "LT 2"
- Pin 5 Output 5 (5A) – 18 Ga. GN/RD Pass. Marker & PB Front Lights 20 "LTS 20"
- Pin 6 Output 4 (10A) – 18 Ga. GN/RD Pass. Marker & PB Front Lights 22 "LTS 22"
- Pin 7 Output 3 (5A) – 18 Ga. GN/RD Driver Marker & PB Front Lights 19 "LTS 19"
- Pin 8 Output 2 (10A) – *Not Used – Sealing Plug*
- Pin 9 Output 10 (10A) – 18 Ga. GN/BK Pass. Grille Light 4 "LT 4"
- Pin 10 Input 1 – *Not Used – Sealing Plug*
- Pin 11 Input 2 – 18 Ga. WH Input 2 "INPUT 2" - 12" Pigtail
- Pin 12 Input 3 – 18 Ga. PK Fog Light Input "FOG INPUT" - 12" Pigtail
- Pin 13 Input 4 – 18 Ga. WH Input 4 "INPUT 4" Pigtail 12"
- Pin 14 Main Ground – 14 Ga. BK Remote Node Ground "NODE GND"
- Pin 15 Data – 18 Ga. YW Data Wire "DATA" - 12" Pigtail
- Pin 16 Output 1 (5A) – 18 Ga. WH Spare Output Wire "OUTPUT 1" - 12" Pigtail



1/4" Ring

TO BATTERY TERMINAL

- Torque – 50 in/lbs
- 7/16" Socket

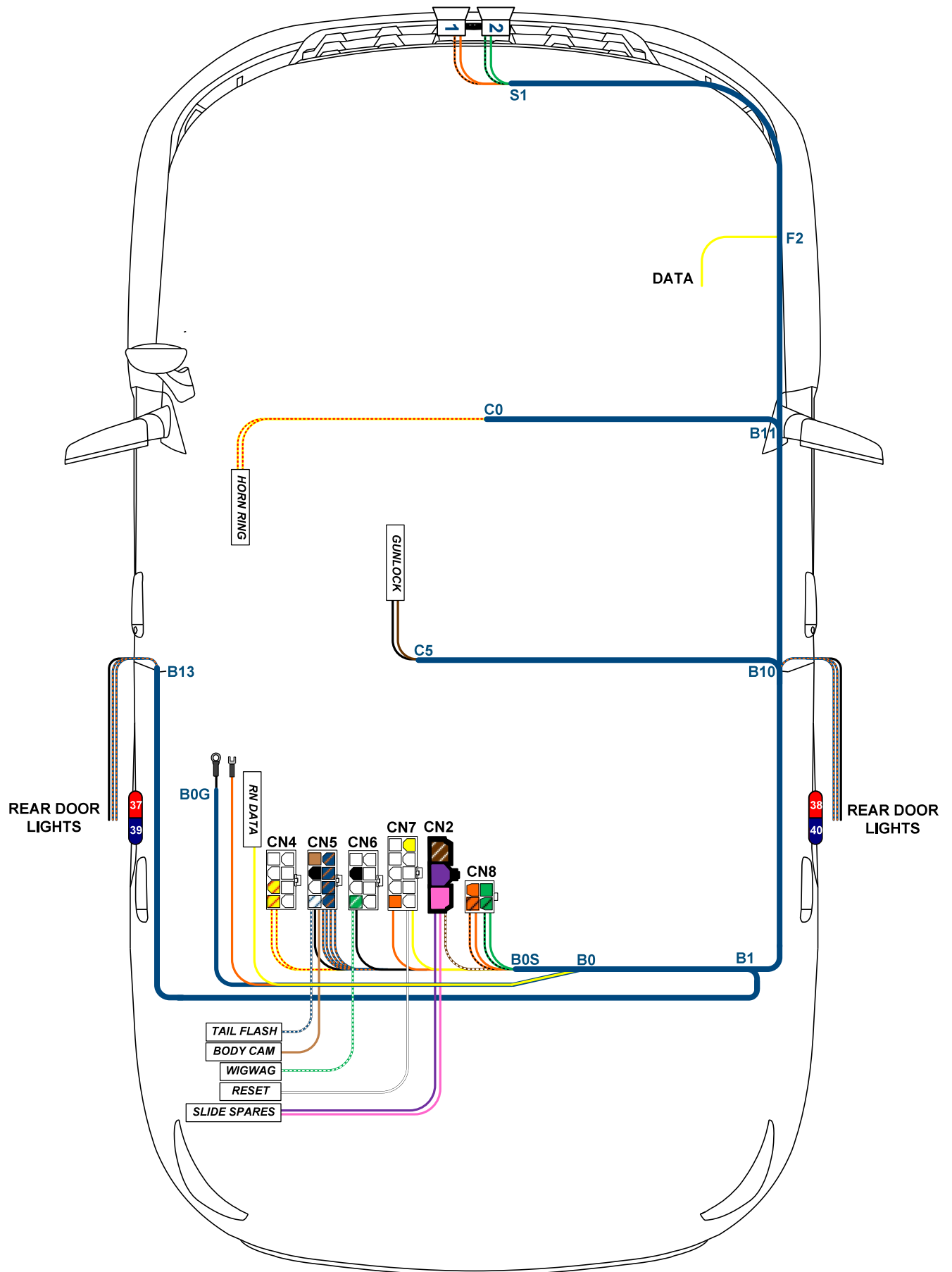
MS2-1330 Power Cable

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

5/16" Ring

TO REMOTE NODE STUD

- Torque – 7 ft/lbs
- 1/2" Socket



PRODUCTS SHOWN ON LAYOUT:

Main 500 Siren Harness: MS-SDS-500

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

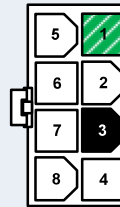
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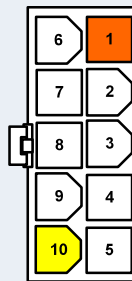
CN8 – SPEAKER OUTPUTS

- Pin 1 Speaker 1 (+) –: 16 Ga. OR/BK “SPEAKER 1”
- Pin 2 Speaker 1 (–) –: 16 Ga. OR “SPEAKER 1”
- Pin 3 Speaker 2 (+) –: 16 Ga. GN/BK “SPEAKER 2”
- Pin 4 Speaker 2 (–) –: 16 Ga. GN “SPEAKER 2”



CN6 – LOW CURRENT OUTPUTS

- Pin 1 Relay 1 Normally Open – 18 Ga. GN/WH “WIGWAG”
- Pin 2 Relay 1 Normally Closed –
- Pin 3 Relay 1 Input – 18 Ga. BK “RLY 1 GND”
- Pin 4 Output 5 –
- Pin 5 Output 1 –
- Pin 6 Output 2 –
- Pin 7 Output 3 –
- Pin 8 Output 4 –



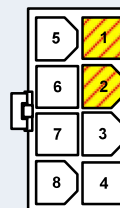
CN7 – INPUTS

- Pin 1 Ignition (3A) –: 18 Ga. OR “500 IGN”
- Pin 2 Input 1 –:
- Pin 3 Park Kill (+) –:
- Pin 4 Aux 1 (–) –:
- Pin 5 Horn Ring (–) –:
- Pin 6 Backlight (3A) –:
- Pin 7 Horn Ring (+) –:
- Pin 8 Park Kill (–) –:
- Pin 9 Reset (–) –: 18 Ga. WH “RESET”
- Pin 10 Node Data –: 18 Ga. YW “DATA”



CN5 – LOW CURRENT OUTPUTS

- Pin 1 Relay 2 Normally Open – 18 Ga. WH/BL “TAIL FLASH”
- Pin 2 Relay 2 Normally Closed –
- Pin 3 Relay 2 Input – 18 Ga. BK “RLY 2 GND”
- Pin 4 Output 10 – 18 Ga. TN “CAM TRG”
- Pin 5 Output 6 – 18 Ga. BL/OR “LT 37”
- Pin 6 Output 7 – 18 Ga. BL/OR “LT 38”
- Pin 7 Output 8 – 18 Ga. BL/OR “LT 39”
- Pin 8 Output 9 – 18 Ga. BL/OR “LT 40”



CN4 – LOW CURRENT OUTPUTS

- Pin 1 Horn Ring Output –: 16 Ga. YW/RD “HORN”
- Pin 2 Horn Ring Input –: 16 Ga. YW/RD “HORN RING”
- Pin 3 Light Bar Data –:
- Pin 4 Output 15 –:
- Pin 5 Output 11 (Diode) –:
- Pin 6 Output 12 (In-Rush) –:
- Pin 7 Output 13 (In-Rush) –:
- Pin 8 Output 14 –:



CN2 – RELAY/SLIDE

- Pin 1 Relay Slide 1 – 16 Ga. BR/WH “GUNLOCK”
- Pin 2 Relay Slide 2 – 16 Ga. PU “RS2”
- Pin 3 Relay Slide 3 – 16 Ga. PK “RS3”

FRONT COMPONENTS:

SPEAKERS

- 16 Ga. OR/BK Speaker 1 Positive “SPEAKER 1” from CN8 Pin 1
- 16 Ga. OR Speaker 1 Common “SPEAKER 1” from CN8 Pin 2
- 16 Ga. GN/BK Speaker 2 Positive “SPEAKER 2” from CN8 Pin 3
- 16 Ga. GN Speaker 2 Common “SPEAKER 2” from CN8 Pin 4

FRONT NODE DATA

- 18 Ga. YW Front Node Data “FN DATA” from CN7 Pin 10 Assembly

MID COMPONENTS:

GUNLOCK

- 16 Ga. BR/WH Gunlock Trigger “GUNLOCK” from CN2 Pin 1
- 16 Ga. BK Gunlock Ground “GUN GND” from Ground Assembly

HORN RING

- 16 Ga. YW/RD Horn Ring Input “HORN RING” to CN4 Pin 2
- 16 Ga. YW/RD Horn Ring Output “HORN” from CN4 Pin 1

REAR DOOR LIGHTS

- 18 Ga. BL/OR Driver Rear Door Light 37 “LT 37” from CN5 Pin 5
- 18 Ga. BL/OR Driver Rear Door Light 39 “LT 39” from CN5 Pin 7
- 18 Ga. BK Driver Rear Door Lights Ground “LT 37 GND” from Ground Assembly
- 18 Ga. BL/OR Pass. Rear Door Light “LT 38” from CN5 Pin 6
- 18 Ga. BL/OR Pass. Rear Door Light “LT 40” from CN5 Pin 8
- 18 Ga. BK Pass. Rear Door Lights Ground “LT 38 GND” from Ground Assembly

REAR COMPONENTS:

GROUND

- 12 Ga. BK Rear Ground Ring “MID GND” to Ground Assembly

SIREN IGNITION

- 18 Ga. OR 500 Siren Ignition “500 IGN” to CTF F9

REAR NODE DATA

- 18 Ga. YW Rear Node Data “RN DATA” from CN7 Pin 10 Assembly

TAIL LIGHT FLASH – 60" PIGTAIL

- 18 Ga. WH/BL Tail Light Flash “TL FLASH” from CN5 Pin 1

BODY CAMERA – 60" PIGTAIL

- 18 Ga. TN Body Camera Trigger “BODY CAM” from CN5 Pin 4

WIGWAG – 60" PIGTAIL

- 18 Ga. GN/WH WigWag Flash Trigger “WIGWAG” from CN6 Pin 1

RESET – 60" PIGTAIL

- 18 Ga. WH Reset Input “RESET” from CN7 Pin 9

RELAY SLIDE SPARES – 60" PIGTAILS

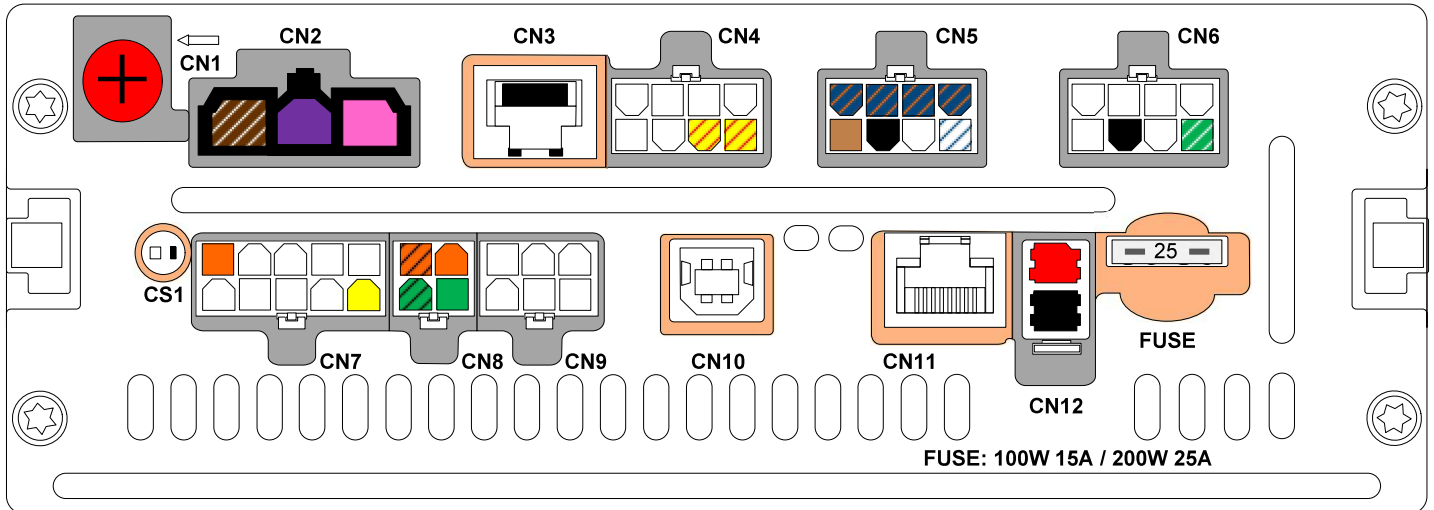
- 16 Ga. PU Relay Slide 2 Spare “RS2” from CN2 Pin 2
- 16 Ga. PK Relay Slide 3 Spare “RS3” from CN2 Pin 3

500 SERIES SIREN

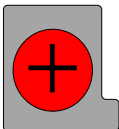
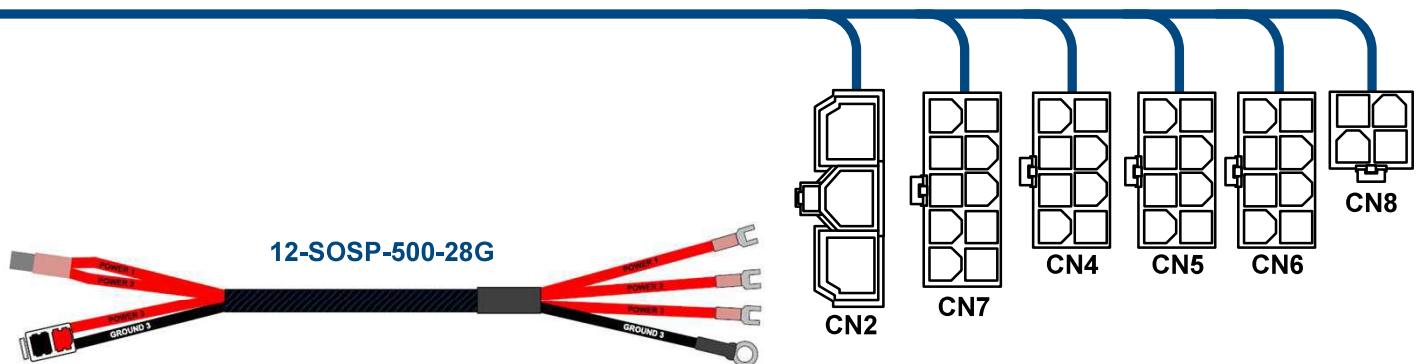
- See 500 Series Siren Layout for detailed information.

Note: Connectors shown in rear view.

Orange Highlights indicate
Customer Supplied Connectors

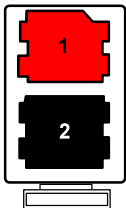


MS-SDS-500



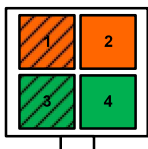
CN1 – MAIN POWER

- Pin 1 Power In (75A MAX) – 10 Ga. RD 500 Main Power (30A) "POWER 1" from 12-SOSP-500-28
- Pin 2 Power In (75A MAX) – 10 Ga. RD 500 Main Power (30A) "POWER 2" from 12-SOSP-500-28



CN12 – SIREN POWER

- Pin 1 Power In (25A) – 14 Ga. RD 500 Siren Power (25A) "POWER 3" from 12-SOSP-500-28
- Pin 2 Ground In – 14 Ga. BK 500 Siren Ground "GROUND 3" from 12-SOSP-500-28



CN8 – SPEAKER OUTPUTS

- Pin 1 Speaker 1 (+) – 16 Ga. OR/BK Speaker 1 Positive "SPEAKER 1"
- Pin 2 Speaker 1 (–) – 16 Ga. OR Speaker 1 Common "SPEAKER 1"
- Pin 3 Speaker 2 (+) – 16 Ga. GN/BK Speaker 2 Positive "SPEAKER 2"
- Pin 4 Speaker 2 (–) – 16 Ga. GN Speaker 2 Common "SPEAKER 2"

PRODUCTS SHOWN ON LAYOUT:

Main Speaker & Siren Harness: MS-SDS-500
500 Series Siren Power Cable: 12-SOSP-500-28G

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

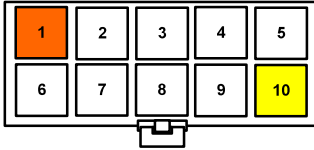
Email: sales@allfleetsolutions.com

Web: www.allfleetsolutions.com

EDD 032526

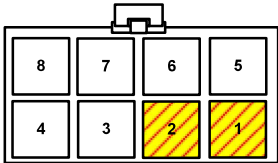
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CN7 – INPUTS



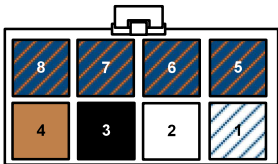
- Pin 1 Ignition (3A) —: 18 Ga. OR 500 Siren Ignition Sense (3A) "500 IGN" from CTF F9
- Pin 2 Input 1 —:
- Pin 3 Park Kill (+) —:
- Pin 4 Aux 1 (–) —:
- Pin 5 Horn Ring (–) —:
- Pin 6 Backlight (3A) —:
- Pin 7 Horn Ring (+) —:
- Pin 8 Park Kill (–) —:
- Pin 9 Reset (–) —: 18 Ga. WH Reset Sense "RESET" - 36" Pigtail
- Pin 10 Node Data —: 18 Ga. YW Remote Node Data "DATA" to Assembly

CN4 – LOW CURRENT OUTPUTS



- Pin 1 Horn Ring Output —: 16 Ga. YW/RD Horn Ring Output "HORN RING" to Console / Interface Area
- Pin 2 Horn Ring Input —: 16 Ga. YW/RD Horn Ring Input "HORN" from Console / Interface Area
- Pin 3 Light Bar Data —:
- Pin 4 Output 15 —:
- Pin 5 Output 11 (Diode) —:
- Pin 6 Output 12 (In-Rush) —:
- Pin 7 Output 13 (In-Rush) —:
- Pin 8 Output 14 —:

CN5 – LOW CURRENT OUTPUTS



- Pin 1 Relay 2 Normally Open —: 18 Ga. WH/BL Tail Light Flash Trigger "TL FLASH" - 36" Pigtail
- Pin 2 Relay 2 Normally Closed —:
- Pin 3 Relay 2 Input —: 18 Ga. BK Relay 2 Ground Input "RLY 2 GND" from Ground Assembly
- Pin 4 Output 10 —: 18 Ga. TN Body Camera Trigger "CAM TRG" - 36" Pigtail
- Pin 5 Output 6 (Diode) —: 18 Ga. BL/OR Driver Rear Door Light 37 "LT 37" to Driver Rear Door
- Pin 6 Output 7 (In-Rush) —: 18 Ga. BL/OR Pass. Rear Door Light 38 "LT 38" to Pass. Rear Door
- Pin 7 Output 8 (In-Rush) —: 18 Ga. BL/OR Driver Rear Door Light 39 "LT 39" to Driver Rear Door
- Pin 8 Output 9 —: 18 Ga. BL/OR Pass. Rear Door Light 40 "LT 40" to Pass. Rear Door

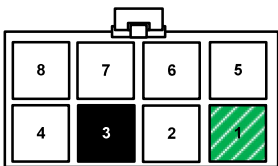
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38

39

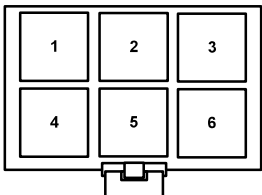
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CN6 – LOW CURRENT OUTPUTS



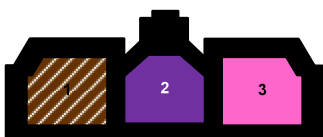
- Pin 1 Relay 1 Normally Open —: 18 Ga. GN/WH WigWag Flash Trigger "WIGWAG" - 36" Pigtail
- Pin 2 Relay 1 Normally Closed —:
- Pin 3 Relay 1 Input —: 18 Ga. BK Relay 1 Ground Input "RLY 1 GND" from Ground Assembly
- Pin 4 Output 5 —:
- Pin 5 Output 1 (Diode) —:
- Pin 6 Output 2 (In-Rush) —:
- Pin 7 Output 3 (In-Rush) —:
- Pin 8 Output 4 —:

CN9 – CAN/REBROADCAST



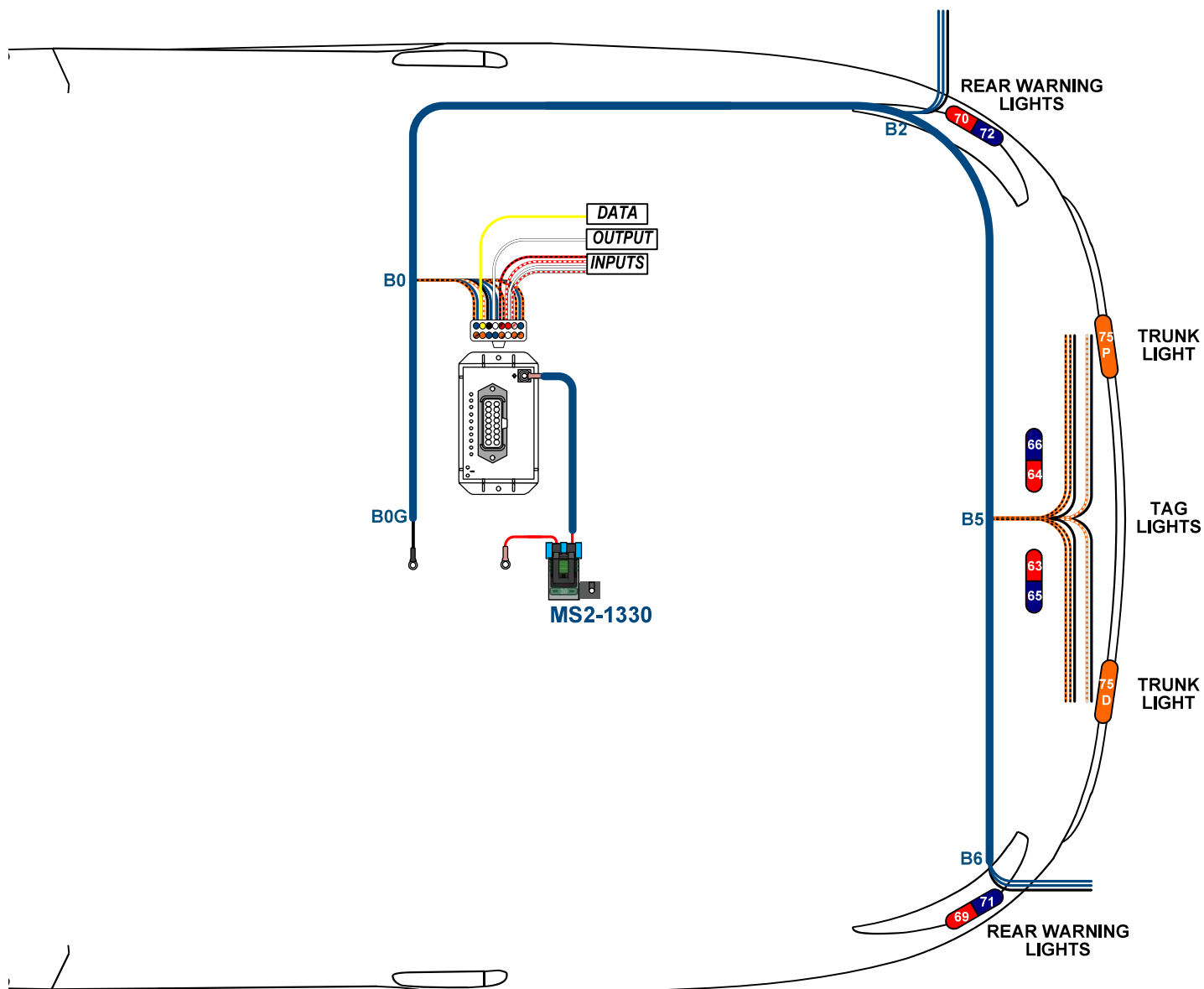
- Pin 1 N/A
- Pin 2 CAN A (+) —:
- Pin 3 Radio Rebroadcast 1 —:
- Pin 4 CAN Shield —:
- Pin 5 CAN A (–) —:
- Pin 6 Radio Rebroadcast 2 —:

CN2 – RELAY/SLIDE



- Pin 1 Relay Slide 1 —: 16 Ga. BR/WH Gunlock Trigger "GUNLOCK" to Rear Console Area
- Pin 2 Relay Slide 2 —: 16 Ga. PU CN2 Spare Slide Switch "RS2" - 36" Pigtail
- Pin 3 Relay Slide 3 —: 16 Ga. PK CN2 Spare Slide Switch "RS3" - 36" Pigtail

Note: Connectors shown in rear view.



PRODUCTS SHOWN ON LAYOUT:

Rear Lighting Harness: MS-RN-RL6
Remote Node Power Cable: MS2-1330

TECHNICAL SUPPORT & SALES CONTACT:

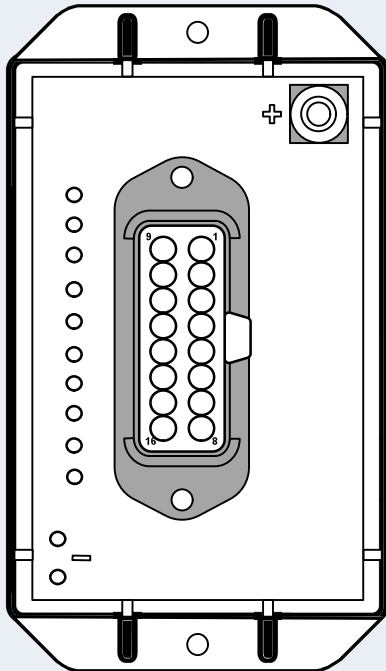
Phone: 844-423-7200

Email: sales@allfleetsolutions.com

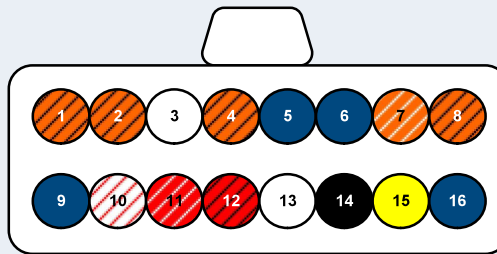
Web: www.allfleetsolutions.com

EDD 073126

ECN 000000

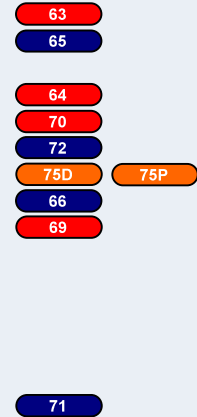


REMOTE NODE
TORQUE SPEC AT
STUDS: 7 ft/lbs



REMOTE NODE CONNECTOR

- Pin 1 Output 9 (10A) – 18 Ga. OR/BK Driver Tag Light 63 "LT 63"
- Pin 2 Output 8 (5A) – 18 Ga. OR/BK Driver Tag Light 65 "LT 65"
- Pin 3 Output 7 (10A) – 18 Ga. WH Spare Output 7 "OUTPUT 7" - 60" Pigtail
- Pin 4 Output 6 (5A) – 18 Ga. OR/BK Pass. Tag Light 64 "LT 64"
- Pin 5 Output 5 (5A) – 18 Ga. BL Pass. Rear Warning Light 70 "LT 70"
- Pin 6 Output 4 (10A) – 18 Ga. BL Pass. Rear Warning Light 72 "LT 72"
- Pin 7 Output 3 (5A) – 18 Ga. OR/WH Driver & Pass. Trunk Lights 75 "LTS 75"
- Pin 8 Output 2 (10A) – 18 Ga. OR/BK Pass. Tag Light 66 "LT 66"
- Pin 9 Output 10 (10A) – 18 Ga. BL Driver Rear Warning Light 69 "LT 69"
- Pin 10 Input 1 – 18 Ga. WH/RD Parking Lights Input "PARK LTS" - 60" Pigtail
- Pin 11 Input 2 – 18 Ga. RD/WH Reverse Lights Input "REVERSE" - 60" Pigtail
- Pin 12 Input 3 – 18 Ga. RD/BK Brake Lights Input "BRAKE" - 60" Pigtail
- Pin 13 Input 4 – 18 Ga. WH Input 4 "INPUT 4" - 60" Pigtail
- Pin 14 Main Ground – 14 Ga. BK Remote Node Ground "NODE GND"
- Pin 15 Data – 18 Ga. YW Data Wire "DATA" - 60" Pigtail
- Pin 16 Output 1 (5A) – 18 Ga. BL Driver Rear Warning Light 71 "LT 71"



REAR LIGHTING:

REMOTE NODE DATA – 36" PIGTAIL

- 18 Ga. YW Data Wire "DATA" from Node Pin 15

INPUTS – 36" PIGTAILS

- 18 Ga. WH/RD Input 1 "PARK LTS" from Node Pin 10
- 18 Ga. RD/WH Input 2 "REVERSE" from Node Pin 11
- 18 Ga. RD/BK Input 3 "BRAKE" from Node Pin 12
- 18 Ga. WH Input 4 "INPUT 4" from Node Pin 13

SPARE OUTPUT – 36" PIGTAIL

- 18 Ga. WH Spare Output 7 "OUTPUT 7" from Node Pin 3

REAR WARNING LIGHTS

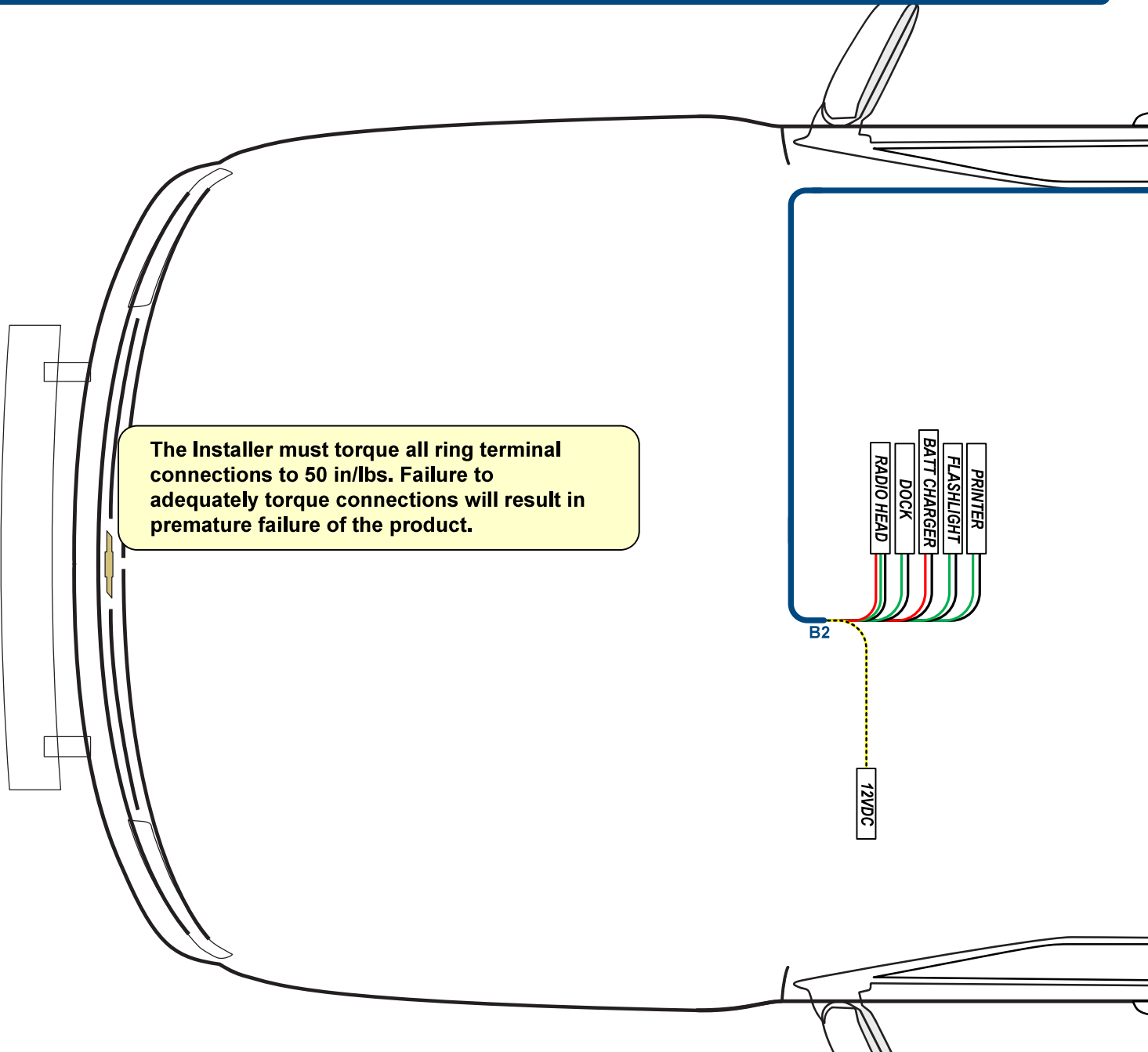
- 18 Ga. BL Driver Rear Warning Light 69 "LT 69" from Node Pin 9
- 18 Ga. BL Driver Rear Warning Light 71 "LT 71" from Node Pin 16
- 18 Ga. BK Driver Rear Warning Lights Ground "LT 69 GND" from Ground Assembly
- 18 Ga. BL Pass. Rear Warning Light 70 "LT 70" from Node Pin 5
- 18 Ga. BL Pass. Rear Warning Light 72 "LT 72" from Node Pin 6
- 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 Node Pin 1
- 18 Ga. OR/BK Driver Tag Light 65 "LT 65" from Node Pin 2
- 18 Ga. BK Driver Tag Lights Ground "LT 63 GND" from Ground Assembly
- 18 Ga. OR/BK Pass. Tag Light 64 "LT 64" from Node Pin 4
- 18 Ga. OR/BK Pass. Tag Light 66 "LT 66" from Node Pin 8
- 18 Ga. BK Pass. Tag Lights Ground "LT 64 GND" from Ground Assembly

TRUNK LIGHTS

- 18 Ga. OR/WH Driver Trunk Light 75D "LT 75D" from Node Pin 7 Assembly
- 18 Ga. BK Driver Trunk Light Ground "LT 75D GND" from Ground Assembly
- 18 Ga. OR/WH Pass. Trunk Light 75P "LT 75P" from Node Pin 7 Assembly
- 18 Ga. BK Pass. Trunk Light Ground "LT 75P GND" from Ground Assembly



CONSOLE POWER CIRCUITS:

12VDC IGNITION

- 18 Ga. YW/BK 12VDC Ignition Sense (2A) "12V IGN" to CTF IGN Input

RADIO HEAD

- 10 Ga. RD Radio Head Power (30A) "RDO HD PWR" to CTF F4
- 10 Ga. GN Radio Head Timed (20A) "RDO HD TMD" to CTF F13
- 10 Ga. BK Radio Head Ground "RDO HD GND" to Ground Assembly

DOCK

- 14 Ga. GN Dock Timed (15A) "DOCK TMD" to CTF F14
- 14 Ga. BK Dock Ground "DOCK GND" to Ground Assembly

BATTERY CHARGER

- 18 Ga. RD Battery Charger Power (5A) "CHARGR PWR" to CTF F6
- 18 Ga. BK Battery Charger Ground "CHARGR GND" to Ground Assembly

FLASHLIGHT

- 18 Ga. GN Flashlight Timed (5A) "FLH LT TMD" to CTF F15
- 18 Ga. BK Flashlight Ground "FLH LT GND" to Ground Assembly

PRINTER

- 16 Ga. GN Printer Timed (7.5A) "PRINT TMD" to CTF F16
- 16 Ga. BK Printer Ground "PRINT GND" to Ground Assembly

PRODUCTS SHOWN ON LAYOUT:

Fuse Panel: CTF-B8i4T4G

Fuse Panel Output Harness: PHG-B3T4

Battery Cable: 00-1402-MB

SoundOff 500 Siren Power Cable: 12-SOSP-500-28G

TECHNICAL SUPPORT & SALES CONTACT:

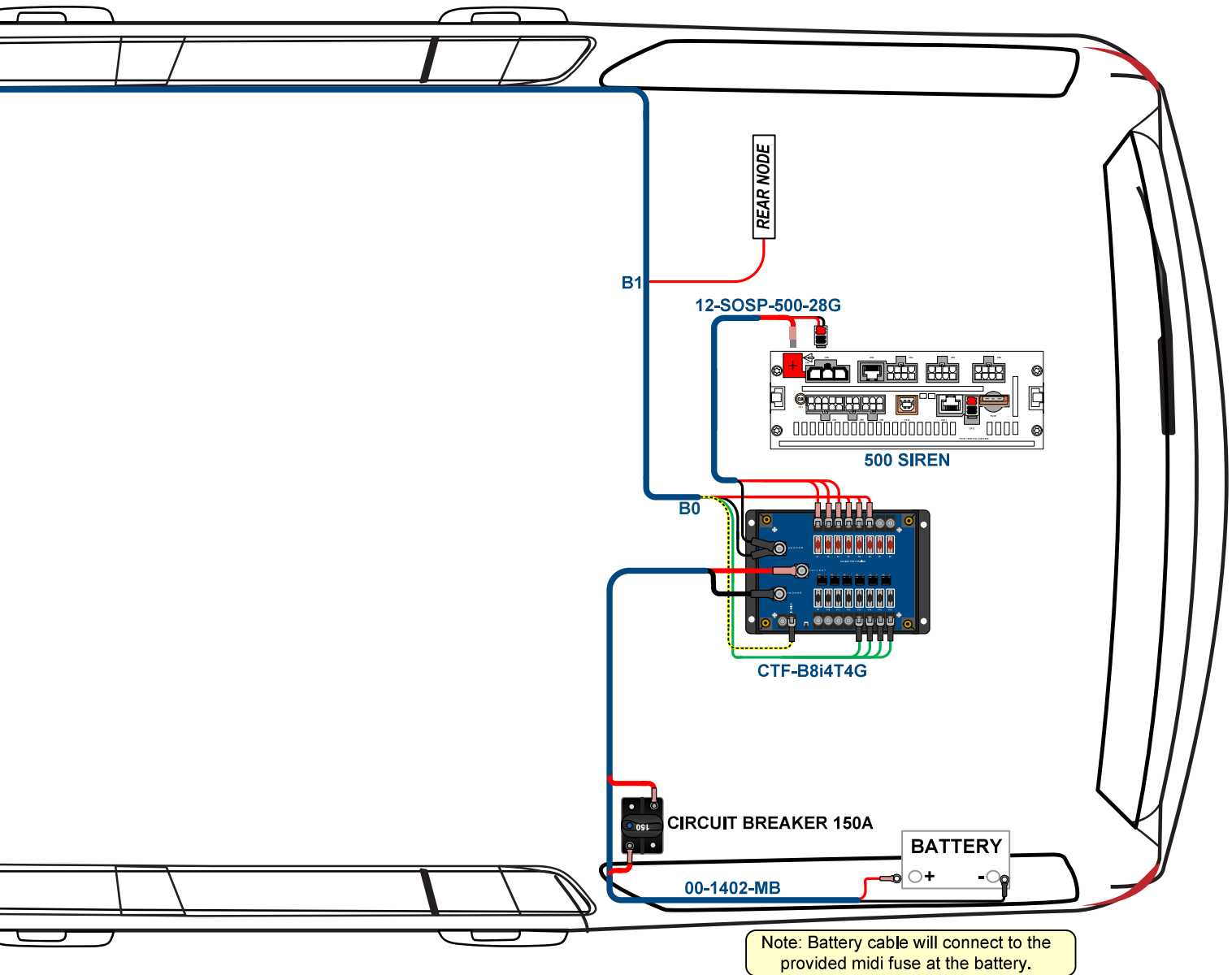
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Web: www.allfleetsolutions.com

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REAR POWER CIRCUITS:

REAR REMOTE NODE

- 10 Ga. RD Rear Node Power (30A) "RN PWR" from CTF F5

CTF FUSE PANEL

- See CTF-B8i4T4G Instructions

12-SOSP-500-28G

- 28" Power Cable for SoundOff 500 Series Siren Module

BATTERY CABLE:

00-1402-MB

- 6 Ga. RD Power
- 6 Ga. BK Ground
- 150 Amp Circuit Breaker

Amp Rating: 125A Maximum Total Load

- The eight Battery Hot fuses, F1 to F8, are rated at 30A per terminal, 100A combined load, MINI fuses.
- The four Ignition Hot fuses, F9 to F12 are rated at 30A per terminal, 60A max total load.
- The four Timed Hot fuses, F13 to F16 are rated at, 30A per terminal, 60A max total load.

Ground Studs:

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

Reset Pin RST:

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

Timed Circuits:

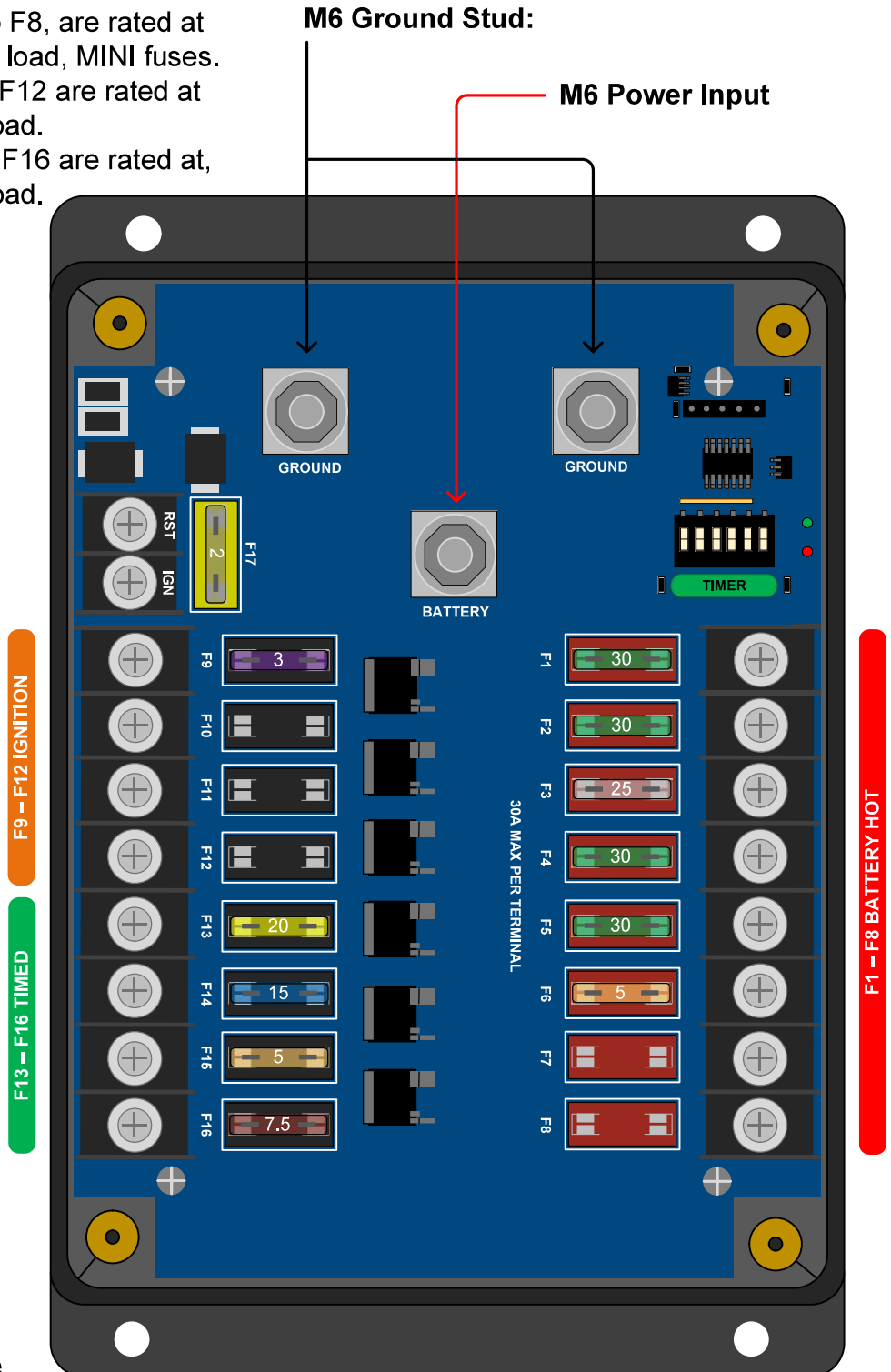
- Ignition input pin activates the timer card.
- DIP switches 1-4 control the timed interval.
- DIP switch 5 controls the Ignition Optional feature.
- DIP switch 6 controls the Low Voltage Disconnect.

Red LED Fault Status:

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

Green LED Timer Status:

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



**Do Not Exceed Torque Setting
Damage Will Occur!**

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

The CTF-B8i4T4G Fuse Panel provides 8 Battery Hot, 4 Ignition Hot, and 4 Timed Hot circuits with a two stud Ground Bus. The compact enclosure allows for installation in center consoles and electronic trays. The CTF Series Timers include the same full feature program as the Power Series Timers including: Low Voltage Disconnect, Timed Intervals, Infinite Mode Operation, and diagnostic LED status indicators. The Timer can be activated by a momentary input allowing instant activation of two-way radios even when the vehicle is off.

12VDC Ignition Input

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

Battery Hot Circuits: 30 Amps Max Per Fuse

Fuse 1: 10 Ga. RD 500 Main Power (30A) "POWER 1" to 500 Siren CN1

Fuse 2: 10 Ga. RD 500 Main Power (30A) "POWER 2" to 500 Siren CN1

Fuse 3: 12 Ga. RD 500 Siren Power (25A) "POWER 3" to 500 Siren CN12

Fuse 4: 10 Ga. RD Radio Head Power (30A) "RDO HD PWR" to Console

Fuse 5: 10 Ga. RD Rear Remote Node Power (30A) "RN PWR" to Rear Tray Area

Fuse 6: 18 Ga. RD Battery Charger Power (5A) "CHARGR PWR" to Console

Fuse 7:

Fuse 8:

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

Fuse 9: 18 Ga. OR 500 Siren Ignition (3A) "500 IGN" to CN7 Pin 1

Fuse 10:

Fuse 11:

Fuse 12:

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

Fuse 13: 10 Ga. GN Radio Head Timed (20A) "RDO HD TMD" to Console

Fuse 14: 14 Ga. GN Dock Station Timed (15A) "DOCK TMD" to Console

Fuse 15: 18 Ga. GN Flashlight Timed (5A) "FLH LT TMD" to Console

Fuse 16: 16 Ga. GN Printer Timed (7.5A) "PRINT TMD" to Console

Mating Terminals for the CTF-B8i4T4G:

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

TECHNICAL SUPPORT & SALES CONTACT:

Phone: 844-423-7200

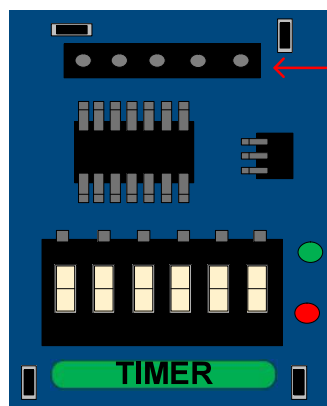
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Note: Timer is integrated onto the fuse panel, the illustration is for reference use.



Six-Position DIP Switch

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

Programming Header

Green LED Timer Status

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

Red LED Fault Status

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

Low Voltage Disconnect

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

Overvoltage Protection

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

Infinite Mode

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

Ignition Override

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

Loose Connections

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

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
Standby 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 motherboard. 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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Web: www.allfleetsolutions.com

CTF-B8i4T4G Configuration:

The CTF-B8i4T4G Fuse Panel provides 8 Battery Hot, 4 Ignition Hot, and 4 Timed Hot circuits with a two stud Ground Bus. The compact enclosure allows for installation in center consoles and electronic trays. The CTF Series Timers include the same full feature program as the Power Series Timers including: Low Voltage Disconnect, Timed Intervals, Infinite Mode Operation, and diagnostic LED status indicators. The Timer can be activated by a momentary input allowing instant activation of two-way radios even when the vehicle is off.

Amp Rating by Zone

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

Battery Hot Circuits:

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

Ignition Hot Circuits:

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

Timed Circuits:

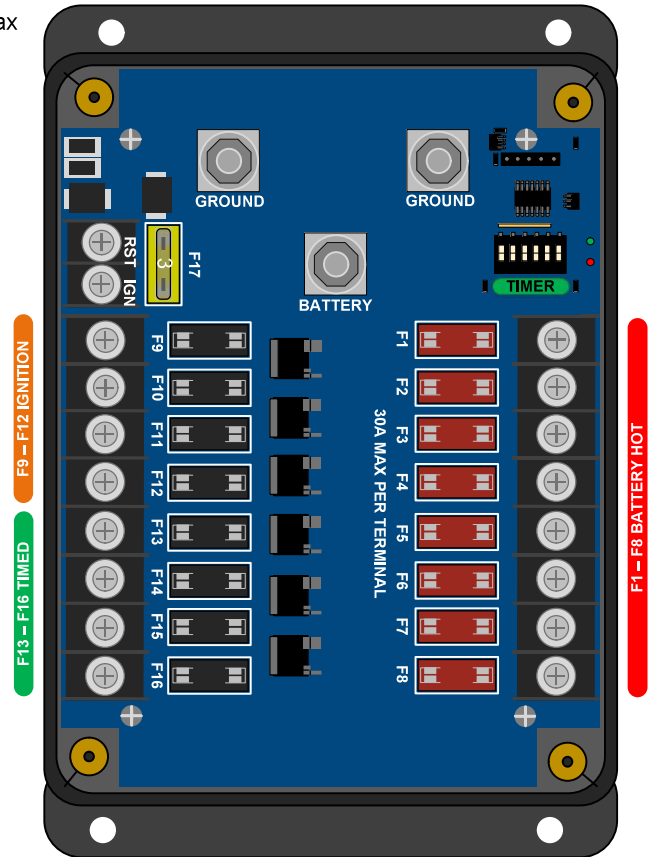
- 4 Timed circuits are provided.
- The IG input pin activates the timer card.
- Black DIP switches 1-4 control the timed interval.
- Black DIP switch 5 controls the Ignition Optional feature.
- Black DIP switch 6 controls the Low Voltage Disconnect.

Reset Pin RST:

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

Ignition Input Pin IGN:

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



Torque Specification:

M6 inputs 50 in/lb.

#6 Screw 15 in/lb.

Do not exceed torque specification as damage will occur.

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

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

00-1402-MB
6 Ga. Power Cable for Chevrolet Tahoe
with 150 Amp Circuit Breaker at Mid Mounting Location

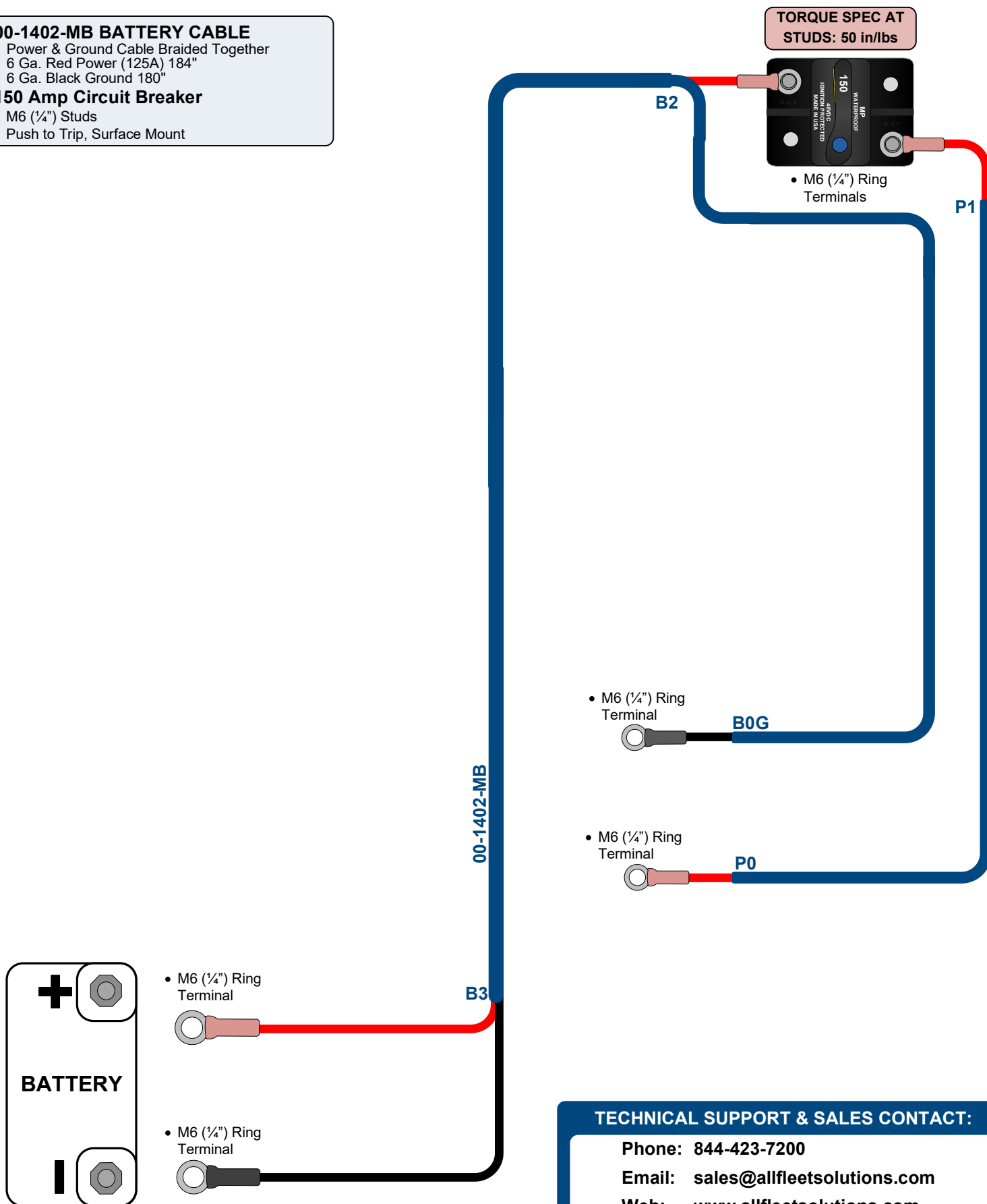
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00-1402-MB BATTERY CABLE

- Power & Ground Cable Braided Together
- 6 Ga. Red Power (125A) 184"
- 6 Ga. Black Ground 180"

150 Amp Circuit Breaker

- M6 (1/4") Studs
- Push to Trip, Surface Mount



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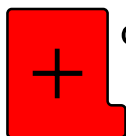
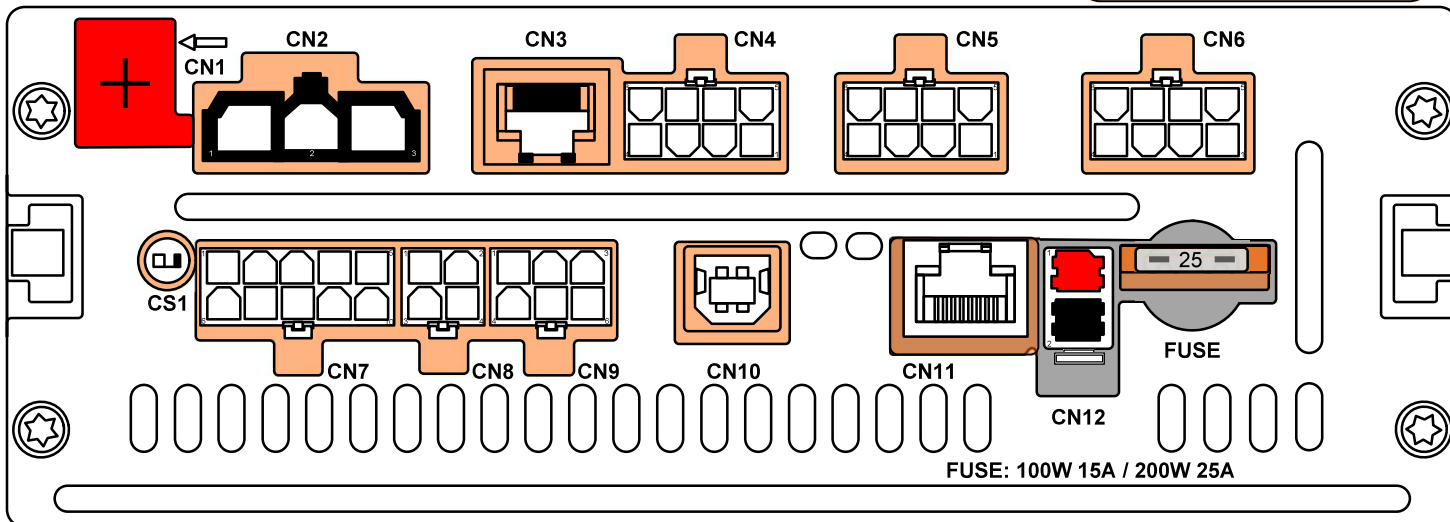
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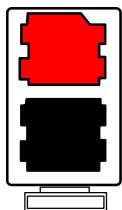
Note: Connectors shown in rear view.

Orange Highlights indicate
Customer Supplied Connectors



CN1 – MAIN POWER

- Pin 1 Power In (75A MAX)
 - 10 Ga. RD 500 Main Power (30A) "POWER 1"
 - 10 Ga. RD 500 Main Power (30A) "POWER 2"



CN12 – SIREN POWER

- Pin 1 Power In (25A) – 12 Ga. RD 500 Siren Amp Power "POWER 3"
- Pin 2 Ground In – 12 Ga. BK 500 Siren Amp Ground "GROUND 3"



Connect To
Ground Stud

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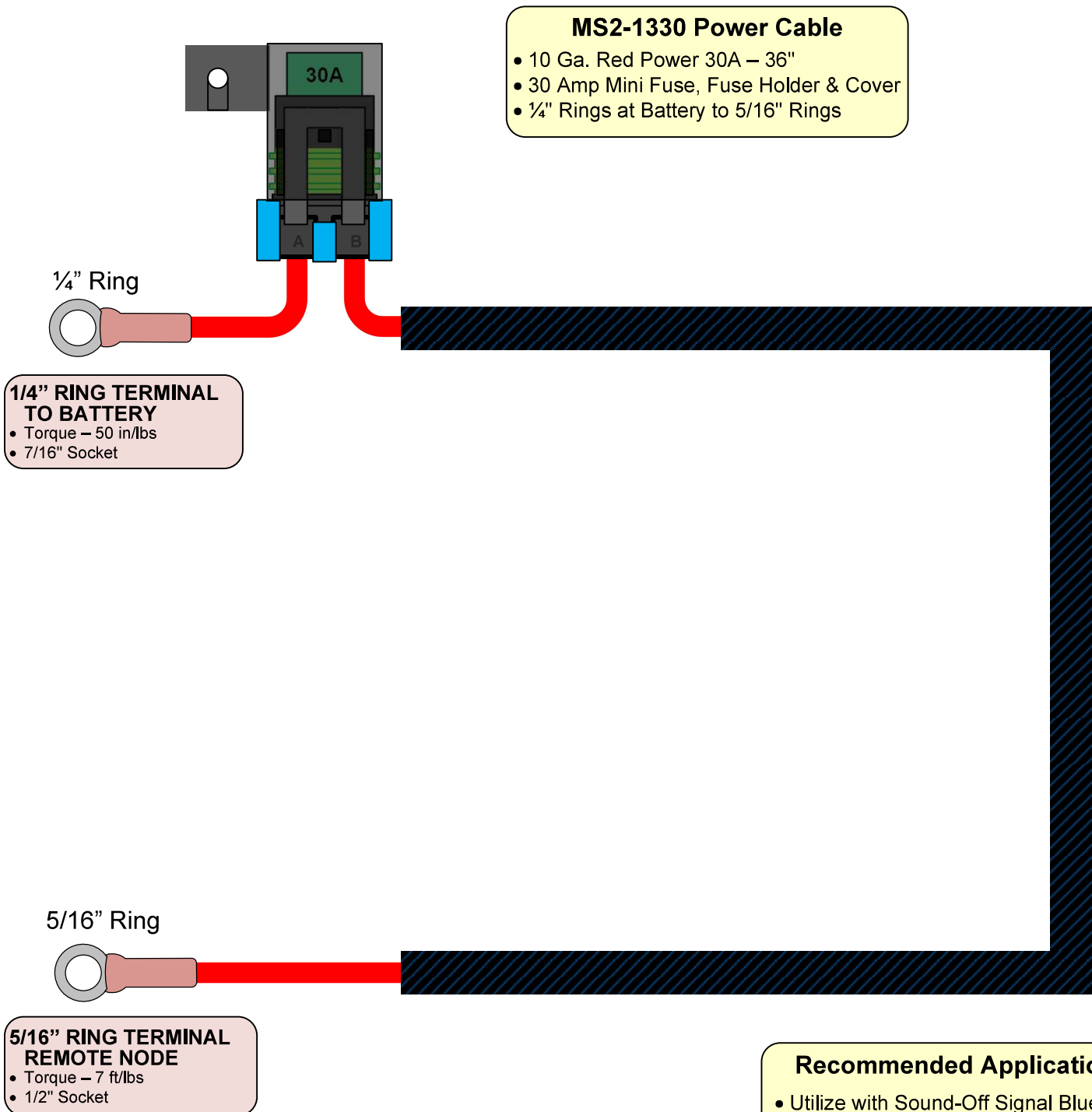
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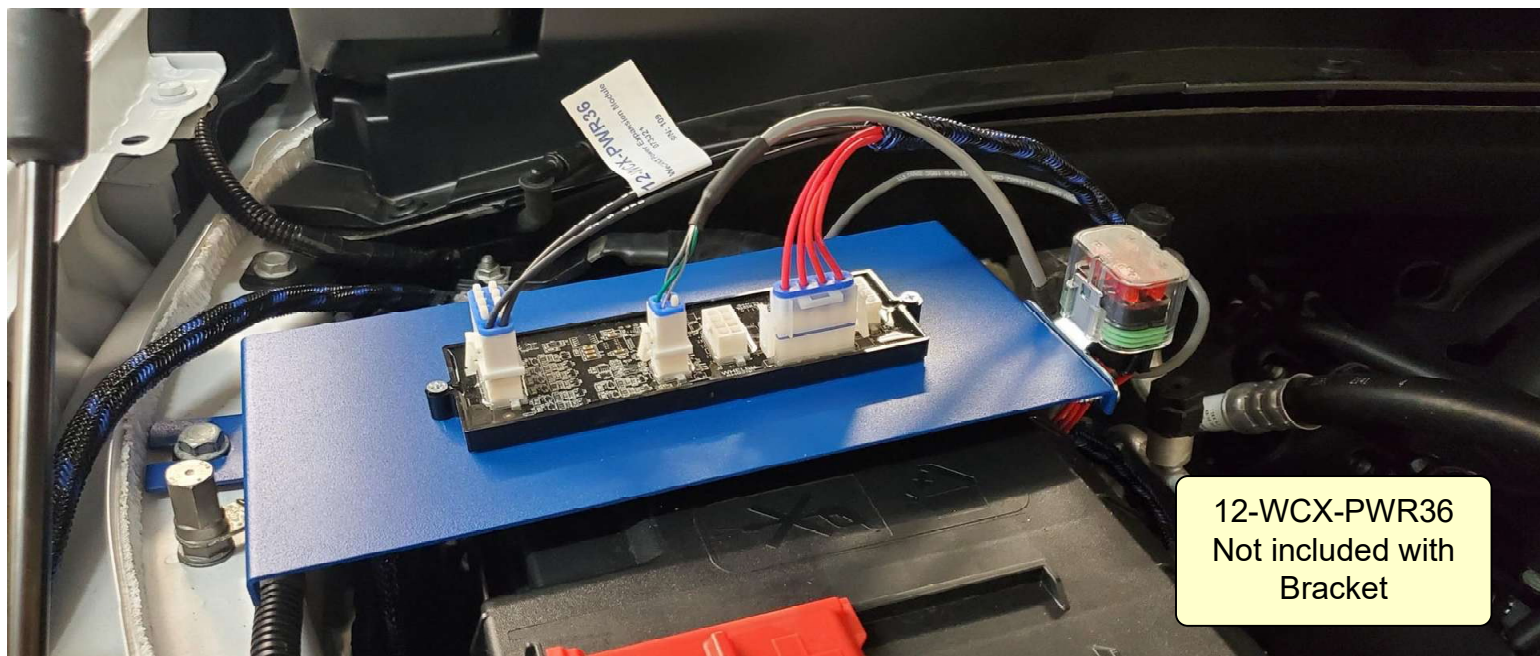
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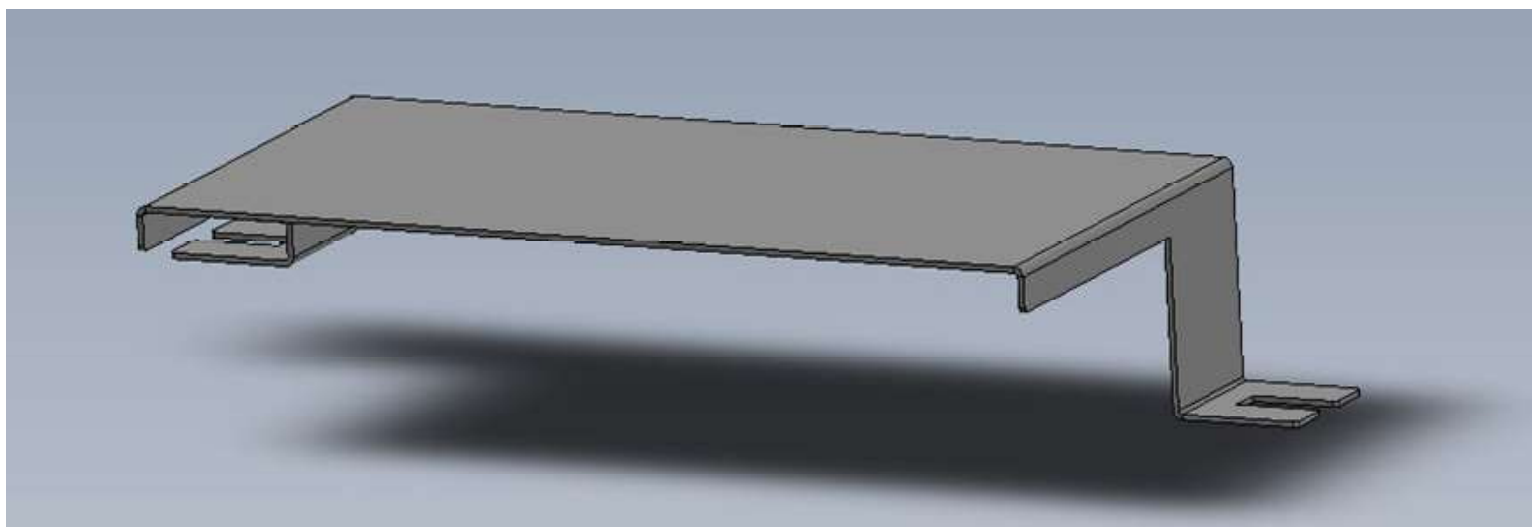
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ECN 000000



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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