

NEW BUILD SHEET - TYPE I-EHD FREIGHTLINER M2-106 DIESEL

- 239 The chassis model year shall be: 2023
- 240
- 241 The chassis engine shall be a DIESEL - powered engine.
- 242 (1) The cab for the chassis will be ordered "**standard OEM white**" from the chassis manufacturer.
- 252 (1) The chassis will be SUPPLIED BY EXCELLANCE.
- 253 **Note: Excellence is entitled to OEM concessions on any chassis supplied by Excellence.**
- 318 **EXTRA HEAVY DUTY CHASSIS**
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- 321 (1) **EHD I - 96" x 166" box CA =** 104"
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- 325 **Specify model of EHD chassis here:** FREIGHTLINER M2-106
- 326 Model year: 2023
- 327 Engine type: TBD
- 328 Horsepower: TBD
- 329 Transmission Type: TBD
- 330 C.A. dimension: 104"
- 335
- 347 The vehicle will be ready for delivery w/ electrical diagrams, cleaned, inspected, fuel tanks full,
- 348 vehicle serviced, certified weight ticket, and copies of all warranties and owners manuals.
- 349 Air tanks installed by Excellence will have manual moisture relief valves.
- 352 (1) * Freightliner Chassis service manual: [accessfreightliner.com](https://access.freightliner.com)
- 353 Under TOOLS & SERVICES click on "Freighliner Body Builder".
- 354 Call Excellence "Purchasing department" for password to access.
- 442 **CUSTOMER NOTES / SPECIAL REQUESTS**
- 443 **** Install an engraved aluminum plate with "EXCELLANCE", Unit #, and date of manufacture**
- 444 **on the inside door panel of the L4 compartment. Place either above or below the**
- 445 **standard label. (CAAS Req.)**
- 446 **** Install an engraved aluminum plate in the cab with the maximum height capacity. (CAAS Req.)**
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- 453 **CHASSIS: TIRE / WHEEL**
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- 455 **OEM Steel-belted All-Weather Radial tires per chassis specifications**
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- 457 (1) * There is no spare tire for this ambulance chassis.
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- 475 (1) * Hub and Lug Nut Covers: Chrome baby moon hub covers for front wheels and
- 476 chrome high hat hub covers for rear wheels with chrome covers for all lug nuts.
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- 552 **CHASSIS: EXTERIOR**
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- 607 (1) * **Mud Flaps, 2 Rear**
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- 625 **CHASSIS: INTERIOR CAB**
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- 639 (1) Freightliner: gray interior cab color is the only choice available.
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- 641 (1) **Cab floorboard to have rubber matting**
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- 660 **CHASSIS ELECTRICAL SYSTEM: STANDARD SPECIFICATIONS**
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- 662 (1) **OEM auto-throttle, with on/off switch - EHD units only**

663 Module disconnect power switch
668 OEM alternator(s) with internal regulator
671 Back-up alarm, reverse activated
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687 **CHASSIS ELECTRICAL SYSTEM: INTERIOR CAB**
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690 (1) Floor mounted console on Type I and EHD units
700 (1) Map Light, Flex-head Littlelite with red lens (12" shaft) located on front console
708 (1) Volt Meter with Dual USB port installed on console switch panel.
710
719 (1) * Ignition security system, anti-theft device, Kussmaul Safety Lock 3 (CAAS Req.)
724 (1) * Pro-Vision TV-205 rear camera system with 5" LCD flat screen
725 monitor on the cab console. (CAAS Req.)
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746 **MODULAR BODY: STANDARD SPECIFICATIONS**
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748 All aluminum modular ambulance body with 1/4-inch thick aluminum corner extrusions
751 (1) Module headroom shall be 72 inches for this unit.
753 All aluminum framework with special anti-corrosion barrier applied to all fasteners, hinges, and components
754 Aluminum exterior skin shall be .125" thick, attached by continuous welds at all seams and corners
755 Aluminum exterior roof skin shall be .125" thick aluminum
757 3/4-inch thick composite floor with .063" aluminum subfloor insulated with Polystyrene foam planking
758 Install .125" thick Aluminum overlay to the top of the Coosa Board floor
762 3 module entry doors and all exterior compartment doors insulated with 2" Styrofoam planking
763 (1) Left rear door shall close with an automatic "slam latch"
764 2 key locking module entry door handles all keyed alike
765 (1) Curbside entry door equipped with gas shock and nylon restraint strap to reduce opening and closing force
769 Number of grabber / hold-open devices with gaskets: 2
770 Polished extruded aluminum drip rails over all module entry doors and exterior compartment doors
776 1 set aluminum diamondplate stone guards for front of unit
778 1 set diamondplate rub rails with aluminum tubular support & plastic spacers off body
779 2 aluminum wheelwells
780 (1) 1 set polished cast aluminum module fenderettes
783 1 diamondplate rear kick panel
786 (1) 10 body mounting 5/8" diameter Grade 8 bolts w/ heavy duty wear point spacers & outrigger supports
788 1 custom-made aluminum diamondplate rear bumper with the following features:
789

angled	rear corners
folding	step built into bumper
1	dock bumper(s) each side of bumper

792 All windows installed in the patient compartment come with "privacy glass"
793 Fixed window for each rear entry door. Specify size: 12" x 36"
795 (1) Fixed curbside entry door window. Specify size: 18" x 24"
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830 (1) * EHD Type I: Replace walk-thru feature with pass-thru sliding window and
831 a cabinet with a hinged door below the pass-thru window
832 (1) * Modify roof structure to add additional tubing allowing module ceiling to be a flat
833 surface. Center trough pad will be replaced with a painted cover panel. The roof
834 of the module will be double insulated.
835 (1) * Modify L4 compartment into an upper and lower compartment. The Upper L4/1
836 compartment will house the HVAC system facing forward with lines being routed
837 around the front of the module to be ducted through the ceiling and at the front bulkhead.
838 (1) * Cabinet B and Cabinet D above the CPR seat shall be angled.
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870 **CAB / MODULE PAINT AND LETTERING: STANDARD SPECIFICATIONS**
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874 (1) * DELETION CREDIT: Do not paint the 4 outer wheels
875 Include one touch up paint kit for each color used
880 (1) * DELETION CREDIT: Delete Federal ambulance markings
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884 The cab for the chassis will be ordered and painted standard OEM white.
 885 (1) The module shall be painted the same color to match the chassis.
 898 (1) * Metallic paint will not be used anywhere on this unit.

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 912 **BELTLINE**

914 (1) * DELETE standard 11" reflective beltline stripe

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 960 **PINSTRIP**

964 (1) * DELETION: No pinstripe tape AND no painted beltline to be applied by factory

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 1031 **LETTERING**

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 1033 (1) Excellence supplied/installed lettering is not included but can be provided

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 1053 **EXTERIOR COMPARTMENTS: STANDARD SPECIFICATIONS**

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 1055 All exterior compartment doors insulated with 2" styrofoam
 1056 206 latch w/ key locking stainless steel 9000 series D-ring handles with gaskets (where possible)
 1058 (1) Doors equipped with gas shocks to reduce opening and closing force
 1065 Machine louvered or plastic venting, as needed, in all exterior compartments

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 1088 **EXTERIOR COMPARTMENTS:**

1089 All aluminum unistruts to be welded into exterior compartments (no screws or rivets)
 1090 * Oxygen tank(s) shall be located in compartment L4 (Streetside Forward)

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 1092 **Compartment L1: (Streetside Rear)**

1093 (1) Tall L1 version - standard for 146" & 166" modules
 1094 (1) * Backboard storage in L1 will have 2 adjustable vertical dividers

Type of shelves in L1:	Quantity	Thickness of aluminum
Adjustable shelves with unistrut	3	0.125"
Fixed shelves	0	0.125"

1100 (1) Inside / Outside access with interior cabinet door
 1106 (1) One standard LED light in compartment - to be door activated

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 1128 **Compartment L3/1: (Outside electrical compartment for power distribution panel)**

1135 (1) One standard LED light in compartment - to be door activated

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 1145 **Compartment L3/2: (Streetside Intermediate)**

Type of shelves in L3/2:	Quantity	Thickness of aluminum
Adjustable shelves with unistrut	1	0.125"
Fixed shelves	0	0.125"

1156 (1) One standard LED light in compartment - to be door activated

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 1178 **Compartment L4: (Streetside Forward)**

Type of shelves in L4:	Quantity	Thickness of aluminum
Adjustable shelves with unistrut	0	0.125"
Fixed shelves	0	0.125"

1185 (1) One standard LED light in compartment - to be door activated

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 1205 **Compartment R1: (Curbside Rear)**

1222 (1) Tall R1 - standard on 166" & over boxes - includes short R2 unless deleted at

1225 (1) * Backboard storage in Tall R1. # of adjust. dividers: 0

Type of shelves in Tall R1:	Quantity	Thickness of aluminum
Adjustable shelves with unistrut	0	0.125"
Fixed shelves	0	0.125"

1232 (1) Outside access for Tall R1
 1235 (1) One standard LED light in R1 compartment - to be door activated

1252
 1253 (1) **Compartment Short R2: (Curbside Rear)** Only available if Tall R1 is selected.

1255 (1) Inside / Outside access for Short R2

Type of shelves in R2:	Quantity	Thickness of aluminum
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1260		Adjustable shelves with unistrut	1	0.125"
1261		Fixed shelves	0	0.125"

1263 (1) One standard LED light in compartment - to be door activated

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1280 Compartment R4: (Curbside Forward)

1281 (1) Inside / Outside access for full height of R4 compartment

1295 (1) Drug box storage in R4 shall have a locking Painted Aluminum

1296 (1) Cabinet beside the drug box storage in R4 will have inside / outside

1297 access with a non-locking Painted Aluminum

1298 The vertically-hinged doors will be individually latching doors

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1309		Type of shelves in R4:	Quantity	Thickness of aluminum
1310		Adjustable shelves with unistrut	2	0.125"
1311		Fixed shelves	0	0.125"

1318 (1) One standard LED light in compartment - to be door activated

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1417 (5) Number of exterior compartment(s) to be finished in Excellence texturized paint.

1418 Specify each compartment here: ALL - EXCEPT R4 which is to be finished white

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1491 PATIENT COMPARTMENT: STANDARD SPECIFICATIONS

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1493 Install clear polycarbonate throughout the unit.

1497 Full seam-welded NFPA-compliant anti-skid aluminum diamondplate stepwell with flush sweep-out design

1498 Door-activated flush-mounted stepwell light, LED

1499 3 interior entry door panels, aluminum painted white

1500 (1) Alternating red/white 10" reflective diagonal stripes on each Personnel Door

1505 Grab handles for module doors to be: 1.25" diameter seamless stainless steel

1506 (1) Grab handle(s) for the inside of the side entry door: 18" long

1508 (1) Grab handle(s) on each rear door inside the module: "L" shape 33" x 17.5"

1509 Aluminum walls painted white

1510 Aluminum ceiling finish painted white

1511 (1) Insulation in the module walls and ceiling

1513 Welded tubular aluminum cabinet framework with cabinet tubular faces painted white

1514 Sliding medical cabinet doors of 1/4" polycarbonate with full height extruded aluminum handles

1515 All cabinet interiors are to be painted white

1516 Cabinets have Austin latches on hinged cabinet doors and Safety Pins on sliding doors (KKK compliant)

1517 Cabinets will be labeled with their rated weight capacity

1518 Streetside action area with solid surface counter top

1519 The color for all counter tops will be: light gray w/ white & charcoal speckles

1527 Action area shelf to have lip

1528 Oxygen compartment shall have one polycarbonate hinged access door for "M" & "H" size cylinders

1529 Squad bench w/vinyl covered padded split seat cushion and with a hinged lid

1530 two 6-point seat belt harnesses: red

1531 sets of patient restraint straps: 3 red

1532 Squad bench to have a solid vinyl covered padded back rest and head rest

1533 2 "No smoking oxygen equipped / Fasten your seatbelt" decals, one in cab and one in module

1534 Removable wiring access panels, vinyl padded down the center of the ceiling w/ 1" x 2" tubular supports

1536 (1) # of 96" x 1.25" diameter stainless steel overhead grab rails on 166" module: 1

1539 1 CPR seat with vinyl covered padded seat and head protectors

1540 CPR seat to have 6-point seat belt harness

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1563 PATIENT COMPARTMENT:

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1565 Painted white aluminum interior

1570 * High back EMT Captains Chair (Bucket Seat) at Action Area w/ these features:

1571 Built-in Child-Safety Seat? No

1572 # of seat belt harness points: 6

1573 # of arm rests: 0 no arm rests

1577 (1) * Sewn upholstery

1579 (1) * WISE brand

1581

Type of IV holder	Quantity	Mounting location for IV holders:
Rubber shaft fold-down w/ velcro	1	head of primary cot
Rubber shaft fold-down w/ velcro	1	head of squad bench

Cabinet over Action Area to have...

(1) Sliding doors that are made of polycarbonate

BIO-HAZARD / TRASH CONTAINERS:

(1) Two wall mounted Maxxim kits - each kit has one sharpes container and one trash container

(1) Maxxim kit(s) to be mounted by Excellance when customer picks up unit

(1) * Compartment in top of action area (L3/2 access) for sharpes and trash - (CAAS Req.)

Trash with hinged, spring loaded polycarbonate lid; Sharpes to be without lid.

SEATING / UPHOLSTERY:

Padded vinyl head protectors over module entryways, color coordinated to match interior

(1) Gray color for upholstery (Gray)

(1) Net at head of Squad Bench, standard 58" x 17" (Red unless specified in Customer Notes)

FLOOR COVERING:

Heavy duty vinyl floor covering will be installed inside patient compartment

(1) * Lonseal / Lonplate II flooring (this flooring will extend up the side walls)

Type of floor selected above:	Floor color	Curbside wall covered in:
* Lonseal / Lonplate II flooring	421 Mica	Floor covering

Streetside wall covered in:
Floor covering

HANDRAILS / MOUNTING BRACKETS:

(1) All handrails will be stainless steel, knurled, antimicrobial rails painted (powder coated) yellow.

COT / LITTER MOUNT:

The cot used in this unit will be a: (Brand) (Model)

The cot will be supplied by: Customer

The retention system will be supplied by: Customer

Purchaser / Customer agrees to indemnify and hold Excellance harmless for the installation of any cot retention system specified by the Customer that is not compliant with any governmental authority.

The mounting position for the cot shall be:

(1) * Center mount for one cot

(1) Post and wheel cups will NOT be installed in the patient compartment.

THE COT WILL BE SUPPLIED BY CUSTOMER

THE RETENTION SYSTEM WILL BE SUPPLIED BY CUSTOMER

**** Install customer-supplied cot retention system. Excellance can supply upon request.**

MODULE ELECTRICAL SYSTEM: STANDARD SPECIFICATIONS

12 VDC electrical distribution system

Color and function coded wiring

GXL high temperature wiring insulation

Automatic reset circuit breakers

Heat shrink tubing on all terminals

Lighted rocker switches

Engraved backlit switch labels

1 labeled power distribution panel will be located in the exterior L3/1 compartment

Patient compartment control console with hinged access panels in action area

12 VDC Medical outlets to be installed as follows:

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Type of outlet:	Quantity	Location for outlet(s):
Cigarette	2	Action Area

Magnetically controlled, hermetically sealed door switches

"Module Entry Door Open" warning circuit w/ warning light in cab console

Door activated exterior compartment lighting

All of the dome lights located on the curbside to turn on to low intensity when module entry doors are opened and/or switch on cab console is activated

All switches, indicators and control devices shall be labeled in accordance w/ current KKK-A-1822

MODULE ELECTRICAL SYSTEM:

1 Kussmaul #091-32 Load Manager / Sequencer.

Load Manager and status indicator to be located in cab console.

(1) Excellance will determine load manager circuits and sequence of priority.

2 #RG58U coax antenna cables from center wiring trough to behind driver's seat

* Location for <u>origination</u> of first "std" coax cable:	module center trough
* Location for <u>termination</u> of first "std" coax cable:	behind the cab seat
* Location for <u>origination</u> of 2nd "std" coax cable:	module center trough
* Location for <u>termination</u> of 2nd "std" coax cable:	behind the cab seat

(1) TruckLite LEDs # 80162C EMT ("Standard" in action area)

(1) Four Whelen 8-inch LED dome lights mounted in ceiling on streetside

(1) Four Whelen 8-inch LED dome lights mounted in ceiling on curbside

(1) * All ceiling lights to operate with two switches (one for streetside & one for curbside lights).

125 VAC ELECTRICAL: STANDARD SPECIFICATIONS

Location for each 125 VAC duplex receptacle (interior to be lighted; exterior to be weatherproof):

(1)	in Action Area
(1)	lower section of the R-4 ALS cabinet

GFI circuit breaker <u>box</u> to be located:	mounted in GFI box in electrical panel
First GFI circuit breaker to be wired to:	the engine block heater
Second GFI circuit breaker wired to:	the 125V electrical system

SHORELINE

(1) One 30 amp / 125 volt Twist Lock Shoreline Plug with weatherproof lift cover (with female Shoreline Input Adapter)

(1) * **Shoreline to be mounted :** Side of module forward of L4 hinge

125 VAC ELECTRICAL EQUIPMENT:

On-board 15-amp battery charger activated via the shoreline

(1) * Pre-wire with switch at EMT panel for inverter to be installed by customer

* Specify brand & model number of the inverter here: TBD. Excellance can supply & install an inverter.

SCENE AND EXTERIOR LIGHTS: STANDARD SPECIFICATIONS

2 backup lights wired to operate with rear scene / load lights

Rear license plate bracket shall be surface mounted on rear of unit with light

1 set of red rear turn marker lights on each side of module using:

(1) L.E.D. 4" round turn marker lights (part # 44350R)

WORKLIGHTS / FLOODLIGHTS / SPOTLIGHT:

The hand-held spotlight will be: recess-mounted on passenger side of front console

(1) Minimum 100,000 CP lamp handheld spotlight w/ momentary switch (Standard)

2229 (1) * 2 Whelen 900 Super-LED work / scene lights (surface mount with chrome
 2230 flange) on each side of module (in lieu of halogen lights).
 2234 (1) * DELETE "standard" Whelen 900 side scene lights on each side of module.
 2241 (1) * 2 Whelen 900 Super-LED work / scene lights (surface mount with chrome
 2242 flange) on rear wall of module.
 2244 (1) * DELETE "standard" Whelen 900 rear scene lights.
 2245 Note: Scene lights on rear of module will be deleted when rear light bar has scene light option.
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TURN SIGNAL / TAIL LIGHTS:

Primary brake, turn signal & backup lighting

The Primary brake, turn signal, and backup lights on the rear of the module will be:
 600 series L.E.D. lights as turn signals set in a triple Horizontal Casting
 600 series L.E.D. lights as brake lights set in a triple Horizontal Casting
 600 series L.E.D. lights as backup lights set in a triple Horizontal Casting

GRILLE LIGHTS / INTERSECTION LIGHTS

Grille Lights shall be:

2437 (705)	Whelen 700 Red L.E.D. w/o flange	Lens color: clear	
2441 (405)	Intersection Lights on the driver's side shall be:	Whelen 400 Red L.E.D. w/o flange	Lens color: clear
2442 (405)	Intersection Lights on passenger's side shall be:	Whelen 400 Red L.E.D. w/o flange	Lens color: clear

OTHER VISUAL WARNING LIGHTS: STANDARD SPECIFICATIONS

Flashing light installed at the top center of front module wall shall be:

2481 (904) Whelen 900 series White LED with flange
 2482 The color of the lens for this light is: clear

Flashing lights in each upper corner of the front module wall (2 total) shall be:

2486 (901) Whelen 900 series Red LED w/ flange
 2487 The color of the lens for this light is: clear

* Install one additional flashing light on the side of the front wall of module.

2491 (901)	This curbside light shall be:	Whelen 900 series Red LED w/ flange	
2492 (901)	This streetside light shall be:	Whelen 900 series Red LED w/ flange	
2493	Color of curbside lens shall be:	clear	Color of streetside lens shall be: clear

Flashing lights in each upper corner of the curbside module wall (2 total) are:

2501 (901) Whelen 900 series Red LED w/ flange
 2502 The color of the lens for this light is: clear

Flashing lights in each upper corner of streetside module wall (2 total) are:

2506 (901) Whelen 900 series Red LED w/ flange
 2507 The color of the lens for this light is: clear

* Wheel well lights on each side of module (2 total) shall be:

2511 (701) Whelen 700 series Red LED w/ flange
 2512 The wheel well light lens color is: clear

Flashing lights in the upper corners of module rear wall (2 total) shall be:

2515 (901) Whelen 900 series Red LED w/ flange
 2516 The color of the lens for this light is: clear

Flashing light installed at the top center of rear module wall shall be:

2541 (702) Whelen 700 series Amber LED w/ flange
 2543 Color for this lens shall be: clear

2549 (1) 1 Whelen AFM-1660 solid state flasher (Standard)
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 2552 (1) The flash pattern for the emergency lights shall be programmed as specified by KKK.
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 2592 **EMERGENCY AUDIBLE WARNING SYSTEM:**
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 2594 (1) 1 Whelen hands free electronic siren with cab console mounted controls w/ PA microphone
 2595 Siren tones to be programmed in "default" mode.
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 2618 **Speaker**
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 2630 (1) Two through-the-bumper speakers ("standard" for Freightliner chassis)
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 2653 **OXYGEN AND SUCTION SYSTEMS: STANDARD SPECIFICATIONS**
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 2655 Oxygen system plumbing with cylinder wrench chained in oxygen compartment
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 2657 **Tank Brackets:**
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 2659 (1) * Oxygen tank(s) shall be located in compartment L4 (Streetside Forward)
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 2663 (1) * Zico "MultiVersal" restraint system with adjustable bracket for a "M" tank
 2674 1 oxygen regulator, 50 PSI
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 2678 **Oxygen Systems:**
 2693 Ohio-Diamond type oxygen outlets.
 2694 (1) * 2 oxygen outlets located at EMT panel, 1 at curbside
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 2742 **Vacuum System:**
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 2744 Sscor suction system with 1 canister and lid, on-off power switch, 5-foot exhaust hose,
 2745 vacuum gauge and internal regulator (no vacuum outlet needed) - to be installed...
 2746 (1) ... aft of action area control panel on the streetside interior wall.
 2780
 2782 **HVAC SYSTEMS: STANDARD SPECIFICATIONS**
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 2784 12 VDC multi-speed exhaust fan at rear of module
 2785 1 static air intake at front curbside of module
 2786 Floor-level return air plenum with replaceable filter for A/C-heat unit
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 2788 **HVAC SYSTEMS:**
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 2792 (1) * Discharge the HVAC system down the length of the patient compartment in
 2793 the ceiling via the "center trough".
 2861 **EHD Medium-Duty Chassis**
 2862 **NOTE:** Is the Medium-Duty Chassis to be ordered with an
 2863 OEM auxiliary engine mounted 12 VDC compressor? No
 2864 If "Yes", then the following are in addition to the auxiliary OEM chassis compressor.
 2866 12 Volt HVAC systems:
 2867 (1) Heavy duty combination heater / air conditioner system w / digital
 2868 electronic thermostat with digital temperature display.
 2869 (1) Under-body-mount auxiliary A/C condenser is standard for EHD units
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 2910 **FIRE EXTINGUISHER:**
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 2912 (2) 5# ABC fire extinguishers
 2914 * Extinguisher mounting instructions: Ship Loose