



150 North Star Drive / PO Box 1204 / Chehalis, WA 98532 / 360.748.0195 / 800.245.6303 / fax 360.748.0256

REMOUNT PROPOSAL

May 5, 2025

City of Everett
Attn: David DeMarco
2801 Oakes Avenue
Everett, WA 98201
ddemarco@everettwa.gov

RE: Remount/Refurbish one (1) 2016 North Star vehicle #2205-3 module

Braun Northwest is pleased to offer the following proposal:

Remount/Refurbish one (1) 2016 North Star vehicle #2205-3 module onto a 2026 Ford E-450 4x2 ambulance prep gas chassis per enclosed specification dated 5/5/2025.

Total F.O.B. Chehalis, WA \$174,295.00**
Sales tax not included

F.O.B.: Chehalis, Washington

Delivery: Remount/refurbish to be completed within ninety (90) days after receipt of new chassis and existing vehicle. Start of process to be scheduled based upon new chassis delivery and agency's operational schedule.

Terms: Ninety percent (90%) payment due upon receipt of vehicle. Balance due in thirty (30) days.

It is understood that the used chassis is not road legal due to the transfer of such items as lights and mud flaps to new chassis. Transportation of used chassis remains the responsibility of agency unless chassis is traded-in. Any parts or pieces not transferred to the new chassis or reused, unless specifically noted, shall be included in trade-in value of chassis to reduce overall cost of this project.

**The above pricing is based upon the availability of the current model year. Should the model year no longer be available at the time the order is placed, a newer model year will be offered with an adjustment in price.*

***In the event of chassis price increases due to the potentially implemented tariffs, which are out of Braun NW's control, customer will be notified of the cost change associated with the chassis, and adjustments will be made via a change order.*

*(Note: This bid is contingent on use of customer's Government Ford Fleet Identification Number.) Failure to secure a FIN will increase the price by the amount of the GPC chassis discount.
Braun Northwest, Inc. is a Washington dealer (0991-A) with insurance information available upon request.*

Respectfully Submitted by:
Braun Northwest, Inc.

Colton Schoelkopf
Colton Schoelkopf, General Sales
Manager

Date: 5-5-2025

We agree to accept the above proposal:
City of Everett

[Signature]

Signature

05/18/2025

Date

Cassie Franklin, Mayor

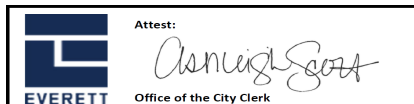
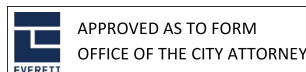
Printed Name

Title



EMERGENCY VEHICLES

CS
cc JJ/DZ
Enclosures: Specifications.



www.braunnw.com

BRAUN NORTHWEST, INC.
REMOUNT SPECIFICATIONS
FOR
EVERETT FIRE DEPARTMENT
EVERETT, WASHINGTON
NORTH STAR #2205-3, 2016 FORD E450 4X2, 171" MODULE
VIN: 1FDXE4FS1GDC20052

1 CHASSIS

1.01 OEM CHASSIS

- 2026 Ford E-450, meeting all the specifications of Section 1.01. (Note: Chassis subject to model year changes)
 - Ambulance Prep. Package (**47H**)
 - 3 year/36,000 mile "Bumper to Bumper" warranty
 - Dual rear wheels
 - Twelve Frame Pucks (**559**)
 - Provided by Braun Northwest

1.01.01 SPECIFIC RATINGS

- Drive – 4 x 2
- G.V.W.R. – 14,500 lb
- Front Axle – 5,000 lb
- Rear Axle – 9,600 lb
- Wheelbase – 158"
- Cab to Axle – 100"
- Payload – 3,950 lb approximate
- Front Spring Capacity – 5,000 lb
- Rear Spring Capacity – 9,600 lb
- Rear Differential – 4.56 ratio, limited slip axle

1.01.02 POWER TRAIN

- Engine – Gasoline
 - 7.3L V8 Premium (**99N**)
 - Heavy duty dry type air cleaner with flow restriction indicator
- Engine Cooling System
 - Heavy duty, closed-air, free-liquid state type
 - Coolant recovery system
 - 50/50 solution Permanent type antifreeze to –40 degrees F

- Transmission
 - 6-speed automatic transmission with tow/haul mode
 - Auxiliary transmission oil cooler
- Exhaust System
 - System complies with Federal Motor Carrier Safety Regulations, Part 393.83
 - Suspended using three hangers, excluding manifold attachment
 - Discharge at right rear side of module
 - Tailpipe shall not terminate within twelve inches of the vertical axis of the fuel tank filler opening.
 - Two exhaust heat shields mounted in mid-chassis, right-hand side for upfitter installed frame pucks

1.01.03 STEERING

- Power assisted
- Tilt and telescoping steering wheel

1.01.04 SHOCK ABSORBERS/STABILIZER BARS

- Heavy-duty shock absorbers front and rear
- OEM front and rear stabilizer bars

1.01.05 BRAKES

- Four wheel disc with traction control
 - Hill Start Assist
 - Traction Control
 - Electronic Stability Control
- Automatic Emergency Braking

1.01.06 TIRES AND WHEELS

- Six OEM LT225/75R16E all-season steel belted radials
- Six OEM 16" painted white steel wheels
- Spare tire and wheel
- Steel valve stems
- Tire pressure monitoring system (excludes spare tire)

1.01.07 ELECTRICAL

- Alternators – OEM heavy-duty, 240 amp alternator (**63N**)
- Batteries – OEM dual heavy-duty, 78 amp-HR batteries
- Integration Module (Vehicle Integration System 1.0, **66A**)

1.01.08 INSTRUMENT PANEL AND CONTROLS

- Gauges
 - Speedometer
 - Coolant Temperature
 - Oil Pressure
 - Fuel Level
 - Odometer/Trip Odometer
- Cruise control
- Instrument Panel Message Center
- Dual USB A/C ports in instrument panel
- Audio – Bluetooth-capable AM/FM stereo w/clock display, USB input
- Four speakers

1.01.09

CAB EXTERIOR

- Exterior Upgrade Package
 - Bumper – Front, chrome
 - Grille – chrome
- License plate bracket, front
- Horn – OEM dual note
- Windshield wipers – Interval
- Manual telescopic trailer tow mirrors with power-adjust flat lens **(54E)**
- Lights
 - Headlamps with Autolamp, dual sealed-beam with fixed lens
 - Daytime running lights, configurable (std)
- Fuel tank – OEM 55 Gallons **(656)**

1.01.10

CAB INTERIOR

- Seats – OEM
 - Cloth covered high back captain's chairs with inboard armrests
 - Combination lap and shoulder harness
- Climate Control – OEM
 - Heavy duty, fresh air, high capacity heater/defroster
 - Dehumidifying air conditioning system
- Auxiliary Heater-Air Conditioning Connector Package
- Airbags
 - Driver and right-front passenger front
- Interior
 - Vinyl headliner
 - High-series door trim panels
 - Flooring – Black vinyl
 - Power door locks & windows **(903)**, includes remote keyless entry (two keys and two key fobs) and SecuriLock Passive Anti-Theft System
 - Vinyl sun visors
- Lights and Convenience Group
 - Courtesy light switches on all doors
 - Warning chimes
 - Headlight-on audible alert
 - Illuminated entry
 - Dual air bags
- One 12 Volt Power Point
- Day/Night Interior Rear-view Mirror **(625)**

1.01.11

COLORS

- Exterior – Race Red **(PQ)**
- Interior – Medium Flint Gray

1.02 CHASSIS MODIFICATIONS

Braun Northwest will make the following modifications to the chassis.

1.02.03B VALVE EXTENDERS

Install new 1.25"L valve stem extenders on the two rear inner wheels.

1.02.04 EXHAUST HEAT SHIELD

Install a new 20 ga. galvanized sheet metal with stamped reinforcements and formed edges exhaust heat shield. Provide access openings for shock absorber, mounting bolts, etc. Bolt heat shield to chassis frame and extend from back of cab to the frame cross member just behind the rear axle.

1.02.05A RUNNING BOARDS

Install new running boards made of star punched 0.125" bright aluminum diamond plate with front splash guards on both sides of the cab, flared towards the front corners of the module, and securely mounted with stainless steel 1/4"-20 truss head bolts.

1.02.07A AUTO THROTTLE

Install a new Intermotive voltage monitor to automatically adjust the throttle for changes in electrical and AC loads.

1.02.09X RUBBER MUD FLAPS

Leave existing mud flaps on used chassis (Section 1.04 related).

Install new mud flaps with the "NORTH STAR" logo behind each rear wheel.

Mud flaps shall be shortened by 4" , from the top.

1.02.10X TIRES AND WHEELS

Remove, dismount tires, and return four aftermarket Alcoa aluminum wheels from used chassis to customer (Section 8.03 related).

Install used tires from used chassis onto four new OEM steel wheels (Section 1.04 related).

Install four new aftermarket Alcoa aluminum wheels on new chassis.

1.02.11X AIR HORN

Leave existing air horn on used chassis (Section 1.04 related)

Remove and return existing air compressor in Compartment #1 to customer (Sections 1.04 and 8.03 related).

Remove and return existing air horn switches to customer (Sections 1.04 and 8.03 related)

1.02.13X TIRE CHAINS

Leave existing tire chain system on used chassis (Section 1.04 related).

Remove existing air compressor with activation switch in Cabinet #12 and ship loose in used chassis (Section 1.04 related).

1.02.15X CAB SEATS

Install two TigerTough Tactical Gray #T0516001 seat covers to cover the OEM seats.

OEM seat covering material shall not be removed

1.02.21X CHASSIS LIGHTING

Leave existing Red/White dome light in used chassis (Section 1.04 related).

Install a new Code 3 #CW0410-WR Red/White LED light near the passenger side visor in the chassis headliner and have a switch in the light head. (Section 6.11 related)

Install a new Whelen #3SA00FAR Amber LED light near the driver's side visor in the chassis headliner to warn the driver of open exterior compartment door, passage doors, or emergency brake engaged. (Section 6.12 related)

Install new reinforcement behind the lights to provide better functionality of the switches.



1.02.29X CHASSIS LABELS

Install a new 6"W x 1.5"H engraved plate with white lettering on red background, mounted on a space above and front of the driver (Section 8.04 related).

The plate shall specify:

- Overall Height
- Curb Weight



1.02.37T SECURITY SYSTEM

Remove and return existing Viper 4115V one-way remote start system (Section 8.03 related)

1.02.43T CHASSIS MISCELLANEOUS

Transfer Key box on rear wall of cab, under pass thru.

1.02.55T MISCELLANEOUS ELECTRICAL CONNECTION

Remove and return existing Havis Idle Right 2 module in Cabinet #13 (Sections 2.10 and 8.03 related)

1.03T MODULE-TO-CHASSIS MOUNTING SYSTEM

Transfer existing module utilizing existing mounting points. Install new bolts.

1.03.02A CAB-TO-MODULE ATTACHMENT

Attach module to the cab by twenty 5/16" Grade 5 plated steel bolts with nylon insert locking nuts. Access plates provided in the bulkhead wall for servicing cab-to-module bolts or for remounting the body.

1.03.03A CAB-TO-MODULE GASKET

Install a new closed-cell, neoprene, weatherproof gasket between the cab and module to minimize electrolytic corrosion.

1.04C USED CHASSIS

Return used chassis to customer, **FOB Chehalis** (Section 8.03 related). Install tail lights, mud flaps, and clear plastic sheeting on cab back. Transfer existing batteries and reconnect battery cables. Close off HVAC/connections.

Leave the following items on used chassis:

- Two old license plates
- Two old batteries, one under hood and one shipped loose
- Old tire chains
- Old air horn and switches
- One Red/White dome lamp
- One old back up alarm
- Two old siren speakers
- One old Golight
- One back up camera monitor
- Two old fendor cameras
- One old air compressor and switches
- One old console

Mount and balance four used tires on new chassis outer OEM steel wheels and install on used chassis.

Ship loose existing air compressor with switch in used chassis.

2 MODULAR CONSTRUCTION

Disclaimer: Inspect module at preconstruction meeting. If damage is discovered, a detailed scope of work, and customer authorization is required before repairs are made.

- Modify holes from existing #90E000ZR scene lights to accommodate new #904SLC EZ scene lights prior to repainting.
- Modify holes from existing #50C000ZR scene lights to accommodate new #M62SLC EZ scene lights prior to repainting.
- Modify hole from existing hole for Voyager back up camera to accommodate for new Zorg back up camera.
- Modify hole from existing shoreline connection to accommodate a new shoreline connection with a new stainless steel plate and a new indicator light.
- Transfer and mark locations of existing antennas prior to repainting.
- Modify holes from contact door switches on curbside passage door before repainting.

2.02X MODULE MODIFICATIONS

Modify curbside passage door frame to accommodate conversion from a sliding door to a standard hinged door.

Modify Cabinet #14 door to accommodate a new twist slam latch.

2.08 EXTERIOR COMPARTMENTS

COMPARTMENT #1 Inside/Outside Access

Location:Streetside, forward

Transfer the following existing items:

- One 120 VAC GFCI duplex receptacle (Section 6.21 related)
- Two LED strip lights (Section 6.26 related)
- One adjustable shelf
- One MSA TIC charging base

Changes:

- Remove Rom door mounting hardware. Fill in holes and repaint compartment (Section 3.06 related)
- Install a new 120 VAC power box (Section 6.21 related).

COMPARTMENT #2

Location: Streetside, aft

Transfer the following existing items:

- Four SCBA brackets (Section 4.10 related)
- One fire extinguisher mounting bracket (Section 4.32 related)
- Two LED strip lights (Section 6.26 related)
- Two adjustable shelves

Changes:

- Install a new 12" yellow powder coated horizontal grab bar on the bottom of the upper shelf. (Section 4.21 related).

COMPARTMENT #3

Location: Curbside, aft

Transfer the following existing items:

- One oxygen cylinder bracket and straps (Section 4.10 related)
- Stairchair boot bracket with strap (Section 4.27 related)
- Two LED strip lights (Section 6.26 related)
- One bin shelf
- Two backboard restraining straps
- One "J" hook

Changes: None

COMPARTMENT #4 Inside/Outside Access

Location: Curbside, forward

Transfer the following existing items:

- Two LED strip lights (Section 6.26 related)

Changes:

- Transfer two existing batteries to the used chassis, one under hood and one shipped loose (Sections 6.24 and 8.03 related).
- Transfer existing charging relay.
- Transfer existing battery tray (Section 6.24 related)
- Install two aftermarket Odyssey Group 31 AGM batteries on existing battery tray (Section 6.24 related).

2.09X

MODULE DOORS

Transfer all existing doors except curbside passage door.

Remove and discard existing curbside sliding passage door.

Rebuild door frame before painting to accommodate for new forward hinged curbside passage door.

Install one box-pan-formed forward hinged curbside passage door with a total thickness of 2".

2.09.01A

DOOR SEAL

Remove and discard all existing door gaskets.

Install new door gaskets on all doors. Install a new stainless steel gasket protector in Compartment #2.

2.09.02X

DOOR HINGES

Transfer all existing hinges.

Remove and discard curbside passage door track system.

Install new hinge on curbside passage door.

2.09.03X

DOOR LATCHES

Transfer, lubricate, and adjust all existing compartment and passage door latches, except for Compartment #2 and curbside passage door, for proper operation.

Install new Eberhard E-Grabber door handles and hardware on Compartment #2 doors and new curbside passage door.

Install new emergency release levers on rear passage doors., one at the top and bottom of each door.

2.09.04B COMPARTMENT DOOR CONTROLS

Remove and discard all existing hold open devices.
Install new spring-dampened gas shock hold open devices on all compartments.

2.09.05C CURBSIDE DOOR CONTROL

Remove and discard existing hold open device.
Install a new spring-dampened gas shock hold open device with brackets secured on the interior of door frame.

2.09.06A REAR DOOR CONTROLS

Remove and discard all existing hold open devices.
Install two new grabber-type hold open devices with rubber inserts.

2.09.07X COMPARTMENT DOOR SKINS

Transfer all existing compartment door skins.
Install new Red/White 1.5" conspicuity tape on the outboard vertical edge of each door

2.09.08X ENTRANCE DOOR SKINS

Transfer all existing passage door skins except on curbside passage door.
Transfer existing chevrons on passage door skins (Section 3.04 related).
Install new trim on outer edges of rear passage door skins.
Install new Red/White 1.5" conspicuity tape on the top, bottom, and vertical edges of the side passage and rear curbside doors.
Install a new white painted aluminum door skin on the curbside passage door with a stainless steel kick panel.



2.09.10B THRESHOLDS

Remove and discard all existing thresholds.
Install new stainless steel thresholds with polyurethane adhesive on all doors.

2.10 MODULE INTERIOR CABINETS

Transfer all existing cabinet shelves and dividers.

CABINET #1

Location: Streetside, upper, forward

Transfer the following existing items:

- One adjustable shelf
- One 120 VAC GFCI duplex receptacle (Section 6.21 related)

Changes:

- Remove and discard existing cabinet door
- Install a new full height top-hinged clear 0.25" polycarbonate door with two gas-shock hold-open devices, twist-slam latch and extruded aluminum door pulls

CABINET #2

Location: Streetside, upper, center

Transfer the following existing items:

- One adjustable shelf
- One 120 VAC GFCI duplex receptacle (Section 6.21 related)
- One under-cabinet LED strip light (Section 6.14 related)

Changes:

- Remove and discard existing cabinet door
- Install a new full height top-hinged clear 0.25" polycarbonate door with two gas-shock hold-open devices, twist-slam latch and extruded aluminum door pulls

CABINET #3

Location: Streetside, upper, rear

Transfer the following existing items:

- One 120 VAC GFCI duplex receptacle (Section 6.21 related)
- One under-cabinet LED strip light (Section 6.14 related)

Changes:

- Remove and discard existing cabinet door
- Remove and discard one existing fluid warmer.
- Install a new full height top-hinged clear 0.25" polycarbonate door with two gas-shock hold-open devices, twist-slam latch and extruded aluminum door pulls
- Install one new 120 VAC GFCI duplex receptacle (Section 6.21 related)
- Install two new Smithworks 120 VAC fluid warmer with two 2.5"H acrylic side panels (Section 6.35 related).

CABINET #4

Location: Streetside, upper, rear

Transfer the following existing items:

- None

Changes:

- Remove and discard existing cabinet door
- Install a new full height top-hinged clear 0.25" polycarbonate door with two gas-shock hold-open devices, twist-slam latch and extruded aluminum door pulls

ACTION AREA - #5

Location: Streetside

Transfer the following existing items:

- One oxygen outlet (Section 5.11 related)
- One Rico suction regulator (Section 5.13 related)
- Four glove butlers (Section 5.32 related)
- One attendant control panel (Section 6.13 related)
- One 120 VAC GFCI duplex receptacle (Section 6.21 related)
- One 12 VDC power point receptacle (Section 6.25 related)

Changes:

- Remove and return to customer inverter status panel (Sections 6.31 and 8.03 related)
- Remove and discard one round Blue Sea with cover (section 6.25 related)
- Install one digital thermostat (Section 5.17 related)
- Install a strap to secure the boxes of gloves in the glove butlers (type of strap to be determined at pre-construction meeting, Section 5.32 related).
- Install a new switch insert style Kussmaul USB A/C charging port with single switch mounting plate (Section 6.25 related)
- Install a new Samlex 1200-watt remote status panel (Section 6.31 related)

CABINET #6- Drawers

Location: Streetside, forward, center

Items to be transferred:

- Four dividers per drawer

Changes: None

STREETSIDE SQUAD BENCH WITH STORAGE - #7

Location: Streetside

Items to be transferred:

- One module window (Section 4.08 related).
- Three sets of two-point automatic locking retractor seatbelts (Section 5.14 related)
- One framed white marker board on the aisle-facing wall, aft of squad bench (Section 5.23 related)
- One sharps container bracket on the forward-facing wall, aft of bench (Section 5.26 related)

Changes: None

CABINET #8 - Inside/Outside Access

Location: Streetside, forward, lower

Transfer the following existing items: None

Changes:

- Install a new stainless-steel bracket for a 7qt. waste container, attached forward of cabinet aisle facing (Section 5.26 related).
- Remove and discard two orange straps with footman loops.
- Install a new 1.5" webbed net with three pallet style buckles and footman loops, buckles installed on the aft side.

CABINET #9

Location: Curbside, upper, aft

Transfer the following existing items:

- One adjustable shelf
- One 120 VAC GFCI duplex receptacle (Section 6.21 related)

Changes:

- Remove and discard existing cabinet door
- Remove and discard existing under cabinet light
- Install a new full height top-hinged clear 0.25" polycarbonate door with two gas-shock hold-open devices, twist-slam latch and extruded aluminum door pulls
- One under-cabinet LED strip light (Section 6.14 related)

CABINET #10

Location: Curbside, upper, aft

Transfer the following existing items:

- Seven verticale dividers

Changes:

- Remove and discard exsisting cabinet door
- Remove and discard door catches on door frame.
- Install a new full height top-hinged clear 0.25" polycarbonate door with two gas-shock hold-open devices, twist-slam latch and extruded aluminum door pulls
- One under-cabinet LED strip light (Section 6.14 related)

CURBSIDE SQUAD BENCH WITH STORAGE - #11

Location: Curbside

Transfer the following existing items:

- One wipes storage bracket (location to be determined at pre-construction meeting)
- One module window (Section 4.08 related).
- One electric oxygen panel in the forward-facing wall(Section 5.11 related)
- Two sets of two-point automatic locking retractor and one three point locking retractor seatbelts with two lower receivers (Section 5.14 related)
- Transfer existing clock on the aft wall (Section 5.24 related)
- Sharps and waste storage at forward end of bench (Section 5.26 related)
- Bench-end webbed net (Section 5.34 related)
- One triple D cylinder oxygen bracket in under bench storage (Section 5.35 related)
- One two switch panel (Section 6.13 related)

Changes:

- Install a new upholstered Dove Gray vinyl pad on existing polycarbonate oxygen door (Sections 3.08 and 5.29 related)
- Remove and return to customer one 18" yellow powder coated grab bar (Sections 5.06 and 8.03 related).
- Install a new sharps and waste rear hinged painted aluminum cover with a finger hole and a rare earth mount magnet for holding the lid open (Section 5.26 related and details to be discussed at pre-construction meeting)

CABINET #12 – HVAC

Location: Right front stack, upper

Transfer the following existing items:

- One suction pump (Section 5.12 related)

Changes:

- Install one new combination AC/heater unit (Section 5.17 related).

CABINET #13 – Electrical Cabinet

Location: Front, above pass-thru

Transfer the following existing items:

- One framed white marker board (Section 5.23 related)
- Electrical component module (Section 6.01 related)
- One automatic cabinet light (Section 6.14 related)
- Transfer existing aftermarket key fob control module (Section 6.40 related)
- Transfer existing Sierra Wireless modem (Section 6.18 related)

Changes:

- Install a new automatic hold open device
- Remove and return Havis Idle Right 2 module (section 8.03 related)
- Remove and return air compressor switch shipped loose (Section 8.03 related)

CABINET #14 – Cool Cabinet

Location: Right front stack, upper, inboard

Transfer the following existing items:

- One Cool Cabinet (Section 5.28 related)
- One digital thermostat (Section 5.28 related)

Changes:

- Remove and discard existing cabinet door latch
- Modify door to accommodate a new twist-slam latch

CABINET #15 – Knox MedVault

Location: Right front stack, upper, outboard

Transfer the following existing items:

- One Knox Medvault (Section 5.36 related)

Changes:

- Remove and discard unlock switch for cool cabinet (Section 5.28 related)

CABINET #16 – Inside/Outside Access

Location: Right front stack, lower

Transfer the following existing items:

- Three adjustable shelves
- One 20" stainless steel grab handle installed on the front right, angled (Section 5.06 related).
- One 120 VAC GFCI duplex receptacle (Section 6.21 related)
- One 12 VDC receptacle (Section 6.25 related)

Changes:

- Install a new 1.5" webbed net with four pallet style buckles and footman loops, buckles installed on the right side.

BENCH SEAT WITH STORAGE #17

Location: Front, below pass-thru

Transfer the following existing items:

- FireCom 3010R Intercom System (Section 6.18 related)
- One Motorola transceiver (Section 6.18 related)
- One fuse block (Section 6.18 related)
-
- One circuit breaker (Section 6.18 related)

Changes:

- Install a new Samlex 1200-watt inverter with a 60-amp battery charger (Sections 6.23 and 6.31 related)
- Remove and return one Magnum inverter to customer (Sections 6.31 and 8.03 related).

2.11X

SIDE DOORSTEP

Remove and discard existing stepwell.

Install new a new stepwell.

2.12T

FRONT MODULE WALL RECESS

Transfer existing front module wall recess in current condition.

2.13X

CAB TO MODULE PASSAGE

Transfer existing pass-thru opening, in current state.

Install a new roll-up style vinyl shade on the module side of the pass thru. When the shade is in use, the bottom shall be secured with Velcro. When not in use, the upper portion shall be held in place using snaps.

Reference build #3162-3



2.15

CORROSION REDUCTION/ PREVENTION

Apply corrosion inhibitor to all newly installed screws, bolts, etc.

3 COATINGS AND FINISHES

Disclaimer: Inspect module at preconstruction meeting. If damage is discovered, a detailed scope of work, and customer authorization is required before repairs are made.

- Modify holes from existing #90E000ZR scene lights to accommodate new #904SLC EZ scene lights prior to repainting.
- Modify holes from existing #50C000ZR scene lights to accommodate new #M62SLC EZ scene lights prior to repainting.
- Modify hole from existing hole for Voyager back up camera to accommodate for new Zorg back up camera.
- Modify hole from existing shoreline connection to accommodate a new shoreline connection with a new stainless steel plate and new indicator light.
- Transfer and mark locations of existing antennas prior to repainting.
- Modify holes from contact door switches on curbside passage door before repainting.

3.01 MODULE FINISH PREPARATION

Sand module smooth to remove imperfections on aluminum. Mechanically etch the entire exterior and wash with wax and grease remover to ensure proper primer and paint adhesion.

3.02 MODULE PRIMER

Seal module with two-component, low VOC, direct-to-metal epoxy primer/sealant prior to applying the finish coat of acrylic urethane paint.

3.03 PAINT TYPE

Sherwin Williams acrylic urethane.

3.04 COLOR SCHEME

Base color: painted to match Race Red (G4-100871777)

Reference build #3162-3:

Stripe #1	Color:	3M Ruby Red #680-CR-82 and Yellow #680-CR-71
	Size:	6"H
	Style:	Chevrons
	Material:	Scotchlite
	Location:	Rear of module, below drip rail, stopping short of the outboard corner radius, above and outboard of rear passage doors. (Excludes doors.)

3.04.01A CHASSIS COLOR

Chassis to be OEM Race Red (PQ).

3.05 LETTERING/DECALS

Reference build #3162-3:

Item #1	Lettering:	Number or letters for all compartments and cabinets with exception of Knox Med vault, Cool Cabinet, Action Area, and both Squad benches Electrical cabinet shall state "ELECTRICAL 13" . The numbers shall correlate with the numbering of the compartment and cabinet. Drawers shall be lettered A thru H , left to right
	Font:	Arial Black
	Color:	Black
	Size:	1"H
	Material:	Vinyl
	Location:	Lower right corner of doors/drawers

3.06X COMPARTMENT FINISH

Transfer and clean existing compartment interior from the gasket inward.
Sand, etch, wash, prime, and coat Compartment #1 with polyurea thermoplastic elastomer finish painted white with gray splatter paint (G2-33631 Alt 2 / GLV-51748).

3.07X INTERIOR CABINETRY FINISH

Transfer and clean existing interior cabinets, headliner, and upper wall coverings.
Repaint curbside passage door frame after modification.

3.08X MODULE UPHOLSTERY

Transfer all existing upholstered pads with existing covering.
Install a new upholstered Dove Gray vinyl pad on existing oxygen door.
Install a new upholstered Dove Gray vinyl pad above curbside passage door.

3.09T MODULE FLOORING MATERIAL

Transfer existing module sub-floor and flooring.

3.10X COMPARTMENT LINING

Remove and discard all existing lining.
Install new Gray Matéflex in all compartments.
Install new easy sweep mat lining on all compartment shelves.

3.11A CABINET LINING

Install new easy sweep mat lining in all cabinets.

3.14A PLACARD HOLDERS

Remove and discard existing placard holders.
Install five new 7.375"H x 16"W side-load stainless steel placard holders with left dimples and slide-in red acrylic placards in the following: .

- One on the streetside of the module, forward upper
- One on the rear of the module, curbside upper
- One on the curbside of the module, forward upper
- One on the front of the module, streetside upper
- One on the rear curbside passage door skin, upper.

4 MODULE EXTERIOR

- Modify holes from existing #90E000ZR scene lights to accommodate new #904SLC EZ scene lights prior to repainting.
- Modify holes from existing #50C000ZR scene lights to accommodate new #M62SLC EZ scene lights prior to repainting.
- Modify hole from existing hole for Voyager back up camera to accommodate for new Zorg back up camera.
- Modify hole from existing shoreline connection to accommodate a new shoreline connection with a new stainless steel plate and new indicator light.
- Transfer and mark locations of existing antennas prior to repainting.
- Modify holes from contact door switches on curbside passage door before repainting.

4.01A STEP/BUMPER

Remove and discard existing step bumper.

Install a new 7" step bumper with a star-punched surface and tapered ends.

4.02A RUB RAILS

Remove and discard existing rub rails.

Install new bright finished anodized aluminum rub rails 2.5"H x 0.75"D custom extruded design along the lower streetside and curbside edges of module.

Install new 0.5"H Red/White conspicuity reflective tape in the center insert area.

4.03A FENDER RINGS

Remove and discard existing fender rings.

Install new polished aluminum fender rings with rounded outer edge.

4.04A DRIP RAILS

Remove and discard existing drip rails.

Install new full length drip rails on all sides of module, above all compartment and above passage doors.

4.05A ROCK GUARDS

Remove and discard existing rock guards.

Install new aluminum diamond plate rock guards on the front of module corners.

4.06A REAR KICK PANEL

Remove and discard existing rear kick panel

Install a new aluminum diamond plate rear kick panel on the rear of module.

4.07B FUEL FILL

Remove and discard existing fuel fill.

Install a new Cast Products fuel fill aft of wheel well.

4.08T MODULE WINDOWS

Transfer existing windows.

4.09A FUEL SPLASH GUARD

Remove and discard existing fuel splash guard.

Install a stainless steel splashguard below the fuel fill.

4.10T EXTERIOR CYLINDER STORAGE

Transfer four existing SCBA cylinder storage brackets in Compartment #2.
Transfer existing oxygen storage and straps in Compartment #3.

4.16T REAR LICENSE PLATE

Transfer existing license plate holder, light.
Remove and discard existing hidden unlock switch.
Install a new hidden unlock switch on rear of module (Section 6.40 related).

4.21 EXTERIOR GRAB BAR

Install a new 12" horizontal yellow powder coated grab bar in Compartment #2 on the bottom of the top shelf.

Reference build #3162-3



4.27T STAIR CHAIR STORAGE

Transfer existing stair chair storage in Compartment #3.

4.32T EXTERIOR FIRE SUPPRESSION

Transfer existing fire extinguisher bracket in Compartment #2.

4.34 MODULE UNDERCOATING

Touch-up bare metal, holes and/or any new fasteners with undercoating for reduced corrosion.

5 MODULE INTERIOR

5.01T UPPER WALL COVERING
Transfer existing wall covering.

5.02T HEADLINER
Transfer existing headliner.

5.03T HEAD PADS/CUSHIONS
Transfer existing head pads with existing upholstery.

5.04T LOWER WALL COVERING
Transfer existing covering.

5.05T GRAB RAIL
Transfer one existing grab rail, with wire hooks, centerline above cot.

5.06X ACCESS DOOR GRAB RAILS
Remove and return existing 18" yellow grab bar from Curbside Squad Bench #11 (Section 8.03 related).
Transfer all existing door grab rails on all entrance doors except the curbside passage door.
Install one new Yellow powder coated L-shaped stainless steel grab bar on the curbside passage door.
Transfer one existing grab rail forward of Curbside Squad Bench with Storage #11
Transfer one existing grab rail installed at an angle on Cabinet #16

5.07T IV HANGER
Transfer one existing IV hanger streetside above foot of cot.
Transfer existing wire hooks on overhead grab rail.

5.08T COT MOUNT
Transfer existing cot mount in same position.
Transfer existing floor plate for rear rail clamp.

5.11T ELECTRIC OXYGEN SYSTEM
Transfer and low pressure test existing oxygen system including the following

- One LED display with manual bypass on the forward facing wall, aft of Curbside Squad Bench with Storage #12.
- One outlet in Action Area #5
- One outlet above the Curbside Squad Bench with Storage #11
- One outlet recessed in ceiling above cot, streetside, center

Oxygen controlled by the "ELECT. 02" switch in attendant control panel (Section 6.13 related).

5.12T SUCTION PUMP
Transfer existing plumbed suction pump in Cabinet #12
Suction pump controlled by the "SUCTION" switch in attendant control panel (Section 6.13 related).

5.13T SUCTION COLLECTOR
Transfer existing suction system in Action Area #5.

5.14X SEATBELTS

Transfer seven existing sets of seatbelts in following locations:

- Three in Streetside Squad Bench with Storage #7.
- Two with lower receivers in Curbside Squad Bench with Storage #11
- One in Bench Seat with Storage #17
- One on the aft end of Curbside Squad Bench with Storage #17

5.17X MODULE CLIMATE CONTROL SYSTEM

Remove and discard existing combination heating/air conditioning unit.

Remove and discard existing digital thermostat in Action Area #5.

Install a new:

- Tie-in 43k/32k BTU/hr. combination heating/air conditioning unit in Cabinet #12.
- Digital thermostat in Action Area #5

Install a new module tie in HVAC with evaporator.

Install a new digital thermostat Action Area #5

5.18T EXTERNAL AIR INTAKE

Transfer existing air intake.

Exhaust controlled by the "VENT" switch in attendant control panel (Section 6.13 related).

5.19T AIR RETURN

Transfer existing air return.

5.20T EXHAUST VENT

Transfer and test existing exhaust system.

5.21T NO SMOKING/FASTEN SEAT BELTS SIGNS

Transfer existing module signs. Install new sign in the chassis.

5.23T WHITE MARKER BOARD

Transfer existing white marker boards in following locations:

- One on the streetside wall aft of Streetside Squad bench with Storage #7, isle facing
- One on the curbside wall aft of Curbside Squad Bench with Storage #12, isle facing
- One on the face of the Cabinet #13

5.24T CLOCK

Transfer existing clock on the aft wall of the Curbside Squad Bench with Storage #11.

5.26X SHARPS/HAZARDOUS WASTE CONTAINERS

Customer is responsible for removing any biohazardous sharps/waste containers from the vehicle before delivery to Braun Northwest.

Transfer existing sharps/waste storage areas in following locations:

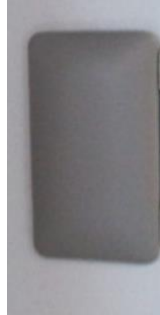
- One sharps container and bracket on the aft wall of Streetside Squad Bench with Storage #7, forward facing.
- One sharps and waste container forward of Curbside Squad Bench with Storage #11.
- Install one new waste container recessed in the drivers console (Section 6.09 related).
- Install a new stainless-steel bracket for a 7 qt. waste container attached forward of Cabinet #8, aisle facing.

5.28T REFRIGERATOR/COOL CABINET

Transfer existing cool cabinet Cabinet #14, wired to shoreline and module power.
Transfer digital thermostat installed above the upper HVAC Vent
Transfer unlock switch located in Cabinet #15.

5.29X OXYGEN DOOR

Install a new upholstered Dove Gray vinyl pad on existing polycarbonate oxygen door on aft wall of Curbside Bench with Storage #12, forward facing. The upholstered vinyl door shall be mounted with self- closing hinges
Reference build #3162-3



5.32X GLOVE BUTLERS

Transfer four existing glove butlers in Action Area #5, forward wall.
Transfer two existing glove butlers on chassis rear bulk head, below pass-thru
Install a strap to secure the boxes of gloves in the glove butlers in Action Area #5 (type of strap to be determined at pre-construction meeting)



5.34T BENCH NET

Transfer existing net on the forward end of Curbside Squad Bench with Storage #11.

5.35T INTERIOR OXYGEN CYLINDER STORAGE

Transfer existing oxygen cylinder storage from following locations:

- One triple D cylinder bracket with seatbelt inside Curbside Squad Bench with Storage #11.
- One single D cylinder bracket forward of Curbside Squad Bench with Storage #11.

5.36T

MEDICATION SAFE

Transfer existing Knox MedVault medication safe as Cabinet #15, wired to shoreline and module power (to be confirmed at prec-onstruction meeting).

6 ELECTRICAL

Existing module electrical system to be function tested upon arrival at Braun Northwest. Contact customer for change order authorization to replace non-functional components. Upon completion, electrical system to be function tested and vehicle electrical system certified to AMD 005 requirements.

6.01T ELECTRICAL LOAD DEVICES

Transfer existing electrical component module in Cabinet #13 replacing relays as needed to meet current electrical standards. Replace or add circuit breakers as required to meet new circuit requirements. Modify or replace electrical wiring as required to accommodate new or revised electrical circuits or to address damaged, spliced, or poorly routed or inadequately protected conductors.

6.02A VOLTMETER/AMMETER

Remove and discard existing voltmeter/ammeter.

Install a new single digital voltmeter/ammeter in the driver's console, which simultaneously displays voltage and alternator current when the ignition is on (Section 6.09 related). Display flashes to indicate low voltage.

6.04T IGNITION CONTROL

Transfer existing 100 amp solenoid for auxiliary chassis related functions.

6.05T MODULE POWER

Transfer existing CDR-357 module power control unit.

Transfer existing timer interlock.

6.07X BACK-UP ALARM

Leave existing back-up alarm on used chassis.

Install a new SAE J994-compliant self-adjusting back-up alarm.

6.09X DRIVER'S CONSOLE

Remove and return existing console to customer (Section 8.03 related).

Remove and return an existing MDC mount (Sections 6.18 and 8.03 related)

Install a new custom driver's console made of black-powder-coated formed aluminum between the seats, to match previous build #3162-3 with modifications to fit new Whelen Arges controller.

Console to include the following items

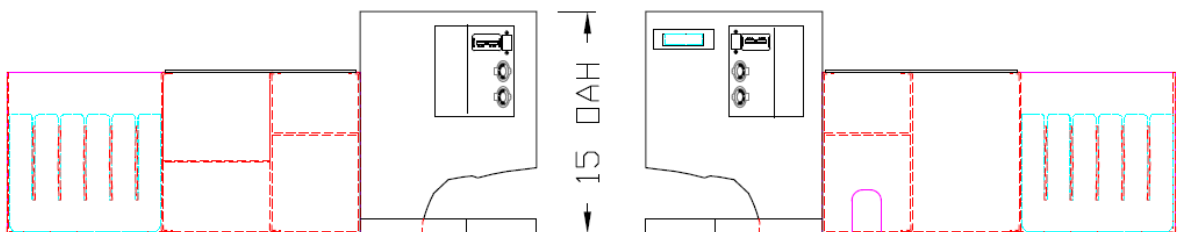
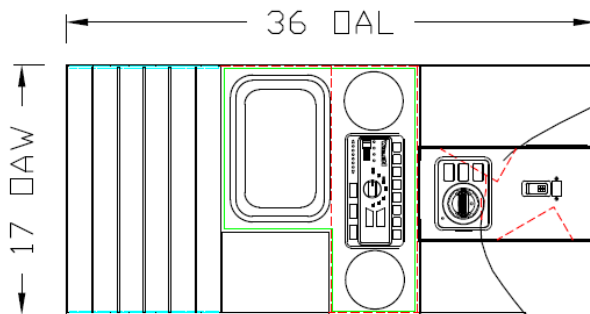
- A new digital voltmeter on the side of console, facing the driver
- A 7-quart waste container
- Four new 12 VDC port style receptacles installed on forward portion of console, two streetside and two curbside (Section 6.25 related)
- Two new 12 VDC dual USB receptacles installed on forward portion of console, one streetside and one curbside (Section 6.25 related)
- A new Arges controller (Section 6.30.05 related)
- A new Whelen core system (Section 6.30.09 related)
- A new custom cup holder plate
- A new map holder with four mill-finished aluminum dividers
- A new custom faceplate with the following layout
- A new "MODULE DISC" switch installed in forward vertical portion of console

1.
MODULE
DISC.

Whelen Arges
Control (Section
6.30.05 related)

Whelen Core #CCTL6 (Section 6.30.09 related)

Reference build 3162-3



6.10T

SWITCHES

Transfer existing switches and replace defective switches.

6.11X MAP LIGHT

Install a new Code 3 #CW0410-WR red/clear LED light on the cab headliner over the passenger with integral switches in the light head.

6.12X WARNING LIGHT

Install a new Whelen #3SA00FAR Amber lens Amber LED flasher overhead in the cab to warn the driver of an open module passage or compartment door, or when the parking brake is applied when the vehicle is out of park

6.13T CONTROL PANELS

Transfer existing attendant control panels, replacing defective switches and inserts.

1.	2.	3.	4.	5.	6.
DOME HI-OFF-LO	DOME HI-OFF-LO	ATTENDANT LIGHT	VENT	SUCTION	ELEC. O2

1.	2
DOME TIMER	AUX LIGHTS

6.14 CABINET LIGHTING

.Transfer existing under-cabinet LED lighting below Cabinet #2 and #3.

Transfer existing automatic cabinet light in Electrical Cabinet #13.

Remove and discard existing under-cabinet lighting below Cabinets #9 and #10.

Install new LED strip lighting below Cabinets #9 and #10.

Under-cabinet lights below Cabinet #2 and #3 controlled by the "ATTENDANT LIGHT" switch in attendant control panel.

Under-cabinet lights below Cabinets #9 and #10 controlled by the "AUX LIGHTS" switch in Curbside Squad Bench with Storage control panel.

6.15T STEP LIGHT

Transfer existing step light.

6.16T MODULE INTERIOR LIGHTING

Transfer nine existing dome lights one bank of four lights streetside of centerline, four lights curbside of centerline, and one above Cabinet #17

The four corner dome lights shall be activated when the side or rear module entrance doors are opened or by a momentary rocker switch labeled "DOME TIMER" on the curbside attendant panel.

Dome lights controlled by the "DOME HI-OFF-LO"/"LEFT DOME"/"RIGHT DOME"/"DOME HI-LO-OFF" switches in attendant control panel. Pressing the switch once shall initiate 30-minute timed operation of the lights. Pressing the switch again shall cancel the timed operation. The first Dome Hi/Off/Lo switch in the attendant panel shall control the four corner lights; the second Dome Hi/Off/Lo switch in the attendant panel shall control the remaining lights.

6.17T BASIC EXTERIOR LIGHTING

Transfer existing tail/stop, turn, back-up lights.

Transfer third brake light included with rear upper flashers (Section 6.30.02 related).

Install new Truck-Lite #36 LED module identification, clearance, and side marker lights.

6.18X COMMUNICATIONS EQUIPMENT

Vehicle owner is responsible for repowering and tuning equipment.

Item #1

Description: Transfer one existing Motorola APX 6500 800MHz transceiver, remote head, mic, auxiliary speaker, antenna.

Locations:

- A remote head with bracket on top of the dashboard, near center of dash with speaker mounted behind the driver's seat, lower
- Radio transceiver in Squad Bench with Storage #17

Additional Instructions: Make all connections including antenna, antenna cable(s), battery power and/or ignition power, and grounds. Radio power and grounds shall be connected to the appropriate Blue Sea fuse blocks in Cabinet #17 Prior to powering up of the module, remove and secure to fuse holders all in-line fuses of radio equipment.

Reference build 3162-3



Item #2

Description: Transfer existing Firecom system, including intercom, two headset jacks, two headset hooks.

Locations:

- Intercom in Bench Seat with Storage #17
- Two headset jacks with hooks on back of cab wall; one each behind driver and passenger seat

Additional Instructions: Make all connections including battery power and grounds battery hot. Connect to Motorola APX 6500 800 MHz transceiver in Bench Seat with Storage #17.

Item #3

Description: Transfer a split bus fuse block for *customer-supplied-and-installed* equipment.

Location:

- In Bench Seat with Storage #17

Additional Instructions: Label and functionally wire each fuse block, circuit in electrical panel. Install 30 amp automatic reset breaker wired ignition hot, and a 40 amp automatic reset breaker wired battery hot.

Item #4

Description: Transfer 30 amp circuit breaker, ignition hot, for *customer-supplied-and-installed* equipment.

Location(s):

- In Bench Seat with Storage #17

Additional Instructions Properly label and functionally wire each circuit. Coil and cap all wires.

Item #5

Description: Remove and return an existing MDC mount (Section 8.03 related).

Location(s):

- Driver's center console

Additional Instructions None

Item #6

Description: Transfer existing Sierra Wireless modem.

Location(s):

- In Cabinet #13-Electrical

Additional Instructions None

6.19T ANTENNA MOUNTS AND CABLES

Transfer existing four antennas with bases on module roof and cables shall terminate: three in Squad Bench with Storage #17 and one at the driver's console.

6.20B BLOCK HEATER

No modifications to OEM block heater.

6.21X 120 VAC/SHORELINE CIRCUIT BOX

Remove and discard existing shorepower connection.

Install one new Leviton 15378 with gray cover and with a green indicator light on a stainless steel plate on the driver's side of module.

Transfer seven existing interior 120 VAC GFCI receptacles in the following locations:

- One in Compartment #1
- One in Cabinet #1
- One in Cabinet #2
- One in Cabinet #3
- One in Cabinet #5
- One in Cabinet #9
- One in Cabinet #16

Install one new 120 VAC GFCI receptacle in Cabinet #3.

Install new power box in Compartment #1.

Install circuit breakers for overcurrent protection and circuit isolation

- Inverter (20 amp)
- Receptacles (15 amp)

6.22 BATTERY GROUNDS

In addition to OEM chassis grounds, add the following ground circuits to reduce RF interference:

- A minimum 4 ga. ground cable from the power component panel to the chassis frame.
- Two braided ground straps from the module body to the chassis frame.

6.23B BATTERY CHARGER

A 60 amp battery charger shall be provided as part of the Samlex Pure Sine 1200 watt inverter system (Section 6.31 related).

6.24X BATTERY MODIFICATION

Two existing batteries shall stay in the trade-in chassis, one under hood and one shipped loose (Section 8.03 related).

Install two new Odyssey Group 31 AGM batteries in Compartment #4.

Transfer existing charging relay in Compartment #4.

Two OEM batteries shall be returned to customer (Section 8.03 related)

6.25X 12 VDC POWER SUPPLY

Remove and discard existing dual USB round with cover charging port in Action Area #5
Install four new 12 VDC power point receptacles, wired battery hot, in forward section of console, two streetside and two curbside

Install a new switch insert style Kussmaul USB A/C charging port single switch mounting plate in Action Area #5

Install two Kussmaul switch insert usb chargers in forward section of driver's console, one streetside and one curbside.

6.26T COMPARTMENT LIGHTING

Transfer eight existing compartment LED strip lights: two in each compartment.

6.27X EXTERIOR DOOR SWITCHES

Remove and discard contact door switches on curbside passage door. Patch holes before repainting.

Install new 1/2" mechanical door switches on all passage and compartment doors.

6.30X EMERGENCY WARNING SYSTEMS

Emergency lighting shall be controlled by the Whelen CenCom CORE siren (Section 6.30.09 related). Each light head/Function (if multi-function capable light) shall be individually wired directly to an assigned output on the Core controller

6.30.01X FRONT LIGHTBAR

Transfer and clean existing lightbar on front of module.

Location	Lens Color	Model	Light Color	Type	Light	Flash Pattern	Additional
Curbside	Red	700	Red	LED	Flasher	Signal Alert	
	Red	700	Red	LED	Flasher	Signal Alert	
	Red	700	Red	LED	Flasher	Signal Alert	
	Clear	700	Clear	LED	Flasher	Signal Alert	
Center	Clear	70200CR	Clear			Emitter	
Streetside	Clear	700	Clear	LED	Flasher	Signal Alert	
	Red	700	Red	LED	Flasher	Signal Alert	
	Red	700	Red	LED	Flasher	Signal Alert	
	Red	700	Red	LED	Flasher	Signal Alert	

Lights shall be controlled by the Whelen CenCom CORE siren (Section 6.30.09 related)

6.30.02X REAR UPPER FLASHERS

Transfer and clean three existing flashers with chrome flanges on rear of module, upper.

Remove and discard two existing scene lights with chrome flanges.

Install two new M62SLC EZ scene lights, with chrome flanges, with the rear upper flashers (Section 6.30.04 related).

Curbside: Red Lens Red flasher
Scene Light (Section 6.30.04 related)

Center: Red Lens Red Third Brake Light
Scene Light (Section 6.30.04 related)

Streetside: Red Lens Red flasher

Lights shall be controlled by the Whelen CenCom CORE siren (Section 6.30.09 related)

6.30.03X FLASHERS

Transfer and clean eight existing flashers with chrome flanges in the following locations:

- Two Whelen Clear lens Red Super LED flashers on the streetside of the module, one in each of the upper corners.
- Two Whelen Clear lens Red Super LED flashers on the curbside of the module, one in each of the upper corners.
- Two Whelen Clear lens Red Super LED flashers on the rear of the module, one in each of the upper corners
- Two Whelen Amber lens Amber Super LED flashers on the rear of the module at window height.

Lights shall be controlled by the Whelen CenCom CORE siren (Section 6.30.09 related)

6.30.04X SCENE LIGHTS

Remove and discard six existing scene lights with chrome flanges.

Install four new Whelen #904SLC EZ SCENE LED scene lights with chrome flanges.

- Two on the streetside of the module, one in each of the upper corners, inboard.
- Two on the curbside of the module, one in each of the upper corners, inboard.

Install two new Whelen M62SLC EZ LED scene lights, with chrome flanges, with the rear upper flashers.

Curbside passage door activates the curbside scene lights.

Rear scene lights activate when the rear curbside passage door is opened or when the vehicle is placed in reverse.

Scene lights shall also be controlled by the Whelen CenCom CORE siren (Section 6.30.09 related).

Rear scene lights shall be controlled by the Whelen CenCom CORE siren and shall activate when the rear curbside passage door is opened or when vehicle is placed in reverse (Section 6.30.09 related).

6.30.05X SPOTLIGHT

Leave existing Golight **on used chassis** with controller **on used driver's console**.

Install a new Whelen Arges #ARGFMKT kit including one 360 Super-LED Spotlight, one flat mount and one control head in the following locations:

- 360 Super-LED Spotlight and flat mount on the center of cab roof
- Control head on driver's console

Reference build# 3300-1 Sedro Wolley:



Controller:



6.30.06X INTERSECTION LIGHTS

Transfer and clean four existing module flashers with chrome flanges, one on each cab fender and one above each module wheel well.

Lights shall be controlled by the Whelen CenCom CORE siren (Section 6.30.09 related).

6.30.08X GRILLE LIGHTS

Transfer and clean two Whelen #50R03ZRR Red lens Red LED flashers with chrome housings on the upper grille. Transfer and clean two Whelen #50C03ZCR Clear lens Clear LED flashers with chrome housings on the lower grille.

Lights shall be controlled by the Whelen CenCom CORE siren (Section 6.30.09 related).

White lights shall disable when the vehicle is shifted into park.

6.30.09X SIREN

Remove and return existing siren on the driver's console (Section 8.03 related)

A new Whelen CenCom CORE siren, including a #C399 controller module, WeCanX #CCTL6 Control head, a #CEM4HC **High Current** remote expansion module CEM16 Expansion Module, a CV2V Vehicle Sync Expansion Module and a #C399SP SCANport Connection kit. The WeCanX #CCTL6 control head shall be installed in the driver's console. Standard features shall include eight push buttons, a four-position slide switch (off, 1, 2, and 3), a seven-position rotary knob control head, and a manual button. The hand's free function shall operate through OEM horn ring circuit when the sirens rotary selector is in the HF position and slide bar is in position #3. The #C399 siren controller module and expansion modules shall be installed in the Electrical Cabinet #13.

Slide Bar functionality as follows:

Slide bar functions:

- Position 1 – Rear Flashers
- Position 2 – Upper four corner flashers
- Position 3 – All Flashers

The following switches will be used in the CenCom Core Siren.

- Left Scene
- Rear Scene
- Right Scene
- Blank
- Blank
- Blank
- Blank
- Blank

Note: Programming of siren and emergency lighting shall be determined at preconstruction meeting.

6.30.10X SIREN SPEAKERS

Leave two existing speakers **on used chassis**.

Install new Cast Products thru-the-bumper system with two 100-watt speaker drivers in the OEM bumper.

6.31X INVERTER

Remove and return existing inverter and status panel to customer (Section 8.03 related)

Install a new Samlex 1200-watt inverter with a 60 amp battery charger in Bench Seat with Storage #17. Configure inverter to turn on and off with ignition.

Install a new Samlex 1200-watt remote status panel in Action Area #5.

6.35B FLUID WARMER

Remove and discard one existing fluid warmer.

Install two new Smithworks 120 VAC fluid warmer with two 2.5"H acrylic side panels in Cabinet #3

6.40X ELECTRIC DOOR LOCKS

Transfer existing electric door locks as they exist.

Transfer existing aftermarket key fob control module in Cabinet #13.

Configure aftermarket key fob control module to utilize new OEM key fobs.

Install a new hidden unlock switch behind the license plate on the rear of the module.

6.46X AUDIO/VIDEO/RECORDING EQUIPMENT

Remove and return back up camera to customer (Section 8.03 related). Existing rearview mirror monitor, and two fender cameras shall remain with used chassis.

Description: Install a new Zorg back-up camera system shall be installed, including a surface-mounted camera and a rear-view mirror/monitor with a 7.2" screen.

Location: Camera on the rear of the module, centered above the rear passage doors. Rearview mirror/monitor centered on chassis windshield, upper.

Additional Instructions: Camera shall automatically display on monitor when the vehicle is placed in reverse.

6.48X TRAFFIC SIGNAL PREEMPTION

Transfer existing traffic emitter signal preemption system in front lightbar.

Lighting controlled via Core Siren on driver's console

7 SUPPORTING DOCUMENTATION

7.01 OWNER'S MANUAL

- Chassis owner information packet.
- Second OEM key.
- Remount warranty.
- Factory Chassis warranty.
- 1-year/24,000 mile limited electrical warranty.
- Electrical load test.
- Alternator maintenance information.
- Schematics for individual options.
- Warranty and parts list for lightbar, etc.

7.03 LABELS

Provide the following labels:

Label Description	Location
Braun Northwest Paint Label	Inside of the electrical cabinet door
FMVSS Certification Label	Adjacent to the chassis OEM stickers, typically on the B pillar (or inside of the electrical cabinet door if there is no room on the B pillar)
Tire and Loading Information Label (for under 10k GVWR only)	
Overall Height and GVWR	Visible to the driver while seated
Medical Gas Test Certification	Near the medical gas cylinder
Shorepower Inlet Rating	Near the shorepower inlet
Line Voltage Receptacle Rating	At each receptacle

8 MISCELLANEOUS EQUIPMENT

8.01 LOOSE EQUIPMENT

Ship the following equipment loose with vehicle:

- Touch-up paint, one bottle each: Race Red (G4-100871777)
- Spare tire & wheel

8.03 EQUIPMENT TO BE RETURNED

Return the following equipment to customer, if not transferred or reused. Customer is responsible for taking all returned equipment.

- One used chassis
- Two old license plates
- 4 used Alcoa wheels
- Two OEM batteries
- One old battery
- One used Voyager back-up camera
- One Magnum inverter with status panel
- One old Grover air horn
- One old air compressor and switch
- One old center console
- Old tire chains
- One Red/White dome lamp
- One old back up alarm
- Two old siren speakers
- One old Golight
- One back up camera monitor with camera
- Two old fender cameras
- One old 18" yellow powder coated grab bar
- One old MDC mount
- One old Viper alarm system
- One old MDC mount
- One old siren
- One old Havis Idle Right 2 module

8.04 EQUIPMENT INSTALLED AT CUSTOMER INSPECTIONS

The following items shall be installed at customer's final inspection

- Chassis Label



Refurbished 2016 North Star Vehicle_051325_SD

Final Audit Report

2025-05-19

Created:	2025-05-16
By:	Ashleigh Scott (AScott@everettwa.gov)
Status:	Signed
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