



Mushriqui Consulting LLC

Ford F-350 Ambulance



Specifications Before Armoring

Overall Length 272
Curb Weight 9525
Overall Width 92
Front Payload 649
Overall Height 104
Rear Payload Available 4426
Module Length 144
G.V.W.R. 13,000
Combined (Total) Payload 2975
Module Interior 68
Module Floor Height 32



Mushriqui Consulting LLC

CHASSIS -OEM

AIR BAGS -OEM driver's side and passenger's side air bag

AIR CONDITIONING -OEM high output fresh air heater & air conditioner system

ALTERNATOR -Dual 130 amp Ford alternators with internal regulators & rectifiers.

AMBULANCE PREP PACKAGE -BATTERY SYSTEM -Dual battery system rated at 1500 CCA

BRAKES -Heavy duty dual hydraulic/hydroboost brake booster power disc-type on front and rear axle: Four wheel ABS

BUMPER, FRONT -Chrome front bumper with lower center trim

CHASSIS -2005 Ford F-350 Super Duty chassis -165" wheelbase

CRUISE CONTROL -ENGINE -6.0L Powerstroke V8 turbo diesel engine with block heater

FLOOR CONSOLE -OEM center floor console with drink holders and storage

FRONT AXLE RATING -4,850 lbs (4,550 -4,850 lbs. G.A.W.R.) **FUEL TANK** -Single fuel tank - 40 gallons

G.V.W.R. -13,000 lbs.

GAUGES CHASSIS -Temperature, oil pressure, fuel, voltmeter **GRILLE** -Argent grille insert w/chrome surround

HIGH IDLE SYSTEM, AUTOMATIC / VOLTAGE MONITOR -HORNS -Dual tone electric horns

LIGHT, DOME -Dual map/reading lights **MIRROR, EXTERIOR** OEM -Manually telescoping, breakaway w/power adjust

MIRROR, INTERIOR CAB -Cab interior day/night cab mirror

POWER WINDOWS AND LOCKS

RADIO -OEM AM/FM Stereo cassette with single CD and digital

REAR AXLE RATING -9,750 lbs (9,750 lbs G.A.W.R.), 4.10 rear axle ratio

SEATS -OEM Deluxe reclining high back captain chairs, lap and shoulder seat belts for both driver and passenger

SHOCK ABSORBERS -Heavy duty shock absorbers on front and **STABILIZER BARS** -Heavy duty stabilizer bar on front & rear

STEERING -Tilt steering wheel **TIRE, SPARE** -Spare tire and changing tools shipped loose

TIRES -(6) LT235/85R x 16-E Steel belted radial, all season

TRANSMISSION -Torqshift automatic transmission

TRANSMISSION OIL COOLER -OEM Heavy duty finned auxiliary transmission oil cooler

TRIM PACKAGE -OEM XLT package

TRIM, INTERIOR -Medium flint cab interior color, OEM molded cab headliner, OEM trim panels with storage pockets on cab doors

WIPERS -Intermittent windshield wipers with washer

CHASSIS CONVERSION

AIR RIDE-LINK air ride w/load lowering feature

FUEL -The fuel tank(s) shall be full at time of delivery

HEAT SHIELDS -Above muffler and exhaust system

VALVE EXTENSIONS -AP5 valve extensions

WHEEL SIMULATORS -Stainless steel wheel simulators



ELECTRICAL SYSTEMS FEATURES

ALARM, BACKUP -ATTENDANT CONTROL PANEL (ACP) – Mastertech w/ Vista III
CONVERTER / BATTERY CONDITIONER -40 amp ELECTRICAL CIRCUITS -High
temperature "SXL" wiring for 12 volt

Ambulance circuits, high temperature thermoplastic loom on all harnesses, SGX
battery/charging system cables

GFCI -20 amp GFCI circuit breaker INVERTER PREWIRE -terminated in exterior
compartment OSS #1

LIGHT, CLEARANCE -ICC -ICC body lights are LED with chrome LIGHT, DOME -(8)
Dual intensity dome lights with 3-way hi & low switching

LIGHT, DOOR OPEN INDICATOR -Separate "door open" warning lights for entrance &
OSS doors

LIGHT, FLUORESCENT -(2) #718XL 12 vdc powered fluorescent lights in the patient
compartment with 3-way switching

LIGHT, OUTSIDE STORAGE (OSS) -Each OSS compartment automatically illuminated
MCC (MASTER CONTROL CONSOLE) – Mastertech w/ Vista III

METER, AMP / VOLT -(3) Ammeters & (1) voltmeter in MCC screen OUTLET,
INTERIOR 115 VAC -(1) 115 vac lighted patient compartment outlet

OUTLET, INTERIOR 12VDC -(2) 12 vdc outlets (cigarette lighter type) with Schottky
diode medical isolator

PDQ (POWER DISTRIBUTION QUARTERS) -MasterTech digital electronic control
system

RADIO ANTENNA BASE -(1) #K-794 Antenna base (located adjacent to a dome light)

RECEPTACLE, SHORELINE -20 amp manual inlet receptacle SWITCH, EMERGENCY
MASTER -SWITCH, MCC AND ACP -MasterTech Vista III digital display with touch pad
switches

SWITCH, MODULE POWER –



MODULE FEATURES

- **ANTI-CORROSION PACKAGE** -Includes nylon screw-hole inserts to prevent fastener contact with the module body, nylon hinge strips, ceramic coated hinge bolts, and ECK corrosion prohibitor spray
- **ASSIST HANDLES** -(4) 15.5" black urethane coated assist handles, one on each door, one at the rear doorway
- **BODY CONSTRUCTION** -SolidBody construction of welded .125" thick minimum 5052-H32 marine grade aluminum **COMPARTMENT, EXTERIOR #1** – Backboard storage
- **COMPARTMENT, EXTERIOR #2** -Storage (can accommodate a folding chair / stretcher.)
- **COMPARTMENT, EXTERIOR #3** -Storage for "M" or "H" oxygen cylinder
- **COMPARTMENT, EXTERIOR DESIGN** -All exterior compartments and closeouts shall be sprayed with polyurethane material, have Tri/Mark paddle handles with rotary locks on each OSS compartment door, protective gasket under each paddle handle, and .072" thick diamond plate door skins
- **CONNECTIONS, MODULE** -Module secured to chassis frame with (12) 5/8" bolts through OEM rubber mounted spacers
- **DOOR-CONSTRUCTION** – Inverted pan design w/.190" aluminum skin material, gaskets on the door and protected latches.
- **DOOR, SLIDING** –EZ Glide sliding curbside module entry door
- **DOORWAY / DOORS, PASSAGE** -Black Tri/Mark paddle handles with rotary locks on each module passage door (doors latch to module only), .213 steel door latch activator rods with turn buckle
- **FENDERETTES** -Anodized polished aluminum module fenderettes **INSULATION** -Nominal 3/4" thick Class 1 fire retardant sprayed urethane insulation
- **MATTING, CURBSIDE DOORWAY** -Entrance shall have skid resistant gray turtle tile
- **PAINT, MODULE** -module painted with PPG Delta DHS 4289 white low VOC polyurethane (to match Ford YZ White)



Mushriqui Consulting LLC

- RUB RAILS -Anodized polished aluminum rub rails with 5/8" wide black reflective scotchlite tape
- SCOTCHLITE -6" x 2" Piece red scotchlite tape on the lower inside edge of each passage & OSS door
- STEP, REAR -Anodized aluminum welded 53.75" wide recessed rear step, heavy gauge polished stainless steel bumperettes on rear step
- STONE GUARDS -Anodized 24" high aluminum diamond plate stone guards on lower front corners of module
- THRESHOLD, REAR -Anodized aluminum diamond plate rear threshold
- WINDOW, PASSAGE DOOR -(1) Fixed window with tinted glass in each rear passage door, (1) openable window with screen and tinted glass in curbside passage door
- UPHOLSTERY -Heavy duty vinyl (Charcoal Gray)
- VENTILATOR, EXHAUST -Multi-speed exhaust ventilator
- WALL COVERINGS -Scratch resistant, multi-use polychromatic coating

EMERGENCY WARNING EQUIPMENT

- KKK FLASH PATTERN -Meets KKK-A-1822E
- LIGHT BAR, FRONT – Whelen 45 Series Light bar -(4) red rotators, (2) red outboard flashers, and (1) clear center flasher
- LIGHT BAR, REAR – Whelen 45 Series Light bar -(4) red rotators, (2) red outboard flashers, (1) amber center flasher, (2) 26° scene lights; momentary disable switch w/auto reset for rear scene
- LIGHT, FLASHING HEADLIGHTS -with daytime running lights LIGHT, GRILLE - (2) Whelen 700 Series red halogen grille lights in aluminum housings
- LIGHT, INTERSECTION -(2) Whelen 700 Series red halogen intersection lights aluminum housings



Mushriqui Consulting LLC

- LIGHT, MODULE SIDE -(4) Dual light sets -(2) each side, consisting of (1) Whelen 900 series red halogen warning light with chrome bezel & (1) Whelen 900 clear halogen scene light with chrome
- LIGHT, TAIL – Whelen 600 series brake / tail, back-up, and amber arrow turn signal lights
- LOAD MANAGER / SEQUENTIAL SWITCHING SYSTEM -PARK OVERRIDE -SIREN – Whelen 295FHS/7 dual amp remote w/ microphone SPEAKERS, SIREN -100 watt siren speakers installed in the bumper

PATIENT COMPARTMENTFEATURES

- ASPIRATOR SYSTEM -Counter mounted Impact 324 self-contained system
- ATTENDANT SEAT & BASE -Deluxe high back, deep cushion attendant seat mounted on sliders on a swivel pedestal base
- CABINET DOORS -1/4" thick clear acrylic sliding doors CABINET FACE -Scratch resistant, multi-use polychromatic coating with a clear epoxy finish
- CABINET, LOWER FRONT WALL -(1) Compartment with (2) adjustable shelves
- CABINET, STREETSIDE -(3) Compartments w/CPR seat or (5) compartments with no CPR seat
- CABINET, UPPER FRONT WALL -(2) Compartments COT FASTENER -Single-position, cot mount fastener, installed for cot model specified in either side or center position
- FLOOR CONSTRUCTION – Composite space-age (non-wood) material over .125" aluminum
- FLOOR COVERING -Lonplate II #421 Mica single piece flooring, coved 10" high on the streetside and to the top of squad bench base on curbside
- GRAB RAIL -96" L One-piece stainless steel ceiling grab rail installed above the cot area



Mushriqui Consulting LLC

- HEADLINER -White vinyl clad aluminum patient compartment headliner
- HEATER / AIR CONDITIONER SYSTEM -High capacity 475 cfm fresh air heavy duty heater/air conditioning system installed in the bottom compartment of the lower front wall cabinet, digital thermostat
- I.V. HANGERS -(2) Perko I.V. hangers with stabilizing straps
- OXYGEN CYLINDER STORAGE -Storage for (1) "M" or "H" size oxygen cylinder in OSS #3
- OXYGEN SYSTEM -Oxygen system with (3) Ohio Med outlets
- PARTITION WINDOW -Sliding window access from module to cab
- RADIO SPEAKERS -(2) Stereo speakers in patient compartment with fader control in radio
- SHARPS CONTAINER / GLOVE DISPENSER -A recessed, sharps and waste container – in forward end of squad bench.
- SIGNS -(2) No smoking, oxygen equipped, fasten seat belt signs
- SQUAD BENCH BASE -Interior dimensions (18.5"h X 69"w X 16.125"d), the interior of the squad bench shall be sprayed with sound absorbing polyurethane material
- SQUAD BENCH CUSHION -Cushion area 19"W X 70"L, Lid area 22"W x 69"L
- SQUAD BENCH LATCH -TRASH CONTAINER -Mounted in end of the squad bench

KKK-A-1822/E

KKK-A-1822E CERTIFICATION -with deviation sheet



MAINTENANCE

1.1 MAINTENANCE Package (Optional)

1.1.1 Maintenance Levels

The System Operators or Technical Personnel are responsible for the following Maintenance tasks and include the following:

- i. Preventive Maintenance such as Inspections.
- ii. Preventive Maintenance such as Cleaning.
- iii. Preventive Maintenance such as Services.
- iv. Corrective Maintenance such as Replacement of Items with a High Failure Rate or Wear-out Rate and which can be replaced with ease.
- v. Corrective Maintenance by Replacement of LRU's (Line Replaceable Units, Assemblies, Sub-assemblies etc.) with a High Failure Probability, High Criticality and which are within the Capability.
- vi. Recovery of Equipment from the Deployment or Units to a maintenance level for Corrective Maintenance.

1.1.2 Maintenance Equipment

Available at all repair facilities

- i. Operating Equipment and Accessories.
- ii. Maintenance Equipment. (Toolboxes)
- iii. Maintenance Items.(Service Packages)
- iv. Spares as required.
- v. Support Equipment as required.
- vi. Special Support and Test Equipment as required.
- vii. Common Support and Test Equipment as required.

1.2 MAINTENANCE ELEMENTS

1.2.1 Documentation

The following documentation is used for vehicle Maintenance:

- i. Operators Maintenance Manual (OMM) for the Operators Maintenance Tasks.



- ii. Maintenance Schedule for the definition of all Preventive Maintenance.
- iii. Workshop Repair Manual (WRM) for Technical Maintenance Tasks.
- iv. Illustrated Parts Breakdown (IPB) to identify Spare Parts.
- v. Illustrated Stock List (ISL) to identify Support Equipment and Spares.

1.2.2 Support Equipment

The following types of support equipment are used for Maintenance:

- i. Support Equipment carried in the Equipment ETS Boxes including Operating Equipment, Accessories and Maintenance Equipment.
- ii. Support Equipment as required for Preventive and Corrective Maintenance.
- iii. Support Equipment required and consists of Special Tools and Common Equipment which are within the Capability.

1.2.3 Spares

The following types of spares are required for Maintenance:

- i. Spares kept in the Equipment ETS Boxes.
- ii. Preventive and Corrective Maintenance Spares.

1.2.4 Personnel

The following operating and or technical personnel are located at all repair facilities:

- i. Auto Electricians for Vehicle and PSU Electrical.
- ii. Auto Mechanics for diesel and petrol engines.

Armoring

Vehicle Armoring is available in all different levels depending on customer preferences. For more information on armoring levels please visit

www.mushriquiconsulting.com/armorlev.htm

NIJ Level III/B6 Armored Vehicles



SPECIFICATION SHEET

Protection System	NATO CLASS / HIGH LEVEL
Glass Areas	44 MM BULLET-RESISTANT TRANSPARENT ARMOR, MULTI-LAYER GLASS AND POLYCARBONATE INNER LAYER
Glass Appearance	GLASS IS CURVED AND CONTOURED TO RETAIN THE APPEARANCE OF THE ORIGINAL GLASS. ALL TRANSPARENT AREAS IS ARMORED TO LEVEL B6 WITH 44MM BALLISTIC AUTO GLASS.
Front Side Driver Window	OPERABLE TO 6 INCHES
Body Doors	PILLAR POSTS, SIDE PANELS, KICK-PANELS, FIREWALL, AND HEADERS (LATERALS) ARE ARMORED WITH BALLISTIC COMPOSITE MATERIAL EQUIVALENT MATERIAL OR AIR HARDENED HEAT TREATED BALLISTIC STEEL (NIJ LEVEL III AND EN 1063 B6 PROTECTION)
Roof	ARMORED WITH BALLISTIC COMPOSITE MATERIAL
Floor	FLOOR AREAS ARE ARMORED WITH MULTI-PLY RIGID BALLISTIC FRAGMENTATION MATERIAL COMBINED WITH KEVLAR MOLDED TO FORM FIT CONTOURS OF FLOOR BOARDS AND PANELS. DESIGNED TO DEFEAT THE FOLLOWING HAND GRENADES AND ALL LESSER EXPLOSIVES. TWO DM 51 (GERMAN NORM) HAND GRENADES PER SQ.M. DETONATED SIMULTANEOUSLY
Opaque Areas	<p>PROTECTS AGAINST SOFT CORE PROJECTILES FIRED WITH THE FOLLOWING AND ALL LESSER WEAPONS AT 90° AND 45° (ROOF) IMPACT ANGLE IN ACCORDANCE WITH CEN.</p> <ol style="list-style-type: none"> 1. CALIBRE 7.62 X 39 MM, FJ/PB/SC, AK 47, (KALASHNIKOV) OBR-43 PS 2. CALIBRE 5.45 X 39.5 MM AP, FJ/PB/SCP, AKS 74, (KALASHNIKOV) OBR-74 3. CALIBRE 5.56 X 45 MM, FJ/PB/SCP, US RIFLE M16 A2, SS-109 /M-855 4. CALIBRE 7.62 X 51 MM, FJ/PB/SC, "FAL" /



Mushriqui Consulting LLC

	"LAR" NATO RIFLE			
Transparent Areas	<p>PROTECTES AGAINST SOFT CORE PROJECTILES FIRED WITH THE FOLLOWING AND ALL LESSER WEAPONS AT 90° IMPACT ANGLE IN ACCORDANCE WITH CEN.</p> <ol style="list-style-type: none"> 1. CALIBRE 7.62 X 39 MM, FJ/PB/SC, AK 47, (KALASHNIKOV) OBR-43 PS 2. CALIBRE 5.45 X 39,5 MM AP, FJ/PB/SCP, AKS 74, (KALASHNIKOV) OBR-74 3. CALIBRE 5.56 X 45 MM, FJ/PB/SCP, US RIFLE M16 A2, SS-109 /M-855 4. CALIBRE 7.62 X 51 MM, FJ/PB/SC, (FN) "FAL" / "LAR" NATO RIFLE 			
Transparent Areas Ballistic Properties	TYPE OF WEAPON	CALIBER	BULLET	IMPACT SPEED
	RIFLE (E.G.: FAL G1)	7.62 X 51, 305 MM LAY	STEEL FULL METAL JACKET, POINTED BULLET, SOFT CORE WITH LEAD	830 + 10 M/S
	RIFLE (E.G.: US M16)	5.56 X 45, 178 MM LAY	COPPER FULL METAL JACKET, POINTED BULLET, SOFT CORE WITH LEAD AND STEEL PENETRATOR SS109	950 + 10 M/S
Certification	<ul style="list-style-type: none"> • H. P. WHITE LABORATORIES U.S.A • UNITED STATES LABORATORY <p>THE COMPLETE TESTING STANDARDS SET OUT IN THE GUIDELINES REFERRED TO, AS WELL AS THE TEST PROTOCOL AND ALL CERTIFICATES, MAY BE VIEWED.</p>			
Suspension & Braking System	<p>REAR STABILISER BAR UPGRADED TO A HEAVY DUTY MODEL</p> <p>BRAKING SYSTEM IS FULLY MODIFIED TO PERFORM UNDER ADDITIONAL ARMOURED VEHICLE BODY.</p>			



Mushriqui Consulting LLC

	<p>TIRES AND RIMS FITTED ARE FULLY APPROVED FOR THE HIGHER VEHICLE WEIGHT RATIO ACCORDING TO TÜV / MOT (DOT EQUIVALENT) TYPE RECOMMENDATIONS AND LEGAL REQUIREMENTS.</p> <p>MODIFICATIONS ARE CARRIED OUT TO ASSURE THAT THE VEHICLE PASSES THE VERY EXACT GERMAN TYPE APPROVAL.</p>
<p>Extra Security Equipment Fitted as a Standard to Vehicle</p>	<p>REINFORCED HINGES: SPECIALLY DESIGNED REINFORCED STRENGTHENED HEAVY DUTY DOOR HINGES A MINIMUM OF TWO EXTRA HINGES PER DOOR</p> <p>PROTECTED FUEL TANK: COMPLETELY ARMOURED ACCORDING TO THE SPECIFICATIONS WITH LEVEL CEN B6. UTILIZING ARMORED STEEL</p> <p>PROTECTED VEHICLE MANAGEMENT SYSTEM (BLACK BOX): COMPLETELY ARMOURED ACCORDING TO THE SPECIFICATIONS UTILIZING LEVEL CEN B6. WITH ARMORED STEEL</p> <p>RUN-FLAT TIRE SYSTEM: 50 KM DISTANCE AT 50 Km/H SPEED.</p> <p>REAR CARGO: 100% PROTECTION AGAINST FOREIGN PROJECTILES AND SPLINTERS. THE TRANSPARENT ARMOUR AREA PROVIDES REAR VIEW VISION WITH MINIMAL OBSTRUCTION.</p> <p>VEHICLE SUSPENSION STABILISING BARS: ROBUST HEAVY DUTY HARD WEARING COIL SYSTEM. OEM COMFORT STANDARDS ARE MAINTAINED WITH THIS FEATURE.</p>
<p>Optional Security Extras</p>	<ul style="list-style-type: none"> • ALARM SIREN • BATTERY PROTECTION • BEACON CONNECTOR • BULL BAR • CENTRAL DOOR LOCKING • FIRE EXTINGUISHER SYSTEM • FLAG POLES



Mushriqui Consulting LLC







	<ul style="list-style-type: none"> • FOG LAMPS • HEAVY DUTY CAR JACK • 10 TON WRENCH • 4 WINDOW OPERABLE LIFTERS • INTERCOM / PUBLIC ADDRESSING SYSTEM • MAGNETIC BEACON <ul style="list-style-type: none"> • RADIO/CD COMBINATION • STALK MOUNTED MAP READING LAMP
Service Package	Local Service Provided in Baghdad, at Camp Victory & Camp Brooklyn, For all other locations in Iraq like Mosul, Tikrit, Basrah and Balad a team of engineers & technicians will be sent on secure military bases, All the above have the ability to conduct full warranty, maintenance & service for ballistic and non ballistic needs
Strobe Lights	BLUE OR RED LIGHTS VISIBLE OR NON-VISIBLE EXCEPT WHEN TURNED ON CAN BE MOUNTED TO THE VEHICLE TO DRAW ATTENTION IN STANDARD TRAFFIC SITUATIONS.
Telephone / Radio Cable Preparation	PRE-WIRING HAS BEEN LAID THROUGHOUT THE VEHICLE TO ASSIST FURTHER INSTALLMENT OF COMMUNICATION EQUIPMENT FOR ON BOARD TELEPHONE.
Toolbox	Standard Tools included for emergency situations



Warranty

- 3 YEARS OR 60,000 KM WHICHEVER COMES FIRST
- WARRANTY FOR DEFECTS IN MATERIALS AND WORKMANSHIP AFTER TRANSFER OF RISK.
- SERVICES UNDER THE WARRANTY SHALL ONLY BE PROVIDED FREE OF CHARGE IF THE DEFECTS ARE PROVEN IN DESIGN, MATERIALS OR WORKMANSHIP.
- THE WARRANTY IS EXTENDED TO ANY PARTS INSTALLED WHEN REMEDYING THE DEFECTS UNTIL EXPIRE OF THE WARRANTY PERIOD.

SAMPLE (Pictures doesn't reflect car type)

		
REAR HATCH DOOR	BATTERY COMPARTMENT	DOORS
		
ROOF	FRONT COMPARTMENT	RUNFLATS