Expedition vehicle MD58hv family
MB Zetros k 4x4 RS 4800
Chassis

- Mercedes-Benz Zetros 1833 4x4
- Shortened cab
- Wheel base 4800 mm (189"
- Engine performance 240 kW / 326 hp, Euro 5
- Allison automatic transmission
- Transfer case with off-road gear reduction
- All wheel drive with central differential lock
- Differential lock in front and rear axle
- Parabolic leaf springs
- Drum brakes with ABS
- Tires 16.00 R 20 tubeless
- Fuel tank capacity 300 liters (79 US gallons)
- Fuel prefilter with water separator
- Connector for compressed air
- Central tire inflation system CTIS
- Engine block heater
- Aluminum roof rack on driver's cab
- Xenon broad-beam lights in front
- Xenon high-beam lights in front
- LED searchlights
- LED working lights sideways and rear
- Light guards
- Truck horns
- Radiator guard
- Hydraulic / Electric winch with remote control
- 2 air suspended seats
- Additional seat for 3\textsuperscript{rd} person
- Additional thermal insulation
- Isolating plate for access to cabin
- Integrated air conditioning
- Auxiliary heater
- Back eye camera
- ETA automatic cutout
- Parrot Asteroid sound-system with hands-free kit and iPod connection
- Garmin satellite navigation (GPS)
- CB Radio
- Zarges aluminum storage box on the roof rack
Body

**Outer dimensions of the cabin**
- Length 5800 mm (228”), width 2480 mm (98”), height 2105 mm (85”)

**Inner dimension of the cabin**
- Length 5680 mm (224”), width 2360 mm (93”), height 1950 mm (77”)

**Frame assembly**
- 3-point kinematic attachment with main and flex mounts for stress-free body coupling to the torsion elastic chassis frame

**Body unit construction**
- Self supporting UNICAT sandwich plate panels of fiberglass composite
- Panel connections made by adhesive bond to custom extrusions eliminates metallic heat conduction paths
- Matched thermal coefficients of expansion prevent distortion with changes in temperature
- Wall thickness 60 mm (2.36”) with polyurethane foam insulation, 3 mm (0.12”) FRP outer surface, 2 mm (0.08”) FRP inner surface
- Insulation rating 0.44 W/sqm K (0.078 btu/ft h degF)
- Bottom panel with integrated welded steel frame and FRP surfaces
- Slope at rear to improve slope angle
- Slanted front of body for better aerodynamics and appearance

**Entrance door and storage compartment doors**
- Entrance door and storage compartment door constructed of fiberglass composite panels and frames
- Thickness of doors 60 mm (2.36”)
- Double sealed doors with heavy duty locks with seal compression
- Stainless steel hinges throughout
- Additional retractable bolts at top and bottom of entrance door
- Safety cylinder locks all keyed alike
**Windows**
- Burglarproof, scratchproof top-hinged windows with fiberglass frames
- Double insulated thermal window glass
- Double seals with heavy duty lock
- Stainless steel hinges throughout
- Stainless steel lifting and locking device
- Aluminum-frame black-out and mosquito blinds
- Fixed windows in the front
- Portholes at the bunk beds

**Skylights**
- Burglarproof skylight with aluminum frame in the bathroom
- 12.7 mm acrylic glass
- Heavy duty lock
Interior layout

**Seating area**
- U-shaped seating area for 4-6 persons, with swivelable table on pedestal in the front of the cabin
- Seating unit converts to additional bed (1400 x 2000 mm)

**Bedroom**
- Double bed with suspension, ventilation and comfortable mattress in the rear on pedestal, size: 1400 x 2000 mm (55” x 79”)
- 2 bunk beds, 800 x 1850 mm (31” x 73”)
- Door to separate bedroom from living room

**Sanitary room**
- Combined shower and toilet room with door to isolate from bedroom
- Cupboard with VARICOR countertop and integrated wash basin
- Wall cupboard with mirror above the basin
- Also usable as dry storage due to its own radiator

**Kitchen**
- Countertop with integrated stainless steel sink
- 2-plate induction cooker
- Oven with microwave and grill
- 130 liters (34 US gallons) fridge
- 65 liters (17 US gallons) freezer rated 3 stars
- Kitchen cabinet with drawers on ball bearings
- Shock-proof separation for tableware, cookware and kitchen appliances
- Overhead cupboards above kitchen

**Storage**
- Wardrobe with shelves and clothes rail
- Overhead cupboards in bed area
- Storage space under the bunk bed
- Storage boxes in seating area
- TV-cupboard with drawers and folding countertop
- Large outside storage compartment under the bed pedestal
- Stainless steel exterior storage boxes
- Zarges aluminum storage box on the roof rack
Workmanship

- All furniture is built to the highest cabinet making standard, made of wood core plywood using heavy duty locks and hinges
- White surfaces and teak edges

Lay out

- Teak floor
- Walls and ceiling are painted with multiple coats
- Upholstery made of ALCANTARA
Technical equipment

Electrical equipment
- Control panel for power management and monitoring of liquid levels
- Battery main switch, fault current breaker, safety cut out
- DC power supplied by AGM battery bank
- Battery capacity: 24 V – 630 Ah
- Charged by vehicle’s alternator with charge distributor
- Inverter / Charger 230 V AC, continuous output 3 kW, peak output 6 kW, charge rate 70 A
- AC-DC charger 28 V – 25 A for international shore power connection, 90 -260 V AC (45 Hz-65 Hz)
- Power plugs for 12V, 24V DC, 230V AC and USB

Generator
- Air-cooled, petrol-powered Honda generator
- Performance: 1.6 kW
- Installed in outside storage box

Entertainment system
- Parrot Asteroid music system with MP3 / iPod input and voice control
- Bose Acoustimass 3 sound system
- Satellite TV system
- Blu-Ray player
- 26” HD LED TV in living area
- Bose environmental speakers
- 20” HD LED TV and speakers in bed area

Lighting
- Low voltage LED ceiling lights above the table, kitchen, bed, corridor and bath
- Reading lights in bed and seating area
- Lights for outside storage compartment
- LED outside wide-beam lights
**Water supply**
- 600 liters (159 US gallons) freeze-proof drinking water tanks
- 60 liters (15.9 US gallons) hot water heat-exchanger with auxiliary electric heater
- All plumbing is insulated to prevent freezing
- Waste water tank, capacity 110 liters (29 US gallons), freeze-proof, with drain pump
- City water connector
- Outside shower

**Toilet**
- Porcelain toilet with water flushing and automatic shower toilet
- Freeze-proof sewage holding tank, capacity 100 liters (26 US gallons), with drain pump

**Heating system**
- Diesel powered warm water central heating (5kW) (17,000 btu)
- Connection of heating system with the engine cooling system through a heat exchanger, to heat the body and hot water tank from engine's waste heat
- High radiant heat share due to radiators in living area, bedroom and sanitary room
- Towel dryer type radiator, mounted in the shower
- Additional heater in bed area
- Antifrost system

**Air conditioning**
- Roof-mount air conditioner, performance 3.2 kW (11,000 btu), powered by the generator or shore power

**Others**
- Smoke detectors
- Mounting for 4 sand ladders
- Spare wheel rack with loading crane at the rear

**General information**
- Dimensions: L 9419 mm (371”), W 2480 mm (98”), H 3591 mm (141”)

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